

Debasish Kuila

List of Publications by Year in descending order

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37
papers

982
citations

471509

17
h-index

477307

29
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38
all docs

38
docs citations

38
times ranked

1191
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous nanocrystalline TiO ₂ supported metal (Cu, Co, Ni, Pd, Zn, and Sn) catalysts: Effect of metal-support interactions on steam reforming of methanol. <i>Journal of Molecular Catalysis A</i> , 2015, 408, 202-213.	4.8	158
2	Steam reforming of methanol, ethanol and glycerol over nickel-based catalysts-A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18090-18113.	7.1	123
3	Comparative performance of M-MCM-41 (M: Cu, Co, Ni, Pd, Zn and Sn) catalysts for steam reforming of methanol. <i>Journal of Molecular Catalysis A</i> , 2016, 425, 10-20.	4.8	102
4	Synthesis of stable Cu-MCM-41 nanocatalysts for H ₂ production with high selectivity via steam reforming of methanol. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 10439-10452.	7.1	82
5	Tris(hydroxyphenyl)ethane Benzotriazole: A Copolymerizable UV Light Stabilizer, 1a. <i>Chemistry of Materials</i> , 1999, 11, 109-116.	6.7	68
6	Resonance Raman studies of Rieske-type proteins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1992, 1140, 175-183.	1.0	60
7	Resonance Raman spectra of the [2Fe-2S] clusters of the Rieske protein from <i>Thermus</i> and phthalate dioxygenase from <i>Pseudomonas</i> . <i>Journal of the American Chemical Society</i> , 1987, 109, 1559-1561.	13.7	47
8	Cryogenic Electron Tunneling within Mixed-Metal Hemoglobin Hybrids: Protein Glassing and Electron-Transfer Energetics. <i>Journal of the American Chemical Society</i> , 1998, 120, 11401-11407.	13.7	36
9	Temperature-independent electron transfer in mixed-metal hemoglobin hybrids. <i>The Journal of Physical Chemistry</i> , 1991, 95, 1-3.	2.9	32
10	Kinetics of Fischer-Tropsch Synthesis in a 3-D Printed Stainless Steel Microreactor Using Different Mesoporous Silica Supported Co-Ru Catalysts. <i>Catalysts</i> , 2019, 9, 872.	3.5	24
11	Comparative Studies of Silica-Encapsulated Iron, Cobalt, and Ruthenium Nanocatalysts for Fischer-Tropsch Synthesis in Silicon-Microchannel Microreactors. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16245-16253.	3.7	23
12	Microreactors for Syngas Conversion to Higher Alkanes: Characterization of Sol-Gel-Encapsulated Nanoscale Fe-Co Catalysts in the Microchannels. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 5602-5607.	3.7	22
13	Fischer-Tropsch studies in a 3D-printed stainless steel microchannel microreactor coated with cobalt-based bimetallic-MCM-41 catalysts. <i>Catalysis Today</i> , 2020, 358, 303-315.	4.4	22
14	Effect of titania support on Fischer-Tropsch synthesis using cobalt, iron, and ruthenium catalysts in silicon-microchannel microreactor. <i>Molecular Catalysis</i> , 2019, 478, 110566.	2.0	21
15	Metal-incorporated mesoporous oxides: Synthesis and applications. <i>Journal of Hazardous Materials</i> , 2021, 401, 123348.	12.4	19
16	INVESTIGATION OF A NOVEL MICROREACTOR FOR ENHANCING MIXING AND CONVERSION. <i>Chemical Engineering Communications</i> , 2008, 195, 745-757.	2.6	18
17	Zinc and magnesium substitution in hemoglobin: cyclic electron transfer within mixed-metal hybrids and crystal structure of MgHb. <i>Journal of the American Chemical Society</i> , 1991, 113, 6520-6526.	13.7	17
18	Microreactors for Syngas Conversion to Higher Alkanes: Effect of Ruthenium on Silica-Supported Iron-Cobalt Nanocatalysts. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 1684-1688.	3.7	17

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19	Fabrication and characterization of an indium tin oxide-octadecanethiol-aluminum junction for molecular electronics. <i>Applied Physics Letters</i> , 2006, 88, 233104.	3.3	14
20	Synthesis and characterization of non-noble nanocatalysts for hydrogen production in microreactors. <i>Journal of Power Sources</i> , 2007, 163, 630-636.	7.8	14
21	Molecular Rectifying Diodes Based on an Aluminum/ ⁴ -Hydroxy-4-biphenyl Carboxylic Acid/ ⁺ -Silicon Junction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20877-20884.	3.1	12
22	Kinetics and mechanisms of dealkylation reactions of N-methylporphyrin complexes. 3. Effects of porphyrin ring substituents and reaction media. <i>Inorganic Chemistry</i> , 1983, 22, 1095-1099.	4.0	9
23	Long-Range Electron Transfer Within Mixed-Metal Hemoglobin Hybrids. <i>Advances in Chemistry Series</i> , 1991, , 201-213.	0.6	9
24	Scale-up of high-pressure F-T synthesis in 3D printed stainless steel microchannel microreactors: Experiments and modeling. <i>Catalysis Today</i> , 2022, 397-399, 182-196.	4.4	9
25	Cu-Ni Nanocatalysts in Mesoporous MCM-41 and TiO ₂ to Produce Hydrogen for Fuel Cells via Steam Reforming Reactions. <i>Advanced Materials Research</i> , 0, 1096, 161-168.	0.3	6
26	Development of Mesoporous Silica Encapsulated Pd-Ni Nanocatalyst for Hydrogen Production. <i>ACS Symposium Series</i> , 2011, , 177-190.	0.5	4
27	Atomic Layer Deposition of Cobalt Catalyst for Fischer-Tropsch Synthesis in Silicon Microchannel Microreactor. <i>Nanomaterials</i> , 2022, 12, 2425.	4.1	4
28	Gas-phase studies on reductive cyclization to a benzotriazole derivative from its precursors by liquid chromatography/thermabeam tandem mass spectrometry. <i>Organic Mass Spectrometry</i> , 1994, 29, 226-231.	1.3	3
29	Fischer-Tropsch Synthesis in Silicon and 3D Printed Stainless Steel Microchannel Microreactors. , 2021, , 429-457.		3
30	Growth and Functionality of Cells Cultured on Conducting and Semi-Conducting Surfaces Modified with Self-Assembled Monolayers (SAMs). <i>Coatings</i> , 2016, 6, 9.	2.6	2
31	Electron spin resonance studies of two copper(II) N-alkylporphyrins. <i>Inorganica Chimica Acta</i> , 1985, 99, L9-L11.	2.4	1
32	Silica Sol-Gel Supported Nickel Nano-Catalyst for Hydrogen Production Using Microreactors. <i>Materials Research Society Symposia Proceedings</i> , 2005, 885, 1.	0.1	0
33	Synthesis and Characterization of Bimetallic Pd-Co Nano Magnetic Materials in Mesoporous Silica. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1118, 9.	0.1	0
34	Immobilized Growth Factor and peptide on indium tin oxide (ITO) scaffold for long-term hepatocyte culture towards developing a hepatotoxicity bioreactor. , 2016, , .		0
35	Porous silicon substrates support osteogenic differentiation of mesenchymal stem cells. , 2016, , .		0
36	Metal-Molecule Heterostructures: Charge Transfer. , 0, , 2522-2534.		0

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37	Effects of Mesoporous Supports and Metals on Steam Reforming of Alcohols. , 2019, , 93-108.		0