Curriculum Vitae

SUSANNAH L. SCOTT

Duncan and Suzanne Mellichamp Chair in Sustainable Catalytic Processing
Distinguished Professor of Chemical Engineering, and of Chemistry & Biochemistry
Chair, University of California Academic Senate, Santa Barbara Division

Executive Editor, *ACS Catalysis*; Board of Reviewing Editors, *Science*
Director, Center for Sustainable Manufacturing and Product Design, UC Santa Barbara
Director, Enhancing Success in Transfer Education for Engineering Majors (ESTEEM)

University of California, Santa Barbara, CA 93106-5080, USA
Phone: (805) 893-5606; email: sscott@ucsb.edu

Areas of Expertise

- Catalytic transformations of renewable and recycled energy feedstocks to fuels and chemical feedstocks;
- Design of new heterogeneous and supported catalysts for olefin (de)polymerization, metathesis and oxidation, and alkane activation;
- Applications of surface organometallic chemistry to active site characterization in heterogeneous catalysis and chemical vapor deposition of atomically-precise thin films;
- Inorganic reaction mechanisms, especially related to the activation of small molecules;
- New kinetic and spectroscopic methods for catalyst characterization.

Education

YEAR	DEGREE	DISCIPLINE	INSTITUTION
1987-1991	Ph.D.	Inorganic Chemistry	Iowa State University of Science and Technology
1984-1987	B.Sc.	Chemistry	University of Alberta

Academic or Professional Appointments

YEAR	TITLE	INSTITUTION
2020-2024	Chair, Academic Senate	University of California, Santa Barbara
2018-2020	Chang Jiang International Visiting Professor (Honorary)	Dalian University of Technology
2016	Visiting International Professor	Université de Lille, France
2014-present	Duncan & Suzanne Mellichamp Academic Initiative Professor	University of California, Santa Barbara
2014-present	Distinguished Professor	University of California, Santa Barbara
2012	Visiting Professorship for Senior International Scientists, Chinese Academy of Sciences	Dalian Institute of Chemical Physics, China
2003-present	Professor of Chemical Engineering	University of California, Santa Barbara, USA
2003-present	Professor of Chemistry & Biochemistry	University of California, Santa Barbara, USA
2001	Miller Visiting Research Professor	University of California, Berkeley
1998-2002	Associate Professor of Chemistry	University of Ottawa, Canada
1994-1998	Assistant Professor of Chemistry	University of Ottawa, Canada
1992-1994	NATO Postdoctoral Fellow	Institut de recherches sur la catalyse, Lyon, France
1992	Postdoctoral Fellow	Ames Laboratory, Ames IA, USA

Professional Organizations

Member	American Institute of Chemical Engineers
Member	American Chemical Society
Fellow	American Association for the Advancement of Science
Fellow	Royal Society of Chemistry

Awards and Honors:

1987	Gold Medal in Chemistry, University of Alberta
1987-1991	1967 Centennial Post-graduate Scholarship, NSERC
1989	Teaching Excellence Award, Iowa State University
1991	Research Excellence Award, Iowa State University
1992-1994	NATO Postdoctoral Fellowship
1994	John Charles Polanyi Prize in Chemistry
1994-1999	NSERC Women's Faculty Award
1997	Cottrell Scholar of Research Corporation
1998, 1999	Union Carbide Innovation Recognition Award
1999	University of Ottawa Young Researcher of the Year Award
1999	Premier's Research Excellence Award (Ontario)
2000	YWCA Women of Distinction Award (Information Technology and Science)
2001	Canada Research Chair in Surface Organometallic Catalyst Design
2001	Miller Visiting Research Professorship, University of California – Berkeley
2003	Prize for Best Poster, Catalysis and Reaction Engineering Divison, AIChE meeting, San Francisco CA
2006	Pinnacle Award (Science and Technology), South Coast Business Times
2008	Elected Fellow of the American Association for the Advancement of Science
2012	Visiting Professorship for Senior International Scientists, Chinese Academy of Sciences
2013	Mike and Jean Steffenson Lecturer, Iowa State University
2014-2019	Mellichamp Academic Initiative Professorship in Sustainability, UC Santa Barbara
2016	Visiting International Professorship, Université de Lille 1 – Sciences et Technologies
2017	Vladimir N. Ipatieff Lectureship, Northwestern University
2017	Grace Hopper Distinguished Lecturer, University of Pennsylvania
2018	John van Geuns Lecturer, University of Amsterdam
2019	Boulder Scientific Lecturer, Colorado State University
2018-2021	ChangJiang International Scholar Visiting Professor, Dalian University of Technology
2019	Kurt Wohl Memorial Lecturer, University of Delaware
2019	Eastman Lecturer, University of California, Berkeley
2020-2022	Chair, Gordon Research Conference on Catalysis
2023	Irving Wender Award, Pittsburgh-Cleveland Catalysis Society
2023	Peiyang Lectureship, Tianjin University
2023	Elected Fellow of the Royal Society of Chemistry
2024	Xingda Lectureship, Beijing University
2024	Eastman Chemical Company Distinguished Lectureship, UNC Chapel Hill
2024-25	Public Voices Fellowship, The OpEd Project

Graduate Thesis Projects Directed:

NAME	THESIS TITLE	ADVISOR/ COADVISOR	DEGREE, YEAR
Gordon Rice	Structure and reactivity of silica-supported vanadium and vanadium/titanium single-site catalysts	Advisor	PhD 1999
Jamila Nait Ajjou[1]	Structure and reactivity of silica-supported chromium(IV) complexes	Advisor	PhD 2000
Abdillahi Bouh	Preparation, characterization and reactivity of mono- and dinuclear silica-supported titanium(IV) complexes	Advisor	PhD 2001
Lisa Van Loon[1]	Kinetic study of the stabilization and reduction of the aqueous mercuric ion by sulfite: Implications for atmospheric deposition	Advisor	MSc 2001
Marcel Beaudoin	Structure and reactivity of silica-supported titanium and molybdenum(IV) amido complexes	Advisor	PhD 2002
Anqiu Fu	Effect of the silica support on the reactivity and polymerization activity of organochromium complexes	Advisor	MSc 2002
Tagenine Alladin	Grafting and thermolysis of tetraneopentylzirconium on silica	Advisor	MSc 2003
Valbona Celo[2]	Abiotic pathways of mercury methylation in the aquatic environment	Co-advisor	PhD 2003
Ziyad Taha	Silica-supported vanadium complexes: Structure, characterization and reactivity, especially towards olefins	Advisor	PhD 2004
Fuad Ababneh	Application of chemical kinetics to mercury cycling in the aquatic	Co-advisor	PhD 2005

	environment: Photoreduction of Hg(II) and binding of Hg(II) and $MeHg^+$ to natural ligands		
Heather Leifeste	Kinetic studies of metathesis reactions catalyzed by supported methyltrioxorhenium	Advisor	MSc 2005
Eric Deguns[3]	An XAS investigation of the structure of silica-supported titanium, vanadium and gallium catalysts	Advisor	PhD 2006
Anthony Moses[5]	Effects of support-substrate interactions for rhenium-based heterogeneous olefin metathesis catalysts	Advisor	PhD 2007
Cori Demmelmaier	Activation of heterogeneous catalysts for the production of polyethylene	Advisor	PhD 2008
Miyako Hisamoto	Interaction of Dimethylacetylacetonatogold(III) with Oxide Supports	Advisor	PhD 2009
Brian Peoples[4]	Clay-polyolefin nanocomposites by *in situ* polymerization	Advisor	PhD 2008
Robert Savinelli	Metal carbide catalysts for the water-gas shift reaction	Advisor	PhD 2010
Brian Vicente	A comparison of homogeneous and heterogeneous alkane metathesis catalysts	Advisor	PhD 2010
Samuel Fleischman	Spectroscopic Investigation of Grafting Sites in Oxide Supports of Heterogeneous Catalysts	Advisor	PhD 2011
Kim-Lien Dinh	Spectroscopic Investigation of the Reaction of Dimethylzinc on Silica Surfaces	Advisor	MSc 2011
Trenton Tovar	Interaction of $ZnCl_2$ with Supported Methyltrioxorhenium to Promote Olefin Metathesis	Co-advisor	MSc 2011
Bryanna Kunkel	Investigation of Thermal Stability and Flammability of Polyolefin Composites	Advisor	PhD 2011
Joseph Sirianni	Elucidation of the Molecular Structure of an Alkane Dehydrogenation Component of the Tandem Alkane Metathesis Cycle	Advisor	MSc 2012
Xiaoying Ouyang	Palladium-Substituted Perovskite Catalysts for Automotive Exhaust Emission Control	Advisor	PhD 2012
Ying-Jen Wanglee	Structure and Reactivity of Grafted Organochromium and Organoborane Complexes on Silica	Advisor	PhD 2012
Anthony Crisci	Acid-Functionalized Mesoporous Ordered Materials for the Production of 5-Hydroxymethyfurfural from Carbohydrates	Advisor	PhD 2013
Ryan Davis[6]	*Operando* Spectroscopic Investigation of Supported Pd and Low-surface Area Mixed Metal Oxide Catalysts for Automotive Emissions After-treatment	Advisor	PhD 2013
Taeho Hwang[7]	Kinetic Analysis of Organometallic Catalyst Precursors in Solution and on Surfaces	Advisor	PhD 2014
Bethany Wigington[8]	Redox Reactions of Silica-Supported Complexes and their Molecular Analogs	Advisor	PhD 2015
Daniel Coller[7]	Complex oxides as hosts for noble metal catalysts	Advisor	PhD 2016
Zachary Jones	Porous metal oxide catalysts for lignin hydrogenolysis	Advisor	PhD, 2018
Youhong Wang[9]	Surface organochromium models for the Phillips catalyst	Advisor	PhD 2017
Abigail Serrano[10]	Tethered catalysts for alcohol oxidation	Advisor	PhD 2019
Ali Chamas[11]	Catalysts for disassembly of lignin	Advisor	PhD, 2020
Tarnuma Tabassum[12]	Magnetic resonance investigations of supported catalysts	Co-advisor	PhD, 2021
Hyunjin Moon	Mobility and adsorption in mesoporous catalysts with tunable hydrophilicity	Advisor	PhD, 2021
Salman Khan	Modeling amorphous catalytic materials	Co-Advisor	PhD, 2021
Li Li	Supported olefin metathesis catalysts	Advisor	PhD, 2021
Melvin Thomas	Greening azacycle synthesis and ester amidation using flow chemistry powered by heterogeneous catalysis	Advisor	MS, 2022
Jiakai Sun	Catalytic depolymerization of polyethylene	Advisor	In progress
Garrett Strong	Polyolefin upcycling	Advisor	In progress
Jason Chalmers	Nanoparticle nucleation and growth	Advisor	In progress
Samantha Ausman	Polyolefin upcycling	Co-Advisor	In progress
Jonathan Bingaman	Polyolefin upcycling	Co-Advisor	In progress
Cheng-Hsun Chuang	Catalytic biomass conversion	Co-Advisor	In progress
Yu-Quan Zhao	Polyolefin upcycling	Advisor	In progress
Danielle Burns	Polyolefin upcycling	Advisor	In progress

Rika Ilagan	Polyolefin upcycling	Advisor	In progress

1. NSERC Postgraduate Fellowship. 2. Ontario Graduate Scholarship. 3. Stanford Synchrotron Radiation Laboratory Annual Users' Meeting Prize: Best Graduate Student Poster. 4. Annual University of California Surface Science and Its Application Symposium, Second prize (Poster competition). 5. Mitsubishi Chemical Distinguished Graduate Fellowship. 6. Phi Lambda Upsilon Award for academic achievement by first-year graduate student in Chemistry. 7. Air Products Fellowship. 8. Best Poster Award, 25th Organic Reactions Catalysis Society meeting, 2014. 9. Best Poster Prize, Asian Polyolefins 2013 meeting. 10. Fulbright Fellowship. 11. Department of Energy Science Graduate Student Research Award, 2018. [10]Chateaubriand Fellowship, Embassy of France in the United States, 2019.

Postdoctoral Scholars and Visiting Scientists Supervised:

NAME	YEAR	CURRENT EMPLOYMENT
Carmen Roveda	1999	
Fengfu Li	1999-2001	
Jinhua Zhang	1999	
Olusola Womiloju	2000	
Xinsheng Li	2000	Exxon-Mobil
Mukut Bajpai	2000	
Dao Hinh Nguyen	2001	Canada National Research Council
Ludmila Nossova	2001-2002	Health Canada
Elena Emelianova	2002	
Azfar Hassan	2001-2002	University of Calgary
Leonard MacAdams	2002	KiON Corp.
Ghazar Aharonian	2002	University of Ottawa
Nazafarin Lahoutifard	2001-2003	INERIS, Paris
Udayshankar Singh	2004-2007	Grace-Davison
Swarup Chattopadhyay	2004-2006	Ohio University
Naseem Ramsahye	2004-2005	Université Montpellier
Ziyad Taha	2004-2005	Jordan University of Science & Technology
Cathleen Yung	2004-2006	Exxon-Mobil
Rosemary White	2006-2008	Boston University
Ryan Nelson	2006-2010	Argonne National Laboratory
Mabel Caipa	2007-2008	
Ming-Yung Lee	2007-2010	Formosa Plastics
Jennifer McCahill	2008-2009	Dalhousie University
Phillip Mania	2009	Visiting graduate student from ETH Zurich, Swiss Federal Scholarship
Jing Huang	2009-2010	Visiting graduate student from Nanjing University
Tonosaki Kiwamu	2009	Visiting graduate student from Japan Advanced Institute of Science and Technology
Philippe Perrotin	2009-2011	Boulder Scientific
Haian Xia	2009-2010	Now Faculty in Chemical Engineering, Nanjing Forestry University
Lei Zhong	2010-2011	Visiting graduate student from East China University of Science and Technology
Khaled Belkacemi	2010-2011	Faculty, Dept of Soil Science and Agri-Food Engineering, Université Laval, Canada
Safia Hamoudi	2010-2011	Faculty, Dept of Soil Science and Agri-Food Engineering, Université Laval, Canada
Junjiang Zhu	2011	Visiting researcher, Technical University of Berlin
Sebastian Grundner	2011	Co-supervised Master's thesis (with Johannes Lercher), Technical University of Munich
Julia Rieb	2011-2012	Visiting Fulbright Scholar, Technical University of Munich
Kwanyin (Gary) Ng	2012-2013	Freeslate
Alessandro Gallo	2012 -	SUNCAT
Jinghong Zhou	2012-2013	Visiting faculty from East China University of Science and Technology, China Scholarship Council State Scholarship
Xijin Song	2012	Visiting faculty from Zhejiang University, China Scholarship Council State Scholarship
Stephanie Goubert-Renaudin	2012-	Lam Research Corporation

Haibo Yu	2012-2013	Visiting researcher from SINOPEC, Department of Ethylene Technology, Beijing
Zhenhuan Zhou	2013-2014	Visiting researcher from SINOPEC, Research Institute of Petroleum Processing
Daniel Ruiz	2013	Visiting graduate student from Universidad de Guanajuato
Xin Liang	2013-2014	Visiting researcher from Beijing University of Chemical Technology, Beijing
Yanning Zeng	2014	Visiting graduate student from Japan Advanced Institute for Science and Technology
Zi'ang Nan	2014	Visiting iCHEM exchange student from Xiamen University
Xuejiao Wu	2014	Visiting iCHEM exchange student from Xiamen University
Xinhe Bao	2014	Visiting professor from Dalian Institute of Chemical Physics
Dr. Domenick Leto	2014-present	
Wei Xue	2014-2015	Visiting Professor from Hebei University of Technology
Qunxing Luo	2014-2015	Visiting graduate student from Dalian University of Technology
Anna Katharina Beine	2014	Visiting graduate student from RWTH University, Aachen
Christian Haidn	2014-2015	Visiting graduate student from Technical University of Munich
Yue Yu	2014-2015	Visiting graduate stucsgbdent from University of Naples
Dr. Long Qi	2014-present	Ames Laboratory
Anna Kann	2015	Visiting graduate student from RWTH University, Aachen
Ximeng Chen	2015	Visiting graduate student from RWTH University, Aachen
Marvin Bachmann	2016	Visiting graduate student from RWTH University, Aachen
Fan Zhang	2015-2016	CSC/iCHEM Postdoctoral Scholar
Akash Aryal	2015-2016	Visiting graduate student from RWTH University, Aachen
Jia Ru	2016	Visiting Professor from Bureau of Major R&D Programs, Chinese Academy of Sciences
Hiyoshi Hayashibara	2016	Visiting graduate student from Tokyo Metropolitan University
Jan Wiesenthal	2016	Visiting graduate student from RWTH University, Aachen
Dr. Praveen Kumar	2016-2018	Postdoctoral Scholar with SERB Indo-US Postdoctoral Fellowship
Julia Wohland	2017	Visiting graduate student from RWTH University, Aachen
Dong Won Hwang	2017-2018	Visiting faculty from Korea Research Institute of Chemical Technology, Daejeon, South Korea
Fangwen Cheng	2017	Visiting CSC exchange student from Xiamen University, China
Ryuki Baba	2017	Visiting graduate student from Japan Advanced Institute for Science & Technology (JAIST)
Xiantai Zhou	2017	Visiting faculty from Sun Yat-Sen University, Guangzhou, China
Sophia Brauksiepe	2017	Visiting graduate student from RWTH University, Aachen
Timon Lazaridis	2018	Visiting graduate student from RWTH University, Aachen, Germany
Nina Sackers	2018	Visiting graduate student from RWTH University, Aachen, Germany
Sonja Mürtz	2018	Visiting graduate student from RWTH University, Aachen, Germany
Xinde Wang	2018	Visiting graduate student from RWTH University, Aachen, Germany
Guido Schroer	2018	Visiting graduate student from RWTH University, Aachen, Germany
Nico Thanheuser	2019	Visiting graduate student from RWTH University, Aachen
Tao Zheng	2019	Visiting faculty from Nanjing Univ. of Science and Technology
Yang Wang	2019-2020	Visiting graduate student from Dalian Univ. of Technology
Xiaoling Dong	2019-2020	Visiting postdoctoral scholar from Dalian Univ. of Technology
Wanling Shen	2019-2020	Visiting faculty from Henan Univ. of Technology
Xin Li	2019-2020	Visiting faculty from Henan Univ. of Technology
Xiangcheng Sun	2019-2020	Postdoctoral Scholar
Lijun Gao	2020-	Postdoctoral Scholar
Allison Wesley	2022-	Postdoctoral Scholar
Peter Drabo	2021	Visiting graduate student from RWTH University, Aachen
Costanza Leonardi	2022	Visiting graduate student from University of Ferrara, Italy
Janine Baums	2023	Visiting graduate student from RWTH University, Aachen
Elisabeth Richter	2023	Visiting graduate student from RWTH University, Aachen
Nicholas Maciulis	2021-	Postdoctoral Scholar
Erfan Behravesh	2022-	Postdoctoral Scholar
Costanza Leonardi	2023-	Postdoctoral Scholar
Jinhu Dong	2022-	Postdoctoral Scholar

Dong Hwan Oh	2023	Visiting graduate student from Korea Advanced Institute for Science and Technology (KAIST, Seoul, Koreal
Tongxin Han	2023-	Postdoctoral Scholar
Valerie Toussaint	2023	Visiting PhD student, University of Vienna
Prof. Changbum Jo	2024-25	Visiting faculty from KAIST

Undergraduate Projects Directed:

