

George Willis Huber

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Education

University of Wisconsin-Madison, Madison, Wisconsin, 2000 – 2005
Ph.D. in Chemical Engineering

Brigham Young University, Provo, Utah, 1992-1993, 1996-2000
M.S. in Chemical Engineering, 2000
B.S. in Chemical Engineering, 1999

Research Interests

- Biofuels
- Heterogeneous Catalysis
- Renewable Energy

Academic Positions

Associate Professor, University of Massachusetts-Amherst, 2010-present
Assistant Professor, University of Massachusetts-Amherst, 2006-2010

Research Experience

Post-Doctoral Research: Instituto de Tecnología Química, Universidad Politécnica de Valencia, 2005-2006 (research advisor: Avelino Corma)

- Developed processes for biofuels production using petrochemical refining technology

Doctoral Research: Department of Chemical Engineering, University of Wisconsin-Madison, 2000-2005 (research advisor: James A. Dumesic)

- Developed new catalytic processes for biofuel production (H_2 and liquid fuels).
- Discovered a non-precious metal catalyst (Raney NiSn) to convert carbohydrates into H_2
- Designed and built a high-throughput reactor

Masters Research: Department of Chemical Engineering, Brigham Young University, 1998-2000 (research advisor: Calvin H. Bartholomew)

- Discovered a new deactivation mechanism for Fischer-Tropsch Synthesis (FTS) catalysts
- Kinetic Study of bimetallic Pt-Co FTS catalyst

Industrial Experience

- Co-founder of a start-up company (Anellotech) that is commercializing technology developed in the Huber research group.
- Currently a consultant on biofuels for both start ups and oil companies
- Research projects funded by: Conoco-Phillips, Cargill, and Exxon-Mobil.
- Ph.D. research is currently being commercialized by Virent Energy Systems

Awards and Honors

- Camille Dreyfus Teacher-Scholar Award 2011
- Outstanding Young Faculty Award College of Engineering University of Massachusetts-Amherst 2010

- Armstrong professional development professor 2007-2010
- NSF CAREER Award
- Discovery of Raney-NiSn catalyst named one of top 50 technology breakthroughs of 2003 by Scientific American

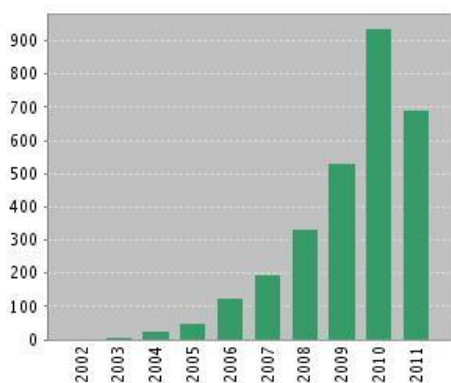
Professional Service

- Have spoken about the central role of catalysis and Chemical Engineering at two different congressional briefings.
- Editorial Board for ChemCatChem (2010 Impact Factor 3.3) and Energy and Environmental Sciences (2012 Impact Factor 9.4)
- Scientific Advisory Board member for CatchBIO (<http://www.catchbio.com/>)
- Scientific Advisory Board member for National Advanced Biofuels Consortium
- Co-editing a special issue on The Role of Biomass in America's Energy Future for Biofuels, Bioproducts&Biorefining
- Chair of NSF and DOE workshop on Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels (www.ecs.umass.edu/biofuels), 2007
- International Assessment Committee Member for Panel on Nanostructured Catalysis, (<http://www.wtec.org/catalysis/>) 2007
- Co-chair for panel on catalysis for biofuels at DOE Office of Basic Science Workshop on Catalysis for Energy Applications, 2007
- Proposal Reviewer for NSF and DOE
- Reviewer for Journal of Catalysis, Science, AngewandteChemie, Chemical Reviews, Energy and Fuels, Applied Catalysis A, Applied Catalysis B, Nature Chemistry, Nature, Catalysis Letters, ChemSusChem, ChemCatChem, Green Chemistry, Science, Nature, and Industrial Engineering and Chemistry.

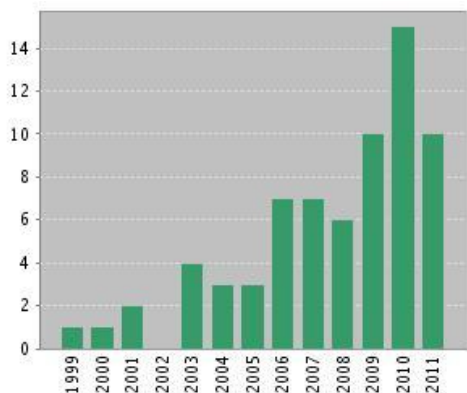
University Service

- Undergraduate Program Director 2010-present
- AIChE Student Chapter Faculty Advisor 2007-2010
- Graduate Program Committee Member for Chemical Engineering Department 2006-2009
- Unit Operation Lab ABET Committee member 2007-2009

Citation Analysis from September 2011(h index = 22; average citation per publication = 42)



Citations per year from Web of Science for George Huber downloaded September 2011 (Note: 920 Citations from 2010)



Peer reviewed publications per year for George Huber from Web of Science downloaded September 2011

Journal Publications

(Citations are downloaded from Web of Science as of September 2011. IF =Impact Factor of journal downloaded from journal websites as of September 2011.)

