

Hong Cui

Other Faculty
Assistant Researcher
Hong
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ACADEMIC MEMBERSHIP

American Chemical Society: Fuel Chemistry Division

CURRENT RESEARCH INTERESTS

Thermal conversion of biomass or municipal waste materials combined with heat and power;
Application of nanomaterials in the field of energy and environmental research;
Gas conditioning technologies for biomass and waste gasification;
Hydrogen production from fossil fuel, biomass and waste;
Development of sorbents for flue gas clean up;
Upgrade of bio-diesel or bio-oil;
Ionic liquid for coal conversion.

University of Hawaii Information:

Assistant Researcher

Other Professional:

2006 ? 2008:

Post-Doctoral Fellow, Hawaii Natural Energy Institute,

2004-2006:

Project Manager, Institute for Combustion Science and Environmental Technology, Western Kentucky University

2002-2004:

Post-doctoral researcher, Department of Applied Chemistry, Chubu University, Japan

1997-2002:

Assistant and Associate Researcher, State Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Sciences

1991-1996:

Researcher Associate, Institute of Coal Chemistry, Chinese Academy of Sciences

Education:

2001 Ph.D. Chemical Engineering, Institute of Coal Chemistry, Chinese Academy of Sciences

1991 B. S. Chemical Engineering, Taiyuan University of Technology, China

Selected Publications:

Hong Cui, Scott Q. Turn, Mark A. Reese. Removal of sulfur compounds from utility pipelined synthetic natural gas using modified activated carbons. *Catalysis Today* 139 (2009) 274-279

Mark A. Reese, Scott Q. Turn, Hong Cui. High pressure autothermal reforming in low oxygen environments. *Journal of Power Sources*. doi:10.1016/j.jpowsour.2008.11.040

Hong Cui, Scott Q. Turn. Adsorption/desorption of dimethylsulfide on activated carbon modified with iron chloride. *Catalysis B: Environmental*. DOI: 10.1016/j.apcatb.2008.09.025

Hong Cui, Scott Q. Turn, Mark A. Reese. Adsorptive Removal of Tetrahydrothiophene (THT) from Synthetic Natural Gas on Modified Activated Carbons. *Energy & Fuels* (2008), 22(4), 2550-2558

Hong Cui, Mark A Reese, Scott Q Turn. Removal of sulfur compounds from synthetic natural gas using modified activated carbon. *Preprints of Symposia - American Chemical Society, Division of Fuel Chemistry* (2007), 52(2), 680-681.

Hong Cui, Yan Cao and Wei-Ping Pan. Preparation of activated carbon for mercury capture from chicken waste and coal. *Journal of Analytical and Applied Pyrolysis*, 2007, 80(2), 319-324.

Yan Cao, Bobby Chen, Jiang Wu, Hong Cui, John Smith, Chi-Kuan Chen, Paul Chu, Wei-Ping Pan. Study of Mercury Oxidation by a Selective Catalytic Reduction Catalyst in a Pilot-Scale Slipstream Reactor at a Utility Boiler Burning Bituminous Coal. *Energy & Fuels* (2007), 21(1), 145-156.

Yoshihiko Ninomiya, Hiroharu Mizukoshi, Megumi Masui, Hong Cui, Lian Zhang, Chikao Kanaoka, Yoshio Otani. Simulation model for combustion of dehydration sludge in an ash-melting furnace using oxygen enrichment. *Journal of the Japan Institute of Energy* (2006), 85(9), 762-768.

Hong Cui, Yan Cao, W-P Pan. Feasibility of activated char production for mercury capture from chicken waste and coal. *Proceedings - Annual International Pittsburgh Coal Conference* (2006), 23rd 4.3/1-4.3/13.

Hong Cui, Yoshihiko Ninomiya, Megumi Masui, Hiroharo Mizukoshi, Takeo Sakano, Chikao Kanaoka, Fundamental behaviors in combustion of raw sewage sludge, *Energy & Fuels*, (2006), 20(1), 77-83.

Hong Cui, Jianli Yang, Zhenyu Liu and Jicheng Bi. Characteristics of residues from thermal and catalytic coal hydroliquefaction. *Fuel*, 2003, 82: 1549-1556.

Hong Cui, Jianli Yang, Zhenyu Liu and Jicheng Bi. Effects of remained catalysts and enriched coal minerals on devolatilization of residue from coal liquefaction. *Fuel*, 2002, 81: 1525-1531.

Hong Cui, Jianli Yang, Zhenyu Liu and Jicheng Bi. Design and equipment of a steam generator for thermogravimetric Device. *Chinese J. of Analytical Chemistry*, 2001, 29: 1102-1105

Hong Cui, Jianli Yang, Zhenyu Liu and Jicheng Bi. Effects of remaining catalyst on volatile matter

measurement of coal hydrogenation residue. J. of Fuel Chemistry and Technology. 2001, 29: 228-231
Hong Cui, Jianli Yang, Zhenyu Liu and Jicheng Bi. Coal liquefaction residue and its gasification for hydrogen. Coal Conversion, 2001, 24(1): 15-20
Hong Cui, Jianli Yang and Zhenyu Liu. Thermogravimetric analysis of two Chinese used tires. Thermochimica ACTA, 1999, 333: 173-175
(Update on 12/26/2008)

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