STUDENT	PROJECT	DEGREE AWARDED	POST-GRADUATION EMPLOYMENT
Helen Parry	Siloxane models	1995	Proctor & Gamble
Hazel Hunter	$Fe_3(CO)_{12}$/alumina	1996	Grad school, St. Andrews Univ.
Craig Crippen	Reactivity of rhodium-phosphine complexes on silica and alumina (BSc Honors Thesis)	1995	Pharmacy, Univ. of Ottawa
Lydie L. Yu Hing	Caractérisation du chromocène sur silice (BSc Honors Thesis)	1995	Grad school, UBC
Catherine Johnston	Surface chemistry of $Rh(allyl)_3$	1995	City of Ottawa Water Treatment Facility
Elizabeth Hearn	Grafting of VR_4 on silica	1995	Grad school, Univ. of Alberta
Katia Doumit	Chromocene/silica Interactions	1996	Medical school, U. de Montréal
Allison Mills[a,b]	Elementary reactions of oxide-supported rhodium fragments (BSc Honors Thesis)	1996	Grad school, Univ. of Alberta
Laurent Savary	Supported OsO_4 (DEA Thesis)	1996	Exchange student ESCIL (Lyon, France)
Anne-Marie Hearn	Evaluation of in vacuo IR reflection-absorption spectroscopy in probing adsorption at gas-metal interfaces (BSc Honors Thesis)	1997	Grad school, Univ. of Alberta
Emily Hollink	Grafting of $Al(TMS)_3$	1997	Grad school, Univ. of Windsor
Mikolaj Spakowicz	$MeRh(PMe_3)_3$/silica	1998	Medical school, Univ. of Ottawa
Cory Peel	Interconversion of multiply-bonded ligands in surface organometallic complexes (BSc Hons Thesis)	1998	Medical school, University of Calgary
Chhor Chao	Study of silica-supported rhodium fragments by solid state ^{31}P NMR (BSc Honors Thesis)	1998	
Ghislaine Bailey	Ship-in-a-bottle Ni catalysts in zeolites	1998	Grad school, MIT
Noor Ladhani	Supported epoxidation catalysts	1998	Exchange student, U. Toronto
Kirsty Maunder	Réduction hétérogène de l'oxyde de mercure par des agent réducteurs pertinents à l'atmosphère (BSc Honors Thesis)	1999	Exchange student, Univ. of Reading (UK)
Valérie Paquet	Caractérisation des espèces formés par le greffage du Cr^tBu_4 sur la silice (BSc Honors Thesis)	1999	Grad school, Université de Montréal
Lisa Van Loon[c]	Kinetic and mechanistic study of the reduction of mercuric ion in the atmosphere (BSc Honors Thesis)	1999	Grad school, The Ohio State University
Nicola Gambarotta	Synthesis and reactivity of Cr^tBu_4	2000	Medical school
Charles Barabé	Synthesis of $[(C_{22}H_{22}N_4)Ti(SiO_2)]$ macrocyclic complex on silica and zeolite surfaces (BSc Honors Thesis)	2000	I-Stat
Tamara Church[b]	Reactions of $AlMe_3$ and $Ti(OSiMe_3)_4$ with silica (BSc Honors Thesis)	2001	Grad school, Cornell Univ.
Joseph Moran	Grafting of Cp^*TiMe_3	2002	Grad school, Univ. of Ottawa
Elizabeth Mader[b,d]	Partial hydrolysis of $AlMe_3$-_modified silica (BSc Hons Thesis)	2002	Grad school, Univ. of Washington - Seattle
Ram Anath[d]	Artifact methylmercury	2003	
Huda Yusuf	Evidence for mercury-sulfur complexes (BSc Hons Thesis)	2003	Grad school, Univ. of Victoria
Jordan Fromholz	Adsorption of $VOCl_3$ in ZSM-5	2006	Chevron
Justin Butler	WC water-gas shift catalysts	2007	Grad school, MIT
Sara Thoi	Tandem alkane metathesis	2007	
Laurel Wixson	Supported metathesis catalysts	2008	Proctor & Gamble

Kuang Po Lin	Supported Ziegler catalysts	2008	Grad school, Stanford Univ.
Alina Warner	Selective transformations of carbohydrates		
Jodi Hong	Phillips polymerization catalysts	2009	
Ricardo Alamillo[e,f]	Heterogeneous alkane metathesis	2009	aPeel Technologies
Marissa Jaffe	Structure of silica-supported $SnCl_4$		
Michele Sarazen[e]	Alkane metathesis	2010	Grad school, UC Berkeley
Jason Fendi	In situ IR spectroscopy of supported Pd catalysts for CO oxidation	2014	SORAA
Dorothy Owens[e]	Nanoporous catalyst synthesis	2014	
Joshua Simmons	Heterogeneous non-isothermal kinetics	2015	
Christian Perez[e]	Aldehyde-shift catalysts	2015	
Gbogo Adebayo-Ige	Catalytic lignin disassembly	2015	
Ryan MacDonald	Nanoparticle assembly kinetics	2016	
Rishana Ubah[f]	Vanadium-catalyzed oxidation of alcohols	2016	
Quentin Kim	Supported vanadium ROMP catalysts	2016-19	Graduate school, UDelaware
Anthony Pirounakis	Vanadium-catalyzed oxidation of alcohols	2017	
Samira Zaman	EPR study of supported vanadium sites	2018	
Mohammad Farzam	Polyethylene monomerization	2022-	
Jacob Zeledon	Ga-catalyzed propane dehydrogenation	2023-	

[a]Prize: Best undergraduate thesis, Department of Chemistry, University of Ottawa. [b]Recipient of NSERC Postgraduate Scholarship. [c]Prize: Undergraduate research, Ontario Ministry of the Environment. [d]Recipient of Faculty of Science Undergraduate Research Scholarship. [e]CENTC Undergraduate Summer Research Fellowship. [f]Tirrell Award for Undergraduate research. [f] Academic Research Consortium (ARC) Scholar, visiting from Bloomfield College.

PROFESSIONAL ACTIVITIES

Invited lectures:

No.	DATE	UNIVERSITY/COMPANY/CONFERENCE
1	05/24/96	Colloque sur les nouveaux matériaux en catalyse, Congrès de l'Association canadienne-française pour l'avancement des sciences, Montréal QC
2	01/28/97	University of Guelph/University of Waterloo, Departments of Chemistry
3	03/02/97	**Gordon Research Conference** on Inorganic Reaction Mechanisms, Ventura CA
4	04/25/97	University of Delaware, Department of Chemistry, Newark DE
5	04/28/97	University of Maryland, Department of Chemistry, College Park MD
6	05/05/97	7th Ottawa-Carleton Chemistry Institute Spring Symposium, Ottawa ON
7	06/13/97	Université de Rennes, Laboratoire de spectroscopie de surface, Rennes, France
8	06/17/97	CNRS, Laboratoire de chimie de coordination, Toulouse, France
9	06/24/97	CPE-Lyon, Laboratorie de chimie organométallique de surface, Lyon, France
10	10/07/97	Purdue University, Department of Chemistry, West Lafayette IN
11	11/19/97	University of California - Los Angeles, Department of Chemistry
12	11/20/97	University of California - Irvine, Department of Chemistry, Irvine CA
13	12/08/97	NOVA Research and Technology Centre, Calgary AB
14	12/18/97	University of Alberta, Department of Chemistry, Edmonton AB
15	03/24/98	Université de Montréal, Département de chimie, Montréal QC
16	05/14/98	Catalyst Skills Center, Union Carbide Corporation, Charleston WV
17	5/31/98	Symposium on Catalysis: Surfaces and in Solution, Canadian Society for Chemistry National meeting, Whistler BC
18	07/26/98	**Gordon Research Conference** on Organometallic Chemistry, Newport RI
19	09/15/98	Sigma Xi Society, Ottawa Section, Ottawa ON
20	10/23/98	University of Manitoba, Department of Chemistry, Winnipeg MB
21	10/26/98	University of Winnipeg, Department of Chemistry, Winnipeg, MB
22	05/13/99	Catalyst Skills Center, Union Carbide Corporation, Charleston WV
23	05/30/99	Symposium on Surface Chemistry Perspectives on the Design of Materials Properties, Canadian Society for Chemistry National Meeting, Toronto ON
24	06/16/99	Union Carbide Corporation, Bound Brook NJ
25	06/20/99	**Gordon Research Conference** on Catalysis, Colby-Sawyer College, NH

26 07/09/99 Research Corporation Cottrell Scholars Conference, Tucson AZ
27 10/20/99 Iowa State University, Department of Chemistry, Ames IA
28 10/22/99 University of California - Berkeley, Department of Chemistry, Berkeley CA
29 11/06/99 DOW Chemical Technical Advisory Board meeting, Detroit MI
30 11/16/99 Yale University, Department of Chemistry, Hartford CT
31 06/01/99 Université Laval, Département de chimie, Québec QC
32 09/23/99 University of Waterloo, Department of Chemical Engineering, Waterloo ON
33 01/10/00 Dow Chemical Company Corporate R&D, Midland MI
34 02/05/00 University of Toronto, Department of Chemistry, Toronto ON
35 02/08/00 University of Washington, Department of Chemistry, Seattle, WA
36 05/23/00 **Keynote Lecture:** 16th Canadian Society for Catalysis Meeting, Banff AB
37 07/01/00 1st European Conference on Reactor Engineering for Polymerization, Lyon, France
38 11/27/00 Symposium on Advanced Catalytic Materials, Materials Research Society annual meeting, Boston MA
39 12/15/00 Symposium on Materials Chemistry on Oxide and Carbide Surfaces, Pacifichem 2000, Honolulu HI
40 01/25/01 University of California – Santa Barbara, Department of Chemical Engineering
41 02/02/01 University of California – Berkeley, Department of Chemistry, Berkeley CA
42 02/03/01 Miller Institute for Basic Research, University of California - Berkeley, CA
43 04/01/01 Symposium on Molecular Engineering for Phase Separable Catalysis, American Chemical Society National Meeting, San Diego CA
44 04/04/01 **Distinguished Lecture Series,** Catalysis Centre, University of California – Berkeley, CA
45 04/09/01 **Distinguished Lecturer Series**, University of Toronto, Department of Chemical Engineering, Toronto ON
46 04/16/01 Florida Catalysis Conference, Palm Coast FL
47 05/11/01 Baytown Polymer Center, Exxon-Mobil Chemical Company, Baytown TX
48 06/04/01 California Institute of Technology, Department of Chemistry, Pasadena CA
49 06/05/01 Stanford University, Department of Chemistry, Palo Alto CA
50 07/05/01 14th International Symposium on Olefin Metathesis, Boston MA
51 08/26/01 Symposium on The Chemistry of the Metal-Nitrogen Bond, 222nd American Chemical Society National Meeting, Chicago IL
52 09/26/01 University of Western Ontario, Department of Chemistry, London ON
53 10/11/01 York University, Department of Chemistry, Toronto ON
54 03/18/02 University of British Columbia, Department of Chemistry, Vancouver BC
55 03/19/02 University of Victoria, Department of Chemistry, Victoria BC
56 03/20/02 Simon Fraser University, Department of Chemistry, Vancouver BC
57 04/15/02 Frontiers in Catalysis Seminar Series, University of Wisconsin, Department of Chemistry, Madison WI
58 04/25/02 Georgia Tech, Department of Chemistry, Atlanta GA
59 05/02/02 Baytown Polymer Center, Exxon-Mobil Chemical Company, Baytown TX
60 06/01/02 Symposium on Frontiers of Transition-Metal Organometallic Chemistry, Canadian Society for Chemistry National Meeting, Vancouver BC
61 07/28/02 **Gordon Research Conference** on Inorganic Chemistry, Newport RI
62 11/08/02 Florida State University, Department of Chemistry, Tallahassee FL
63 01/29/03 Materials Research Outreach Symposium, UCSB
64 03/12/03 Nova Chemicals Research and Technology Centre, Calgary AB
65 05/02/03 Baytown Polymer Center, Exxon-Mobil Chemical Company, Baytown TX
66 05/09/03 University of California–Santa Barbara, Department of Chemistry, Santa Barbara
67 06/19/03 NSF workshop on Nanotechnology and Catalysis, Washington DC
68 07/20/03 11th International Symposium on Relations between Homogeneous and Heterogeneous Catalysis, Northwestern University, Evanston IL
69 09/05/03 GE Global Research Center, Niskayuna NY
70 10/09/03 Tutorial: "Nanostructured Catalysts," 11th Annual Foresight Conference on Molecular Nanotechnology, San Francisco CA
71 10/11/03 11th Annual Foresight Conference on Molecular Nanotechnology, San Francisco CA
72 01/29/04 Materials Research Outreach Symposium, UCSB
73 02/09/04 Pennsylvania State University, Department of Chemistry, State College PA
74 04/13/04 NSF Workshop on Catalysis for Biorenewables, Washington DC
75 04/19/04 Workshop on Atmospheric Redox Chemistry of Mercury, Electric Power Research Institute, Palo Alto CA
76 05/25/04 Department of Energy Basic Energy Sciences Catalysis Contractors' Meeting, Rockville MD
77 05/26/04 Grace-Davison, Columbia MD
78 07/05/04 14th International Symposium on Homogeneous Catalysis, Munich, Germany

79 07/11/04 Gordon Conference on Organometallic Chemistry, Newport RI
80 07/20/04 Materials Research Laboratory Summer Seminar Series, UCSB, Santa Barbara CA
81 07/25/04 XXIst International Conference on Organometallic Chemistry, Vancouver BC
82 11/08/04 AIChE Annual Meeting, Wilhelm Award Symposium honoring Enrique Iglesia
83 02/01/05 Materials Research Outreach Program Annual Symposium, UCSB
84 03/12/05 ACS National Meeting, Olah Award Symposium honoring Enrique Iglesia
85 05/20/05 Department of Energy Basic Energy Sciences Catalysis Contractors' Meeting, Rockville MD
86 05/27/05 University of California - Santa Barbara, Materials Department Colloquium
87 07/12/05 Mitsubishi Chemical Research Center, Yokohama, Japan
88 09/15/05 Lawrence Berkeley National Laboratory
89 10/24/05 University of Colorado-Boulder, Department of Chemical Engineering
90 12/08/05 PIRE-ECCI Inaugural Workshop, UCSB
91 02/10/05 University of California Surface Science Symposium, Berkeley, CA
92 03/08/06 University of California - Berkeley, Department of Chemical Engineering
93 04/16/06 NSLS Annual Users' Meeting Workshop (Brookhaven National Laboratory) Synchrotron Catalysis Consortium: New Opportunities for in-situ XAFS Studies of Nanocatalysis
94 06/29/06 Gordon Conference, Catalysis, Colby-Sawyer College, NH
95 06/20/06 Plastics R&D Center, The Dow Chemical Company, Freeport TX
96 08/24/06 PIRE-ECCI Summer School "Techniques of Catalysis and Surface Science", UCSB
97 09/13/06 1st Int'l Symposium on Sunflower Industrial Applications, University of Udine, Italy
98 10/05/06 Nanostructures Interfaces and Surfaces Center of Excellence Colloquium: Olefin polymerization by heterogeneous and homogeneous catalysts: Structure-activity-selectivity relationships, University of Torino, Italy
99 11/06/06 Chicago Catalysis Club
100 11/07/06 Northwestern University Catalysis Center
101 12/15/06 Workshop on Catalysis and Surface Science, Santa Barbara
102 01/26/07 Materials Research Outreach Program Annual symposium, UCSB
103 02/07/07 University of California - Los Angeles, Department of Chemistry
104 03/21/07 Gordon Conference, Inorganic Reaction Mechanisms, Ventura CA
105 04/26/07 Int'l Center for Materials Research Workshop on Materials, Gramado, Brazil
106 05/23/07 Department of Energy Basic Energy Sciences Catalysis Contractors' Meeting, Wintergreen VA (lecture delivered by B. Chmelka due to illness)
107 06/25/07 Borealis Polymers Oy, Porvoo, Finland
108 08/29/07 Mitsubishi Chemical Corporation, Yokkaichi, Japan
109 09/26/07 Texas A&M, Department of Chemistry, College Station, TX
110 12/07/07 UCSB-PNNL Catalysis Workshop, Santa Barbara CA
111 01/15/08 Purdue University, Department of Chemical Engineering
112 02/20/08 UCSB-MPG Workshop on Inorganic Materials for Energy Conversion, Storage and Conservation, UCLA Lake Arrowhead Conference Center
113 02/26/08 Inaugural Keynote Lecture, EnergyForum UCSB
114 07/21/08 Gordon Conference, Inorganic Chemistry
115 07/24/08 CENTC Summer School on Organometallic Catalysis
116 08/15/08 PIRE-ECCI Workshop: "Grand Challenges for Catalysis"
117 11/07/08 2008 Annual Meeting of the Pacific Coast Catalysis Society, Richmond, California
118 12/13/08 Mitsubishi Chemical Company, Yokkaichi, Japan
119 01/27/09 Argonne National Laboratory, Chicago, Illinois
120 03/23/09 Symposium on the Chemistry of Catalyst Synthesis, ACS National Meeting, Salt Lake City
121 08/13/09 Los Alamos National Laboratory, Chemistry Division Colloquium, Los Alamos, New Mexico
122 10/13/09 **Keynote Lecture**, Symposium on Materials and Nanotechnology, Fifth Sino-US Joint Chemical Engineering Conference, Beijing, China
123 11/10/09 Session on Rational Catalyst Design, AIChE National Meeting, Nashville TN
124 Polyolefins Research, The Dow Chemical Company
125 02/05/10 Materials Research Outreach Symposium, UCSB, Santa Barbara, California
126 03/26/10 Symposium on Supported Molecular Catalysts, ACS National Meeting, San Francisco
127 04/28/10 University of Wisconsin, Department of Chemistry, Madison, Wisconsin
128 04/30/10 Iowa State University, Department of Chemistry, Ames, Iowa
129 05/24/10 Plastics R&D, The Dow Chemical Company
130 07/11/10 Gordon Research Conference, Organometallic Chemistry, Newport, Rhode Island

131 10/22/10 Department of Chemical Engineering, MIT, Boston MA
132 11/22/10 Symposium on New Directions in Catalyst Design Jacques Cartier Colloquium on Catalysis Science at the Dawn of the 21st Century, Lyon, France
133 12/15/10 Symposium on Polyolefins Chemistry and Beyond – From Bench to Commercial Scale, Pacifichem 2010, Honolulu, Hawaii
134 01/20/11 Department of Chemical Engineering, Washington State University
135 01/26/11 Michigan Catalysis Club, Livonia, MI
136 01/27/11 The Dow Chemical Company, Core R&D, Midland, MI
137 02/06/11 Gordon Research Conference, Chemical Reactions at Surfaces, Ventura, California
138 02/10/11 Department of Energy Basic Energy Sciences Operational Review, Stanford Synchrotron Radiation Laboratory
139 02/15/11 NSF PIRE Symposium on Internationalizing Research Partnerships: Globalizing US Science and Education, Arlington, VA
140 03/27/10 Symposium on Renewable Platform Chemicals and New Chemical Building Blocks, 241st ACS National Meeting, Anaheim, CA
141 04/14/11 Catalysis Club of Philadelphia, Philadelphia PA
142 04/15/11 Department of Chemical Engineering, University of Delaware
143 05/23/11 University of California, Davis, Energy Institute
144 06/22/11 Energy and Materials from the Sun International Summer School, Rolduc, Netherlands
145 08/07/10 Gordon Research Conference, Nanoporous Materials, Holderness, NH
146 08/27/11 NSF Chemistry Catalysis Program, Workshop on Future Directions, Denver, CO
147 09/12/11 IME Boron XIV, Niagara Falls, Canada
148 10/25/11 Symposium on Synchrotron Applications in Catalysis, SSRL Annual Users' Meeting, Palo Alto, CA
149 11/01/11 Symposium on Oxide Surface Structure and Reactivity, AVS 58th Annual International Symposium, Nashville, TN
150 11/07/11 6th Sino-US Joint Conference on Chemical Engineering, Symposium on Petrochemicals and Fine Chemicals, Beijing, China
151 11/11/11 Department of Chemistry, University of North Texas, Denton TX
152 11/28/11 Physical Chemistry Symposium, University of California, Los Angeles
153 12/15/11 Institute for Atomic and Molecular Sciences, Academica Sinica, Taipei, Taiwan
154 01/20/12 Department of Chemical and Biomolecular Engineering, University of California, Los Angeles
155 02/20/12 Department of Chemical Engineering, University of Florida, Gainesville FL
156 03/25/12 Award Symposium for the Gabor A. Somorjai Award for Creative Research in Catalysis and the George A. Olah Award in Hydrocarbon or Petroleum Chemistry, 243rd ACS National Meeting, San Diego, CA
157 03/28/12 **Keynote lecture:** 8th International Colloquium on Heterogeneous Ziegler-Natta Catalysts, Kanazawa, Japan
158 05/16/12 Symposium on *Science, Innovation, and Partnerships for Sustainability Solutions*, The National Academies, Washington, DC
159 07/10/12 Göttingen ETEM Workshop on Heterogeneous Catalysis, Surface Science and Energy Research, Georg-August University of Göttingen, Germany
160 07/18/12 University of Science and Technology of China, Hefei, China
161 08/09/12 Wuhan University, Wuhan, China
162 08/20/12 Symposium for the ACS Catalysis Lectureship for the Advancement of Catalytic Science Award Symposium, 244th ACS National Meeting, Philadelphia PA
163 08/21/12 **ACS Presidential Symposium** on Ensuring the Sustainability of Critical Materials and Alternatives: Addressing the Fundamental Challenges in Separation Science and Engineering, 244th ACS National Meeting, Philadelphia PA.
164 08/23/12 Air Products, Allentown PA
165 09/04/12 Department of Chemical Engineering, East China University of Science and Technology, Shanghai, China
166 09/05/12 Department of Chemical Engineering, Nanjing Forestry University, Nanjing, China
167 09/07/12 Dalian University of Technology, Dalian, China
168 09/16/12 PIRE-ECCI annual meeting, Suzhou, China
169 10/09/12 Gulf Coast and Latin American Scientists Organization Seminar, The Dow Chemical Company, Freeport, TX
170 10/28/12 Symposium in honor of Nick Delgass, AIChE annual meeting, Pittsburgh, PA
171 11/12/12 Eastman Chemical, Kingsport, TN
172 11/15/12 NSF PIRE Symposium, Arlington, VA
173 01/25/13 Department of Chemical Engineering, University of California, Riverside
174 03/03/13 **Gordon Research Conference** on Inorganic Reaction Mechanisms, Galveston TX