1. R. Weingarten; J. Cho; R. Xing; W.C. Conner, Jr. and G. W. Huber; Intrinsic Kinetics and Reaction Engineering of Levulinic Acid Production from Aqueous Glucose Solutions; ChemSusChem; in-press. (IF = 6.325; Citations = 0)
2. Y. Cheng, J. Jae, J. Shi, W. Fan, and G. W. Huber, Renewable Aromatics Production by Catalytic Fast Pyrolysis of Lignocellulosic Biomass with Bifunctional Ga/ZSM-5 Catalysts, Angew. Chem. Int. Edit, (in-press). (IF = 12.730; Citations = 0)
3. W. Shen; G. A. Tompsett; W. C. Conner; R. Xing and G. W. Huber; Vapor phase butanal self-condensation over unsupported and supported alkaline earth metal oxides, Journal of Catalysis, In-press, DOI:10.1016/j.jcat.2011.11.009. (IF = 5.4115; Citations = 0).
4. J. Cho; S. Chu; P. J. Dauenhauer; and G. W. Huber, Kinetics and reaction chemistry for slow pyrolysis of enzymatic hydrolysis lignin and organosolv extracted lignin derived from maplewood, Green Chemistry (2012), in-press; DOI: 10.1039/c1gc16222e. (IF = 5.472; Citations = 0)
5. H. Zhang; T.R. Carlson; R. Xiao; and G. W. Huber; Catalytic Fast Pyrolysis of Wood and Alcohol Mixtures in a Fluidized Bed Reactor (Cover Story), Green Chemistry, In-press, DOI: 10.1039/c1gc15619e. (IF = 5.472; Citations = 0)
6. V. Mendu; A. E. Harman-Ware; M. Crocker; J. Jae; J. Stork; S. Morton; A. Placido; G. W. Huber; and S. DeBolt; Identification and thermochemical analysis of high-lignin feedstocks for biofuel and biochemical production; Biotechnology for Biofuels (2011), 4, 43, DOI:10.1186/1754-6834-4-43. (IF = 4.15; Citations = 0).
7. V. Agarwal; G. W. Huber; W. C. Conner, Jr. and G. W. Huber; Simulating IR Spectra and Hydrogen Bonding in Cellulose I β at Elevated Temperatures, Journal of Chemical Physics (2011), 115(1), 188-194, DOI:10.1063/1.3646306. (IF = 2.928; Citations = 0)
8. A.A. Upadhye; W. Qi; and G. W. Huber; Conceptual Process Design: A Systematic Method to Evaluate and Develop Renewable Energy Technologies, AIChE Journal (2011), (Cover Story) 57(9), 2292-2301, DOI: 10.1002/aic.12733. (IF = 2.03; Citations = 0)

9. A. Teela; G. W. Huber; and D. M. Ford; Separation of acetic acid from the aqueous fraction of fast pyrolysis bio-oils using nanofiltration and reverse osmosis membranes , *Journal of Membrane Science* (2011), 378(1-2), 495-502, DOI: 10.1016/j.memsci.2011.05.036.(IF = 3.673; Citations = 0)
10. H.J. Kim, S.M. Choi; S. M. Ho; S. Green; G. W. Huber; and W.B. Kim;Efficient electro-oxidation of biomass-derived glycerol over a graphene-supported PtRu electrocatalyst, *Electrochemistry Communications* (2011), 13(8), 890-893, DOI: 10.1016/j.elecom.2011.05.031. (IF = 4.282 ; Citations = 0)
11. Y. Cheng and G.W. Huber, Chemistry of Furan Conversion into Aromatics and Olefins over HZSM-5: A Model Biomass Conversion Reaction; *ACS Catalysis* (2011), 1(6) 611-628, DOI: 10.1021/cs200103j. (IF = N.A. new journal ; Citations = 0)
12. H. Zhang; Y. Cheng; T. P. Vispute; R. Xiao; and G. W. Huber, Catalytic Conversion of Biomass-derived Feedstocks into Olefins and Aromatics with ZSM-5: The Hydrogen to Carbon Effective Ratio, *Energy and Environmental Science* (2011) ,4(6), 2297-2307, DOI:10.1039/c1ee01230d. (IF = 9.446; Citations = 0)
13. R. Xing; W. Qi; and G.W. Huber; Production of Furfural and Carboxylic Acids from Waste Aqueous Hemicellulose Solutions from the Pulp and Paper and Cellulosic Ethanol Industries; *Energy and Environmental Science* (2011), 4(6), 2193-2205, DOI: 10.1039/c1ee01022k. (IF = 9.446 ; Citations = 1)
14. J. Jae; G.A. Tompsett; A.J.Foster; K.D. Hammond; S. M. Auerbach; W.C. Conner; R.F. Lobo; and G.W. Huber; Investigation into the Shape Selectivity of Zeolite Catalysts for Biomass Conversion, *Journal of Catalysis*(2011), 279, 257-268, DOI: 10.1016/j.jcat.2011.01.019.(IF = 5.4115 ; Citations = 1).
15. R. Weingarten; G. A. Tompsett; Wm. Curtis Conner, Jr. and G. W. Huber; Design of Solid Acid Catalysts for Aqueous Phase Dehydration of Carbohydrates: The Role of Lewis and Brønsted Acid Sites, *Journal of Catalysis* (2011), 279, 174-182, DOI: 10.1016/j.jcat.2011.01.013. (IF = 5.415; Citations = 0)
16. W.Shen;G. A. Tompsett;K. D. Hammond;R. Xing;F.Dogan;C. P. Grey; W. C. Conner; S. M. Auerbach; and G. W. Huber; Liquid Phase Aldol Condensation Reactions with MgO-ZrO₂ and Shape-Selective Nitrogen-Substituted NaY, *Applied Catalysis A General*, (2011) 392 57-68, DOI: 10.1016/j.apcata.2010.10.023. (IF = 3.383; Citations = 0).
17. H.J. Kim, S.M. Choi;S. Green;G. A. Tompsett;M.H.Seo;S.H. Lee;J. Cho;G. W. Huber; and W.B. Kim;Highly active and stablePtRuSn/C catalyst for electrooxidation of ethylene glycol and glycerol, *Applied Catalysis B: Environmental* (2011), 101, 366-375, DOI: 10.1016/j.apcatb.2010.10.005. (IF = 4.749; Citations = 2).
18. N. Li;G. A. Tompsett;T. Zhang;J. Shi;C. E. Wyman; and G. W. Huber; Green gasoline from aqueous phase hydrodeoxygenation of aqueous sugar solutions prepared by hydrolysis of maple wood, *Green Chemistry* (2011), 13, 91-101, DOI: 10.1039/c0gc00501k. (IF = 5.472; Citations = 1)
19. T. R. Carlson;Y.-T. Cheng;J. Jae and G. W. Huber, Production of Green Aromatics and Olefins by Catalytic Fast Pyrolysis of Wood Sawdust, *Energy and Environmental Science* (2011), 4, 145-161, DOI: 10.1039/c0ee00341g. (IF = 9.446 ; Citations = 5)
20. T. P. Vispute;H. Zhang;A. Sanna;R. Xiao;and G. W. Huber, Renewable Chemical Commodity Feedstocks from Integrated Catalytic Processing of Pyrolysis Oils, *Science* (2010), 330, 1222-1227, DOI: 10.1126/science.1194218. (IF = 31.364; Citations = 13)

