

David A Bruce

List of Publications by Year in descending order

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25
papers

3,046
citations

471509

17
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

3411
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Biodiesel via Acid Catalysis. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 5353-5363.	3.7	1,384
2	Transesterification of triacetin with methanol on solid acid and base catalysts. <i>Applied Catalysis A: General</i> , 2005, 295, 97-105.	4.3	489
3	Esterification and transesterification on tungstated zirconia: Effect of calcination temperature. <i>Journal of Catalysis</i> , 2007, 247, 43-50.	6.2	221
4	Esterification and transesterification using modified-zirconia catalysts. <i>Applied Catalysis A: General</i> , 2008, 339, 76-83.	4.3	221
5	Design and Synthesis of Copper-Cobalt Catalysts for the Selective Conversion of Synthesis Gas to Ethanol and Higher Alcohols. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6397-6401.	13.8	209
6	The Synthesis and Characterization of an Aluminophosphate with Chiral Layers; $\text{trans-Co}(\text{dien})_2\text{Al}_3\text{P}_4\text{O}_{16}\cdot 3\text{H}_2\text{O}$. <i>Journal of Solid State Chemistry</i> , 1996, 125, 228-233.	2.9	114
7	Dry Reforming of Methane on Rh-Doped Pyrochlore Catalysts: A Steady-State Isotopic Transient Kinetic Study. <i>ACS Catalysis</i> , 2016, 6, 3826-3833.	11.2	59
8	Development of Force Field Parameters for Molecular Simulation of Polylactide. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3756-3767.	5.3	48
9	Energy Life Cycle Assessment for the Production of Biodiesel from Rendered Lipids in the United States. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 2419-2432.	3.7	35
10	Microkinetic model for the dry reforming of methane on Rh doped pyrochlore catalysts. <i>Journal of Catalysis</i> , 2016, 340, 196-204.	6.2	34
11	Thermal degradation kinetics of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>Journal of Applied Polymer Science</i> , 2005, 98, 66-74.	2.6	31
12	Ab initio derived reaction mechanism for the dry reforming of methane on Rh doped pyrochlore catalysts. <i>Journal of Catalysis</i> , 2016, 333, 59-70.	6.2	31
13	Synthesis and Characterization of Dendrimer-Templated Mesoporous Oxidation Catalysts. <i>Catalysis Letters</i> , 2004, 98, 29-36.	2.6	30
14	Reaction Kinetics and Mechanism for the Gas- and Liquid-Phase Esterification of Acetic Acid with Methanol on Tungstated Zirconia. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 2221-2230.	3.7	28
15	Synthesis, Characterization, and Computation of Catalysts at the Center for Atomic-Level Catalyst Design. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20043-20069.	3.1	21
16	Molecular Dynamics Simulations of Helix-Forming, Amine-Functionalized m -Poly(phenyleneethynylene)s. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7548-7556.	2.6	19
17	Solvophobic and Steric Effects of Side Groups on Polymer Folding: A Molecular Modeling Studies of Amine-Functionalized m -Poly(phenyleneethynylene) Foldamers in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19952-19959.	2.6	17
18	Continuum Electrostatics for Electronic Structure Calculations in Bulk Amorphous Polymers: Application to Polylactide. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7244-7249.	2.5	15

#	ARTICLE	IF	CITATIONS
19	Kinetics of the catalytic polymerization of pyrene with AlCl ₃ . Carbon, 2018, 134, 1-8.	10.3	14
20	Molecular Design of Functionalized <i>m</i> -Poly(phenylene ethynylene) Foldamers: from Simulation to Synthesis. Macromolecules, 2010, 43, 5932-5942.	4.8	10
21	Controlling the Poly(phenylene ethynylene) Helical Cavity Environment: Hydrogen Bond Stabilized Helical Structures. Macromolecules, 2011, 44, 60-67.	4.8	8
22	Maximizing the formation of low-melting, mesogenic oligomers from the catalytic polymerization of pyrene. Carbon, 2019, 155, 483-490.	10.3	3
23	Title is missing!. Journal of Chemical Crystallography, 2003, 33, 569-574.	1.1	2
24	Water-soluble <i>meta</i> -poly(phenylene ethynylene) oligomers with stable helical secondary structure. Journal of Polymer Science Part A, 2012, 50, 2019-2028.	2.3	2
25	Alumatrane revisited: Distribution of oligomeric ions in electron impact ionization, chemical ionization and liquid secondary ion mass spectra. Journal of Mass Spectrometry, 1995, 30, 741-746.	1.6	1