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Hong Cui

Other Faculty
Assistant Researcher
Hong
Cui

Address:

Hawaii Natural Energy Institute
School of Ocean and Earth Science and Technology
University of Hawaii at Manoa

Phone: (808) 956-5397
Fax: (808) 956-2336
Email: hongcui@hawaii.edu [1]

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-PingPan. 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
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Hawaii Natural Energy Institute ? 1680 East West Road, POST 109 ? Honolulu, HI 96822 ? Ph: (808) 956-8890 ? Fax: (808) 956-2336 ? Email:Contact ?

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Links:
[1] mailto:hongcui@hawaii.edu