21. D.G.Vlachos, J. G. Chen, R. J. Gorte, G.W. Huber, M. Tsapatsis, Catalysis Center for Energy Innovation for Biomass Processing: Research Strategies and Goals, *Catalysis Letters* (2010), 140, 77-84, DOI: 10.1007/s10562-010-0455-4. (IF = 1.907; Citations = 1)
22. R. Xing;A.V. Subrahmanyam;H. Olcay;W. Qi; G. P. van Walsum;H. Pendse; and G.W. Huber; Production of Diesel and Jet Fuel Range Alkanes from Waste Hemicellulose derived Solutions (**cover story**), *Green Chemistry* (2010), 12, 1933-1946, DOI:10.1039/c0gc00263a. (IF = 5.472; Citations = 5)
23. N. Li; G. A. Tompsett; and G. W. Huber; Renewable High Octane Gasoline by Aqueous Phase Hydrodeoxygenation of C₅ and C₆ Carbohydrates over Pt/Zirconium Phosphate Catalysts, *ChemSusChem* (2010), 3, 1154-1157, DOI: 10.1002/cssc.201000140. (IF = 6.325; Citations = 1)
24. A. V. Subrahmanyam; S. Thayumanavan; and G.W. Huber; C-C Bond Formation Reactions for Biomass Derived molecules, *ChemSusChem*(2010), 3, 1158-1161, DOI: 10.1002/cssc.201000136. (IF = 6.325; Citations = 1)
25. A. Javaid; T. Ryan; G. Berg; X. Pan; T. Vispute; S. Bhatia; G.W. Huber; and D. M. Ford; Removal of Char Particles from Bio-oils by Microfiltration, *Journal of Membrane Science* (2010), 363(1-2), 120-127, DOI:10.1016/j.memsci.2010.07.021. (IF = 3.673; Citations = 3)
26. J. Cho;J. M. Davis; and G.W. Huber; The Intrinsic Kinetics and Heats of Reactions for Cellulose Pyrolysis and Char Formation, *ChemSusChem*(2010) 3 1162-1165, DOI: 10.1002/cssc.201000119. (IF = 6.325; Citations = 1)
27. H. Olcay;L. Xu; Y.Xu; and G. W. Huber; Aqueous-phase hydrogenation of acetic acid over transition metal catalysts (**cover story**),*ChemCatChem* (2010), 2, 1420-1424, DOI: 10.1002/cctc.201000134. (IF = 3.345; Citations = 3)
28. R. Weingarten; J. Cho; W.C. Conner, Jr. and G. W. Huber; Kinetics of Furfural Production by Dehydration of Xylose in a Biphasic Reactor with Microwave Heating; *Green Chemistry* (2010) 12, 1423-1429DOI: 10.1039/c003459b. (IF = 5.472; Citations = 11)
29. Jae, J.; Tompsett, G.A.; Lin, Y.C.; Carlson, T.R.; Shen, J.; Zhang, T.; Yang, B.; Taiying Wyman, C. E.; Conner, W. C.; and Huber, G.W.; Depolymerization of Lignocellulosic Biomass into Fuel Precursors: Maximizing Carbon Efficiency by Combining Hydrolysis with Pyrolysis; *Energy and Environmental Science*, (2010), 3, 358-365, DOI: 10.1039/b924621p. (IF = 9.446; Citations = 8)
30. Kim, H.J.; Kim, Y.S.; Seo, M.H.; Choi, S.M.; Cho, J.; Huber, G.W.; and Kim, W.B.; Highly improved oxygen reduction performance over Pt/C-dispersed nanowire network systems; *Electrochemical Communications* (2010), 12, 32-35, DOI: 10.1016/j.elecom.2009.10.029. (IF = 4.282; Citations = 5)
31. T.R. Carlson; J. Jae; Y.C. Lin; G.A.Tompsett; and G.W. Huber; Catalytic Fast Pyrolysis of Glucose over ZSM-5: The combined homogeneous and heterogeneous reactions, *Journal of Catalysis* (2010), 270(1), 110-124, DOI: 10.1016/j.jcat.2009.12.013. (IF = 5.415;Citations = 11)
32. N. Li; and G.W. Huber; Aqueous-phase hydrodeoxygenation of sorbitol: Identification of the reaction pathway, *Journal of Catalysis* (2010), 270(1), 48-59, DOI: 10.1016/j.jcat.2009.12.006. (IF = 5.415; Citations = 14)
33. V. Agarwal; G.W. Huber; W.C. Conner; and S.M. Auerbach;Kinetic stability of nitrogen-substituted sites in HY and silicalite from first principles; *Journal of Catalysis* (2010), 270(2), 249-255, DOI: 10.1016/j.jcat.2010.01.001. (IF = 5.415; Citations = 2)

