

ON THE COVER: Cover image by Domna-Maria Kaimaki. The cover graphic is an artistic depiction of an oil-exposed pipe surface undergoing fouling due to the adhesion of asphaltene, a complex mixture of diverse polyfunctional molecules that form part of the heaviest fractions of oil. In their study, the authors employ modeling and experimental techniques to link the bulk and interfacial behaviour of a representative synthesized foulant, in the form of self-aggregation and surface interactions respectively, to effective fouling mitigation strategies. Addressing fouling issues is of critical importance as they are responsible for a decrease in oil production and energy efficiency, and an increased risk of environmental hazards. For more information, see: "Multiscale Approach Linking Self-Aggregation and Surface Interactions of Synthesized Foulants to Fouling Mitigation Strategies" by D.-M. Kaimaki, B. T. Haire, H. P. Ryan, G. Jiménez-Serratos, R. M. Alloway, M. Little, J. Morrison, I. E. Salama, M. J. Tillotson, B. E. Smith, S. J. Moorhouse, T. S. Totton, M. Hodges, S. G. Yeates, P. Quayle, S. M. Clarke, E. A. Müller, and C. Durkan (DOI: 10.1021/acs.energyfuels.9b01390).

Reviews

6843

Fundamentals of Partial Upgrading of Bitumen
Murray R. Gray*

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Articles

Fossil Fuels

6857

Hydrocarbon Recovery from Williston Basin Shale and Mudrock Cores with Supercritical CO₂: Part 1. Method Validation and Recoveries from Cores Collected across the Basin
Steven B. Hawthorne,* David J. Miller, Carol B. Grabanski, Nick Azzolina, Beth A. Kurz, Omid H. Ardakani, Steven A. Smith, Hamed Sanei, and James A. Sorensen

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6867

Hydrocarbon Recovery from Williston Basin Shale and Mudrock Cores with Supercritical CO₂: 2. Mechanisms That Control Oil Recovery Rates and CO₂ Permeation
Steven B. Hawthorne,* Carol B. Grabanski, David J. Miller, Beth A. Kurz, and James A. Sorensen

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6878

Thicknesses of Chemically Altered Zones in Shale Matrices Resulting from Interactions with Hydraulic Fracturing Fluid
Qingyun Li,* Adam D. Jew, Arjun Kohli, Katharine Maher, Gordon E. Brown Jr., and John R. Bargar

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6890 DOI: 10.1021/acs.energyfuels.9b00049
Hydrous Ethanol–Diesel–Al₂O₃ Nanoemulsified Fuel Characterization, Stability, and Corrosion Effect
Vishal Vasistha* and Rabinder Singh Bharj*

6904 DOI: 10.1021/acs.energyfuels.9b00183
Surfactant-Assisted Spontaneous Imbibition to Improve Oil Recovery on the Eagle Ford and Wolfcamp Shale Oil Reservoir: Laboratory to Field Analysis
I Wayan Rakananda Saputra,* Kang Han Park, Fan Zhang, Imad A. Adel, and David S. Schechter

6921 DOI: 10.1021/acs.energyfuels.9b00408
Effect of Temperature on Asphaltene Precipitation: Direct and Indirect Analyses and Phase Equilibrium Study
Caiuã Araújo Alves, José Francisco Romero Yanes, Filipe Xavier Feitosa, and Hosiberto Batista de Sant'Ana*

6929 DOI: 10.1021/acs.energyfuels.9b00549
Improved Sensitivity of Natural Gas Infrared Measurements Using a Filling Gas
Borja Ferreiro, Jose M. Andrade,* Carlota Paz-Quintáns, Purificación López-Mahía, Soledad Muniategui-Lorenzo, María Rey-Garrote, Cristina Vázquez-Padín, and Carlos Vales

6934 ⁵ DOI: 10.1021/acs.energyfuels.9b00600
Temperature-Triggered Rearrangement of Asphaltene Aggregates as Revealed by Pulsed-Field Gradient NMR
Evgeny V. Morozov,* Pavel V. Yushmanov, and Oleg N. Martyanov

6946 DOI: 10.1021/acs.energyfuels.9b00595
Climate-Driven Variations in the Depositional Environment and Organic Matter Accumulation of Lacustrine Mudstones: Evidence from Organic and Inorganic Geochemistry in the Biyang Depression, Nanxiang Basin, China
Zhaozhao Tan, Shuangfang Lu, Wenhao Li,* Yuying Zhang, Taohua He, Wanglu Jia, and Ping'an Peng