175 03/07/13 The Dow Chemical Company, Freeport TX
176 04/07/13 Symposium on Catalysts for Renewable Fuels and Chemicals, 2013 Spring ACS Meeting, New Orleans LA *Recorded by ACS Presentations on Demand*.
177 04/07/13 Symposium in Honor of Peter Ford's ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry, 2013 Spring ACS Meeting, New Orleans LA
178 04/07/12 Symposium on Catalysis by Materials with Well-defined Structures, 2013 Spring ACS Meeting, New Orleans LA
179 06/21/13 Department of Chemistry, McGill University, Montreal QC, Canada
180 07/01/13 DOE-BES Catalysis Science Contractors' Meeting, Annapolis MD
181 07/23/13 Center for Enabling Technology through Catalysis, 2013 Summer School on Enabling Sustainability and Innovation Through Catalysis", Seattle WA
182 09/06/13 Department of Chemical Engineering, Tulane University, New Orleans LA
183 09/22/13 Shanghai Dow Chemical, Shanghai, China
184 10/01/13 Stanford Synchrotron Radiation Laboratory Annual Users' Meeting, Workshop on X-ray Spectroscopy for Chemical Catalysis, Palo Alto CA
185 10/16/13 **Keynote lecture**, Asian Polyolefin Symposium, Beijing, China
186 11/04/13 Symposium in Honor of the 2012 Wilhelm Winner, Nicholas Delgass, 2013 AIChE Annual Meeting, San Francisco CA
187 11/12/13 Department of Chemical Engineering, University of Michigan, Ann Arbor MI
188 11/12/13 Michigan Catalysis Society, Detroit, MI
189 11/21/13 Department of Chemical Engineering, The Ohio State University, Columbia OH
190 11/26/13 Department of Chemical and Petroleum Engineering, University of Kansas, Lawrence KS
191 12/12/13 **Mike and Jean Steffenson Lecture**, Department of Chemical and Biological Engineering, Iowa State University, Ames IA
192 02/21/14 Department of Chemistry, Colorado School of Mines, Golden CO
193 04/08/14 Wayne State University, Sustainability@Wayne Seminar Series, Detroit MI
194 05/12/14 **Keynote Lecture:** Canadian Society for Catalysis Annual meeting, Edmonton AB
195 05/13/14 **Keynote Lecture:** Chicago Catalysis Club Spring Symposium, Chicago, IL
196 06/07/14 **Keynote Lecture**: Gordon Research Seminar on Inorganic Chemistry, University of New England, Biddeford, ME
197 06/08/14 **Gordon Research Conference** on Inorganic Chemistry, University of New England, Biddeford, ME
198 08/12/14 248th ACS National Meeting, symposium on Separation Science and Technology as a Convergence Platform for Sustainable Chemistry, Engineering and Materials (SusChEM), San Francisco CA
199 08/13/14 248th ACS National Meeting, symposium on Heterogeneous Catalysis for Environmental and Energy Applications, San Francisco CA
200 09/19/14 Pacific Coast Catalysis Society, SLAC National Accelerator Laboratory, Menlo Park CA
201 09/04/14 Corporate Strategic Research Labs, ExxonMobil, Clinton NJ
202 10/22/14 International Workshop on Catalytic Olefin Polymerization & High Performance Polyolefins, Shanghai, China
203 08/01/15 Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory, Richland, WA
204 12/01/15 Chicago Catalysis Club, Chicago IL
205 01/21/15 Department of Chemistry, University of Texas, Austin TX
206 02/08/15 **Gordon Research Conference** on Chemical Dynamics at Surfaces, Ventura CA
207 02/26/15 Department of Chemical Engineering, Penn State University
208 06/15/15 **Keynote Lecture**, North American Catalysis Society meeting, Pittsburgh PA
209 09/17/15 **Plenary Lecture**, EMSL Integration Meeting: Energy Materials and Processes for Advanced Batteries and Catalysis, Pacific Northwest National Laboratory, Richland WA
210 09/24/15 Department of Chemical Engineering, University of Oklahoma
211 11/27/15 **Keynote Speaker**, World Polyolefin Congress, Tokyo Japan
212 12/08/15 Department of Chemical Engineering, Carnegie-Mellon University, Pittsburgh PA
213 02/17/16 Catalysis Center for Energy Innovation, University of Delaware, Newark DE
214 02/18/16 Philadelphia Catalysis Club, Philadelphia PA
215 02/29/16 Department of Chemistry, Brigham Young University, Provo UT
216 03/01/16 Department of Chemistry, University of Utah, Salt Lake City UT
217 03/16/16 Symposium on Elucidation of Mechanisms and Kinetics on Surfaces, 251st ACS National Meeting, San Diego CA
218 06/13/16 **Gordon Research Conference** on Catalysis, New London NH
219 06/24/16 Innovations and Perspectives in NMR and Molecular Transformations, ACalNet Workshop 2016, Aachen,

Germany

220 06/29/16 **Keynote Lecture**, 4th Blue Sky Conference on Catalytic Olefin Polymerization, Sorrento, Italy
221 07/04/16 **Invited Lecture**, 16th International Congress on Catalysis, Beijing China
222 07/10/16 **Keynote Lecture**, 16th ICC Post-symposium on Nano and Interfacial Catalysis, Dalian, China
223 07/12/16 **Keynote Lecture**, 4th Symposium on Frontiers of Catalysis and New Materials, Shaanxi Normal University, Xi'an, China
224 09/07/16 Unité de Catalyse et Chimie du Solide, Université de Lille 1 – Sciences et Technologies, Lille, France
225 09/15/16 Laboratory of Chemistry, Catalysis, Polymers and Processes, CPE-Lyon, Lyon France
226 10/13/16 **Keynote Lecture**, MANGAN Conference, Berlin, Germany
227 11/06/16 **Invited Lecture**, 63rd Annual American Vacuum Society International Symposium, Nashville TN
228 12/02/16 Department of Chemical Engineering, Texas Tech University, Lubbock, TX
229 01/09/17 Department of Energy, Basic Energy Sciences, Catalysis Scoping Meeting: Assessing Future Opportunities in Catalysis Science to Transform the Energy Landscape, Leesburg VA
230 01/14/17 **Plenary Lecture**, Main Group Chemistry Symposium, UCLA, Los Angeles CA
231 01/17/17 Invited Lecture, NSF Modular Manufacturing Workshop, Arlington VA
232 01/29/17 Harvard/MIT Inorganic Chemistry Seminar Series, Departments of Chemistry, MIT and Harvard University, Boston MA
233 02/07/17 Invited Lecture, 2nd KAUST Research Conference on Polymers–Designing Macromolecules for Applications
234 03/15/17 Department of Chemical Engineering, Georgia Tech, Atlanta GA
235 04/02 /17 Symposium on "Synthesis of Catalysts by Non-traditional Methods", 253rd American Chemical Society National Meeting, San Francisco CA
236 04/02 /17 **Keynote Lecture**, Symposium on "Catalysis for Unconventional Energy Sources", 253rd American Chemical Society National Meeting, San Francisco CA
237 04/04/17 Symposium on "Support and Activator Effects on Metal-Mediated Polymerization", 253rd American Chemical Society National Meeting, San Francisco CA
238 04/05/17 Symposium on "Designed Catalysis: Materials Genome Approach to Heterogeneous Processes", 253rd American Chemical Society National Meeting, San Francisco CA
239 04/19/17 Symposium on Novel Catalytic Materials for Energy and Environment, Materials Research Society Spring National Meeting, Phoenix, AZ
240 04/28/17 Department of Chemical Engineering, Virginia Tech, Blacksburg VA
241 07/27/17 **Plenary Lecture**, DOE BES Catalysis Science PI meeting, Gaithersburg MD
242 08/04/17 Center for Catalysis and Surface Science, Northwestern University, Evanston IL
243 08/08/17 Division of Chemical Sciences, Argonne National Laboratory, Argonne IL
244 08/10/17 UOP, Des Plaines IL
245 08/14/17 Irvine Materials Research Institute, University of California, Irvine CA
246 08/20/17 Symposium on "Mixed Metal Oxides", 254th ACS National Meeting, Washington, DC
247 08/20/17 Symposium on "Spectroscopic and Computational Insights into Solid/Liquid Interfaces for Energy Conversion", 254th ACS National Meeting, Washington, DC
248 08/21/17 Henry H. Storch Symposium in honor of Umit Ozkan, 254th ACS National Meeting, Washington DC
249 08/21/17 Symposium on "Cooperative catalysis at surfaces and interfaces: impact on chemistry and energy frontiers", 254th ACS National Meeting, Washington DC
250 09/01/17 Dalian University of Technology, Dalian China
251 09/04/17 Dalian University of Technology, Workshop on Heterogeneous Catalysis for Energy, Dalian China
252 09/16/17 Ford Chemistry Symposium, University of California, Santa Barbara CA
253 09/18/17 Pacific Coast Catalysis Society, University of California, Davis CA
254 09/07/17 **Ipatieff Lecture**, Sesquicentennial Ipatieff Symposium, Center for Catalysis and Surface Science Annual Symposium, Northwestern University
255 09/24/17 Advances in Polyolefins conference, Santa Rosa, CA
256 10/15/17 **Grace Hopper Distinguished Lecture**, University of Pennsylvania
257 10/24/17 Department of Chemistry & Biochemistry, Florida State University, Tallahassee FL
258 01/25/18 Department of Chemical and Biochemical Engineering, Rutgers University, Piscataway NJ
259 02/04/18 2018 Mesilla Chemistry Workshop on Interplay between Theory and Experiment in Nanocatalysis, Mesilla NM
260 02/22/18 Department of Chemical and Biomolecular Engineering, University of Illinois, Urbana-Champaign IL
261 03/08/18 Department of Chemistry, Princeton University
262 03/19/18 Symposium for Beata Kilos, Early Career Fellow Award in Industrial & Engineering Chemistry, 255th ACS National Meeting, Washington, DC
263 03/21/18 Symposium: Towards Comprehension of Scale up and Multiscale Modeling of Catalysts, 255th ACS

National Meeting, Washington, DC

264 05/07/18 ACS Catalysis Symposium, Chinese Chemical Society annual meeting, Hangzhou, China

265 05/08/18 Department of Chemistry, Zhejiang University, Hangzhou, China

266 05/10/18 **Keynote Lecture**, Canadian Symposium on Catalysis, Saskatoon SK

267 06/07/18 **Keynote Lecture**, RKMC 2018: 1st International Conference on Reaction Kinetics, Mechanisms and Catalysis, Budapest, Hungary

268 06/12/18 **John van Geuns Lecture**, Van't Hoff Institute for Molecular Science, University of Amsterdam

269 07/13/18 Department of Chemical Engineering, Dalian University of Technology, Dalian, China

270 07/18/18 2018 International Symposium on Catalysis between Lanzhou Institute of Chemical Physics and University of California, Lanzhou, China

271 07/28/18 **Gordon Research Conference** on Green Chemistry, Castelldefels, Spain

272 08/19/18 Symposium: Understanding Catalytic Sites on Amorphous and Disordered Materials, 256th ACS National Meeting, Boston, MA

273 08/19/18 Symposium: Heterogeneous Catalyst Development for Biomass Upgrading, 256th ACS National Meeting, Boston, MA

274 09/06/18 Department of Chemical and Biomolecular Engineering, Johns Hopkins University, Baltimore, MD

275 09/10/18 10th International Mesostructured Materials Symposium, UCLA, Los Angeles CA

276 10/03/18 Symposium on "Pursuing a Fundamental Understanding of Electrochemical and Catalytic Processes using Synchrotron Radiation Techniques", Advanced Light Source Users' Meeting, Lawrence Berkeley National Laboratory, Berkeley CA

279 11/07/18 Pfizer Global Research and Development, Groton CT

280 11/16/18 Department of Chemical and Biomolecular Engineering, University of Houston

281 11/29/18 Department of Chemistry, University of California, Irvine

282 12/07/18 Max-Planck-Institut für Kohlenforschung, Mülheim, Germany

283 12/10/18 Institut de sciences et d'ingénierie supramoléculaire, Université de Strasbourg, France

284 01/11/19 Catalysis Forum (102nd Lecture), State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China

285 01/15/19 Distinguished Lecture Series, Department of Chemical Engineering and Material Science, University of Southern California, Los Angeles CA

286 03/10/19 **Plenary Lecture**, 4th North American Symposium on Chemical Reaction Engineering (NASCRE-4), Houston, TX

287 03/31/19 Award Symposium to honor Industrial & Engineering Chemistry (IEC) International Fellow R. Tom Baker, 257th ACS National Meeting, Orlando FL

288 03/31/19 Symposium "Through the Lens of Inorganic Chemistry: Understanding Heterogeneous Processes in Energy Conversion and Storage", 257th ACS National Meeting, Orlando FL

289 03/31/19 Symposium "Well-Defined Materials for Heterogeneous Catalysis: Synthesis, Characterization, and Performance Studies", 257th ACS National Meeting, Orlando FL

290 03/31/19 Symposium "Activation of Light (C1-C4) Hydrocarbons: Theory & Experiments", 257th ACS National Meeting, Orlando FL

291 04/19/19 Symposium on "Cooperative catalysis for energy and environmental applications", 2019 Materials Research Society Spring Meeting, Phoenix, Arizona

292 05/03/19 UCLA Department of Chemical Engineering, Los Angeles CA

293 05/09/19 **National Academies Workshop:** Closing the Loop on the Plastics Dilemma, Chemical Sciences Roundtable of the Board on Chemical Sciences and Technology
"Adapting transition metal-based heterogeneous and homogeneous catalysts for polymer disassembly"

294 05/17/19 **Kurt Wohl Memorial Lecture**, Department of Chemical and Biomolecular Engineering, University of Delaware

295 06/16/19 **Gordon Research Conference** on Clusters and Nanoparticles, Les Diablerets, Switzerland

296 07/04/19 **Plenary Lecture**, 60th Anniversary Ceremony of the Institut de recherches sur la catalyse (IRCELYON), Lyon, France

297 07/14/19 **Gordon Research Conference** on Biomass to Biobased Chemicals and Materials, Newry ME

298 08/09/19 Pacific Coast Catalysis Society annual meeting, Pullman, WA

299 08/12/19 SUNCAT Summer Institute 2019, Catalysis in an Evolving Energy Landscape

300 08/26/19 Symposium "Inorganic Chemistry for Sustainable Energy and the Environment", inaugural symposium of Sustainable Energy and the Environment (SEE) subdivision of Division of Inorganic Chemistry, 258th ACS National Meeting, San Diego, CA

301 08/28/19 **Keynote Lecture**, Symposium on Sustainable Biofuels and Bioproducts, 258th ACS National Meeting, San

Diego CA

302 08/28/19 Symposium "Understanding the Role of Water in Solid Acid-Base Catalysis", Catalysis Division, 258th ACS National Meeting, San Diego

303 10/03/19 Catalysis Research and the APS-U, Advanced Photon Source, Argonne National Laboratory

304 10/22/19 **Keynote Lecture,** Strategic Planning Workshop, National Synchrotron Light Source-II, Brookhaven National Laboratory

305 10/20/19 Symposium "Addressing Challenges to Energy Production in the 21st Century", 66th Annual AVS Annual Symposium, Columbus OH

306 10/29/19 **Boulder Scientific Distinguished Lecture**, Colorado State University, Fort Collins, CO

307 10/20/19 Symposium "Addressing Challenges to Energy Production in the 21st Century", 66th Annual AVS Annual Symposium, Columbus OH

308 11/06/19 Dow Chemical, Company Lake Jackson, TX

309 11/07/19 Critical Issues in Energy Symposium Series, The Future of Plastics: Designed Sustainability or Recycling, University of Houston Energy Initiative, Houston TX

310 11/12/19 Corporate Strategic Research, ExxonMobil Research & Engineering, Annandale NJ

311 12/21/20 Symposium on Ethanol Upgrading to Value-Added Chemicals, Dalian University of Technology, Dalian, China

313 12/02/19- **Eastman Lectures in Catalysis**, UC Berkeley, Berkeley CA

314 12/04/19 **Eastman Lectures in Catalysis**, UC Berkeley, Berkeley CA

315 02/03/19 Department of Chemical Engineering, Stanford University

316 03/17/20 AIChE CRE Webinar on Chemical Recycling of Waste Plastics

317 03/22/20 Symposium on "Activation of light (C1-C4) hydrocarbons. Theory and Experiments", 259th ACS National Meeting, Philadelphia PA (cancelled)

318 03/24/20 Symposium on "Meeting the Challenges of Heterogeneous Catalysis Controlled at the Atomic Level", 259th ACS National Meeting, Philadelphia PA (cancelled)

319 03/25/20 Symposium on Well-Defined Materials for Heterogeneous Catalysis: Synthesis, Characterization, and Performance Studies, 259th ACS National Meeting, Philadelphia PA (cancelled)

320 04/01/20 Stauffer Symposium in honor of Geoff Coates, University of Southern California, Los Angeles CA (postponed)

321 04/26/20 Future of Plastics and Recyclable Plastics, Annual Meeting of the National Academy of Sciences, Washington DC (converted to virtual meeting)

322 05/11/20 **Plenary Lecture**, Great Plains Catalysis Society annual meeting, Ames IA (postponed)

323 07/23/20 **Gordon Research Conference** on Lignin, Easton MA (postponed)

324 08/16/20 Symposium on Frontiers in Catalysis: PNNL's Institute for Integrated Catalysis celebrates 15 years, 260th ACS National Meeting, San Francisco CA (postponed)

325 08/26/20 Symposium on Solvation effects on electro-, photo-, and thermal catalysis operating in liquid environments, 260th ACS National Meeting, San Francisco CA (cancelled)

326 08/26/20 Symposium on Well-defined materials for cooperative catalysis, 260th ACS National Meeting, San Francisco CA (cancelled)

327 10/08/20 US-UK Catalysis Workshop, co-hosted by Catalysis Science program, part of the CSGB division, DOE-Basic Energy Sciences

328 10/14/20 Department of Chemistry, UT Austin

329 11/02/20 Catalytic Upcycling of Polymers series, PNNL

331 12/14/20 **Plenary Lecture**, Changing the World through Sustainable Technologies: a Vision for 2050, Annual Winter Showcase, EPSRC Centre for Doctoral Training in Sustainable Chemical Technologies, University of Bath, England (online)

335 02/03/21 Solvay Seminar Series, Department of Chemistry, Virginia Tech

336 02/04/21 Department of Chemistry, George Washington University

337 02/17/21 Department of Chemical Engineering, University of Rochester

338 03/17/21 Braskem USA Innovation and Technology Center, Braskem America, Pittsburgh PA

339 03/26/21 Department of Chemical Engineering, Mississippi State University

340 05/17/21 Chevron-Phillips Frontiers of Technology Seminar Series

341 05/11/21 Department of Chemistry, University of Pennsylvania

342 6/24/21 **Plenary Lecture**, Lawrence Berkeley Laboratory Biosciences Area Annual Meeting

343 09/07/21 **Keynote Lecture**, 11th International Mesostructured Materials Symposium (IMMS11), Dalian, Chin

344 10/29/21 Department of Macromolecular Science and Engineering, Case Western Reserve University, Cleveland, OH