34. V. Agarwal; G.W. Huber; W.C. Conner; and S.M. Auerbach;;DFT Study of Nitrided Zeolites: Mechanism of Nitrogen Substitution in HY and Silicalite, *Journal of Catalysis* (2010), 269(1), 53-63, DOI: 10.1016/j.jcat.2009.10.015. (IF = 5.415; Citations = 3).
35. G.W. Huber and B.E. Dale; Grassoline at the Pump (**cover story**), *Scientific America*, July, 52-59 (2009). (IF = NA; Citations = 7)
36. Y.C. Lin; J. Cho; P.R. Westmoreland; and G.W. Huber; Kinetics and Mechanism of Cellulose Pyrolysis, *Journal of Physical Chemistry C* (2009), 113(46), 20097-20107, DOI: 10.1021/jp906702p.(IF = 4.520; Citations = 19)
37. T.P. Vispute; and G.W. Huber; Production of hydrogen, alkanes and polyols by aqueous phase processing of wood-derived pyrolysis oils. *Green Chemistry* (2009), 11(9), 1433-1445, DOI: 10.1039/b912522c. (IF = 5.472; Citations = 12)
38. T.R. Carlson; J. Jae; and G.W. Huber; Mechanistic Insights from Isotopic Studies of Glucose Conversion to Aromatics Over ZSM-5, *ChemCatChem*, 1, 107-110 (2009), DOI: 10.1002/cctc.200900130. (IF = 3.345; Citations = 6)
39. G.A. Tompsett; N. Li; and G.W. Huber; Catalytic Conversion of Sugars to Fuels, Book Chapter in *Thermochemical Processing of Biomass: Conversion into Fuels, Chemicals and Power*, edited by Robert Brown, publisher Wiley, 2011.
40. Y.C. Lin and G.W. Huber;The critical role of heterogeneous catalysis in lignocellulosic biomass conversion, *Energy and Environmental Science*2, 68-80 (2009), DOI: 10.1039/b814955k. (IF = 9.446; Citations = 28)
41. T.R. Carlson; G.A.Tompsett; W.C.Conner; and G.W. Huber; Aromatic Production from Catalytic Fast Pyrolysis of Biomass-derived Feedstocks, *Topics in Catalysis* (2009)52, 241-252, DOI: 10.1007/s11244-008-9160-6. (IF = 2.359; Citations = 29)
42. A. Corma; G.W. Huber; L.Sauvanaud; and P. O'Conner; Biomass to chemicals: Catalytic conversion of glycerol/water mixtures into acrolein, reaction network. *Journal of Catalysis* (2008), 257, 163-171, DOI: 10.1016/j.jcat.2008.04.016. (IF = 5.415; Citations = 68)
43. T.R. Carlson; T.P.Vispute; and G.W. Huber; Green Gasoline by Catalytic Fast Pyrolysis of Solid Biomass-derived Compounds, (**cover story**)*ChemSusChem* (2008), 1, 397-400 ,DOI: 10.1002/cssc.200800018. (IF = 6.325; Citations = 62)
44. B.C. Gates; G.W. Huber; C.L. Marshall; P.N. Ross; J.Siirola; and Y. Wang; Catalysts for Emerging Energy Applications, *MRS Bulletin* (2008), 33, 1-7 (2008), DOI: 10.1557/mrs2008.85.(IF = 6.33; Citations = 11)
45. T.P. Visputeand G.W. Huber; Breaking the Chemical and Engineering Barriers to Lignocellulosic Biofuels, *International Sugar Journal*, **110**, 138, 140, 142, 146, 148-149 (2008). (IF = 0.207; Citations = 5)
46. G.W. Huber; P. O'Conner; and A.Corma; Processing of Biomass in Conventional Oil Refineries: Production of High Quality Diesel by Hydrotreating Vegetable Oils in Heavy Vacuum-Oil Mixtures: Impact of the Relative rates of decarboxylation, decarbonylation and dehydration/hydrogenation on product distribution, *Applied Catalysis A* (2007), 329, 120-129, DOI: 10.1016/j.apcata.2007.07.002. (IF = 3.383; Citations = 71)
47. A. Corma; G.W. Huber; L.Sauvanaud; and P. O'Conner; Processing of biomass-derived oxygenates in the oil refinery: catalytic cracking (FCC) pathways and role of catalysts, *Journal of Catalysis* (2007), 247, 307-327, DOI: 10.1016/j.jcat.2007.01.023 (IF = 5.415; Citations = 79)

48. G.W. Huber and A.Corma; Synergies between bio- and oil- refineries for the production of fuels from biomass, *Angewandte Chemie International Edition* (2007), 207,7184-7201, DOI: 10.1002/anie.200604504. (IF = 12.730; Citations = 172)
49. J. Chheda; G.W. Huber; and J.A. Dumesic; Liquid-phase catalytic processing of biomass-derived oxygenated hydrocarbons to fuels and chemicals, *Angewandte Chemie International Edition* (2007), 207,7164-7183, DOI: 10.1002/anie.200604274. (IF = 12.730; Citations = 251)
50. J.C. Serrano-Ruiz; G.W. Huber; M.A. Sanchez-Castillo; J.A. Dumesic; F. Rodríguez-Reinoso; A. Sepulvedo-Escribano; Effect of Sn Addition to Pt/CeO₂-Al₂O₃ and Pt/Al₂O₃: An XPS, ¹¹⁹Sn Mossbauer and Microcalorimetry Study, *Journal of Catalysis* (2006), 241, 378-388, DOI: 10.1016/j.jcat.2006.05.005. (IF = 5.415; Citations = 29)
51. C.B. Barrett; J.Chheda; G.W. Huber; and J.A. Dumesic; Single-Reactor Process for Sequential Aldol-Condensation and Hydrogenation of Biomass-Derived Compounds in Water, *Applied Catalysis B: Environmental* (2006), 66, 111-118, DOI: 10.1016/j.apcatb.2006.03.001. (IF = 4.749; Citations = 35)
52. G.W. Huber; S.Iborra; and A. Corma; Synthesis of transportation fuels from biomass: chemistry, catalysts, and engineering, *Chemical Reviews* (2006), 106, 4044-4098, DOI: 10.1021/cr068360d. (IF = 33.033; Citations = 720)
53. J.A. Dumesic; G.W. Huber; and M.Boudart; Principles of Heterogeneous Catalysis, 2nd Edition of *Handbook of Heterogeneous Catalysis*, (2008)**1**, 1-15.
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55. G.W. Huber; J.W.Shabaker; S.T. Evans; and J.A. Dumesic; Aqueous-phase reforming of ethylene glycol over supported Pt and Pd bimetallic catalysts, *Applied Catalysis B: Environmental* (2006), 62, 226-235, DOI: 10.1016/j.apcatb.2005.07.010. (IF = 4.740; Citations = 52)
56. G.W. Huber and J.A. Dumesic; An overview of aqueous-phase catalytic processes for production of hydrogen and alkanes in a biorefinery, *Catalysis Today* (2006), 111, 119-132, DOI: 10.1016/j.cattod.2005.10.010. (IF = 2.993; Citations = 99)
57. G.W. Huber; J. Chheda; C.B. Barrett; and J.A. Dumesic; Production of Liquid Alkanes by Aqueous-Phase Processing of Biomass-Derived Carbohydrates, *Science* (2005), 308, 1446-2079, DOI: 10.1126/science.1111166.(IF = 31.364; Citations = 240)
58. R. Alcalá & J.W.Shabaker; G.W. Huber; M.A. Sanchez-Castillo; and J. A. Dumesic; Experimental and DFT Studies of the Conversion of Ethanol and Acetic Acid on PtSn-based Catalysts, *Journal of Physical Chemistry B* (special issue dedicated to M. Boudart), *Journal of Physical Chemistry B* (2005), 109, 2074-2075, DOI: 10.1021/jp049354t. (IF = 3.603, Citations = 40)
59. R.R. Davda; J.W.Shabaker; G.W. Huber; and J.A. Dumesic; A Review of Catalytic Issues and Process Conditions for Renewable Hydrogen and Alkanes by Aqueous-Phase Reforming of Oxygenated Hydrocarbons over Supported Metal Catalysts, *Applied Catalysis B: Environmental* (special issue on H₂ Production), *Applied Catalysis B: Environmental* (2005), 56, 171-186, DOI: 10.1016/j.apcatb.2004.04.027. (IF = 4.749; Citations = 159)
60. A. Gokale; G.W. Huber; J.A. Dumesic; and M. Mavrikakis; Effect of Sn on the Reactivity of Cu Surfaces, *Journal of Physical Chemistry B* (2004), 108, 14062-14073 (2004), DOI: 10.1021/jp048013c. (IF = 4.740, Citations = 8)