6961 ⁵ DOI: 10.1021/acs.energyfuels.9b00638
Macro- and Microscopic Studies of "Smart Water" Flooding in Carbonate Rocks: An Image-Based Wettability Examination
Hongna Ding, Yuzhu Wang, Arthur Shapoval, Yuyun Zhao, and Sheik Rahman*

6971 DOI: 10.1021/acs.energyfuels.9b00690
Competitive Adsorption and Selective Diffusion of CH₄ and the Intruding Gases in Coal Vitrinite
Honghua Tao,* Liehui Zhang,* Qiguo Liu, Yulong Zhao,* and Qing Feng

6983 ⁵ DOI: 10.1021/acs.energyfuels.9b00712
In Situ Sequestration of a Hydraulic Fracturing Fluid in Longmaxi Shale Gas Formation in the Sichuan Basin
Bin Yang, Hao Zhang,* Yili Kang, Lijun You, Jiping She, Kun Wang, and Zhangxin Chen

6995 DOI: 10.1021/acs.energyfuels.9b00742
Organic Geochemically Significant High-Molecular-Mass Sulfur Compounds of North African Crude Oils
Abdelrahman H. Hegazi,* Eiman M. Fathalla, and Jan T. Andersson

7001 DOI: 10.1021/acs.energyfuels.9b00813
Comparison of the Effects of Extraction Techniques on Mass Spectrometry Profiles of Dissolved Organic Compounds in Oil Sand Process-Affected Water
Hattan A. Alharbi, Garrett D. Morandi, Paul D. Jones, Steve B. Wiseman, and John P. Giesy*

7009 DOI: 10.1021/acs.energyfuels.9b00855
Sequential Slope and Intercept Method for Estimation of Gas Absorption and Diffusion Coefficients in Binary Gas–Liquid Systems
Petro Babak* and Apostolos Kantzas

7020 DOI: 10.1021/acs.energyfuels.9b00946
Auto-Emulsification of Water at the Crude Oil/Water Interface: A Mechanism Driven by Osmotic Gradient
J. Duboué,* M. Bourrel, E. Santanach Carreras, A. Klimenko, N. Agenet, N. Passade-Boupat, and F. Lequeux*

7028 DOI: 10.1021/acs.energyfuels.9b00999
Study on the Full-Range Pore Size Distribution and the Movable Oil Distribution in Glutenite
Weichao Tian, Shuangfang Lu,* Wenbiao Huang, Shuping Wang, Yang Gao, Weiming Wang, Jinbu Li, Jianpeng Xu, and Zhuochen Zhan

7043 ⁵ DOI: 10.1021/acs.energyfuels.9b01024
Wettability of High-Pressure Methane Adsorption on Wet Shales
Wenxi Ren, Jianchun Guo,* Fanhui Zeng, and Tianyu Wang

7052 DOI: 10.1021/acs.energyfuels.9b01069
Process Characteristics and Mechanisms for Catalyzed Pyrolysis of Low-Temperature Coal Tar
Yongqi Liu, Qiuxiang Yao, Ming Sun,* Tongtong Yuan, Junwen Gao, Rucheng Wang, Yujuan Zhang, Huiyong Chen, and Xiaoxun Ma*

7062 DOI: 10.1021/acs.energyfuels.9b01102
Wettability Alteration of Quartz Surface by Low-Salinity Surfactant Nanofluids at High-Pressure and High-Temperature Conditions
Nilesh Kumar Jha, Muhammad Ali, Stefan Iglauer, Maxim Lebedev, Hamid Roshan, Ahmed Barifcani, Jitendra S. Sangwai,* and Mohammad Sarmadivaleh

7069 DOI: 10.1021/acs.energyfuels.9b01105
Effect of Microwave and Thermal Co-pyrolysis of Low-Rank Coal and Pine Wood on Product Distributions and Char Structure
Victor Abdelsayed,* Candice R. Ellison, Anna Trubetskaya, Mark W. Smith, and Dushyant Shekhawat

7083 ⁵ DOI: 10.1021/acs.energyfuels.9b01115
Quantification of the Free Radical Content of Oilsands Bitumen Fractions
Joy H. Tannous and Arno de Klerk*

