

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	Maximizing the formation of low-melting, mesogenic oligomers from the catalytic polymerization of pyrene. Carbon, 2019, 155, 483-490.	10.3	3
2	Kinetics of the catalytic polymerization of pyrene with AlCl ₃ . Carbon, 2018, 134, 1-8.	10.3	14
3	Dry Reforming of Methane on Rh-Doped Pyrochlore Catalysts: A Steady-State Isotopic Transient Kinetic Study. ACS Catalysis, 2016, 6, 3826-3833.	11.2	59
4	Microkinetic model for the dry reforming of methane on Rh doped pyrochlore catalysts. Journal of Catalysis, 2016, 340, 196-204.	6.2	34
5	Ab initio derived reaction mechanism for the dry reforming of methane on Rh doped pyrochlore catalysts. Journal of Catalysis, 2016, 333, 59-70.	6.2	31
6	Design and Synthesis of Copper-Cobalt Catalysts for the Selective Conversion of Synthesis Gas to Ethanol and Higher Alcohols. Angewandte Chemie - International Edition, 2014, 53, 6397-6401.	13.8	209
7	Synthesis, Characterization, and Computation of Catalysts at the Center for Atomic-Level Catalyst Design. Journal of Physical Chemistry C, 2014, 118, 20043-20069.	3.1	21
8	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
9	Controlling the Poly(phenylene ethynylene) Helical Cavity Environment: Hydrogen Bond Stabilized Helical Structures. Macromolecules, 2011, 44, 60-67.	4.8	8
10	Development of Force Field Parameters for Molecular Simulation of Polylactide. Journal of Chemical Theory and Computation, 2011, 7, 3756-3767.	5.3	48
11	Molecular Design of Functionalized <i>meta</i> -Poly(phenylene ethynylene) Foldamers: from Simulation to Synthesis. Macromolecules, 2010, 43, 5932-5942.	4.8	10
12	Energy Life Cycle Assessment for the Production of Biodiesel from Rendered Lipids in the United States. Industrial & Engineering Chemistry Research, 2010, 49, 2419-2432.	3.7	35
13	Esterification and transesterification using modified-zirconia catalysts. Applied Catalysis A: General, 2008, 339, 76-83.	4.3	221
14	Continuum Electrostatics for Electronic Structure Calculations in Bulk Amorphous Polymers: Application to Polylactide. Journal of Physical Chemistry A, 2008, 112, 7244-7249.	2.5	15
15	Reaction Kinetics and Mechanism for the Gas- and Liquid-Phase Esterification of Acetic Acid with Methanol on Tungstated Zirconia. Industrial & Engineering Chemistry Research, 2008, 47, 2221-2230.	3.7	28
16	Esterification and transesterification on tungstated zirconia: Effect of calcination temperature. Journal of Catalysis, 2007, 247, 43-50.	6.2	221
17	Transesterification of triacetin with methanol on solid acid and base catalysts. Applied Catalysis A: General, 2005, 295, 97-105.	4.3	489
18	Thermal degradation kinetics of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). Journal of Applied Polymer Science, 2005, 98, 66-74.	2.6	31

#	ARTICLE	IF	CITATIONS
19	Molecular Dynamics Simulations of Helix-Forming, Amine-Functionalizedm-Poly(phenyleneethynylene)s. Journal of Physical Chemistry B, 2005, 109, 7548-7556.	2.6	19
20	Solvophobic and Steric Effects of Side Groups on Polymer Folding:Â Molecular Modeling Studies of Amine-Functionalizedm-Poly(phenyleneethynylene) Foldamers in Aqueous Solution. Journal of Physical Chemistry B, 2005, 109, 19952-19959.	2.6	17
21	Synthesis of Biodiesel via Acid Catalysis. Industrial & Engineering Chemistry Research, 2005, 44, 5353-5363.	3.7	1,384
22	Synthesis and Characterization of Dendrimer-Templated Mesoporous Oxidation Catalysts. Catalysis Letters, 2004, 98, 29-36.	2.6	30
23	Title is missing!. Journal of Chemical Crystallography, 2003, 33, 569-574.	1.1	2
24	The Synthesis and Characterization of an Aluminophosphate with Chiral Layers;trans-Co(dien)2Â-Al3P4O16Â-3H2O. Journal of Solid State Chemistry, 1996, 125, 228-233.	2.9	114
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