61. G.W. Huber; R.D.Cortright; and J.A. Dumesic; Renewable Alkanes by Aqueous-Phase Reforming of Biomass Derived Oxygenates, *Angewandte Chemie International Edition* (2004), 43, 1549-1551, DOI: 10.1002/anie.200353050. (IF = 12.730, Citations = 112)
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64. R. R. Davda; R. Alcalá; J. Shabaker; G.W. Huber; R.D. Cortright; M. Mavrikakis; and J.A. Dumesic; DFT and Experimental Studies of C-C and C-O Bond Cleavage in Ethanol and Ethylene Glycol on Pt Catalysts, *Studies in Surface Science and Catalysis* (2003), 45 (Science and Technology in Catalysis (2002)), 79-84.
65. Shabaker, J. W.; Huber, G. W.; Davda, R. R.; Cortright, R. D.; and Dumesic, J. A.; Aqueous-Phase Reforming of Ethylene Glycol Over Supported Platinum Catalysts, *Catalysis Letters*, 88, 1-8 (2003), 10.1023/A:1023538917186. (IF = 1.907, Citations = 61)
66. J.W. Shabaker; R.R. Davda; G.W. Huber; R.D. Cortright; and J.A. Dumesic; Aqueous-Phase Reforming of Methanol and Ethylene Glycol Over Alumina-Supported Platinum Catalysts, *Journal of Catalysis* (2003), 215, 344-352, DOI: 10.1016/S0021-9517(03)00032-0. (IF = 5.415, Citations = 64)
67. R.R. Davda; J.W. Shabaker; G.W. Huber; R.D. Cortright; and J.A. Dumesic; Aqueous-phase reforming of ethylene glycol on silica-supported metal catalysts, *Applied Catalysis B: Environmental* (2003), 43, 13-26, DOI: 10.1016/S0926-3373(02)00277-1. (IF = 4.740, Citations = 74)
68. G.W. Huber; S.J.M. Butala; M.L. Lee; and C.H. Bartholomew; Gd promotion of Co/SiO₂ Fischer-Tropsch synthesis catalysts, *Catalysis Letters* (2001), 74, 45-48, DOI: 10.1023/A:1016613627261. (IF = 1.907, Citations = 5).
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70. G.W. Huber and C.H. Bartholomew.; Pt promotion of Co/SiO₂ Fischer-Tropsch synthesis catalysts, *Studies in Surface Science and Catalysis* (2001), 136 (Natural Gas Conversion VI), 283 .

Patent Applications

1. Huber, G.W.; Cheng, Y-T.; Carlson, T.R.; Jae, J.; Vispute, T.P.; and Tompsett, G.A.; Catalytic Pyrolysis of Solid Biomass and related biofuels, aromatic and olefinic compounds, US Patent Application US2009/0227823A1 (2009). (Licensed to Anellotech)
2. Vispute, T.P.; Rao, K.; and Huber, G.W.; Production of Hydrogen, Liquid Fuels, and Chemicals from Catalytic Processing of Bio-Oils US Patent Application (2009); WO 2010033789 A2 20100325.
3. Huber, G. W.; Chheda, J.; Barrett, C. B.; and Dumesic, J. A.; Production of Liquid Alkanes by Aqueous-Phase Processing of Biomass-Derived Carbohydrates, WO 2007103858 A2 20070913 (2006).

4. O'Connor, Paul; Huber, G. W.; Corma, A.; and Sauvanaud, L.; Fluid Catalytic Cracking of Oxygenated Compounds, WO 2008020047 A2 20080221. (Licensed to KiOR)
5. O'Connor, Paul; Huber, G. W.; and Corma, A.; Processing of Biomass-derived Oxygenates with Particles Comprising a Coke Deposit, WO 2008006904 A1 20080117. (Licensed to KiOR)
6. O'Connor, Paul; Huber, G. W.; Corma, A.; and Sauvanaud, L.; Process for production of acrolein and other oxygenates from glycerol in a transported bed reactor, WO 2008052993 A2 20080508 (Licensed to KiOR).
7. O'Connor, Paul; Huber, G. W.; and Corma, A.; Production of Linear Alkanes by Hydrotreating Mixtures of Triglycerides with Vacuum Gasoil, WO 2008020048 A2 20080221. (Licensed to KiOR)

Selected Invitednon-Conference Presentations

1. G.W. Huber, Clean Catalytic Technologies for Production of Renewable Fuels and Chemical,,University of Pennsylvania, Chemical Engineering Department (December 7, 2011).
2. G.W. Huber, Clean Catalytic Technologies for Production of Renewable Fuels and Chemical,,Princeton, Chemical Engineering Department (November 16, 2011).
3. G.W. Huber, Renewable Fuels and Chemicals from Pyrolysis Based Technologies, EcoleNormaleSupérieure, Lyon, France (August 19, 2011).
4. G. W. Huber; Renewable Petrochemicals from Biomass by Catalytic Fast Pyrolysis, 20th Annual Bayer Material Science Symposium, Pittsburgh, PA (October 7, 2011).
5. G.W. Huber, Renewable Fuels and Chemicals from Pyrolysis Based Technologies, Total Catalysis Club, University of Uberlandia (August 19, 2011).
6. G.W. Huber, Clean Catalytic Technologies for Production of Renewable Fuels and Chemical, Zeolyst, PA (June 16, 2011).
7. G.W. Huber, Clean Catalytic Technologies for Production of Renewable Fuels and Chemical, University of Wisconsin Chemical Engineering Department, Madison, Wisconsin (April 5, 2011).
8. G.W. Huber, Renewable Fuels and Chemicals from Pyrolysis Based Technologies, University of Buffalo Chemical Engineering Department, Buffalo, New York (January 24, 2011).
9. G.W. Huber, Renewable Fuels and Chemicals from Pyrolysis Based Technologies, Total Catalysis Club, Brussels, Belgium (January 27, 2011)
10. G.W. Huber, Breaking the Chemical and Engineering Barriers to Lignocellulosic Biofuels, Dupont, Wilmington, Delaware (August 19, 2010).
11. G.W. Huber, Breaking the Chemical and Engineering Barriers to Lignocellulosic Biofuels, Pacific National Northwest Laboratories, Richland, Washington (July 13, 2010).
12. Huber, G.W.; The Potential of Cellulosic Biofuels, Congressional Briefing sponsored by Discover Magazine and NSF, Washington DC July 18, 2009.