7176 ⁵ DOI: 10.1021/acs.energyfuels.9b01321
Comparison of RR-3 Analysis

- 7083 **S** DOI: 10.1021/acs.energyfuels.9b01115
Quantification of the Free Radical Content of Oilsands Bitumen Fractions
 Joy H. Tannous and Arno de Klerk*
- 7094 DOI: 10.1021/acs.energyfuels.9b01139
Influence of Halide Anions Cl^- , Br^- , and I^- on the Zeta Potential of Oil-Wet Carbonate Surfaces
 Ahmed Sadeed, Hasan Al-Hashim,* Bastian Sauerer, and Wael Abdallah*
- 7110 DOI: 10.1021/acs.energyfuels.9b01146
Effects of Metal Ions in Organic Wastewater on Coal Water Slurry and Dispersant Properties
 Jianzhong Liu,* Shuangni Wang, Ning Li, Yi Wang, Dedi Li, and Kefa Cen
- 7118 DOI: 10.1021/acs.energyfuels.9b01166
A Novel Environment-Friendly Natural Extract for Inhibiting Shale Hydration
 Fan Zhang, Jinsheng Sun,* Xiaofeng Chang, Zhe Xu, Xianfa Zhang, Xianbin Huang, Jingping Liu, and Kaihe Lv
- 7127 DOI: 10.1021/acs.energyfuels.9b01185
Does the Cloud Point Temperature of a Polymer Correlate with Its Kinetic Hydrate Inhibitor Performance?
 Erik Gisle Dirdal and Malcolm A. Kelland*
- 7138 DOI: 10.1021/acs.energyfuels.9b01222
Influence of Adding Asphaltenes and Gas Condensate on CO_2 Hydrate Formation in Water- CO_2 -Oil Systems
 Gustavo A. B. Sandoval,* Roney L. Thompson,* Cristina M. S. Sad, Adriana Teixeira, and Edson J. Soares*
- 7147 DOI: 10.1021/acs.energyfuels.9b01220
Influence of Typical Core Minerals on Tight Oil Recovery during CO_2 Flooding Using the Nuclear Magnetic Resonance Technique
 Xing Huang,* Ang Li, Xiang Li, and Yueliang Liu*
- 7155 DOI: 10.1021/acs.energyfuels.9b01265
Variation of Surface Free Energy in the Process of Methane Adsorption in the Nanopores of Tectonically Deformed Coals: A Case Study of Middle-Rank Tectonically Deformed Coals in the Huaibei Coalfield
 Guanwen Lu, Chongtao Wei,* Jilin Wang, Junjian Zhang, Fangkai Quan, and Landry Soh Tamehe
- 7166 **S** DOI: 10.1021/acs.energyfuels.9b01217
Synthesis of a Novel Environmentally Friendly and Interfacially Active CNTs/ SiO_2 Demulsifier for W/O Crude Oil Emulsion Separation
 Zhiming Huang, Ping Li, Xiao Luo,* Xia Jiang, Lei Liu, Fan Ye, Jiazhe Kuang, Yue Luo, and Yuanzhu Mi
- 7176 **S** DOI: 10.1021/acs.energyfuels.9b01321
Comparison of RP-3 Pyrolysis Reactions between Surrogates and 45-Component Model by ReaxFF Molecular Dynamics Simulations
 Pei Zhao, Song Han, Xiaoxia Li,* Tong Zhu,* Xiaofang Tao, and Li Guo
- 7188 DOI: 10.1021/acs.energyfuels.9b01324
Experimental Investigation of Microscopic Mechanisms of Surfactant-Enhanced Spontaneous Imbibition in Shale Cores
 Junrong Liu, James J. Sheng,* and Weihang Huang
- 7200 **S** DOI: 10.1021/acs.energyfuels.9b01337
Effects of Inductive Condensation on Mesophase Development during Aromatic-Rich Oil Carbonization
 Ming Li, Dong Liu, Bin Lou, Qinyin Li,* and Ran Yu
- 7206 DOI: 10.1021/acs.energyfuels.9b01377
Insight into Polycyclic Aromatic Hydrocarbons in Unconventional Oil via Concentration-Resolved Fluorescence Spectroscopy Coupled with Data Mining Techniques
 Lujun Zhang, Xiaodong Huang, Chunyan Wang,* and Chun Yang*
- 7216 **S** DOI: 10.1021/acs.energyfuels.9b01390
Multiscale Approach Linking Self-Aggregation and Surface Interactions of Synthesized Foulants to Fouling Mitigation Strategies
 D.-M. Kaimaki, B. T. Haire, H. P. Ryan, G. Jiménez-Serratos, R. M. Alloway, M. Little, J. Morrison, I. E. Salama, M. J. Tillotson, B. E. Smith, S. J. Moorhouse, T. S. Totton, M. Hodges, S. G. Yeates, P. Quayle, S. M. Clarke, E. A. Müller, and C. Durkan*
- 7225 **S** DOI: 10.1021/acs.energyfuels.9b01464
Effect of Asphaltene Polarity on Wax Precipitation and Deposition Characteristics of Waxy Oils
 Chuanxian Li, Haoran Zhu, Fei Yang,* Hongye Liu, Feng Wang, Guangyu Sun, and Bo Yao
- 7234 DOI: 10.1021/acs.energyfuels.9b01514
Maceral Contribution to Pore Size Distribution in Anthracite in the South Qinshui Basin
 Jian Shen,* Yong Qin, and Jincheng Zhao
- 7244 **S** DOI: 10.1021/acs.energyfuels.9b01505
Differential Global Reaction Model with Variable Stoichiometric Coefficients for Thermal Cracking of *n*-Decane at Supercritical Pressures
 Pei-Xue Jiang, Yusen Wang, and Yinhai Zhu*
- 7257 **S** DOI: 10.1021/acs.energyfuels.9b01470
Well-Defined Alkyl Functional Poly(Styrene-co-Maleic Anhydride) Architectures as Pour Point and Viscosity Modifiers for Lubricating Oil
 Guillaume Moriceau, Daniel Lester, George S. Pappas, Paul O'Hora, Joby Winn, Timothy Smith, and Sébastien Perrier*