345 09/15/21 Worcester Polytechnic Institute, Dept of Chemical Engineering

346 09/17/21 Institute of Chemical Research of Catalonia (ICIQ), Tarragona Spain

347 10/04/21 Encuentro de Química Inorgánica 2021 de Mexico
348 11/08/21 **Plenary Lecture**, Mexican Congress on Catalysis, hosted by Autonomous University of San Luis Potosí
349 12/07/21 **Plenary Lecture,** UK Catalysis Hub Annual Conference
350 03/01/22 Department of Civil and Environmental Engineering, George Washington University
351 03/11/22 **Plenary Lecture,** 8th Simposio Latinoamericano de química de coordinación y organometálica (SILQCOM)
352 03/21/22 Symposium on Catalytic Processes to Eliminate End of Life Plastics, ACS National Meeting, San Diego CA
353 03/23/22 Symposium on Kinetic and Mechanistic Insights into Heterogeneous Catalysis, ACS National Meeting, San Diego CA
354 03/23/22 Award for Affordable Green Chemistry: Symposium in Honor of Mahdi M. Abu-Omar, ACS National Meeting, San Diego CA
355 03/24/22 **1st World Plastics Summit, Monte Carlo, Monaco**
356 04/08/22 Department of Chemical and Petroleum Engineering, University of Pittsburgh, Pittsburgh PA
357 05/06/22 **Keynote Lecture,** Catalysis Club of Philadelphia Summer Symposium
358 05/10/22 **Keynote Lecture,** Fuel Science: From Production to Propulsion, 10th International Conference on Fuel Science, Eurogress, Aachen, Germany
359 05/15/22 **Plenary Lecture**, 26th Canadian Symposium on Catalysis (CSC2022), Vancouver BC
360 05/20/22 **Plenary Lecture**, International Symposium on Green Chemistry (ISGC), La Rochelle, France
361 05/30/22 **Plenary Lecture**, French Conference on Catalysis (FCCat 2022), Ronce-les-Bains, France
362 06/03/22 Chemical Engineering Seminar Series, Institute of Chemical Sciences and Engineering, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland
363 06/18/22 9th Irsee Symposium: From coadsorption and catalysis at solid surfaces to liquid-solid interfaces in theory and experiment, Irsee, Germany
364 06/23/22 School of Chemical Engineering, Northwest University, Xi'an, China
365 06/27/23 Wuhan University of Technology, Wuhan, China
366 08/14/22 **Plenary Lecture**, Great Plains Catalysis Society annual meeting, Ames IA
367 08/22/22 George A. Olah Award in Hydrocarbon or Petroleum Chemistry: Symposium in Honor of T. Brent Gunnoe, ACS National Fall Meeting, Chicago IL
368 08/22/22 2022 ACS Catalysis Lectureship, Symposium in Honor of Eranda Nikolla, ACS National Fall Meeting, Chicago IL
369 08/23/22 Catalysis for Oxygenate Conversion: Fundamentals, Applications, & Perspectives, ACS National Fall Meeting, Chicago IL
370 08/23/22 2022 ACS CATL Division Award Symposium for Exceptional Achievement in Catalysis, in honor of Daniel Resasco, ACS National Fall Meeting, Chicago IL
371 08/24/22 ACS Award for Team Innovation: Symposium in Honor of Philip Fontaine, Douglas S. Ginger, Suzanne Guerra, Pradeep Jain, & Jian Wang, ACS National Fall Meeting, Chicago IL
372 09/06/22 DOE BES Polymer Upcycling Project Kickoff Meeting
373 09/09/22 RESOLV workshop on Solvation in Catalysis, Rühr-Universität Bochum
374 09/12/22 Workshop on Advanced Diagnostics in Heterogeneous Catalysis, University of Göttingen, German
375 09/14/22 Institut français du pétrole et énergies nouvelles, Solaize, France
376 09/18/22 Advances in Polyolefins Conference, Sonoma CA
377 10/24/22 **Keynote Lecture**, Innovations in Catalysis to Address Modern Challenges, Chemical Sciences Roundtable (National Academies), Washington, DC
378 11/15/22 **Keynote Lecture**, 2nd Chemical Synthesis Innovation Symposium, Pfizer Global R&D (virtual, US-UK)
379 12/06/23 Dow Chemical, Lake Jackson TX
380 01/10/23 Symposium on Chemical Dynamics at Extended Scales - CDES 2023, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, Germany
381 03/16/23 Michigan Catalysis Society, Ann Arbor MI
382 03/23/23 World Plastics Summit, Monte Carlo, Monaco
383 04/10/23 Department of Chemical Engineering, University of Washington, Seattle WA
384 04/28/23 Southwest Catalysis Society Spring Symposium, Houston TX
385 05/03/23 Johnson-Matthey Technical Center, Sonning, UK
386 05/04/23 Rideal Conference, University College London, London UK
387 05/22/23 **Irving Wender Keynote Lecture**, Pittsburgh-Cleveland Catalysis Society, Penn State
388 05/29/23 **Peiyang Lectureship**, Tianjin University, Tianjin, China (online)
389 06/05/23 **Plenary Lecture**, Physikalische Chemie der Energiewende *(Physical Chemistry of the Energy Transition),* Bunsen-Tagung 2023, Deutsche Bunsen-Gesellschaft für Physikalische Chemie, Berlin Germany
390 06/08/23 Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin Germany
391 06/13/23 **Keynote Lecture,** BlueSky/Incorep Conference 2023, Sorrento, Italy

392 06/18/23 **Keynote Lecture**, 28th North American Catalysis Society Meeting, Providence RI
393 07/10/23 **Gordon Research Conference** on Plastics Recycling and Upcycling, Southern New Hampshire University
394 07/13/23 **Gordon Research Conference** on Organometallic Chemistry, Providence RI
395 07/17/23 ACS Green Chemistry and Sustainability Summer School, Colorado School of Mines, Golden CO
396 07/24/23 Wuhan University of Technology, Wuhan, China
397 08/07/23 **Distinguished Lectureship**, Virginia Clean Energy and Catalysis Summit
398 08/11/23 SUNCAT Summer Institute, Stanford University, Palo Alto CA
399 08/15/23 Symposium on Improving Rigor and Reproducibility of Measurements in Catalysis and Materials Research, 266th ACS National Meeting, San Francisco, CA
400 09/12/23 Department of Chemical and Biological Engineering, University of Wisconsin, Madison WI
401 09/14/23 Department of Chemical Engineering, University of Michigan, Ann Arbor MI
402 09/29/24 **Keynote lecture:** Inaugural Maria Flytzani-Stephanopoulos Symposium on Single-Site Catalysis, Tufts University, Department of Chemical and Biological Engineering, Boston MA
403 10/09/23 **Plenary lecture**, Academic Congress on Graduate Education, UCLA
404 11/23 **Plenary Lecture**, Third Forum of Female Scientists in Catalysis, Catalysis Committee of Chinese Chemical Society (CCCS) and Nanjing University of Science and Technology (NJUST) (virtual presentation)
405 12/11/23 **Royal Society Discussion**, "Green carbon for the future of the chemical industry", London England
406 01/22/24 **Gordon Research Conference** on Chemical Separations, Galveston TX
407 02/08/24 Department of Chemical Engineering, University of Virginia, Charlottesville VA
408 03/17/24 Symposium on Catalysis in Plastic Recycling and Upcycling, 267th ACS National Spring Meeting, New Orleans LA
409 03/17/24 Symposium on Catalysis for Decarbonization of Industrial Processes: A Symposium Inspired by the Research Contributions of the Center for Environmentally Beneficial Catalysis, 267th ACS National Spring Meeting, New Orleans LA
410 03/17/24 Symposium on Driving Sustainable Innovations in the Polymer Industry Through Chemistry and Materials Science", 267th ACS National Spring Meeting, New Orleans LA
411 04/02/24 Department of Chemical & Biological Engineering, Louisiana State University, Baton Rouge LA
412 04/11/24 Department of Chemical & Biological Engineering, University of Alabama, Tuscaloosa AL
413 04/26/24 Southwest Catalysis Society Spring Symposium, Shell Woodcreek Complex in Houston, TX
414 06/09/24 10th Irsee Symposium, "Complexity at catalytically relevant interfaces", Irsee, Germany
415 06/12/24 5th Tosoh Polymer Conference, Raleigh, NC
416 06/18/24 **Gordon Research Conference** on Catalysis, Colby-Sawyer College, New London NH
417 07/15/24 **Keynote lecture**, International Congress on Catalysis, Lyon, France
418 07/22/24 **Plenary Lecture**, A Circular Economy for the Chemical Sector', UKRI Interdisciplinary Center for Circular Chemical Economy in collaboration with Cell Press, Cardiff University, Wales
419 08/24 **Keynote lecture**, Symposium on Catalysis at Solid-Liquid Interfaces, 268th ACS National Meeting, Denver, CO
420 8/24 Olah symposium in honor of Umit Ozkan, 268th ACS National Meeting, Denver, CO
421 8/24 Symposium on Chemical Recycling and Upcycling of Polymer Waste, 268th ACS National Meeting, Denver, CO
422 09/11/24 Department of Chemical Engineering, North Carolina State University
423 09/12/24 **Eastman Chemical Company Distinguished Lecture**, Department of Chemistry, University of North Carolina, Chapel Hill NC
424 10/24 Symposium on Women and Gender Minorities in Catalysis, AIChE annual meeting, San Diego CA
425 10/24 Symposium in Honor of the 2023 CRE Practice Award Winner, AIChE annual meeting, San Diego CA
426 3/25 **Gordon Research Conference** on Inorganic Reaction Mechanisms, Pomona CA

Patents:

2010 US Patent 7,754,789, Method for Forming Flame-retardant Clay-polyolefin Composites, Inventors S. Scott, B. Peoples, C.M. Yung, filed 10/6/2006, issued 7/13/2010. Also WO/2008/108790; EP2038343.
2010 US Patent 7,772,299, Method for Forming Flame-retardant Clay-polyolefin Composites, Inventors S. Scott, B. Peoples, C.M. Yung, filed 7/22/2009, issued 8/10/2010
2010 US Patent 7,776,943, Method for Forming Exfoliated Clay-polyolefin Composites, Inventors S. Scott, B. Peoples, R. Rojas, A. Tanna, F. Shimizo, filed 6/12/2006, issued 8/17/2010. Also WO/2007/146263; EP2029668; CN101501121.
2012 US Patent 8,268,946, Clay Activation of Pd(II) and Ni(II) Complexes, Inventors S. L. Scott, M. A. Caipa Campos, issued 9/18/2012. Also WO/2009/155509; CN102066392; EP2303903.

2019	US Provisional Application 62/796,482, Catalytic Polymer Processing, Inventors M.D. Delferro, M.S. Ferrandon, K.R. Poeppelmeier, A.D. Sadow, S. Scott, A.M. Lapointe, filed 1/24/19.
2020	US Provisional Patent Application 63/052,227, Process for Upcycling of hydrocarbon polymers to alkylaromatics, Inventors F. Zhang, M. Zeng, M.M. Abu-Omar, S.L. Scott, filed 7/15/20
2022	US Provisional Patent Application 63/353,320, PROCESSES FOR CONVERTING SATURATED POLYETHYLENE TO ALKENE PRODUCTS, Inventors I.A. Konstantinov, R. Huacuja, A.J. Nett, M.S. Rosen, S.W. Ewart, G. Strong, L. Gao, N. Wang, V. DaSilva, D. Guironnet, S. Scott, filed 6/17/22
2022	US Provisional Patent Application 63/353,327, PROCESSES FOR CONVERTING UNSATURATED POLYETHYLENE TO ALKENE PRODUCTS, I.A. Konstantinov, R Huacuja, A.J. Nett, M.S. Rosen, S.W. Ewart, G. Strong, L. Gao, N. Wang, V. DaSilva, D. Guironnet, S. Scott, filed 6/17/22
2022	US Provisional Patent Application, Method of Synthesizing Polar Waxes, H. Moon, F. Shimizu, K. Fukumoto, S.L. Scott, filed 12/20/22
2023	US Provisional Patent Application, EFFICIENT AND SELECTIVE UPCYCLING OF POLYETHYLENE TO ALKYLBENZENES UNDER MODERATE HYDROGEN PRESSURE, J. Sun, S.L. Scott, Y.-H. Lee, M. M. Abu-Omar

Special Appointments (since 2003):

YEAR	POSITION	TYPE OF APPOINTMENT
2003-2006	Member	Editorial Board, *Organic Reactions Catalysis Society*
2006-2010	Co-director	UCSB PIRE program: Electron Chemistry and Catalysis at Interfaces
2010-present	Director	NSF Partnership in International Research and Education: Electron Chemistry and Catalysis at Interfaces, UCSB
2008-2009	Member	Stanford Synchrotron Radiation Lightsource, Proposal Review Panel (Materials1)
2009-2012	Chair	Stanford Synchrotron Radiation Lightsource, Proposal Review Panel (Mat1)
2008-2012	Member	Editorial Advisory Board, *Catalysis Communications*
2009-2010	Member	Editorial Board, Organic Reactions Catalysis Society (responsible for special issue of *Topics in Catalysis*)
2009-2012	Member	International Advisory Council, Victoria Institute of Science and Technology, Kenya
2010-2012	Vice-President	Pacific Coast Catalysis Society
2010	Chair-elect	Organic Reactions Catalysis Society
2011	Member	Committee of Visitors, Catalysis Science portfolio of Chemical Sciences, Geosciences and Biosciences Division, Office of Basic Energy Sciences, US Department of Energy
2011-2015	Member	Joint Board-Council Committee on Publications, American Chemical Society
2012-2014	Chair	Organic Reactions Catalysis Society
2012-2013	Member	Editorial Advisory Board, *ACS Catalysis*
2012-2016	Member	International Advisory Board, *ChemPlusChem*
2012	Member	International Advisory Committee, Workshop on Applications of Environmental Transmission Electron Microscopy, Göttingen, Germany
2012	Member	Committee of Visitors, National Science Foundation, Chemical, Bioengineering, Environmental, and Transport (CBET) Division
2013-2017	Member-at-Large	Elected by Chemistry Section, American Association for the Advancement of Science
2013-2021	Assoc. Editor	*ACS Catalysis*
2013	Member	Committee of Visitors, Department of Energy, Basic Energy Sciences Advisory Committee, Energy Frontiers Research Centers
2013	Member	US Delegation, Chemical Sciences and Society Summit, "Efficient Utilization of Elements", Tokyo, Japan
2013-2014	Member	NSF Mathematical and Physical Sciences Advisory Committee, Subcommittee on Food Systems
2014-present	Member	International Scientific Advisory Board (Fachbeirat), Fritz-Haber-Institute, Max-Planck-Society, Berlin Germany
2014	Member	Energy Materials and Processes Science Theme Advisory Panel, Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory
2014	Member	Physical Sciences and Engineering Directorate Standing Review Board, Argonne National Laboratory
2014	Guest Editor	Special issue of *Topics in Catalysis*: Proceedings of 25th Organic Reactions Catalysis Society meeting
2014-2018	Member	Advisory Board, Catalysis Center for Energy Innovation, University of Delaware

2014-2017	Member	NSERC Joint Prizes Selection Committee (John C. Polanyi Award, Brockhouse Canada Prize, Gerhard Herzberg Canada Gold Medal)
2014-2019	Member	Editorial Board, *Chinese Journal of Catalysis*
2015-2018	Member	Editorial Board, *Chem* (Cell Press)
2016-2020	Member	International Scientific Advisory Committee, Stanford Synchrotron Radiation Lightsource
2016-2020	Chair	Scientific Advisory Committee, Chemical Transformations Initiative, Pacific Northwest National Laboratory
2016-present	Member	Editorial Board, *Reaction Kinetics, Mechanisms and Catalysis*
2017	Chair	Spectroscopy Review Panel, Stanford Synchrotron Radiation Lightsource
2017	Co-Chair	DOE-BES Basic Research Needs in Catalysis Workshop
2017-present	Member	Scientific Advisory Committee, Ames Laboratory
2017-2021	Member	Board of Reviewing Editors, *Science*
2018	Vice-Chair	Gordon Conference on Catalysis
2018	Member	Technical Advisory Board, Institute for Interfacial Catalysis, Pacific Northwest National Laboratory
2018	Vice-Chair	Gordon Conference on Catalysis
2018	Member	ExxonMobil International Technical Advisory Panel on Heterogeneous Catalyst and Basic Chemicals, Intermediates and Synthetics Processes
2018-2021	Member	ACS National Award Selection Committee
2018-2021	Member	Department of Energy - Basic Energy Sciences (DOE-BES) Council for Chemical Sciences, Geosciences and Biosciences (CSGB)
2018-present	Member	Board of Directors, Joint BioEnergy Institute (JBEI, a DOE Bioenergy Research Center, led by UC Berkeley)
2018-present	Member	Bioenergy Technical Review Panel, National Renewable Energy Lab.
2018-2020	Program Committee	International Congress on Catalysis, San Diego CA
2019-	Member	Science Advisory Board, SUNCAT Center for Interface Science and Catalysis, Stanford University and SLAC National Accelerator Laboratory
2020	Chair	Gordon Conference on Catalysis (postponed until 2022)
2019-	Member	International Advisory Board, International Symposium on Relations Between Homogeneous and Heterogeneous Catalysis (ISHHC)
2019	Member	Advisory Board of Discipline Assessment on Chemical Engineering, Dalian University of Technology, Dalian, China
2019-2021	Member	Editorial Board, *Reaction Chemistry & Engineering*
2020	Member	Committee of Visitors, Division of Chemistry, National Science Foundation
2020-2023	Member	ACS National Awards Committee
2020-present	Member	Editorial Advisory Board, *The Innovation* (Cell Press)
2021	Member	ExxonMobil International Technical Advisory Panel Assessment of Active Materials
2021-present	Member	Technical Advisory Board, DOE BOTTLE (Bio-optimized Technologies to keep Thermoplastics out of Landfills and the Environment) Consortium
2021-present	Exec. Editor	*ACS Catalysis*, American Chemical Society
2022	Science advisor	Green Chemistry Initiative, Gordon and Betty Moore Foundation
2022-	Member	Scientific Advisory Board, CD4DC EFRC
2022	Chair	UC Laboratory Fees Research Program graduate fellowship review committee
2022-	Member	Editorial board, *Catalysis Reviews* (Taylor & Francis)
2022-	Member	Editorial board, *Green Chemistry* (Royal Society of Chemistry)
2023	Chair	UC Laboratory Fees Research Program graduate fellowship review committee
2024-	Member	College of Experts, Singapore National Research Foundation (NRF)

Other Professional Contributions:

YEAR	POSITION	TYPE OF CONTRIBUTION
2000-2012	Consultant	The Dow Chemical Company
2001-pres.	Member	Leaders' Opportunity Fund Advisory Committee, Canada Foundation for Innovation
2001-pres.	Member	College of Reviewers, Canada Research Chairs
2004-2007	Consultant	Nova Chemicals
2005	Member	Technical Advisory Board on Nanocomposite Materials, Mitsubishi Chemical Corporation

2005	Member	Technical Advisory Board on Advanced Motor Fuels, ExxonMobil
2006	Organizer	UCSB Summer School: Techniques of Catalysis and Surface Science
2006	Consultant	Clipper Windpower
2007	Organizer	US China Partnership Workshop on Heterogeneous Catalysis and Surface Science
2007	Member	Technical Advisory Board on Advanced Polyolefins, Mitsubishi Chemical Corporation
2007	Co-chair	Kokes Student Awards, 2009 North American Catalysis Society meeting
2007-2008	Organizer	CENTC 2008 Summer School: Organometallic Catalysis
2007-2008	Organizer	PIRE-ECCI/ICMR 2008 Summer Workshop: Grand Challenges for Catalysis
2008	Member	Technical Advisory Board on Advanced Polyolefins, Mitsubishi Chemical Corporation
2009	Co-chair	DOE/BES Catalysis Science Contractors' Meeting
2009	Co-organizer	2nd US-China Partnership Workshop on Heterogeneous Catalysis and Surface Science
2011	Panel Member	Sustainable Chemistry Basic Research workshop, Board on Chemical Sciences and Technology, National Academy of Sciences, Washington DC
2011	Co-organizer	Workshop on Synchrotron Applications in Catalysis Chemistry, Stanford Synchrotron Radiation Lightsource, Annual Users' Meeting, Palo Alto, CA
2011	Co-organizer	PIRE-ECCI/IAMS Joint Workshop, Taipei, Taiwan
2011	Speaker	"Chemical Approaches to Sustainable Energy Production: A US-China collaboration in catalysis", *video-recorded by NSF Office of Public and Legislative Affairs, and posted on NSF website.*
2011	Contributor	Report of the NSF Catalytic Chemistry Workshop on Defining Critical Directions for the Future, "Molecular-level Understanding of Heterogeneous Catalysis", *faculty.chemistry.harvard.edu/friend-lab/pages/reports*
2011	Contributor	Sustainable Chemistry Basic Research Workshop, Board on Chemical Sciences and Technology, National Academy of Sciences, Washington DC, webcast and meeting recap available at *dels.nas.edu/global/bcst/SustainableChemistry*
2011	Contributor	Report of the Committee of Visitors, US Department of Energy, Office of Basic Energy Sciences
2012	Speaker	Symposium on *Science, Innovation, and Partnerships for Sustainability Solutions*, The National Academies, Washington, DC "Catalysis for Sustainable Energy Production: A US-China Partnership", *video and slides posted online at sites.nationalacademies.org/PGA/sustainability/SustainabilitySymposium/PGA_069360.htm*
2012	Speaker	Ensuring the Sustainability of Critical Materials and Alternatives: Addressing the Fundamental Challenges in Separation Science and Engineering, 244th ACS National Meeting, Philadelphia PA. *Recording and slides available at www.slideshare.net/ChEnected/acs-symposium-findings-and-opportunities-from-the-2012-nsf-suschem-workshop*
2012	Contributor	Report of the Committee of Visitors, National Science Foundation, Chemical, Bioengineering, Environmental, and Transport (CBET) Division
2012	Contributor	Report on Compact X-ray Lightsource at Pacific Northwest National Laboratory
2012	Organizer	NSF Joint CHE/CBET/DMR Workshop on Sustainable Chemistry
2012	Chair	NSF Joint CHE/CBET/DMR SusChEM Workshop (Sustainable Chemistry, Engineering and Materials)
2012	Co-organizer	Pacific Coast Catalysis Society Annual Meeting and Conference, Santa Barbara, CA
2012	Organizer	PIRE-ECCI/ICMR/DICP Summer School on Catalysis, Dalian, China
2012	Session Chair	NSF S-STEM PI meeting, Arlington VA
2012	Co-organizer	Pacific Coast Catalysis Society Annual Meeting and Conference, Santa Barbara
2012	Member	International Advisory Committee, Workshop on Applications of Environmental Transmission Electron Microscopy, Göttingen, Germany
2013	Organizer	Symposium on "Sustainable Chemical Manufacturing in a Resource-Limited World", AAAS Annual Meeting, Boston MA
2013	Member	Workshop on "Building Research Partnerships between Women Scientists and Engineers in the US and Brazil", sponsored by the US State Department, the US National Science Foundation and Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, Boston MA
2013	Member	Scientific Committee, 2nd International Congress on Catalysis for Biorefineries, Dalian, China
2013	Organizer	CTPSE Public Lecture: Carl Wieman, "Taking a Scientific Approach to Science and