13. Huber, G.W.; Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels, University of Minnesota, Minneapolis, MN, April 2009.
14. Huber, G.W.; Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels, Columbia University, New York, NY, October 2008.
15. Huber, G.W.; Green Gasoline from Woody Biomass: Catalytic Fast Pyrolysis, Congressional Briefing sponsored by NSF, Washington DC September 2008.
16. Huber, G.W.; Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels, University of Rochester, Purdue, May 2008.
17. Huber, G.W.; Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels, University of Rochester, Rochester, NY, February 2008.
18. Huber, G.W.; Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels, 3M, Minnesota, January 2008.
19. Huber, G.W.; Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels, BASF, Iselin, NJ, September 2007.
20. Huber, G.W.; Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels, Michigan State, October 2007.
21. Huber, G.W.; Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels, Mascoma, Boston MA, August 2007.
22. Huber, G.W.; Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels, Princeton, May 2007.
23. Huber, G.W.; Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels, National Science Foundation, February 2007.
24. Huber, G. W.; Production of Liquid Transportation Fuels: Chemistry, Catalysts, and Engineering, University of Massachusetts-Amherst, Polymer Science Department, February, 2007.
25. Huber, G. W.; Production of Fuels and Chemicals from Biomass, Conoco-Phillips, Bartlesville, OK October 2006.

Selected Conference Presentations

1. G.W. Huber, Renewable Petrochemicals from Catalytic Pyrolysis of Biomass, Catalysis and Alternative Feedstocks for the Biofuels Industry, Council for Chemical Research, Newark, DE (September 22, 2011).
2. G.W. Huber, Renewable Fuels and Chemicals from Pyrolysis Based Technologies, Pacific Chem, Honolulu Hawaii (December 16, 2011).
3. A. J. Foster, J. Jae, G. W. Huber, and R. F. Lobo; Optimization of Zeolites for pyrolytic conversion of glucose to aromatic hydrocarbons, ACS National Meeting, Division of Fuel Chemistry (2010), 55(2), 333.
4. G. W. Huber, J. Cho, T. Carlson, R. Coolman, V. Agarwal, S. Almalkie, Y. Lin, S. Auerbach, S. deBruyn Kops, T.J. Mountziaris, Green aromatics by catalytic fast pyrolysis of lignocellulosic biomass, 240th ACS National Meeting, Boston, MA 2010 (Invited).

5. G.W. Huber, Renewable Petrochemicals from Biomass by Catalytic Fast Pyrolysis, AIChE National Meeting, Salt Lake City, UT (November 2010) (Invited keynote lecture).
6. Karl D. Hammond, MuradGharibeh, Geoffrey A. Tompsett, Fulya Dogan, Wenqin Shen, Huber, G.W., Clare P. Grey, Scott M. Auerbach, Wm. Curtis Conner Jr. "The Search for Microporous, Strongly Basic Catalysts: Experiment and Theory in the Synthesis and Characterization of Nitrogen-Doped Zeolite Y" AIChE November 2009, Nashville, TN.
7. Vishal Agarwal, Huber, G.W., William C. Conner, Scott M. Auerbach, "Modeling of Synthesis, Stability and Base Characteristics of Nitrogen-Substituted FAU and MFI" AIChE. November 2009, Nashville, TN.
8. Xiaoming Pan, Tushar Vispute, Huber, G.W., Surita R. Bhatia, "Rheology and Stability Considerations in Processing of Bio-Oils" AIChE November 2009, Nashville, TN
9. Geoffrey A. Tompsett, Jungho Jae, Torren Carlson, Karl D. Hammond, Scott Auerbach, Huber, G. W., W. Curtis Conner, "Size Selectivity in Catalytic Fast Pyrolysis" AIChE. November 2009, Nashville, TN.
10. Ning Li; Kamalakanta Routray and Huber, G.W., "Aqueous-Phase Dehydration/Hydrogenation of Sorbitol: Identification of Reaction Pathways", to AIChE 2009 annual Conference, Nashville, TN..
11. Jiacheng Shen, Bin Yang and Charles E. Wyman, "Kinetic Study on the Hydrochloride Acid-Catalyzed Hydrolysis of Cellulose to Levulinic Acid and Formic Acid" to AIChE 2009 annual Conference, Nashville, TN.
12. Vispute, Tushar P, Huber G. W., "Production of Hydrogen and alkanes by aqueous phase processing of aqueous fraction of bio-oil" 237th ACS National Meeting, Salt Lake City, UT, United States, March 22-26, 2009.
13. Ning Li and Huber, G.W., "Renewable alkanes, alcohols and polyols by aqueous-phase dehydration/hydrogenation of biomass-derived oxygenates" 238th American Chemical Society National Meeting & Exposition, Washington DC, August 2009.
14. Huber, G.W., "The Potential of Cellulosic Biofuels" Congressional briefing: Biofuels-The next generation. June 18th, 2009, Washington DC. Sponsored by NSF, Discovery Channel.
15. Huber, G.W.; Breaking the Chemical and Engineering Barriers to Cellulosic Biofuels, The Business and Biology of Biofuels, University of San Diego, La Jolla, CA, January 2008.
16. Huber, G. W.; Katz, Alexander. "Advanced catalysis for conversion of biologically derived feedstocks" 235th ACS National Meeting, New Orleans, LA, United States, April 6-10, 2008.
17. Bartholomew, Calvin H.; Paul, Uchenna P.; Huber, G. W. "Fischer-Tropsch synthesis on cobalt: A combined macro-microkinetic study" 235th ACS National Meeting, New Orleans, LA, United States, April 6-10, 2008.
18. Corma, A.; Huber, G. W.; Sauvinaud, L.; and O'Conner, P.; Processing of biomass-derived oxygenates in the oil refinery: catalytic cracking of biomass-derived oxygenates, 234 ACS National Meeting, Boston, MA August 2007.
19. Huber, G. W.; Breaking the Chemical and Engineering Barriers to Lignocellulosic Biofuels, 234 ACS National Meeting, Boston, MA August 2007.