7265 ^S DOI: 10.1021/acs.energyfuels.9b01616
Novel Integrated Reactor-Regenerator Model for the Fluidized Catalytic Cracking Unit Based on an Equivalent Reactor Network
Yupeng Du,* Lejing Sun, Abdallah S. Berrouk,* Chengtao Zhang, Xiaoping Chen, Deren Fang, and Wanzhong Ren

7276 DOI: 10.1021/acs.energyfuels.9b01646
Superior Deep Desulfurization of Real Diesel over MoO₃/Silica Gel as an Efficient Catalyst for Oxidation of Refractory Compounds
Bitra Mokhtari, Azam Akbari,* and Mohammadreza Omidkhah

7287 ^S DOI: 10.1021/acs.energyfuels.9b01896
Ultra-Deep Desulfurization of Real Diesel Using Two-Layer Silica Gels under Mild Conditions
Liqiong Wu, Guang Miao, Xiong Dai, Lei Dong, Zhong Li, and Jing Xiao*

7297 DOI: 10.1021/acs.energyfuels.9b01949
Catalytic Upgrading of Vacuum Residue-Derived Cracking Gas-Oil for Maximum Light Olefin Production in a Combination of a Fluidized Bed and Fixed Bed Reactor
Yuanyu Tian, Yuanjun Che,* Minshen Chen, Wen Feng, Jinhong Zhang, and Yingyun Qiao*

7305 DOI: 10.1021/acs.energyfuels.9b02019
Molecular Dynamics Simulation of the Nucleation and Gelation Process for a Waxy Crude Oil Multiphase System under Different Physical–Chemical Influencing Factors
Yifan Gan, Qinglin Cheng,* Zhihua Wang, Jinwei Yang, Wei Sun, and Yang Liu

Biofuels and Biomass

7321 DOI: 10.1021/acs.energyfuels.9b01291
Layer Formation on Feldspar Bed Particles during Indirect Gasification of Wood. 1. K-Feldspar
Robin Faust,* Thomas Karl Hannl, Teresa Berdugo Vilches, Matthias Kuba, Marcus Öhman, Martin Seemann, and Pavleta Knutsson

7333 DOI: 10.1021/acs.energyfuels.9b01292
Layer Formation on Feldspar Bed Particles during Indirect Gasification of Wood. 2. Na-Feldspar
Thomas Karl Hannl,* Robin Faust, Matthias Kuba, Pavleta Knutsson, Teresa Berdugo Vilches, Martin Seemann, and Marcus Öhman

