

energy & fuels

SPECIAL SECTION: SMARTCATS COST ACTION

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Anthony Bennett,* Hafiz M. F. Amin, Emre Cenker, and William L. Roberts

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10984 **Chemical Kinetic Mechanism for Pyrolysis Bio-oil Surrogate**
Dario Alviso,* Shirley Duarte, Nelson Alvarenga, Juan Carlos Rolón, and Nasser Darabiha

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10999 **Experimental and Numerical Study of the Effect of CO₂ on the Ignition Delay Times of Methane under Different Pressures and Temperatures**
Yang Liu, Chun Zou,* Jia Cheng, Huiqiao Jia, and Chuqiang Zheng

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11010 **Effect of Silane Capping on the Dispersion and Combustion Characteristics of Sub-micrometer Boron Particles Loaded in Jet A-1**
Pawan Kumar Ojha and Srinibas Karmakar*

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11023 **Experimental Study on Mercury Adsorption and Adsorbent Regeneration of Sulfur-Loaded Activated Carbon**
Na Li, Hongqi Wei,* Yufeng Duan,* Hongjian Tang, Shilin Zhao, Peng Hu, and Shaolin Ren

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11030 **Effect of SO₂ Addition on PM Formation from Biomass Combustion in an Entrained Flow Reactor**
Zhongfa Hu, Xuebin Wang,* Renhui Ruan, Shuaishuai Li, Shengjie Bai, Jiaye Zhang, and Houzhang Tan

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Fuel Cells

11038 **Effect of Acid-Washing on the Nature of Bulk Characteristics of Nitrogen-Doped Carbon Nanostructures as Oxygen Reduction Reaction Electrocatalysts in Acidic Media**
Kuldeep Mamtani, Deepika Singh, Doruk Dogu, Deeksha Jain, Jean-Marc M. Millet, and Umit S. Ozkan*

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Process Engineering

11046 **Tetraethylammonium Amino Acid Ionic Liquids and CO₂ for Separation of Phenols from Oil Mixtures**
Youan Ji, Yucui Hou, Shuhang Ren, Congfei Yao, and Weize Wu*

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11055 **Controllable Synthesis of Highly Graphitizable Pitches from 1-Methylnaphthalene via Closed-System Dehydrobromination**
Haixiao Yang, Hexiang Han, Jitong Wang, Wenming Qiao, and Licheng Ling*

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