		Engineering Education"
2014	Organizer	CTPSE Public Lecture: Eric Mazur, "Assessment: The Silent Killer of Learning"
2014	Chair	25th Organic Reactions Catalysis Society Biannual Conference, Tucson, AZ
2014	Member	International Advisory Committee, International Workshop on Catalytic Olefin Polymerization & High Performance Polyolefins, Shanghai, China
2014	Member	Comité scientifique, Congrès Franco-Marocain de Catalyse Hétérogène
2014	Member	DOE-BER Workshop on Bioenergy
2014	Organizer	Sustainable Chemical Technologies Summit (SusTech 2014), UC Santa Barbara
2014	Member	International Advisory Committee, International Workshop on Catalytic Olefin Polymerization and High Performance Polyolefins (Shanghai, China)
2014-pres.	Member	Aachen-California Network of Academic Exchange (ACalNet)
2014	Member	International Scientific Committee, International Conference on Advanced Materials (ICAM-2015, Irbid, Jordan)
2014-2015	Member	Organizing Committee, World Polyolefin Congress (WPOC2015), Tokyo, Japan
2015	Co-organizer	Sustainable Science Communication Conference, UC Santa Barbara
2015	Co-chair	DOE BES Catalysis PI Meeting, Annapolis MD
2015	Member	Scientific Committee, 3rd International Congress on Catalysis for Biorefineries, Rio De Janeiro, Brazil
2015	Member	Science Theme Advisory Panel on Energy Materials and Processes, Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory
2015	Member	International Scientific Committee, Catalysis Applied to Fine Chemicals (CAFC-11, Lyon France)
2016	Organizer	Symposium on Amorphous Catalytic Materials, 251st ACS National Meeting, San Diego
2016	Co-organizer	Symposium on Elucidation of Mechanisms and Kinetics on Surfaces, 251st ACS National Meeting, San Diego, CA
2016	Member	Science Theme Advisory Panel on Energy Materials and Processes, Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory
2016	Reviewer	National Academies of Sciences, Engineering, and Medicine's Board on Chemical Sciences and Technology workshop report, The Changing Landscape of Hydrocarbon Feedstocks for Chemical Production: Implications for Catalysis
2016-2017	Co-Chair	Catalysis Division, 253rd ACS National Meeting, San Francisco CA
2017	Organizer	Symposium on Catalytic transformation of lignocellulosic biomass to chemicals, 253rd ACS National Meeting, San Diego, CA
2017	Organizer	Symposium on Amorphous Catalytic Materials, 253rd ACS National Meeting, San Diego, CA
2017	Co-organizer	Symposium on Elucidation of Mechanisms and Kinetics on Surfaces, 253rd ACS National Meeting, San Diego, CA
2017	Organizer	Mellichamp-ACalNet Joint Workshop on Sustainable Chemistry, UC Santa Barbara
2017	Co-organizer	Mellichamp-Rupe Joint Workshop on Science, Communication and Uncertainty, UC Santa Barbara
2017	Discussion leader	Gordon Research Conference on Inorganic Reaction Mechanisms, Galveston TX
2018	Co-organizer	New Techniques and Applications of Magnetic Resonance in Heterogeneous Catalysis, ACS National Meeting, New Orleans
2018	Co-organizer	Cal-Cat-Net planning workshop, UC Santa Barbara
2018	Discussion Leader	Gordon Research Conference "Catalysis", New London NH
2018	Co-organizer	China-US Forum on Electron Chemistry and Catalysis with Applications to Energy Conservation, Beijing and Lanzhou
2018	Co-lead	DOE-BES Basic Research Needs in Catalysis Workshop Brochure and Full Report (https://science.energy.gov/bes/community-resources/reports/)
2019	Co-organizer	Symposium on Elucidating the Roles of Electric Fields in Catalysis, ACS National Meeting, Orlando
2019	Panel lead	DOE-BES Polymer Upcycling Roundtable
07/25/19	Panelist	BES Roundtable Workshop on Polymer Upcycling, DOE-BES Catalysis PI meeting, Washington, DC
07/26/19	Session chair	DOE-BES Catalysis PI meeting, Washington, DC
08/13/19	Panel member	Women in Catalysis, SUNCAT Summer Institute 2019: Catalysis in an Evolving Energy

		Landscape, Stanford University, Palo Alto CA
2020	Co-organizer	Symposium on Catalytic Conversion of Polymers: Upcycling to Useful Chemicals, Fuels, and Materials, 259th ACS National Meeting, Philadelphia PA
2020	Co-organizer	Symposium: Towards Comprehension of Scaleup and Multiscale Modeling of Catalysts, 260th ACS National Meeting, San Francisco CA
2020	Co-organizer	Pacifichem 2020 Congress, Symposium on Supported Single-Ion Catalysts, Waikiki HI
2020	Co-organizer	Pacifichem 2020 Congress, Symposium on Triangle of Heterogeneous Catalysis, Surface Science, and Theory, Waikiki HI
2020	Co-chair	DOE-BES CSGB Council Workshop on Synergy between Reactions and Separations, Gaithersburg MD
2020	Panel member	NSF CBET review panel
2020	Jury member	North American Catalysis Society award selection committee
2020	Member	UC-MEXUS proposal review panel
2020	Member	NSF EPSCoR review panel
2020	Member	Review panel, DOE-EERE
2020	Member	NSF CBET CAREER panel
2020-21	Member	Director Appointment Committee, Max Planck Institute for Chemical Energy Conversion, Mülheim an der Ruhr
2021	Co-chair	DOE-BES-CSGB Council workshop on Synergies between Reactions and Separations
2021	Co-chair	DOE-BES US-UK workshop on *operando* catalysis for a circular carbon economy
2021	Moderator	Dr. Mae Jemison Arts & Lectures (virtual event)
2021	Moderator	Dr. Ainissa Ramirez Arts & Lectures (virtual event)
2022	Moderator	Cathy Park Hong Arts & Lectures education event
2022	Moderator	Dr. Danielle Wood Arts & Lectures education event
2022	Session chair	Plenary Session, International Symposium on Green Chemistry 2022, La Rochelle France
2022	Session co-chair	In Honor of NAM26 Distinguished Woman in Catalysis Edith Flanigen, North American Catalysis Society meeting, New York NY
2023	Panel member	SSRL 50th anniversary celebration symposium, Palo Alto CA
2024	Tech Reviewer	Green chemistry for a sustainable chemical industry, report of a Royal Society meeting

SERVICE

University Service (since move to UC Santa Barbara, in 2003):

YEAR	POSITION	TYPE OF SERVICE
2004-2006	Member	Executive Committee, College of Engineering
2004-2006	Member	Merits and Promotions Committee, Chemical Engineering
2004-2006	Member	COE/MLPS Diversity Committee
2005	Member	Chem Engr Undergraduate Laboratory Committee
2005	Chair	Academic Senate Ad Hoc Committee
2005	Coordinator	Spring seminar series, Chemical Engineering Departmental Seminar
2005-2006	Member	Chem Engr Faculty Search Committee
2006-2010	Co-director	Partnership for International Research and Education (NSF) – Electron Chemistry and Catalysis at Interfaces
2006	Speaker	College of Engineering International Advisory Board Meeting
10/6/06	Lecturer	ChE 1A, Engineering and the Scientific Method
2006-2007	Chair	ChE Undergraduate Affairs Committee
2006-2007	Member	Organizing Committee, Emerging Energy Technologies Summit, Technology Management Program
2007	Member	Academic Senate Ad Hoc Committee
2007-2008	Member	Graduate Affairs Committee, Chemical Engineering
2007	Member	Diversity Committee, Chemical Engineering
2007	Member	Graduate Student Compensation Committee, Chemistry & Biochemistry
2008	Faculty advisor	UCSB EnergyForum (student club)
2008-2011	Vice-Chair	Department of Chemical Engineering (Graduate Affairs)
	Grad Advisor	Department of Chemical Engineering
2008-2010	Chair	Graduate Admissions Committee

10/20/08	Facilitator	UCSB Postdoc Society, Workshop on CV Preparation
2008-	Faculty advisor	One Laptop per Child – Santa Barbara (student club)
2008	Member	UCSB Graduate Outreach and Advancement Committee (GOAC)
2009-2010	Lead	Chemical Engineering FIRE-up (UC AGEP diversity initiative)
2009-2010	Faculty advisor	Society for Women Engineers (student club)
2009-2010	Member	*Ad hoc* committee, Chemistry (tenure case)
	Organizer	Society of Postdoctoral Scholars, Workshop on Research Collaborations
11/23/09	Lecturer	CHE 1A, Lecture on Catalysis
2010-present	Director	Partnership for International Research and Education (NSF) – Electron Chemistry and Catalysis at Interfaces
2010	Member	Committee on Excellence in Graduate Education
2010	Speaker	SPO-sponsored DOE-BES proposal-writing workshop
2010-2012	Member	Advisory Board, Technology Management Program, UCSB
10/08/2010	Lecturer	CHE 1A, Lecture on Catalysis
2010-2011	Member	Graduate Affairs Committee, Dept of ChemEngr
12/01/10	Panelist	Society of Postdoctoral Scholars, Workshop on Work-Life Balance
19/05/11	Member	Academic Senate Ad Hoc Committee
08/12/11	Speaker	DOE-BES proposal-writing workshop
09/01/11	Member	Office of Research On-Campus Proposal Review Panel
2011-2012	Member	College of Engineering Executive Committee
2011-2012	Member	ChE Undergraduate Affairs Committee
2011-2012	Member	ChE Undergraduate Laboratory Committee
01/09/12	Member	Red Team Review Panel (STC Proposal), Office of Research
2012	Co-organizer	Society of Postdoctoral Scholars, Workshop on Negotiations
2012	Director	ESTEEM Scholars Program for First-Generation Engineering Students
2012	Member	Advisory Committee, Academic Research Consortium (ARC), UCSB Graduate Division
04/26/12	Speaker	University of California System-wide CalTeach program
05/10/12	Speaker	UC-wide Science and Mathematics Institute (SMI) annual workshop
10/05/12	Panelist	Bren Eco-entrepreneurship Panel “Reducing Chemical Impacts in the Environment”
10/05/12	Panelist	STC Mock NSF Site Visit Red-Team Review Team
2012-2015	Co-director	Center for Sustainable Use of Renewable Feedstocks (CenSURF), an NSF Phase I Center for Chemical for Innovation
2012-present	Co-director	CalTeach: Physical Sciences and Engineering, an NSF Noyce Teacher Scholarships Program
2012-2014	Chair	ABET Committee, Dept of Chemical Engineering
2012-2014	Member	WASC Committee on Graduate Education
10/22/12	Member	NSF CBET CAREER Proposal Review Panel
10/23/12	Member	NSF CBET Unsolicited Proposal Review Panel
10/29/12	Lecturer	CHE 1A, Lecture on Catalysis
11/16/12	Member	Office of Research Red Team Proposal Review
2012-2015	Member	Academic Senate Sustainability Working Group
02/07/13	Lecturer	PHYS/ECE 121A, The Practice of Science, “Networking and Collaborating: An Expansive Scientific Sphere”
02/19/13	Organizer	Inaugural CTPSE Public Lecture: Carl Wieman, “Taking a Scientific Approach to Science and Engineering Education”
02/26/13	Organizer, moderator	“Careers in Science Education”, panel discussion for UCSB students
2013	Member	Search committee, Chemical Engineering MSO position
2013-2014	Member	Search Committee, New Inorganic Chemistry Faculty position
2013	Chair	Department of Chemistry & Biochemistry Ad Hoc Personnel Committee
10/2013	Member	Office of Research Red Team Proposal Review Panel
2013	Member	Inorganic Chemistry Faculty Search Committee
2013	Member	Search committee, Chemical Engineering Laboratory Manager
02/06/14	Lecturer	PHYS/ECE 121A, The Practice of Science, “Science Collaboration”
2014, 2015	Member	Search Advisory Committee, Dean of the Gevirtz Graduate School of Education
2014, 2015	Speaker	UCSB Prowess (Proposal Writing) Workshop, Research Development

2013-2014	Lead PI	UCSB Assessment Grant: Assessment of Technical Writing Skills Acquisition in Chemical Engineering
2014-2015	Co-PI	UCSB Assessment Grant: Assessing the Integration of Technical Writing Instruction in Upper Division Chemical Engineering Coursework
2014-2015	Co-PI	UCSB Assessment Grant: Assessment of Professional and Ethical Responsibility Learning Outcomes in the Engineering Curricula
2014-2016	Chair	Search committee, Mellichamp Chair in Sustainable Manufacturing (Chemical Engineering
2014-2016	Member	Search committee, Mellichamp Chair in Economics of Sustainable Technologies (Bren School)
2014-2016	Member	Search committee, Mellichamp Chair in Green Chemistry (Chemistry & Biochemistry)
2015-2016	Member	ABET Committee, Department of Chemical Engineering
2015-2016	Member	Graduate Affairs Committee, Department of Chemical Engineering
05/07/2015	Lecturer	PHYS/ECE 121A, The Practice of Science, "Science Collaboration"
2014-2016	Member	Chancellor's Advisory Committee on the Status of Women
03/29/2015	Speaker	UCSB College of Engineering Corporate Affiliates Board Meeting "Enhanced Support, Training and Experiences for Engineering Majors (ESTEEM)"
05/13/2015	Speaker	UCSB MLPS Dean's Cabinet meeting "Mellichamp Academic Initiative in Sustainability"
2015, 16, 17	Member	Academic Senate Committee on Faculty Grants
07/16/2015	Member	PROWESS Faculty Panel, Research Development
2014-2015	Co-PI	UCSB Assessment Grant: Assessing the Integration of Technical Writing Instruction in Upper Division Chemical Engineering Coursework
2014-2015	Co-PI	UCSB Assessment Grant: Assessment of Professional and Ethical Responsibility Learning Outcomes in the Engineering Curricula
2014-2017	Chair	Search committee, Mellichamp Chair in Sustainable Manufacturing (Department of Chemical Engineering)
2014-2016	Member	Search committee, Mellichamp Chair in Economics of Sustainable Technologies (Bren School)
2014-2016	Co-chair	Search committee, Mellichamp Chair in Green Chemistry (Department of Chemistry & Biochemistry)
2015-2016	Member	ABET Committee, Department of Chemical Engineering
2015-2016	Member	Graduate Affairs Committee, Department of Chemical Engineering
2016-2017	Chair	Ad Hoc Committee, Merits & Promotions, Department of Chemistry & Biochemistry
2016-2017	Member	Junior Faculty Search Committee, Department of Chemical Engineering
2016-2017	Member	Undergraduate Affairs Committee/ABET Committee, Department of Chemical Engineering
2016-2017	Member	Faculty Executive Committee, College of Engineering
2015-2016	Member	Campus Story Advisory Panel, Office of Public Affairs and Communications
05/04/2016	Lecturer	PHYS/ECE 121A, The Practice of Science, "Science Collaboration"
2016-present	Faculty Advisor	Phi Sigma Rho, Sorority for Women in Engineering
2016-2017	Chair	Ad Hoc Committee, Merits & Promotions, Department of Chemistry & Biochemistry
2016-2019	Member	University of California Academic Council Special Committee on Lab Issues (ACSCOLI)
2016-2020	Director	Enhancing Success in Transfer Education for Engineering Majors (ESTEEM), 5-campus collaborative program (with Santa Barbara City College, Ventura College, Oxnard College, Alan Hancock College)
11/22/2016	Lecturer	INT 95 (UCSB Academic Initiative Course for UCSB Promise Scholars) "Modern Research University"
11/01/2016	Faculty host	UCSB Academic Initiative Faculty Night "Black Lives Matter vs. All Lives Matter" (nominated by students)
02/22/2017	Faculty host	UCSB Academic Initiative Faculty Night "Genetic Modification is the New Reality" (nominated by students)
03/12/2017	Panel member	Professional Development Series for Graduate Students and Postdocs "Writing"
05/17/2017	Lecturer	PHYS/ECE 121A (The Practice of Science), "Science Collaboration"
02/27/2018	Lecturer	INT 95 (UCSB Academic Initiative Course for UCSB Promise Scholars) "Modern Research University"

2017-present	Member	UCSB MESA Advisory Board
05/16/2018	Lecturer	PHYS 16 (The Practice of Science), "Science Collaboration"
05/16/2018	Faculty host	UCSB Academic Initiative Faculty Night "Agree to Disagree: An Uncensored Discussion on Civil Discourse" (nominated by students)
07/23/2018	Panel member	PROWESS grantwriting workshop, Research Development
2018	Member	Academic Senate *ad hoc* committee
2018	*Member	Institute for Terahertz Science and Technology Advisory Committee
2019	Lecturer	PHYS/ECE 121A (The Practice of Science), "Science Collaboration"
2018-2020	Member	Undergraduate Affairs Committee, Dept of Chemical Engineering
2018-2020	Member	ABET Committee, Dept of Chemical Engineering
2019-2020	Member	Faculty Search Committee, Dept of Chemical Engineering
2019-2020	Member	Ad hoc Merits & Promotion Committee, Dept of Chemistry
2019	Member	CNSI Challenge Grants Review Panel
2020	Member	Ad Hoc Committee on Academic Integrity Software
2020	Member	Academic Senate Executive Director Search Committee
2020	Member	UC MEXUS-CONACYT review committee
2020	Member	ESB Building Research Ramp-up Committee
2020	Member	University Fall Contingency Planning Committee
2020	Member	University COVID-19 Task Force
2020	Member	University Research Planning Committee
2020-2021	Member	Arts & Lectures Race to Justice (RTJ) Series Advisory Committee
2020-2022	Chair	Academic Senate, University of California, Santa Barbara Division
04/14/2021	Lecturer	PHYS/ECE 121A (The Practice of Science), "Science Collaboration"
2021	Panelist	CCS Lounge (Women in Science)
2021	Presenter	College of Engineering Dean's Cabinet Meeting
2021-	Co-Chair	Chancellor's Advisory Taskforce on Childcare
2021-	Member	WASC Thematic Program Review Steering Committee
2021	Chair	UC Laboratory Fees Research Program graduate fellowship review committee
2021-2023	Member	UC Systemwide Academic Planning Council
2021-2022	Member	UC Systemwide Senate/UCOP Budget Planning Group
2021-2022	Member	Arts&Lectures Justice for All Advisory Committee
2022	Member	College of Engineering Dean Search Committee
4/26/23	Lecturer	Guest lecture, The Practice of Science (CSEP)
2023	Co-chair	Building committee, Childcare Expansion Facilities
2023	Co-chair	Project committee, Campus decarbonization study
2023	Co-chair	UC Systemwide Task Force on the Future of Doctoral Education
2023	Panel member	SSRL 50th anniversary celebration symposium, Palo Alto CA
2023	Session chair	Session on Heterogeneous Catalysis, Bluesky-Incorep Conference, Sorrento, Italy
2023	Session chair	Session on Understanding Solvation and Diffusion, North American Catalysis Society biannual meeting, Providence RI
2023	Panel member	Panel on DEI in Catalysis, SUNCAT Summer Institute, Palo Alto CA
2024	Co-organizer	Symposium on Catalysis in Plastic Recycling and Upcycling, American Chemical Society national meeting, New Orleans LA
2024	Co-organizer	Symposium on Data as the key resource in digital catalysis, International Catalysis Congress, Lyon, France
2023-24	Member	Scientific Committee, Tosoh Polymer Conference
2024-25	Track Co-lead	Catalysis for polymer synthesis, upcycling, and recycling, North American Catalysis Society Meeting (NAM29), Atlanta GA
2023-24	Member	Systemwide Senate/UCOP Budget Planning Group
	Member	Project committee for campus selection of executive architect for student housing project
2023-24	Co-chair	Turquoise door project committee
2024		UC-Hillel International Partnership for Campus Climate

Public Service (since 2003):