7347 ^S DOI: 10.1021/acs.energyfuels.9b00161
Applicability of Composite Silica–Divinylbenzene in Bioethanol Dehydration: Equilibrium, Kinetic, Thermodynamic, and Regeneration Analysis
Mark Daniel G. de Luna,* Maricor F. Divinagracia, Angelo Earvin Sy Choi, Dennis C. Ong, and Tsair-Wang Chung*

7357 ^S DOI: 10.1021/acs.energyfuels.9b00836
Anaerobic Codigestion of Alkali-Pretreated *Prosopis juliflora* Biomass with Sewage Sludge for Biomethane Production
Amudha Thanarasu, Karthik Periyasamy, Jason Thamizhakaran Stanley, Kubendran Devaraj, Premkumar Periyaraman, Anuradha Dhanasekaran, and Sivanesan Subramanian*

7366 DOI: 10.1021/acs.energyfuels.9b01285
Liquefaction Behavior of Lignin in Different Alcohol Solvents under the Catalysis of Heteropolyacid Salt
Fangli Du, Yanming Li, Xuequan Xian, Bingzheng Li, Peiduo tang, Bo Lu, and Junxiang Lai*

7377 DOI: 10.1021/acs.energyfuels.9b01309
Molecular-Level Kinetic Modeling of Triglyceride Hydroprocessing
Pratyush Agarwal, Sulaiman S. Al-Khattaf, and Michael T. Klein*

7385 ^S DOI: 10.1021/acs.energyfuels.9b01340
Detailed One-Dimensional Model for Steam-Biomass Gasification in a Bubbling Fluidized Bed
Cornelius E. Agu,* Christoph Pfeifer, Marianne Eikeland, Lars-Andre Tokheim, and Britt M.E. Moldestad

7398 ^S DOI: 10.1021/acs.energyfuels.9b01354
Two-step Gasification of Biochar for Hydrogen-Rich Gas Production: Effect of the Biochar Type and Catalyst
Hakan Cay, Gozde Duman, and Jale Yanik*

7406 DOI: 10.1021/acs.energyfuels.9b01380
Improved Fermentative Hydrogen Production with the Addition of Calcium-Lignosulfonate-Derived Biochar
Lei Zhao, Jishi Zhang,* Wenqian Zhao, and Lihua Zang

7415 DOI: 10.1021/acs.energyfuels.9b01434
Liquefaction of Sewage Sludge To Produce Bio-oil in Different Organic Solvents with *In Situ* Hydrogenation
Rundong Li,* Wenchao Teng, Yanlong Li, and Enhui Liu

7424 ^S DOI: 10.1021/acs.energyfuels.9b01473
Co-hydrothermal Liquefaction of Lignocellulosic Biomass with Kukersite Oil Shale
Ece Akalin, Young-Min Kim, Koray Alper, Vahur Oja, Kubilay Tekin, Ilknur Durukan, Muhammad Zain Siddiqui, and Selhan Karagöz*

7436 ^S DOI: 10.1021/acs.energyfuels.9b01475
Enhancing the Biogas Production of Sludge Anaerobic Digestion by a Combination of Zero-Valent Iron Foil and Persulfate
Yangqing Hu, Fei Wang,* Guojun Lv, and Yong Chi

7443 DOI: 10.1021/acs.energyfuels.9b01524
Methane Production from the Pyrolysis–Catalytic Hydrogenation of Wood

7534 ^S

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Methane Production from the Pyrolysis–Catalytic Hydrogenation of Waste Biomass: Influence of Process Conditions and Catalyst Type
Mohammad M. Jaffar, Mohamad A. Nahil, and Paul T. Williams*

7458 DOI: 10.1021/acs.energyfuels.9b01527
Influence of the Composition of Raw Bio-Oils on Their Valorization in Fluid Catalytic Cracking Conditions
Álvaro Ibarra, Idoia Hita,* José M^a Arandes, and Javier Bilbao

7466 DOI: 10.1021/acs.energyfuels.9b01640
Two-Step Sequence of Acetalization and Hydrogenation for Synthesis of Diesel Fuel Additives from Furfural and Diols
Anil Patil, Suhas Shinde, Sanjay Kamble, and Chandrashekhar V. Rode*

7473 DOI: 10.1021/acs.energyfuels.9b01750
Effects of Acidic and Alkaline Metal Triflates on the Hydrothermal Carbonization of Glucose and Cellulose
Hamza Simsir, Nurettin Eltugral, and Selhan Karagoz*