20. Bartholomew, C. H. and Huber, G. W.; Kinetics of Fischer-Tropsch Synthesis on Cobalt, 234 ACS National Meeting, Boston, MA August 2007.
21. Huber, G. W.: Catalysis for Bio-Based Fuels, New England Catalysis Club, Worcester, MA (2007).
22. Huber, G.W.; The Biology and Chemistry Interface for Cellulosic Biofuels (invited seminar), EPOBIO (workshop on biofuels sponsored by the European Commission); Athens, Greece, May 2006.
23. Huber, G.W.; Production of Liquid Transportation Fuels: Chemistry, Catalysts, and Engineering (invited seminar), American Oil Chemistry Association, Quebec, May 2006.
24. Huber, G. W.; Shabaker, J. W.; Evans, S.; and Dumesic, J. A.; Aqueous-Phase Reforming of Ethylene Glycol with Supported Pt and Pd Bimetallics Catalysts, American Institute of Chemical Engineers National Meeting, San Francisco, CA (2006).
25. Huber, G. W.; Chheda, J.; Barrett, C. B.; and Dumesic, J. A.; Renewable Liquid Alkanes from Aqueous-Phase Processing of Biomass-derived Carbohydrates, American Chemical Society National Meeting, Atlanta, GA, Honorary Symposium for James A. Dumesic, Invited Speaker (2006).
26. Chheda, J.; Barrett, C. B.; Huber, G. W.; and Dumesic, J. A.; Production of Large, Water-Soluble Intermediates from Carbohydrate-derived Compounds by Sequential Condensation/Hydrogenation, American Chemical Society National Meeting, Atlanta, GA, (2006).
27. Huber, G. W.; Chheda, J.; Barrett, C. B.; and Dumesic, J. A.; Renewable Liquid Alkanes from Aqueous-Phase Biorefining of Oxygenated Hydrocarbons, American Chemical Society Colloid and Surface Science Symposium, Potsdam, NY, Honorary Symposium for Calvin H. Bartholomew, Invited Speaker (2005).
28. Huber, G. W.; Chheda, J.; Barrett, C. B.; and Dumesic, J. A.; Renewable Liquid Alkanes from Aqueous-phase Biorefining of Oxygenated Hydrocarbons, North American Catalysis Meeting, Philadelphia, PA (2005).
29. Huber, G.W.; Renewable Hydrogen and Liquid Alkanes from Catalytic Biorefining of Biomass-derived Carbohydrates (invited seminars at: Colorado School of Mines, Jan 2005; Massachusetts Institute of Technology, Feb 2005; University of Massachusetts-Amherst, Feb 2005; Washington State, Mar 2005; Brigham Young University, Mar 2005; Oklahoma State, Apr 2005.)
30. Huber, G. W.; Chheda, J.; Barrett, C. B.; and Dumesic, J. A.; Production of Liquid Alkanes by Aqueous-Phase Processing of Biomass-Derived Carbohydrates, American Institute of Chemical Engineers National Meeting, Austin, TX (2004).
31. Huber, G. W.; Davda, R. R.; Shabaker, J. W.; Cortright, R. D.; and Dumesic, J. A.; Catalytic Generation of H₂ by Aqueous-phase Reforming of Biomass-Derived Oxygenated Hydrocarbons, BioCycle Conference: Renewable Energy From Organics Recycling, Minneapolis, MN (2003).
32. Shabaker, J. W.; Huber, G. W.; Davda, R. R.; Cortright, R. D.; and Dumesic, J. A.; Catalytic Generation of H₂ by Aqueous-phase Reforming of Biomass-Derived Oxygenated Hydrocarbons, American Institute of Chemical Engineers National Meeting, San Francisco, CA (2003).
33. Davda, R. R.; Alcalá, R.; Shabaker, J. W.; Huber, G. W.; Cortright, R. D.; and Dumesic, J. A.; Hydrogen Generation by Catalytic Reforming of Oxygenated Hydrocarbons, American Institute of Chemical Engineers National Meeting, Indianapolis, IN (2002).

34. Cortright, R. D.; Davda, R. R.; Shabaker, J. W.; Huber, G. W.; and Dumesic, J. A.; Generation of Hydrogen via Liquid-Phase Reforming of Carbohydrate-Derived Oxygenated Compounds, American Institute of Chemical Engineers National Meeting, Indianapolis, IN (2002).
35. Davda, R. R.; Alcalá, R.; Shabaker, J. W.; Huber, G. W.; Cortright, R. D.; Mavrikakis, M.; and Dumesic, J. A.; DFT and experimental studies of C-C and C-O bond cleavage in ethanol and ethylene glycol on Pt catalysts, Fourth Tokyo Conference on Advanced Catalytic Science and Technology, Tokyo, Japan (2002).
36. Cortright, R. D.; Huber, G. W.; Mavrikakis, M.; and Dumesic, J. A.; Vapor-Phase Reductions of Oxygenated Compounds over Silica-Supported Ru and Ru/Sn, American Institute of Chemical Engineers National Meeting, Reno, NV (2001).
37. Huber, G. W.; and Bartholomew, C. H.; Pt promotion of Co/SiO₂ Fischer-Tropsch synthesis catalysts, Natural Gas Conversion Symposium VI, AL (2001).
38. Huber, G. W.; Guymon, C.G.; Conrad, T.L.; Stephenson, B.C.; and Bartholomew, C. H.; Hydrothermal stability of Co/SiO₂ Fischer-Tropsch synthesis catalysts, International Catalyst Deactivation Symposium, (2001).
39. Huber, G.W.; Bartholomew, C.H.; Conrad, T.L.; Woolley, K.W.; and Guymon, C.G.; Pt promotion of Co/SiO₂ Fischer-Tropsch synthesis catalysts, American Chemical Society National Meeting, Petroleum Division, San Francisco, CA (2000).
40. Bartholomew, C.H.; Zennaro, R.; and Huber, G. W.; Kinetics of Fischer-Tropsch synthesis on titania- and silica-supported cobalt, American Chemical Society National Meeting, Petroleum Division, Anaheim, CA (1999).