YEAR	POSITION	TYPE OF SERVICE

2005	Member	Science Fair Organizing Committee, Goleta Family School
2006-present	Demonstrator	Weekly math and science instruction/demonstrations, Goleta Family School and Kellogg Elementary School
2006-2007	Supervisor	Research experience for high school student, Marissa Jaffe
2009-2010	Project leader	One Laptop Per Child Pilot Project, Kellogg Elementary School
2022	Speaker	UCSB Grit Talk for Summer Research Mentorship Program and Science & Engineering Research Academy (filmed for UCTV) "Imagining a New Chemical Industry for the Energy Transition"
2023	Speaker	My Research in 60 Seconds, videoclips
4/17/24	Interview	Climate One, US Public Radio
8/14/24	Speaker	Science and Engineering Council of Santa Barbara

RESEARCH

Cumulative List of Publications:

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
1	1988	"Electron Affinities of Benzo-, Naptho- and Anthraquinones Determined from Gas-Phase Equilibria Measurements", T. Heinis, S. Chowdhury, S.L. Scott and P. Kebarle	*J. Am. Chem. Soc.* **110**, 400-407	Journal Paper
2	1989	"Effect of Steric Crowding on the Rates of Reactions of a Nickel(I) Tetraaza Macrocycle with Organic Halides and Hydroperoxides" N. Sadler, S.L. Scott, A. Bakac, J.H. Espenson and M.S. Ram	*Inorg. Chem.* **28**, 3951-3954	Journal Paper
3	1991	"Preparation and Reactivity of the Aquachromium(IV) Ion" S.L. Scott, A. Bakac and J.H. Espenson	*J. Am. Chem. Soc.* **113**, 7787-7788	Journal Paper
4	1991	"Catalytic Oxidation of the Hydroxymethyl)chromium(III) by the Superoxochromium(III) Ion" S.L. Scott, A. Bakac and J.H. Espenson	*Inorg. Chem.* **30**, 4112-4117	Journal Paper
5	1992	"Oxidation of Alcohols, Aldehydes and Carboxylates by the Aquachromium(IV) Ion" S.L. Scott, A. Bakac and J.H. Espenson	*J. Am. Chem. Soc.* **114**, 4205-4213	Journal Paper
6	1992	"Preparation and Reactivity of a Cationic Dichromium-Semiquinone Complex" S.L. Scott, A. Bakac and J.H. Espenson	*J. Am. Chem. Soc* **114**, 4605-4610	Journal Paper
7	1993	"Spectroscopic Parameters, Electrode Potentials, Acid Ionization Constants, and Electron Exchange Rates of the 2,2´-Azinobis(3-ethylbenzothioazoline-6-sulphonate) Radicals and Ions" S.L. Scott, W.-J. Chen, A. Bakac and J.H. Espenson	*J. Phys. Chem.,* **97**, 6710-6714	Journal Paper
8	1993	"Reactivity of 17-Electron Organometallic Tungsten and Molybdenum Radicals: A Laser Flash Photolysis Study" S.L. Scott, J.H. Espenson and Z. Zhu	*J. Am. Chem. Soc.* **115**, 1789-1797	Journal Paper
9	1993	"Photochemical Generation of $[Rh(dmgH)_2PPh_3]_2$ from $[CpW(CO)_3]_2$ and $XRh(dmgH)_2PPh_3$ (X = Cl, Br) with Intermediate 17-Electron Tungsten and Rhodium Radicals" S.L. Scott, J.H. Espenson and A. Bakac	*Organometallics* **12**, 1044-1047	Journal Paper
10	1993	"Electron-Transfer Reactions of 17-Electron and 19-Electron Organometallic Radicals, $CpW(CO)_3$ and $CpW(CO)_3PPh_3$" S.L. Scott, J.H. Espenson and W.-J. Chen	*Organometallics* **12**, 4077-4084	Journal Paper
11	1993	"Organometallic Chemistry as a Basis for Understanding Heterogeneous Catalysis" J.-M. Basset, S.L. Scott, A. Choplin, M. Leconte, F. Quignard, C. Santini, and A. Théolier	*Proc. NATO Adv. Wkshp "Elementary Reaction Steps in Heterogeneous Catalysis"*, Kluwer, pp. 39-49	Conference Proceed.
12	1994	"Stoichiometric and Catalytic Reactivity of Organometallic Fragments Supported on Inorganic Oxides" S.L. Scott and J.-M. Basset	*J. Mol. Catal.* **86**, 5-22	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
13	1994	"Surface Organometallic Chemistry on Oxides: Reaction of Carbon Monoxide with Bis(allyl)rhodium Grafted onto Silica, Titania and Alumina" P. Dufour, S.L. Scott, C.C. Santini, F. Lefebvre and J.-M. Basset	*Inorg. Chem.* **33**, 2509-2517	Journal Paper
14	1994	"Surface-Mediated Organometallic Synthesis of $[\equiv SiO^-][H_2Rh(PMe_3)_4^+]$: The First Example of a Cationic Organometallic Complex Attached to the Silica Surface by Ion Pairing" S.L. Scott, P. Dufour, C.C. Santini and J.-M. Basset	*J. Chem. Soc., Chem. Commun.* 2011-2012	Journal Paper
15	1994	"Coordination Chemistry on Surfaces: A New Method to Graft Rhenium(VII) Oxide on Highly Dehydroxylated Oxides" S.L. Scott and J.-M. Basset	*J. Am. Chem. Soc.* **116**, 12069-12070	Journal Paper
16	1994	"Surface Organometallic Chemistry: A Molecular Approach to Heterogeneous Catalysis" S.L. Scott, J.-M. Basset, G.P. Niccolai, C.C. Santini, J.-P. Candy, C. Lecuyer, F. Quignard and A. Choplin	*New J. Chem.* **18**, 115-122	Journal Paper
17	1995	"Interaction of Chromium(II) Complexes with Molecular Oxygen: Spectroscopic and Kinetic Evidence for η^1-Superoxo Complex Formation" A. Bakac, S.L. Scott, J.H. Espenson and K.R. Rodgers	*J. Am. Chem. Soc.* **117**, 6483-6488	Journal Paper
18	1995	"Supramolecular Approach to Metal-Support Interactions: Formation and Decarbonylation of Allyl Alcohol by an Oxide-Supported (σ-allyl)rhodium(III) Complex" S.L. Scott, C. Crippen, C.C. Santini and J.-M. Basset	*J. Chem. Soc., Chem. Commun.* 1875-1876	Journal Paper
19	1995	"Kinetics of the Reaction of Chromium(II) with Ethyliodoacetate and Iodoacetatopentaamminecobalt(III)" A.D. Jordan, S.L. Scott and R.B. Jordan	*Inorg. Chim. Acta* **239**, 99-106	Journal Paper
20	1996	"Surface Organometallic Chemistry on Oxides: Reaction of Trimethylphosphine with Bis(allyl)rhodium Grafted onto Silica" S.L. Scott, P. Dufour, C.C. Santini and J.-M. Basset	*Inorg. Chem.* **35**, 869-875	Journal Paper
21	1996	"Supramolecular Approach to Metal-Support Interactions: Reactivity of Silica-Supported Bis(allyl)rhodium(III) and the Influence of Surface Hydroxyl Groups" C.C. Santini, S.L. Scott and J.-M. Basset	*J. Mol. Catal A: Chem.* **107**, 263-271	Journal Paper
22	1997	"Characterization of Silica-supported Vanadium(V) Complexes Derived from Molecular Precursors and Their Ligand Exchange Reactions" G.L. Rice and S.L. Scott	*Langmuir* **13**, 1545-1551	Journal Paper
23	1997	"Reactions of Tetraalkylchromium(IV) with Silica: Mechanism of Grafting and Characterization of Surface Organometallic Complexes" J. Amor Nait Ajjou and S.L. Scott	*Organometallics* **16**, 86-92	Journal Paper
24	1997	"Site-specific Oxygen-18 Labelling of Silica-supported Vanadium(V) Complexes: Implications for Oxidation Catalysis" G.L. Rice and S.L. Scott	*J. Mol. Catal A: Chem.* **125**, 73-79	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
25	1998	"Nonhydrolytic Surface Synthesis of a Heterobimetallic V-Ti Alkoxide Complex on Silica" G.L. Rice and S.L. Scott	*Chem. Mater.* **10**, 620-625	Journal Paper
21	1996	"Supramolecular Approach to Metal-Support Interactions: Reactivity of Silica-Supported Bis(allyl)rhodium(III) and the Influence of Surface Hydroxyl Groups" C.C. Santini, S.L. Scott and J.-M. Basset	*J. Mol. Catal A: Chem.* **107**, 263-271	Journal Paper
22	1997	"Characterization of Silica-supported Vanadium(V) Complexes Derived from Molecular Precursors and Their Ligand Exchange Reactions" G.L. Rice and S.L. Scott	*Langmuir* **13**, 1545-1551	Journal Paper
23	1997	"Reactions of Tetraalkylchromium(IV) with Silica: Mechanism of Grafting and Characterization of Surface Organometallic Complexes" J. Amor Nait Ajjou and S.L. Scott	*Organometallics* **16**, 86-92	Journal Paper
24	1997	"Site-specific Oxygen-18 Labelling of Silica-supported Vanadium(V) Complexes: Implications for Oxidation Catalysis" G.L. Rice and S.L. Scott	*J. Mol. Catal A: Chem.* **125**, 73-79	Journal Paper
25	1998	"Nonhydrolytic Surface Synthesis of a Heterobimetallic V-Ti Alkoxide Complex on Silica" G.L. Rice and S.L. Scott	*Chem. Mater.* **10**, 620-625	Journal Paper
26	1998	"Synthesis and Characterization of Silica-Stabilized Chromium(IV) Alkylidene Complexes" J. Amor Nait Ajjou, S.L. Scott and V. Paquet	*J. Am. Chem. Soc.* **120**, 415-416	Journal Paper
27	1998	"Ligand Exchange and Oxidative Addition on a Silica-Supported Rhodium Complex, *trans*-[(≡SiO)Rh(PMe_3)$_2$(CO)]" S.L. Scott, M. Szpakowicz, A. Mills and C.C. Santini	*J. Am. Chem. Soc.* **120**, 1883-1890	Journal Paper
28	1998	"Kinetics and Mechanisms of Thermally Induced Alkane Eliminations from Silica-supported Bis(alkyl)chromium(IV) and -vanadium(IV) Complexes" J. Amor Nait Ajjou, G.L. Rice and S.L. Scott	*J. Am. Chem. Soc.* **120**,13436-13443	Journal Paper
29	1999	"Mono- and Dinuclear Silica-Supported Titanium(IV) Complexes and the Effect of TiOTi Connectivity on Reactivity" A.O. Bouh, G.L. Rice and S.L. Scott	*J. Am. Chem. Soc.* **121**, 7201-7210	Journal Paper
30	2000	"Reduction of the Aqueous Mercuric Ion by Sulfite: UV Spectrum of $HgSO_3$ and Its Intramolecular Redox Reaction" L. Van Loon, E. Mader and S.L. Scott	*J. Phys. Chem. A* **104**,1621-1626	Journal Paper
31	2000	"Modification of Silica Surfaces by Metallasiloxanes Containing Mo and Ti: Evidence for Concurrent Metal and Ligand Chemisorption" C. Roveda, T.L. Church, H. Alper and S.L. Scott	*Chem. Mater.* **12**, 857-862	Journal Paper
32	2000	"A Kinetic Study of Ethylene and 1-Hexene Homo- and Copolymerization Catalyzed by a Silica- Supported Cr(IV) Complex: Evidence for Propagation by a Migratory Insertion Mechanism" J. Amor Nait Ajjou and S.L. Scott	*J. Am. Chem. Soc.* **122**, 8968-8976	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
33	2001	"Reaction of $NiBr_2$(DME) with 2-pyridinal-methyl-N-2,6-diisopropylphenylimine. The First Crystal Structure of an α-Diimine Nickel(II) Complex of the NiL_2X_2 Type" F. Li, G.P.A. Yap, S.L. Scott and S.I. Woo	*Trans. Met. Chem.* **26**, 271-275	Journal Paper
34	2001	"Spontaneous Evolution of Silica-Supported Ti Amide Fragments to Imine and Imido Complexes" M. Beaudoin and S.L. Scott	*Organometallics* **20**, 237-239	Journal Paper
35	2001	"Surface Organometallic Investigation of the Mechanism of Ethylene Polymerization by Silica-supported Cr Catalysts" S.L. Scott and J. Amor Nait Ajjou	*Chem. Eng. Sci.* **56**, 4155-4168	Journal Paper
36	2001	"Sulfite Stabilization and Reduction of the Aqueous Mercuric Ion: Kinetic Determination of Sequential Formation Constants" L.L. Van Loon, E.A. Mader and S.L. Scott	*J. Phys. Chem. A* **105**, 3190-3195	Journal Paper
37	2001	"Preparation of New Catalysts by the Immobilization of Palladium(II) Species onto Silica: An Investigation of Their Catalytic Activity for the Cyclization of Aminoalkynes" M.K. Richmond, S.L. Scott and H. Alper	*J. Am. Chem. Soc.* **123**, 10521-10525	Journal Paper
38	2002	"Silica-supported Alkylidene Complexes: Their Preparation, Characterization and Reactivity, Especially towards Olefins" M.C. Beaudoin, O. Womiloju, A. Fu, J. Amor Nait Ajjou, G.L. Rice and S.L. Scott	*J. Mol. Catal. A: Chem.,* **190**, 159-169	Journal Paper
39	2002	"Preparation of Dinuclear Phosphine-bridged Palladium(II) Species and their Silica-Bound Analogues as Catalysts for the Cyclization of Aminoalkynes" M.K. Richmond, S.L. Scott, G.P.A. Yap, and H. Alper	*Organometallics,* **21**, 3395-3400	Journal Paper
40	2002	"Thermolysis of Silica-supported Bis(neopentyl) Complexes of Titanium and Zirconium" T. Alladin, M.C. Beaudoin and S.L. Scott (Schrock special issue)	*Inorg. Chim. Acta* **345**, 292-298	Journal Paper
41	2002	"Kinetics and Mechanism of Nitrite Oxidation by HOBr/BrO^- in Atmospheric Water and Comparison with Oxidation by HOCl/ClO^-" N. Lahoutifard, P. Lagrange, J. Lagrange and S.L. Scott	*J. Phys. Chem. A,* **106**, 11891-11896	Journal Paper
42	2002	"Stoichiometry and Kinetics of Gas Phase Cyclohexene Epoxidation by a Silica-supported tert-Butylperoxodititanium Complex" A.O. Bouh and S.L. Scott	*Catal. Org. React.,* **89**, 537-543	Book chapter
43	2003	"Nanostructured Catalysts" S.L. Scott, C.M. Crudden and C.W. Jones, Eds.	*Nanostructure Science and Technology,* Vol 3, Kluwer: New York	Edited book
44	2003	"Multifunctional Active Sites on Silica Surfaces by Grafting of Metal Complexes" S.L. Scott and E.W. Deguns	"Nanostructured Catalysts" Kluwer: New York, pp. 1-14	Book chapter

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
45	2003	"Heterogeneous Scavenging of Atmospheric Mercury by Snow Spiked with Hydrogen Peroxide" N. Lahoutifard, L. Poissant and S.L. Scott	*J. Phys. IV Fr.* **107**, 711-714	Journal Paper
46	2003	"Homogeneous and Heterogeneous Reactions of Atmospheric Mercury(II) and Sulfur(IV)" S.L. Scott, H. Yusuf, N. Lahoutifard and K. Maunder	*J. Phys. IV Fr.* **107**, 1201-1204	Journal Paper
47	2003	"Silica-supported Rhodium Hydrides Stabilized by Triisopropylphosphine" S.L. Scott, A. Mills, C. Chao, J.-M. Basset, N. Millot and C.C. Santini	*J. Mol. Catal. A: Chem.* **204-205**, 457-463	Journal Paper
48	2003	"Olefin Epoxidation Catalyzed by an Air Stable-Supported Titanium Catalyst" S. Sensarma, A.O. Bouh, S.L. Scott and H. Alper	*J. Mol. Catal. A: Chem.*, **203**, 145-152	Journal Paper
49	2003	Abiotic Methylation of Environmental Mercury" S.L. Scott and V. Celo	*Prepr. Ext. Abstr. ACS Natl. Meet.*, **43**, 625-627	Conference Proceed.
50	2004	"Rates and Mechanisms of Mercury Methylation by Methyltin Compounds in the Aquatic Environment" V. Celo, S.L. Scott and D.R.S. Lean	*RMZ-Mater. Geoenviron.* **51**, 919-922	Conference Proceed.
51	2004	"Artifact Formation of Methylmercury During Solid-Phase Extraction of Water Samples Using Sulfhydryl Cotton Fiber Adsorbent" V. Celo, R.V. Ananth, S.L. Scott and D.R.S. Lean	*Enviro*Analysis *2004*	Conference Proceed.
52	2004	"Methylmercury Artifact Formation during Solid-Phase Extraction of Water Samples Using Sulfhydryl Cotton Fiber Adsorbent" V. Celo, R.V. Ananth, S.L. Scott, and D.R.S. Lean	*Anal. Chim. Acta* **516**, 171-177	Journal Paper
53	2004	"Dissociation of Acetaldehyde and β-Mo_2C to Yield Ethylidene and Oxo Surface Groups: A Possible Pathway for Active Site Formation in Heterogeneous Olefin Metathesis" M. Siaj, C. Reed, S.T. Oyama, S.L. Scott and P.H. McBreen	*J. Am. Chem. Soc.* **126**, 9514-9515	Journal Paper
54	2004	"Reply to "Comment on "Kinetics And Mechanism of Nitrite Oxidation by HOBr/BrO^- in Atmospheric Water and Comparison with Oxidation by HOCl/OCl^-"""" N. Lahoutifard and S.L. Scott	*J. Phys. Chem. A* **108**, 10617-10618	Journal Paper
55	2004	"Abiotic Methylation of Mercury in the Aquatic Environment" V. Celo, S.L. Scott and D.R.S. Lean	*RMZ-Mater. Geoenviron.* **51**, 915-918	Conference Proceed.
56	2005	"An X-ray Absorption Study of Two $VOCl_3$-Modified Silicas: Evidence for Chloride-Silica Interactions" E.W. Deguns, Z. Taha, G.D. Meitzner and S.L. Scott	*J. Phys. Chem. B* **109**, 5005-5011	Journal Paper
57	2005	"Preparation and Activity of a V-Ti/Silica Catalyst for Olefin Epoxidation" S.L. Scott and A. Hassan	*Catal. Org. React.,* **104**, 423-427	Book chapter