7480 DOI: 10.1021/acs.energyfuels.9b01856
Cross-Polymerization between the Typical Sugars and Phenolic Monomers in Bio-Oil: A Model Compounds Study
Kai Sun, Qing Xu, Yuewen Shao, Lijun Zhang, Qing Liu, Shu Zhang, Yi Wang,* and Xun Hu*

Environmental and Carbon Dioxide Issues

7491 DOI: 10.1021/acs.energyfuels.9b00748
Sulfur Evolution Reaction during Reduction of SO₂ with CO over Carbon Materials
Tai Feng,* Ping Zhou, Xiqiang Zhao, Longzhi Li, Xiao Xia, Shizhen Zhang, Jun Li, Luyuan Wang, and Chunyuan Ma*

7500 DOI: 10.1021/acs.energyfuels.9b00961
Postcombustion Capture of CO₂ by Diamines Containing One Primary and One Tertiary Amino Group: Reaction Rate and Mechanism
Bing Yu, Hai Yu,* Qi Yang, Kangkang Li, Long Ji, Rui Zhang, Mallavarapu Megharaj, and Zuliang Chen*

7509 DOI: 10.1021/acs.energyfuels.9b01012
Synergic Adsorption of H₂S Using High Surface Area Iron Oxide–Carbon Composites at Room Temperature
Kexin Ling, Varun Shenoy Gangoli, and Andrew R. Barron*

7522 DOI: 10.1021/acs.energyfuels.9b01136
Magnetic γ -Fe₂O₃-Loaded Attapulgite Sorbent for Hg⁰ Removal in Coal-Fired Flue Gas
Lu Dong, Yaji Huang,* Hao Chen, Lingqin Liu, Changqi Liu, Ligang Xu, Jianrui Zha, Yongxing Wang, and Hao Liu*

7534 DOI: 10.1021/acs.energyfuels.9b01255
Process Modeling and Techno-Economic Analysis of a CO₂ Capture Process Using Fixed Bed Reactors with a Microencapsulated Solvent
Goutham Kotamreddy, Ryan Hughes, Debangsu Bhattacharyya,* Joshua Stolaroff, Katherine Hornbostel, Michael Matuszewski, and Benjamin Omell

7550 DOI: 10.1021/acs.energyfuels.9b01256
CO₂ Capture Performance of Gluconic Acid Modified Limestone-Dolomite Mixtures under Realistic Conditions
Ke Wang, Feng Gu, Peter T. Clough, Pengfei Zhao, and Edward J. Anthony*

7561 DOI: 10.1021/acs.energyfuels.9b01348
Eergoeconomic Analysis of the Allam Cycle
Gonzalo Rodríguez Hervás and Fontina Petrakopoulou*

7569 DOI: 10.1021/acs.energyfuels.9b01361
Superbase/Acylamido-Based Deep Eutectic Solvents for Multiple-Site Efficient CO₂ Absorption
Bin Jiang, Jingwen Ma, Na Yang, Zhaohu Huang, Na Zhang, Xiaowei Tantai, Yongli Sun, and Luhong Zhang*

7578 DOI: 10.1021/acs.energyfuels.9b01440
Emission and Migration Characteristics of Mercury in a 0.3 MWth CFB Boiler with Ammonium Bromide-Modified Rice Husk Char Injection into Flue
Zhengkang Luo, Yufeng Duan,* Tianfang Huang, Shuai Liu, Yaji Huang, Lu Dong, Shaojun Ren, Jun Tao, and Xiaobing Gu

7587 DOI: 10.1021/acs.energyfuels.9b01530
Study on Adsorption and Desorption Performances of Trace C₄–C₆ Alkane Mixture on MIL-101(Cr) and WS-480
Tao Wang, Jing Gu, Qun Cui,* and Haiyan Wang*

7595 DOI: 10.1021/acs.energyfuels.9b01579
Comparing the Catalytic Activity of Silica-Supported Vanadium Oxides and the Polymer Nanofiber-Supported Oxidovanadium(IV) Complex toward Oxidation of Refractory Organosulfur Compounds in Hydrotreated Diesel
Tendai O. Dembaremba,* Rina van Der Westhuizen, Werner Welthagen, Ernst Ferg, Adeniyi S. Ogunlaja,* and Zenixole R. Tshentu*