Funded Projects

1. Workshop on Breaking the Chemical and Engineering Barriers to Lignocellulosic Biofuels, Sponsors: National Science Foundation and Department of Energy, \$56,500.
2. MRI: Instrumentation for a Biofuels Lab, George Huber(PI), Co-PI's: Mike Henson, Susan Leschine, Curt Conner, and Om Parkash, Sponsor: National Science Foundation-Major Research Instrumentation, \$513,600, 2007.
3. Nanostructured Molecular Sieve Basic Catalysts: Opportunities for Renewable Fuels, with Curt Conner (PI) and Scott Auerbach, Sponsor: Department of Energy-Basic Energy Sciences, \$475,000, 2007-2010.
4. Production of Home Heating Oils and Upgraded Bio-oils by Aqueous-Phase Catalytic Processing of Bio-oils Produced from Fast Pyrolysis of Woody Biomass, with Renewable Oil International, Sponsor: DOE STTR Phase 1, \$100,000, 2007-2008.
5. CAREER: Selective Thermal Processing of Biomass-derived Oxygenates by Catalytic Fast Pyrolysis, Sponsor: National Science Foundation, \$400,000, 2008-2012.
6. Biofuels Production by Aqueous-Phase Hydrogenation Reactions: A Combined Experimental and Theoretical Approach, Sponsor: Petroleum Research Fund, \$50,000, 2007-2009.
7. Microwave Enhanced Catalytic Production of Biofuels, with Curt Conner (PI) and K. Sigfrid Yngvesson, Sponsor: National Science Foundation, \$550,000, 2008-2011.

8. Green Gasoline from Catalytic Fast Pyrolysis of Lignocellulosic Biomass, Sponsor: CVIP Technology Development Fund, \$30,000, 2008.
9. Development of a Transportable Fast Pyrolysis System to Convert Municipal Solid Waste and Other Forms of Biomass into Liquid Fuels, with Renewable Oil International, Sponsor: Air Force SBIR Phase 1, \$100,000, 2008-2009.
10. Production of JP-8 Range Molecules from Lignocellulosic Biomass; with Curt Conner and George Huber (PI); DARPA (subcontract to Logos Technologies); \$1,700,000; 12/2008-10/2010.
11. Catalysts for Production of JP-8 Range Molecules from Lignocellulosic Biomass; George Huber (PI) with University of Wisconsin, University of Delaware, University of California-Riverside; DARPA-SurfCat; \$3,360,900 12/2008-12/2011. (1 summer month/yr)
12. Fast Pyrolysis Oil Stabilization: An Integrated Catalytic and Membrane Approach for Improved Bio-oils; George Huber (PI); with David Ford, Surita Bhatia and Renewable Oil International; DOE-EERE Office of Biomass; \$986,000; 12/2008-12/2010.
13. Rational Design of Innovative Catalytic Technologies for Biomass Derivative Utilization; (PI: D. Vlachos, U. Delaware; ~20 co-PIs) Sponsor Department of Energy EFRC; my share \$500,000; 9/1/09 – 8/31/14.
14. Green Aromatics by Catalytic Fast Pyrolysis of Lignocellulosic Biomass; PI George Huber (4 other Co-PIs all UMass); Sponsor NSF-EFRI-HyBi, \$2,000,000; 9/1/09-9/1/14.

Students, Post-Docs and Visiting Scientists from Huber Research Group

Graduated PhD Students

1. Dr. Torren Carlson, 2006- 2010, Current Position: Bayer Material Science.
2. Dr. Tushar Vispute, 2005-2010, Current Position: Praxair.
3. Dr. Hakan Olcay, 2005-2011, Current Position: MIT Post-doc.

Previous Post-Doctoral Researchers

1. Dr. Yu-Chuan Lin, Post-doc 2007-2009, Current Position: Assistant Professor Chemical Engineering, Yuan-Ze University.
2. Dr. Ning Li, Post-doctoral researcher 2008-2010, Current Position: Assistant Professor Dalian Institute of Chemical Physics.
3. Dr. Kamalakanta Routray, Post-doctoral researcher, 2009-2010, Current Position: Evonik.
4. Dr. A.V. Subrahmanyam, Post-doctoral researcher, 2009-2010, Current Position: Post-doctoral Research University of Massachusetts-Chemistry Department.
5. Dr. Wenqin Shen, Post-doctoral researcher, 2009-2010, Current Position: SudChemie.
6. Dr. Rong Xing, Post-doctoral researcher, 2009-2011, Current Position: PNNL

Previous Visiting Scholars

1. Sanna Aimaro (PhD candidate), Visiting Scholar 2009, Current Position: PhD Candidate, Nottingham Fuel and Energy Centre, School of Chemical and Environmental Engineering, University of Nottingham, University Park, Nottingham, NG7 2RD
2. Professor Won Bae Kim, Visiting Scientist 2009-2010, Current Position: Department of Materials Science and Engineering, Gwangju Institute of Science and Technology, Gwangju 500-712, Republic of Korea.
3. Professor A. Pandurangan, Visiting Scientist 2009-2010, Current Position: Director Institute of Catalysis and Petroleum Technology Anna University, Chennai, India.
4. Hyuian Zhang (PhD Candidate), Visiting Scholar 2009-2010, Current Position: PhD Candidate School of Energy and Environment, Southeast University, Nanjing 210096, China.
5. HyungJu Kim (PhD Candidate), Visiting Scholar 2009-2010, Current Position: PhD Candidate, Department of Materials Science and Engineering, Gwangju Institute of Science and Technology, Gwangju 500-712, Republic of Korea.

Current Post-Doctoral Researchers, Visiting Scientists and Visiting Scholars

1. Dr. Geoff Tompsett, Research Professor 2008-present

2. Dr. Jungmo Cho, Post-doctoral researcher, 2009- present.

Current PhD Students

1. Jechan Lee, PhD Candidate (co-advised with W. Curt Conner), 2010-present.
2. Pranav Uday Karajkar, PhD Candidate (co-advised with W. Curt Conner), 2010-present.
3. Robert Coolman, PhD Candidate (co-advised with LakisMountzarias), 2009-present.
4. Chris Gilbert, PhD Candidate (co-advised with W. Curt Conner), 2009-present.
4. Sara Green, PhD Candidate, 2009-present.
5. Sheng Chu, PhD Candidate, 2009-present.
6. Aniruddha Upadhye, PhD Candidate, 2009-present.
7. Jian Shi, PhD Candidate, 2009-present.
8. Ronen Weingarten, PhD Candidate (co-advised with W. Curt Conner), 2008-present.
9. Jungho Jae, PhD Candidate, 2007-present.
10. Yu-Ting Cheng, PhD Candidate, 2007-present.
11. Vishal Agarawal, PhD Candidate (co-advised with Scott Auerbach and W. Curt Conner), 2006-present.