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
58	2005	"An Investigation of Catalyst/Cocatalyst/Support Interactions in Silica-supported Olefin Polymerization Catalysts Based on Cp*$TiMe_3$" S.L. Scott, T.L. Church, D.H. Nguyen, E.A. Mader and J. Moran	*Topics Catal.* **34**, 109-120	Journal Paper
59	2005	"The Effect of Cryogenic Sample Cooling on X-ray Absorption Spectra" G. Meitzner, J. Gardea-Torresdey, J. Parsons, S.L. Scott and E. Deguns	*Microchem. J.* **81**, 61-68	Journal Paper
60	2005	"Kinetics and Mechanism of the Hg(II)-Assisted Hydrolysis of Methyl Iodide" V. Celo and S.L. Scott	*Inorg. Chem.* **44**, 2507-2512	Journal Paper
61	2006	"Scavenging of Gaseous Mercury by Acidic Snow at Kuujjuarapik, Northern Québec" N. Lahoutifard, L. Poissant and S.L. Scott	*Sci. Total Environ.* **355**, 118-126	Journal Paper
62	2006	"Formation of Digallium Sites in the Reaction of Trimethylgallium with Silica" Z. A. Taha, E. W. Deguns, S. Chattopadhyay and S.L. Scott	*Organometallics* **25**, 1891-1899	Journal Paper
63	2006	"Methytrioxorhenium Interactions with Lewis Acid Sites of an Amorphous Silica-Alumina" A.W. Moses, N.A. Ramsahye, C. Raab, H.D. Leifeste, S. Chattopadhyay, B.F. Chmelka, J. Eckert and S.L. Scott	*Organometallics* **25**, 2157-2165	Journal Paper
64	2006	"Photochemical Reduction and Reoxidation of Aqueous Mercuric Chloride in the Presence of Ferrioxalate and Air" F. A. Ababneh, S.L. Scott, H. A. Al-Reasi and D.R.S. Lean	*Sci. Total Environ.* **367**, 831-839	Journal Paper
65	2006	"Abiotic Methylation of Mercury in the Aquatic Environment" V. Celo, D.R.S. Lean and S.L. Scott	*Sci. Total Environ.* **368**, 126-137	Journal Paper
66	2007	"Supported Re Catalysts for the Metathesis of Functionalized Olefins" A.W. Moses, H.D. Leifeste, N. Ramsahye, J. Eckert, S.L. Scott	*Catal. Org. React.* **115**, pp. 13-22	Book chapter
67	2007	"$BaCe_{1-x}Pd_xO_{3-\delta}$ ($0 \le x \le 0.1$): Redox-controlled Ingress and Egress of Palladium in a Perovskite" J. Li, U.G. Singh, J.W. Bennett, K. Page, J. Weaver, J.-P. Zhang, T. Proffen, A.M. Rappe, S.L. Scott, R. Seshadri	*Chem. Mater.* **19**, 1418-1426	Journal Paper
68	2007	"A Pd-doped Perovskite Catalyst, $BaCe_{1-x}Pd_xO_{3-\delta}$, for CO Oxidation" U.G. Singh, J. Li, J.W. Bennett, A.M. Rappe, R. Seshadri, S.L. Scott	*J. Catal.* **249**, 349-358	Journal Paper
69	2007	"Spectroscopically Distinct Sites Present in Methyltrioxorhenium Grafted onto Silica-Alumina, and their Abilities to Initiate Olefin Metathesis" A.W. Moses, C. Raab, R.C. Nelson, H.D. Leifeste, N.A. Ramsahye, S. Chattopadhyay, J. Eckert, B.F. Chmelka, S.L. Scott	*J. Am. Chem. Soc.* **129**, 8912-8920	Journal Paper
70	2007	"Catalytic Transformation of Seed Oil Derivatives via Olefin Metathesis" S.L. Scott	*Helia* **30**, 133-142	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
71	2007	"First-principles modeling of $BaCeO_3$: Structure and stabilization of O vacancies by Pd-doping" J.W. Bennett, R. Seshadri, S.L. Scott, A.M. Rappe arXiv:0707.3220v1	*Los Alamos Natl. Lab., Prepr. Arch., Condens. Matter* 1-6	Web Archive
72	2008	"Spectroscopy in Catalysis: An Introduction, Third Completely Revised and Enlarged Edition, by J. W. Niemantsverdriet" S.L. Scott	*J. Am. Chem. Soc.* **130**, 383	Book Review
73	2008	"Catalytic Ring Expansion, Contraction, and Metathesis-Polymerization of Cycloalkanes" R. Ahuja, S. Kundu, A.S. Goldman, M. Brookhart, B.C. Vicente, S.L. Scott	*Chem. Commun.* 253-255	Journal Paper
74	2008	"Nature of $\equiv SiOCrO_2Cl$ and $(\equiv SiO)_2CrO_2$ Sites Prepared by Grafting CrO_2Cl_2 onto Silica" C.A. Demmelmaier, R.E. White, J.A. van Bokhoven, S.L. Scott	*J. Phys. Chem. C* **112**, 6439-6449	Journal Paper
75	2008	"Effect of Silica Type and Grafting Method on the Reactivity of Tetraneopentylchromium(IV) towards and on Silica" S.L. Scott, A. Fu, L.A. MacAdams (Angelici Special issue)	*Inorg. Chim. Acta* **361**, 3315-3321	Journal Paper
76	2008	"IR Spectroscopic Investigation of *cis*-$(CH_3)_2Au(O,O'$-acac) and *cis*-$(CD_3)_2Au(O,O'$-acac)" M. Hisamoto, S.L. Scott	*Spectrochim. Acta A* **71**, 969-974	Journal Paper
77	2008	"Reciprocal Space and Real-Space Neutron Investigation of Nanostructured Mo_2C and WC" K. Page, J. Li, R. Savinelli, H.N. Szumila, J. Zhang, J.K. Stalick, T. Proffen, S.L. Scott, R. Seshadri	*Solid State Sci.* **10**, 1499-1510	Journal Paper
78	2008	"Highly Dispersed Clay-Polyolefin Nanocomposites Free of Compatibilisers, via the *In Situ* Polymerization of α-Olefins by Clay-Supported Catalysts" S.L. Scott, B.C. Peoples, C. Yung, R.S. Rojas, V. Khanna, H. Sano, T. Suzuki, F. Shimizu	*Chem. Commun.* 4186-4188	Journal Paper
79	2008	Hexagonal $YFe_{1-x}Pd_xO_3$: Non-perovskite Host Compounds for Pd^{2+} and Their Catalytic Activity for CO Oxidation J. Li, U. G. Singh, T. D. Schladt, J. K. Stalick, S. L. Scott, R. Seshadri	*Chem. Mater.* **20**, 6567-6576	Journal Paper
80	2009	"A Highly Active and Reusable Catalyst for Suzuki Coupling: $BaCe_{1-x}Pd_xO_{3-x}$ ($0 < x \leq 0.1$)" X. Ouyang, J. Li, R. Seshadri and S.L. Scott	*Catal. Org. React.* **123**, 233-241	Book chapter
81	2009	"Solid-State Spectroscopic and Structural Investigation of *cis*-$(CH_3)_2Au(O,O'$-acac)" M. Hisamoto, S. Chattopadhyay, J. Eckert, G. Wu, S.L. Scott	*J. Chem. Crystallogr.* **39**, 173-177	Journal Paper
82	2009	"Evidence for a Chromasiloxane Ring Size Effect in Phillips (Cr/SiO_2) Polymerization Catalysts" C.A. Demmelmaier, R.E. White, J.A. van Bokhoven, S.L. Scott	*J. Catal.* **262**, 44-56	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
83	2009	"Highly Active and Recyclable Heterogeneous Iridium Pincer Catalysts for Transfer Dehydrogenation of Alkanes" Z. Huang, M. Brookhart, A.S. Goldman, S. Kundu, A. Ray, S. L. Scott, B.C. Vicente Featured in *SYNFACTS*, 2009, **4**, 453	*Adv. Synth. Catal.* **351**, 188-206	Journal Paper
84	2009	"Mode of Adsorption of $(CH_3)_2Au(acac)$ onto Partially-Dehydroxylated Silica" M. Hisamoto, R.C. Nelson, M.-Y. Lee, J. Eckert, S.L. Scott	*J. Phys. Chem. C* **113**, 8794-8805	Journal Paper
85	2009	"CO Oxidation Catalyzed by Pd-doped $BaCeO_3$: Coexistence of Langmuir-Hinshelwood and $BaCeO_3$-mediated Mechanisms" X. Ouyang, S.L. Scott	*Mater. Res. Soc. Symp. Proc.* **1217**-Y02-05	Conf. Proceed.
86	2010	"La_4LiAuO_8 and La_2BaPdO_5: Comparing Two Highly Stable d^8 Square-planar Oxides" J.A. Kurzman, X. Ouyang, W.B. Im, J. Li, J. Hu, S.L. Scott, R. Seshadri	*Inorg. Chem.* **49**, 4670-4680	Journal Paper
87	2010	"Electronic structure of alumina-supported monometallic Pt and bimetallic PtSn catalysts under hydrogen and carbon monoxide environment" J.Singh, R.C. Nelson, B.C. Vicente, S.L. Scott, J.A. van Bokhoven	*Phys. Chem. Chem. Phys.* **12**, 5668-5677	Journal Paper
88	2010	"Wavelet transform EXAFS analysis of mono- and dimolybdate model compounds and a Mo/HZSM-5 dehydroaromatization catalyst" R.O. Savinelli, S.L. Scott	*Phys. Chem. Chem. Phys.* **12**, 5660-5667	Journal Paper
89	2010	"Bifunctional Solid Catalysts for the Selective Conversion of Fructose to 5-Hydroxymethylfurfural" A.J. Crisci, M.H. Tucker, J.A. Dumesic, S.L. Scott	*Topics Catal.* **53**, 1185-1192	Journal Paper
90	2010	"CO Oxidation Catalyzed by Pd-doped $BaCeO_3$: Coexistence of Langmuir-Hinshelwood and $BaCeO_3$-mediated Mechanisms" X. Ouyang, S.L. Scott	*J. Catal.* **273**, 83-91	Journal Paper
91	2010	"Catalytic Disassembly of an Organosolv Lignin via Hydrogen Transfer from Supercritical Methanol" K. Barta, T.D. Matson, M.L. Fettig, S. Scott, A.V. Iretskii, P.C. Ford	*Green Chem.* **12**, 1640-1647	Journal Paper
92	2011	"Electronic structures of supported Pt and PtSn nanoparticles in the presence of adsorbates and during CO oxidation" B.C. Vicente, R.C. Nelson, J. Singh, S.L. Scott, J.A. van Bokhoven	*Catal. Today* **160**, 137-143	Journal Paper
93	2011	"Clay-Polyolefin Nanocomposites by *In Situ* Polymerization", in Advances in Polyolefin Nanocomposites, V. Mittal, Ed. S.L. Scott	*Taylor-Francis* pp. 129-184	Book Chapter
94	2011	"Spectroscopic Evidence for Extra-Framework Heterometallic Oxo-Clusters in Fe/Ga-ZSM-5 Catalysts" H. Xia, S.D. Fleischman, C. Li, S.L. Scott	*J. Phys. Chem. Lett.* **2**, 190-195	Journal Paper
95	2011	"Evidence for the Non-random Distribution of Grafting Sites on Highly Dehydroxylated Silicas, via their Reactions with $Ga(CH_3)_3$" S.D. Fleischman, S.L. Scott Featured on the journal cover, 06/04/2011	*J. Am. Chem. Soc.* **133**, 4847-4855	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
96	2011	"Quantitative Investigation of a Hybrid Ziegler-Natta Catalyst Support, Prepared by Grafting Di(*n*-butyl)magnesium onto Partially-Dehydroxylated Silica" M.-Y. Lee, S.L. Scott	*Chem. Eur. J.* **17**, 4632-4639	Journal Paper
97	2011	"Reactions of Phosphinites with Oxide Surfaces: A New Method for Anchoring Organic and Organometallic Complexes" B.C. Vicente, Z. Huang, M. Brookhart, A.S. Goldman, S. L. Scott Featured on the RSC Blog, 06/04/2011	*Dalton Trans.* **40**, 4268 – 4274	Journal Paper
98	2011	"Linear, High Molecular Weight Polyethylene from a Discrete, Mononuclear Phosphinoarenesulfonate Complex of Nickel" P. Perrotin, J.S.J. McCahill, G. Wu, S.L. Scott	*Chem. Commun.* 6948-6950	Journal Paper
99	2011	"Interactions Involving Lewis Acidic Aluminum Sites in Oxide-Supported Perrhenate Catalysts" B.C. Vicente, R.C. Nelson, A.W. Moses, S. Chattopadhyay, S.L. Scott	*J. Phys. Chem. C* **115**, 9012-9024	Journal Paper
100	2011	"Functionalized periodic mesoporous silica catalysts for the selective dehydration of carbohydrates" A.J. Crisci, M.H. Tucker, J.A. Dumesic, S.L. Scott	*Prepr. – Am. Chem. Soc., Div. Petr. Chem.* **56**, 148-149	Conf. Proceed.
101	2011	"Acid-Functionalized SBA-15-Type Silica Catalysts for Carbohydrate Dehydration" A.J. Crisci, M.H. Tucker, S. Jang, J.A. Dumesic, S.L. Scott	*ACS Catal.* **1**, 719-728	Journal Paper
102	2011	"Pd^{2+}/Pd^{0} Redox Cycling in Hexagonal $YFe_{0.5}Mn_{0.5}O_3$: Implications for Catalysis by PGM-substituted Complex Oxides" J. Kurzman, J. Li, T. Schladt, C. Parra, X. Ouyang, R. Davis, J. Miller, S.L. Scott, R. Seshadri	*Inorg. Chem.* **50**, 8073-8084	Journal Paper
103	2011	"Clay-Catalyzed Cracking Leads to Suppressed Flammability in Clay-Polyolefin Nanocomposites" B.M. Kunkel, B.C. Peoples, C.M. Yung, S.L. Scott	*Macromol. Eng.* **296**, 1075-1080	Journal Paper
104	2012	"Borane-Induced Dehydration of Silica, and the Ensuing Water-Catalyzed Grafting of $B(C_6F_5)_3$" Y.-J. Wanglee, J. Hu, R.E. White, M.-Y. Lee, S.M. Stewart, P. Perrotin, S.L. Scott	*J. Am. Chem. Soc.* **134**, 355-366	Journal Paper
105	2012	"Two-step synthesis of Fe_2O_3 and Co_3O_4 nanoparticles: Towards a general method for synthesizing nanocrystalline metal oxides with high surface area and thermal stability" J. Zhu, X. Ouyang, M.-Y. Lee, R.C. Davis, S.L. Scott, A. Thomas	*RSC Advances* **2**, 121-124	Journal Paper
106	2012	"Origin of the $ZnCl_2$ Effect on CH_3ReO_3/γ-Al_2O_3 in Olefin Metathesis" T.M. Tovar, S.M. Stewart, S.L. Scott	*Top. Catal.* **55**, 530-537	Journal Paper
107	2012	"Spectroscopic and structural characterization of the $Cr(II)/SiO_2$ active site precursors in a model Phillips catalyst" L. Zhong, M.-Y. Lee, Z. Liu, Y.-J. Wanglee, B. Liu, S.L. Scott	*J. Catal.* **293**, 1-12	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
108	2012	"Acid-Functionalized SBA-15-Type Periodic Mesoporous Organosilicas and their Use in the Continuous Production of 5-Hydroxymethylfurfural" M.H. Tucker, A.J. Crisci, B. Wigington, N. Phadke, R. Alamillo, J. Zhang, S.L. Scott, J.A. Dumesic featured on the journal cover	*ACS Catal.* **2**, 1865-1876	Journal Paper
109	2012	"A Biomimetic Pathway for Vanadium-Catalyzed Aerobic Oxidation: Evidence for Intermolecular Base-assisted Dehydrogenation" B.N. Wigington, M.L. Drummond, T.R. Cundari, D.L. Thorn, S.K. Hanson, S.L. Scott	*Chem. Eur. J. 18*, 14981-14988	Journal Paper
110	2013	"Direct Conversion of Methane by Dehydroaromatization: Progress and Prospects" S. Ma, X. Guo, L. Zhao, S. Scott, X. Bao	*J. Energy Chem. 22*, 1-20	Journal Paper
111	2013	"Sustainable solvent systems for use in tandem carbohydrate dehydration-hydrogenation" M.H. Tucker; R. Alamillo; A.J. Crisci; G. Gonzalez; S.L. Scott; J.A. Dumesic	*ACS Sustainable Chem. Eng.* **1**, 554-560	Journal Paper
112	2013	"Niobium-silica catalysts for the selective epoxidation of cyclic alkenes: the generation of the active site by grafting niobocene dichloride" C. Tiozzo, C. Bisio, Fabio Carniato, A. Gallo, S.L. Scott, R. Psaro, M. Guidotti	*Phys. Chem. Chem. Phys.* **15**, 13354-13362	Journal Paper
113	2013	"Phillips Cr/silica catalyst for ethylene polymerization", in Polyolefins: 50 Years after Ziegler and Natta R. Cheng, Z. Liu, L. Zhong, X. He, P. Qiu, M. Terano, M.S. Eisen, S.L. Scott, B. Liu	*Adv. Polym. Sci.* **257**, 135-202	Book Chapter
114	2013	"Amine Catalyzed Atomic Layer Deposition of (3-Mercaptopropyl)trimethoxysilane for the Production of Heterogeneous Sulfonic Acid Catalysts" D. Jackson, D. Wang, J.M. Gallo, A. Crisci, S. Scott, J. Dumesic, T. Kuech	*Chem. Mater.* **25**, 3844–3851	Journal Paper
115	2013	"A Tailored Microenvironment for Catalytic Biomass Conversion in Inorganic-Organic Nanoreactors" R. Alamillo, A.J. Crisci, J. M. Gallo, S.L. Scott, J.A. Dumesic Featured on the journal cover	*Angew. Chem. Int. Ed.* **52**, 10349-10351	Journal Paper
116	2013	"Stabilization by Atomic Layer Deposition of Copper Catalysts for Liquid Phase Reactions" B.J. O'Neill, D.H.K. Jackson, A.J. Crisci, C.A. Farberow, F. Shi, J. Lu, P.J. Dietrich, X. Gu, C.L. Marshall, P.C. Stair, J.W. Elam, J.T. Miller, F.H. Ribeiro, P.M. Voyles, J. Greeley, M. Mavrikakis, S.L. Scott, T.F. Kuech, J.A. Dumesic Designated VIP contribution and featured on the journal cover	*Angew. Chem. Int. Ed.,* **52**, 13808-13812	Journal Paper
117	2013	"Water-Catalyzed Activation of H_2O_2 by Methyltrioxorhenium: A Combined Computational-Experimental Study" T. Hwang; B.R. Goldsmith; B. Peters; S.L. Scott	*Inorg. Chem* **52**, 13904-13917	Journal Paper
118	2014	"Mechanism of NO Reduction by CO over Pt/SBA-15" P. Xiao, R.C. Davis, X. Ouyang, J. Li, A. Thomas, S.L. Scott, J. Zhu	*Catal. Commun.* **50**, 69-72	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
119	2014	"Chromium catalysts for ethylene polymerization and oligomerization" Z. Liu, X. He, R. Cheng, M.S. Eisen, M. Terano, S.L. Scott, B. Liu	*Adv. Chem. Eng.* **44**, 127-191	Book Chapter
120	2014	"Tandem Catalytic Conversion of Glucose to 5-Hydroxymethylfurfural with an Immobilized Enzyme and a Solid Acid" H. Huang, C.A. Denard, R. Alamillo, A.J. Crisci, Y. Miao, J.A. Dumesic, S.L. Scott, H. Zhao	*ACS Catal.* **4**, 2165-2168	Journal Paper
121	2015	"Ir-Re Alloy as a Highly Active Catalyst for the Hydrogenolysis of Glycerol to 1,2-Propanediol" C. Deng, X. Duan, J. Zhou, X. Zhou, W. Yuan, S.L. Scott **DOI:** 10.1039/C4CY01285B	*Catal. Sci. Technol.* **5**, 1540-1547	Journal Paper
122	2015	"Single Atom Catalysts on Amorphous Supports: A Quenched Disorder Perspective" B. Peters, S.L. Scott **DOI:** 10.1063/1.4914145	*J. Chem. Phys.* **142**, 104708	Journal Paper
123	2015	"Computational Kinetic Discrimination of Ethylene Polymerization Mechanisms for the Phillips (Cr/SiO_2) Catalyst" A. Fong, Y. Yuan, S.L. Ivry, S.L. Scott, B. Peters **DOI:** 10.1021/acscatal.5b00016	*ACS Catal.* **5**, 3360-3374	Journal Paper
124	2015	"Rate-Enhancing Roles of Water Molecules in Methyltrioxorhenium-Catalyzed Olefin Epoxidation by Hydrogen Peroxide" B. Goldsmith, T. Hwang, S. Seritan, B. Peters, S.L. Scott **DOI:** 10.1021/jacs.5b03750	*J. Am. Chem. Soc.* **137**, 9604-9616	Journal Paper
125	2015	"Mapping reactivities of aromatic models with a lignin disassembly catalyst. Steps toward controlling product selectivity" C.M. Bernt, G. Bottari, J.A. Barrett, S.L. Scott, K. Barta, P.C. Ford **DOI:** 10.1039/C5CY01555C	*Catal. Sci. Technol.* **6**, 2984-2994	Journal Paper
126	2015	"Mechanism of Initiation in the Phillips' Ethylene Polymerization Catalyst: Redox Processes Leading to the Active Site" C. Brown, J. Krzystek, R. Achey, R. Fu, R. Meulenberg, M. Polinski, N. Peek, Y. Wang, L. van de Burgt, S. Profeta, A.E. Stiegman, S.L. Scott **DOI:** 10.1021/acscatal.5b00927	*ACS Catal.* **5**, 5574-5583	Journal Paper
127	2015	"Re-examining the evidence for proton transfers in ethylene polymerization" B. Peters, S.L. Scott, A. Fong, Y. Wang, A.E. Stiegman **DOI**: 10.1073/pnas.1422589112	*Proc. Natl. Acad. Sci. USA* **112**, E4160-E4161	Letter (peer-reviewed)
128	2015	"A Cu_{25} Nanocluster with Metallic Copper Character" T.D. Nguyen, Z.R. Jones, B.R. Goldsmith, W.R. Buratto, G. Wu, B. Peters, S.L. Scott, T.W. Hayton **DOI:** 10.1021/jacs.5b07574	*J. Am. Chem. Soc.* **137**, 13319-13324	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
129	2015	"Selective Grafting of $Ga(i\text{-}Bu)_3$ on Mesoporous H-ZSM-5 by Surface Organometallic Chemistry for Catalytic Propane Aromatization" K.C. Szeto, A. Gallo, S. Hernández-Morejudo, U. Olsbye, F. Lefebvre, L. Delevoye, R.M. Gauvin, S.L. Scott, M. Taoufik **DOI:** 10.1021/acs.jpcc.5b09289	*J. Phys. Chem. C* **119**, 26611-26619	Journal Paper
130	2016	"Toward Benchmarking in Catalysis Science: Best Practices, Challenges, and Opportunities" T. Bligaard, R.M. Bullock, C.T. Campbell, J.G. Chen, B.C. Gates, R.J. Gorte, C.W. Jones, W.D. Jones, J.R. Kitchin, S.L. Scott **DOI:** 10.1021/acscatal.6b00183 Featured in *Nature* **2016**, *537*, 156–158 DOI:10.1038/537156a	*ACS Catal.* **6**, 2590-2602	Journal Paper
131	2016	"Rapid Extraction of Quantitative Kinetic Information from Variable-Temperature Reaction Profiles" D.C. Coller, B.C. Vicente, S.L. Scott **DOI:**10.1016/j.cej.2016.05.136	*Chem. Eng. J.* **303**, 183-192	Journal Paper
132	2016	"Ligand-Exchange-Induced Growth of an Atomically Precise Cu_{29} Nanocluster from a Smaller Cluster" T.D. Nguyen, Z.R. Jones, D.F. Leto, G. Wu, S.L. Scott, T.W. Hayton **DOI:** 10.1021/acs.chemmater.6b03879	*Chem. Mater.* **28**, 8385-8390	Journal Paper
133	2016	"Ligand Exchange-Mediated Activation and Stabilization of a Re-based Olefin Metathesis Catalyst by chlorinated alumina" A. Gallo, A. Fong, K.C. Szeto, J. Rieb, L. Delevoye, R.M. Gauvin, M. Taoufik, B. Peters, S.L. Scott **DOI:** 10.1021/jacs.6b06953	*J. Am. Chem. Soc.* **138**, 12935-12947	Journal Paper
134	2016	"One-Electron Redox activation of the Reduced Phillips Polymerization Catalyst via Alkylchromium(IV) Homolysis: A Computational Assessment" A. Fong, B. Peters, S.L. Scott **DOI:** 10.1021/acscatal.6b01728	*ACS Catal.* **6**, 8286-8307	Journal Paper
135	2016	"Phenomena Affecting Catalytic Reactions at Solid-Liquid Interfaces" C. Sievers, Y. Noda, L. Qi, E.M. Albuquerque, R.M. Rioux, S.L. Scott **DOI:** 10.1021/acscatal.6b02532	*ACS Catal.* **6**, 8286-8307	Journal paper
136	2017	"*Operando* Solid-state NMR Observation of Solvent-Mediated Adsorption-Reaction of Carbohydrates in Zeolites" L. Qi, R. Alamillo, W.A. Elliott, A. Andersen, D.W. Hoyt, E.D. Walter, K.S. Han, N.M. Washton, R.M. Rioux, J.A. Dumesic, S.L. Scott **DOI:** 10.1021/acscatal.7b01045	*ACS Catal.* **7**, 3489–3500	Journal Paper
137	2017	"Mechanism of Initiation in the Phillips Ethylene Polymerization Catalyst: Ethylene Activation by Cr(II) and the Structure of the Resulting Active Site" C. Brown, A. Lita, M. Crosswhite, Y. Tao, M. Mileham, J. Krzystek, R. Achey, R. Fu, M. Polinski, N. Peek, Y. Wang, L. van de Burgt, S. Profeta, A.E. Stiegman, S.L. Scott **DOI:** 10.1021/acscatal.7b02677	*ACS Catal.* **7**, 7442-7455	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
138	2017	"Beyond Ordered Materials: Understanding Catalytic Sites on Amorphous Solids" B.R. Goldsmith, B. Peters, J.K. Johnson, B.C. Gates, S.L. Scott	*ACS Catal.* **7**, 7543-7557	Journal Paper
139	2018	"An Organometallic Cu_{20} Superatom Featuring a $[Cu_4]^{2+}$ Tetrahedral Core: Synthesis, Immobilization on Silica, Characterization, and Catalysis" A.W. Cook, Z. Jones, G. Wu, S.L. Scott, T.W. Hayton	*J. Am. Chem. Soc.* **140**, 394-400	Journal Paper
140	2017	"Superlative Scientific Writing" S.L. Scott, C.W. Jones	*ACS Catal.* **7**, 2218-2219	Editorial
141	2018	"Computational Support for Phillips Catalyst Initiation via Cr-C Bond Homolysis in a Chromacyclopentane Site" A. Fong, C. Vandervelden, S.L. Scott, B. Peters	*ACS Catal.* **8**, 1728-1733	Journal Paper
142	2018	"Solid Molecular Frustrated Lewis Pairs for the Catalytic Metal-Free Hydrogenation of Alkenes" A. Wilms, H. Schuhmacher, T. Tabassum, L. Qi, S. L. Scott, P. J. C. Hansoul, M. Rose	*ChemCatChem* **10**, 1835-1843	Journal Paper
143	2018	"Operando MAS-NMR Reaction Studies at High Temperatures and Pressures" E.D. Walter, L. Qi, A. Chamas, H.S. Mehta, J.A. Sears, S.L. Scott, D.W. Hoyt	*J. Phys. Chem. C* **122**, 8209-8215 *Featured on the journal cover.*	
144	2018	"A Reassessment of the Electronic Structure of Cr(VI) Sites Supported on Amorphous Silica and Implications for Cr Coordination Number" N. Peek, D. B. Jeffcoat, C. Moisii, L. van de Burgt, S. Profeta, S.L. Scott, A.E. Stiegman	*J. Phys. Chem. C* **122**, 4349-4358	Journal Paper
145	2018	"The Role of the Electric Field in Catalysis: A Perspective" F. Che, J.T. Gray, S. Ha, N. Kruse, S.L. Scott, J.-S. McEwen	*ACS Catal.* **8**, 5153-5174	Journal Paper
146	2018	"Essential Elements of Collaboration: Understanding How Chemistry Graduate Students Experience Collaboration through International Research Visits" A. Leak, E. Sciaky, L. Lunaberg, J. Bianchini, S. Scott	*J. Chem. Educ.* **95**, 749-757	Journal Paper
147	2018	"Do Mono-Oxo Sites Exist in Silica-Supported Cr(VI) Materials? Reassessment of the Resonance Raman Spectra" C. Moisii, D. Jeffcoat, N. Peek, L. van de Burgt, S.L. Scott, A. E. Stiegman	*J. Phys. Chem. C* **122**, 17149-17160	Journal Paper
148	2018	"A Strong Support Effect in Selective Propane Dehydrogenation Catalyzed by $Ga(i\text{-}Bu)_3$ Grafted onto Silica and γ-Alumina" K.C. Szeto, N. Merle, C. Rios, A. Gallo, Z.R. Jones, L. Delevoye, R.M. Gauvin, S.L. Scott, M. Taoufik	*ACS Catal.* **8**, 7566-7577	Journal Paper
149	2018	"A Matter of Life(time) and Death" S.L. Scott	*ACS Catal.* **8**, 8597-8599	Editorial