7604 DOI: 10.1021/acs.energyfuels.9b01621
Experimental Study on Spontaneous Imbibition of CO₂-Rich Brine in Tight Oil Reservoirs
Yongqiang Tang, Rui Wang, Zihao Li, Maolei Cui, Zengmin Lun, and Yu Lu*

7614 DOI: 10.1021/acs.energyfuels.9b01764
Characterization and Correlations of CO₂ Absorption Performance into Aqueous Amine Blended Solution of Monoethanolamine (MEA) and *N,N*-Dimethylethanolamine (DMEA) in a Packed Column
Hao Ling, Sen Liu, Tianyu Wang, Hongxia Gao,* and Zhiwu Liang*

7626

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Preparation of High Sorption Durability Nano-CaO–ZnO CO₂ Adsorbent
Hao Liu and Sufang Wu*

Efficiency and Sustainability

7634

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Graphene-Modified Hydrate Salt/UV-Curable Resin Form-Stable Phase Change Materials: Continuously Adjustable Phase Change Temperature and Ultrafast Solar-to-Thermal Conversion
Kunyang Yu, Yushi Liu,* Fuzheng Sun, Minjie Jia, and Yingzi Yang*

7645

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Mineralogy and Petrology of Chars Produced by South African Caking Coals and Density-Separated Fractions during Pyrolysis and Their Effects on Caking Propensity
Mosele M. Tsemame, Ratale H. Matjie,* John R. Bunt, Hein W. J. P. Neomagus, Christien A. Strydom, Frans B. Waanders, Chris Van Alphen, and Romanus Uwaoma

7659

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Effect of Nitro Groups on Desulfurization Efficiency of Benzyl-Substituted Imidazolium-Based Ionic Liquids: Experimental and Computational Approach
Rabi Narayan Patra and Ramesh L. Gardas*

Catalysis and Kinetics

7667

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Coal Char Reaction with Oxygen Carrier in Chemical Looping Combustion
Tomonao Saito* and Shiyang Lin

7678

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Impact of Iron Tallate on the Kinetic Behavior of the Oxidation Process of Heavy Oils
Mohammed A. Khelkhal, Alexey A. Eskin, Sergey A. Sitnov, and Alexey V. Vakhin*

7684

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Kinematic Study of Methane Hydrate Formation and Self-Preservation in the Presence of Functionalized Carbon Nanotubes
Omar Nashed, Bhajan Lal,* Behzad Partoon, Khalik M. Sabil, and Yaman Hamed

7696

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High-Loading Nickel Phosphide Catalysts Supported on SiO₂–TiO₂ for Hydrodeoxygenation of Guaiacol
Peng Zhang, Yu Sun, Mohong Lu,* Jie Zhu, Mingshi Li,* Yuhua Shan, Jianyi Shen, and Chunshan Song

7705

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Glycerol Esterification over Sn(II)-Exchanged Keggin Heteropoly Salt Catalysts: Effect of Thermal Treatment Temperature
Diego Morais Chaves, Sukarno Olavo Ferreira, Rene Chagas da Silva, Ricardo Natalino, and Márcio José da Silva*

7717

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Growth Kinetics of Methane Hydrate in a Pilot-Scale Flow Loop
Xiao-dong Shen, De-qing Liang,* and Nobuo Maeda

7726

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Catalytic Study of Hexadecane Cracking over Novel and Efficient HY/Al-HMS/K10 Hybrid Catalysts
Sara Masoudinejad and Vahid Mahdavi*

Combustion

7738

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Micromechanism of the Initiation of a Multiple Flammable Gas Explosion
Zhenmin Luo, Bin Su,* Qing Li, Tao Wang, Xiaofeng Kang, Fangming Cheng, Shuaishuai Gao, and Litao Liu

7749

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Laminar Burning Velocity of Premixed Ethanol–Air Mixtures with Laser-Induced Spark Ignition Using the Constant-Volume Method
Cangsu Xu, Hanyu Wang, Kangquan Zhou, Xiaolu Li, Wenhua Zhou, Weinan Liu, and Chongming Wang*

7759

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Flame–Wall Interaction Effects on Diesel Post-injection Combustion and Soot Formation Processes
H. L. Yip,* I. M. Rizwanul Fattah, A.C.Y. Yuen, W. Yang, P. R. Medwell, S. Kook, G. H. Yeoh, and Q. N. Chan*