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
150	2018	"Enhanced Metathesis Activity and Stability of Methyltrioxorhenium on a Mostly Amorphous Alumina: Role of the Local Grafting Environment" F. Zhang, K. C. Szeto, M. Taoufik, L. Delevoye, R.M. Gauvin, S.L. Scott	*J. Am. Chem. Soc.* **140**, 13854-13868	Journal Paper
151	2019	"High Temperature/Pressure MAS-NMR for the Study of Dynamic Processes in Mixed Phase Systems" A. Chamas, L. Qi, H. S. Mehta, J. A. Sears, S. L. Scott, E. D. Walter, D. W. Hoyt	*Mag. Reson. Imag.* **56**, 37-44	Journal Paper
152	2019	"Glucose Isomerization and Epimerization over Metal-Organic Frameworks with Single-Site Active Centers" Q. Luo, Y. Zhang, L. Qi, S.L. Scott	*ChemCatChem* **11**, 1903-1909	Journal Paper
153	2019	"The Burden of Disproof" S.L. Scott	*ACS Catal.* **9**, 4706-4708	Editorial
154	2019	"Direct, Selective Production of Aromatic Alcohols from Ethanol Using a Tailored Bifunctional Catalyst" Q.-N. Wang, X.-F. Weng, B.-C. Zhou, S.-P. Lv, S. Miao, D. Zhang, Y. Han, S. L. Scott, F. Schüth, A.-H. Lu	*ACS Catal.* **9**, 7204-7216	Journal Paper
155	2019	"Upcycling Single-Use Polyethylene into High-Quality Liquid Products" G. Celik, R.M. Kennedy, R.A. Hackler, M. Ferrandon, A. Tennakoon, S. Patnaik, A.M. Lapointe, S.C. Ammal, A. Heyden, F.A. Perras, M. Pruski, S. Scott, K.R. Poeppelmeier, A.D. Sadow, M. Delferro	*ACS Central Sci.* **9**, 7204-7216	Journal Paper
156	2019	"Grafting metal complexes onto amorphous supports: From elementary steps to catalyst site populations via kernel regression" S. Khan, C. Vandervelden, S.L. Scott, B. Peters	*React. Chem. Engr.* **5**, 66-76	Journal Paper
157	2019	"Site-averaged kinetics for catalysts on amorphous supports: An importance learning algorithm" C. Vandervelden, S. Khan, S.L. Scott, B. Peters	*React. Chem. Engr.* **5**, 77-86	Journal Paper
158	2019	"Unraveling the Dynamic Network in the Reactions of an Alkyl Aryl Ether Catalyzed by Ni/γ-Al_2O_3 in 2-Propanol" L. Qi, A. Chamas, Z. Jones, E. Walter, D. Hoyt, N. Washton, S.l. Scott	*J. Am. Chem. Soc.* **141**, 17730-17381	Journal Paper
159	2020	"Structure-performance correlations of cross-linked boronic acid polymers as adsorbents for recovery of fructose from glucose-fructose mixtures" G. Schroer, J. Deischter, T. Zensen, J. Kraus, A.-C. Pöppler, L. Qi, S. Scott, I. Delidovich	*Green Chem.* **22**, 550-562	Journal Paper
160	2020	"Phosphonate-Modified UiO-66 Brønsted Acid Catalyst and Its Use in Dehydra-Decyclization of 2-Methyltetrahydrofuran to Pentadienes" M. Dorneles de Mello, G. Kumar, T. Tabassum, S.K. Jain, T.-H. Chen, S. Caratzoulas, X. Li, D. G. Vlachos, S.-I. Han, S.L. Scott, P. Dauenhauer, M. Tsapatsis.	*Angew. Chem. Int. Ed.* **59**, 13260-13266	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
161	2020	"Excellence *versus* Diversity? Not an Either/Or Choice" S. Bordiga, S. Chang, J. Chen, C. Crudden, A. Dey, P. Fornasiero, T.B. Gunnoe, C.W. Jones, S. Linic, D. Ma, F. Maseras, T. Ooi, B. Roldán Cuenya, P. Sautet, S.L. Scott, V. Stamenkovic, Y. Wang, T.P. Yoon, H. Zhao DOI: 10.1021/acscatal.0c02590	*ACS Catal.* **10**, 7310-7311	Editorial
162	2020	"Degradation Rates of Plastics in the Environment" Ali Chamas, Hyunjin Moon, Jiajia Zheng, Yang Qiu, Tarnuma Tabassum, Jun Hee Jang, Susannah L. Scott, Mahdi Abu-Omar, Sangwon Suh	*ACS Sustain. Chem. Eng.* **8**, 3494-3511	Journal Paper
163	2020	"Tuning Molecular Adsorption in SBA-15-Type Silicas by Systematic Variation of Surface Polarity" H. Moon, S. Han, S.L. Scott	*Chem. Sci.* **11**, 3702-3712	Journal Paper
164	2020	"Polyethylene Upgrading to Long-Chain Alkylaromatics by Tandem Catalytic Depolymerization/Dehydroaromatization" F. Zhang, D. Zeng, R. Yappert, A.M. Lapointe, J. Sun, A. Lee, B. Peters, M.M. Abu-Omar, S.L. Scott	*Science* **370**, 437-441	Journal Paper
165	2020	"Most plastic recycling produces low-value materials – but we've found a way to turn a common plastic into high-value molecules" Link S.L. Scott	*The Conversation* Oct. 23, 2020	Perspective
166	2020	"Nano-apples and Orange-zymes" S.L. Scott, H. Zhao, A. Dey, T.B. Gunnoe	*ACS Catal.* **10**, 14315-14317	Editorial
167	2020	"Efficient, continuous N-Boc Deprotection of Amines Using Solid Acid Catalysts" J. Wu, C. Zheng, B. Li, J. Hawkins, S.L. Scott	*React. Chem. Engr.* ***6***, 279 - 288	Journal Paper
168	2020	"P-Site Structural Diversity and Evolution in a Zeosil Catalyst" S. Jain, T. Tabassum, L. Li, L. Ren, W. Fan, M. Tsapatsis, S. Caratzoulas, S. Han, S.L. Scott	*J. Am. Chem. Soc.* ***143***, 1968–1983	Journal Paper
169	2021	"New Uses for Recycled Carbon: Converting Waste Polyethylene into Alkylaromatics" F. Zhang, M. Zeng, R. Yappert, J. Sun, Y.-H. Lee, A. LaPointe, B. Peters, M.M Abu-Omar, S.L. Scott DOI: 10.1055/s-0039-1691247	*Synform* **04**, A51-A54	Journal Paper
170	2021	"Bioinspired methane oxidation in a zeolite" S.L. Scott	*Science* **373**, 277-278	Perspective
171	2021	"X-ray Absorption Spectroscopy Investigation into the Origins of Heterogeneity in Silica-supported Dioxomonomolybdates" L. Li, S.L. Scott	*J. Phys. Chem. C* **125**, 23115-23125	Journal Paper
172	2021	"Chemical Upcycling of Polyethylene into Value-added a,ω-Divinyl-Functionalized Polymers" M. Zeng, Y.-H. Lee, G. Strong, A. LaPointe, A.L. Kocen, Z. Qu, G.W. Coates, S.L. Scott, M.M. Abu-Omar	*ACS Sust. Chem. Engr.* **9**, 13926-13936	Journal Paper

#	YEAR	TITLE and AUTHORS	PUBLISHER	CATEGORY
173	2021	"First Principles Approach to Extracting Chemical Information from X-Ray Absorption Near-Edge Spectra of Ga-Containing Materials" K. Groden, F.D. Vila, L. Li, S.R. Bare, S.L. Scott, J.-S. McEwen	*J. Phys. Chem. C* **125**, 27901-27908 Featured on the journal cover	Journal Paper
174	2022	"To Err is Human: to Reproduce Takes Time" C.M. Crudden, P. Fornasiero, T.B. Gunnoe, S.L. Scott	*ACS Catal.* **12**, 3644-3650	Editorial
175	2022	"Evidence for entropically-controlled interfacial hydration in mesoporous organosilicas" H. Moon, R. Collanton, J. Monroe, T. Casey, M.S. Shell, S. Han, S.L. Scott	*J. Am. Chem. Soc.* **144**, 1766-1777	Journal Paper
176	2022	"Modeling the structural heterogeneity of vicinal silanols and its effects on $TiCl_4$ grafting onto amorphous silica" S.A. Khan, S.M. Godahewa, P.N. Wimalasiri, W.H. Thompson, S.L. Scott, B. Peters	*Chem. Mater.* **34**, 3920–3930	Journal Paper
177	2022	"High-field NMR, reactivity, and DFT modeling reveal the γ-Al_2O_3 surface hydroxyl network" N. Merle, T. Tabassum, S. L. Scott, A. Motta, K. Szeto, M. Taoufik, R.M. Gauvin, L. Delevoye DOI: 10.1002/anie.202207316	*Angew. Chem. Int. Ed.* **61**, e202207316	Journal Paper
178	2022	"Chemical Recycling of Polyethylene by Tandem Catalytic Conversion to Propylene" N.M. Wang, G. Strong, V. DaSilva, L. Gao, R. Huacuja, I.A. Konstantinov, M.S. Rosen, A.J. Nett, S. Ewart, R. Geyer, S.L. Scott, D. Guironnet DOI: 10.1021/jacs.2c07781	*J. Am. Chem. Soc.* **144**, 18526-18531 Featured Editors' pick of the week by *Nature Synth.*	Journal Paper
179	2023	"Solvent effects on catalytic activity and selectivity in amine-catalyzed D-fructose isomerization" P. Drabo, M. Fischer, M. Emondts, J. Hamm, M. Engelke, M. Simonis, L. Qi, S.L. Scott, R. Palkovits, I. Delidovich DOI: 10.1016/j.jcat.2022.12.029	*J. Catal.* **418**, 13-21	Journal Paper
180	2023	"Rigorous Oxidation State Assignments for Supported Ga-Containing Catalysts Using Theory-Informed X-Ray Absorption Spectroscopy Signatures from Well-Defined Ga(I) and Ga(III) Compounds" L. Li, J.A. Chalmers, S. Bare, S.L. Scott, F. Vila	*ACS Catal.* **13**, 6549-6561	Journal Paper
181	2023	"Bifunctional tandem catalytic upcycling of polyethylene to surfactant-range alkylaromatics" J. Sun, Y.-H. Lee, R.D. Yappert, A.M. Lapointe, G.W. Coates, B. Peters, M.M. Abu-Omar, S.L. Scott	*Chem* **9**, 2318-2336	Journal Paper
182	2023	"Enhancing Phenol Adsorption on Hydrophobic Pd/SiO2 to Achieve Faster and More Selective Hydrogenation" J.A. Chalmers, H. Moon, S.F. Ausman, C.C. Chuang, S.L. Scott DOI:10.1007/s11244-023-01851-2	*Topics Catal.* **66**, 1143-1151	Journal Paper

183	2023	"Quantitative analyses of products and rates in polyethylene depolymerization and upcycling" Y.H. Lee, J. Sun, S.L. Scott, M.M. Abu-Omar DOI: 10.1016/j.xpro.2023.102575	*Star Protocols* **4**, 102575	Journal Paper
184	2024	"Catalytic Hydrogenolysis by Atomically-Dispersed Iron Sites Embedded in Chemically and Redox Non-Innocent N-Doped Carbon" Z. Luo, L. Li, V.T. Nguyen, U. Kanbur, Y. Li, J. Zhang, R. Nie, A. Biswas, S. Bud'ko, J.-S. Oh, L. Zhou, W. Huang, A. Sadow, B. Wang, S.L. Scott, L. Qi DOI: https://doi.org/10.1021/jacs.4c00741	*J. Am. Chem. Soc.* **146**, 8618–8629	Journal Paper
185	2024	"Supported Platinum Nanoparticles Catalyzed Carbon-Carbon Bond Cleavage of Polyolefins: Role of the Oxide Support Acidity" J.V. Lamb, Y.-H. Lee, J. Sun, C. Byron, R. Uppuluri, R.M. Kennedy, C. Meng, R.K. Behera, Y.-Y. Wang, L. Qi, A.D. Sadow; W. Huang, M.S. Ferrandon, S.L. Scott, K.R. Poeppelmeier, M.M. Abu-Omar, M. Delferro DOI: 10.1021/acsami.3c15350	*ACS Appl. Mater. Interf.* **16**, 11361–11376	Journal Paper
186	2024	"Selective Catalytic Reduction of CO_2 to CO by a Single-Site Heterobimetallic Iron-Potassium Complex Supported on Alumina" A.A. Isah, O. Ohiro, L. Li, Y. Nasiru, K.C. Szeto, P.Y. Dugas, A. Benayad, A. de Mallmann, S.L. Scott, B.R. Goldsmith, M. Taoufik	*ACS Catal.* **4**, 2418–2428	Journal Paper
187	2024	"Structure-Dependent Mechanisms for Plastic Degradation in the Marine Environment", In Plastics in the Sea, Ed. S. Shumway. N.A. Maciulis, J.M. Bingaman, S.L. Scott	*Elsevier* In press.	Book chapter
188	2024	"Long-term tracking of financial and educational support on low-income transfer-student career pathways in engineering" A.E. Leak, L. Lenaburg, S. Miller, J. Chada, D. Dal Bello, B. Harrell, E. Howard, J.-U. Kuhn, M. Klein Williams, B. Quezada-Escobedo, S.L. Scott	*J. Engr. Educ.* In review	Journal Paper
189	2024	"Alumina-Titania Nanolaminate Condensers for Hot Programmable Catalysis" K.-R. Oh, A. Walton, J. Chalmers, J. Hopkins, J. Canavan, T.M. Onn, S.L. Scott, C.D. Frisbie, P. Dauenhauer	*ACS Mater. Lett.* In review	Journal Paper
190	2024	"External H_2 Enhances the Tandem Upcycling of Polyethylene to Alkylbenzenes" J. Sun, J. Ge, O. Bamidele, Y.-H. Lee, M. M. Abu-Omar, A. Heyden, B. Peters, S.L. Scott	*ACS Catal.* In review	Journal Paper
191	2024	"Catalytic upcycling of polyolefins" J. Sun, J. Dong, L. Gao, Y.-Q. Zhao, H. Moon, S.L. Scott	*Chem. Rev.* In revision	Journal Paper