7770

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Ash Transformation During Single-Pellet Combustion of a Silicon-Poor Woody Biomass
Anna Strandberg, Markus Carlborg, Christoffer Boman, and Markus Broström*

7778

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Insights into the Effects of Mechanism Reduction on the Performance of *n*-Decane and Its Ability to Act as a Single-Component Surrogate for Jet Fuels
Mohsin Raza, Yebing Mao, Liang Yu, and Xingcai Lu*

7791

DOI: 10.1021/acs.energyfuels.9b01035

Ethanol Kinetic Model Development and Validation at Wide Ranges of Mixture Temperatures, Pressures, and Equivalence Ratios
A. Zyada and O. Samimi-Abianeh*

7805

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Fuel Cells

- 7805
Detection Improvement of Unburned Carbon Content in Fly Ash Flow Using LIBS with a Two-Stage Cyclone Measurement System
 Zhenzhen Wang, Renwei Liu, Yoshihiro Deguchi,* Seiya Tanaka, Kazuki Tainaka, Kenji Tanno, Hiroaki Watanabe, Junjie Yan, and Jiping Liu
 DOI: 10.1021/acs.energyfuels.9b01161
- 7813
Removal Characteristics of Sulfuric Acid Aerosols in the Wet Electrostatic Precipitator System
 Danping Pan,* Conghui Gu, Dongping Zhang, and Fan Zeng
 DOI: 10.1021/acs.energyfuels.9b01339
- 7819 ^S
Combustion Evaluation of Renewable Fuels for Iron-Ore Pellet Induration
 Henrik Wiinikka,* Alexey Sepman, Yngve Ögren, Bo Lindblom, and Lars-Olof Nordin
 DOI: 10.1021/acs.energyfuels.9b01356
- 7830
Efficiency of Different Heat Exchange Mechanisms for Ignition of Coal–Water Compositions
 Roman I. Egorov,* Roman I. Taburchinov, and Alexandr S. Zaitsev
 DOI: 10.1021/acs.energyfuels.9b01360
- 7835 ^S
Influence of Different Core Mechanisms on Low-Temperature Combustion Characteristics of Large Hydrocarbon Fuels
 Junjiang Guo,* Shuhao Li, Shiyun Tang, Lihua Xiao, and Ningxin Tan
 DOI: 10.1021/acs.energyfuels.9b01365
- 7852
Adsorption and Oxidation of Mercury by Montmorillonite Powder Modified with Different Copper Compounds
 Xiaoyang Zhang, Lin Cui,* Yuzhong Li, Yongchun Zhao, Yong Dong,* and Shensong Cao
 DOI: 10.1021/acs.energyfuels.9b01294
- 7861
Formation and Emission Characteristics of Ammonium Sulfate Aerosols in Flue Gas Downstream of Selective Catalytic Reduction
 Teng Cheng, Lvyan Luo, LinJun Yang, Hongmei Fan, and Hao Wu*
 DOI: 10.1021/acs.energyfuels.9b01436
- 7869
Numerical and Experimental Assessment of a Novel Multinozzle Burner with CO₂ Diluent to Improve the Emissions from a Swirling Flame in a Combustion Chamber
 Lei Zhang, Sheng Hui, Yuqi Yang, Rui Sun,* Tamer M. Ismail,* Mohamed Abd El-Salam, and Xiaohan Ren
 DOI: 10.1021/acs.energyfuels.9b01446
- 7886
Optical Measurements of In-Flame Soot in Compression-Ignited Methyl Ester Flames
 Karl Oskar Pires Bjørgen,* David Robert Emberson, and Terese Løvås
 DOI: 10.1021/acs.energyfuels.9b01467

Fuel Cells

- 7901
Gas Atmosphere Effects Over the Anode Compartment of a Tubular Direct Carbon Fuel Cell Module
 Michael Glenn, Bobby Mathan, Md Monirul Islam, Yaser Beyad, Jessica A. Allen, and Scott W. Donne*
 DOI: 10.1021/acs.energyfuels.9b01727

Process Engineering

- 7908 ^S
A Distillation Approach to Phase Equilibrium Measurements of Multicomponent Fluid Mixtures
 Megan E. Harries,* Marcia L. Huber, and Thomas J. Bruno
 DOI: 10.1021/acs.energyfuels.9b01366