

Bing-Hung Chen

List of Publications by Year in descending order

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86
papers

3,617
citations

101496

36
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138417

58
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87
all docs

87
docs citations

87
times ranked

3865
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of CO ₂ absorption using chemical solvents in hollow fiber membrane contactors. <i>Separation and Purification Technology</i> , 2005, 41, 109-122.	3.9	481
2	Hydrogen generation from hydrolysis of sodium borohydride using Ni@Ru nanocomposite as catalysts. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2153-2163.	3.8	179
3	Solubilization of model polycyclic aromatic hydrocarbons by nonionic surfactants. <i>Chemical Engineering Science</i> , 2002, 57, 2825-2835.	1.9	122
4	Surfactant-mediated Biodegradation of Polycyclic Aromatic Hydrocarbons. <i>Materials</i> , 2009, 2, 76-94.	1.3	118
5	Preparation of magnetic cobalt-based catalyst for hydrogen generation from alkaline NaBH ₄ solution. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 368-379.	10.8	109
6	Electrochemical and Raman spectroscopic evaluation of Pt/graphitized carbon black catalyst durability for the start/stop operating condition of polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2012, 70, 171-181.	2.6	107
7	Creating New Supramolecular Materials by Architecture of Three-Dimensional Nanocrystal Fiber Networks. <i>Journal of the American Chemical Society</i> , 2002, 124, 15055-15063.	6.6	103
8	Effects of additives on the cloud points of selected nonionic linear ethoxylated alcohol surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 346, 237-243.	2.3	98
9	Hydrogen generation from catalytic hydrolysis of sodium borohydride using bimetallic Ni@Co nanoparticles on reduced graphene oxide as catalysts. <i>Energy</i> , 2015, 90, 1973-1982.	4.5	97
10	Effects of Surfactants in an Electroless Nickel-Plating Bath on the Properties of Ni~P Alloy Deposits. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 2668-2678.	1.8	89
11	A Novel Cloud-Point Extraction Process for Preconcentrating Selected Polycyclic Aromatic Hydrocarbons in Aqueous Solution. <i>Environmental Science & Technology</i> , 2001, 35, 3936-3940.	4.6	85
12	Equilibrium partition of polycyclic aromatic hydrocarbons in a cloud-point extraction process. <i>Journal of Colloid and Interface Science</i> , 2003, 263, 625-632.	5.0	78
13	Regeneration of spent-NaBH ₄ back to NaBH ₄ by using high-energy ball milling. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 1717-1725.	3.8	72
14	Application of kaolin-based catalysts in biodiesel production via transesterification of vegetable oils in excess methanol. <i>Bioresource Technology</i> , 2013, 145, 175-181.	4.8	70
15	Synthesis of Intelligent pH Indicative Films from Chitosan/Poly(vinyl alcohol)/Anthocyanin Extracted from Red Cabbage. <i>Polymers</i> , 2019, 11, 1088.	2.0	61
16	Hydrogen generated from hydrolysis of ammonia borane using cobalt and ruthenium based catalysts. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2950-2959.	3.8	60
17	Cloud-point extraction of selected polycyclic aromatic hydrocarbons by nonionic surfactants. <i>Separation and Purification Technology</i> , 2007, 57, 1-10.	3.9	58
18	Role of a Pb ²⁺ Stabilizer in the Electroless Nickel Plating System: A Theoretical Exploration. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10919-10929.	1.2	53

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19	Rates of solubilization of triolein into nonionic surfactant solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1997, 128, 129-143.	2.3	51
20	Effect of nonionic surfactants on biodegradation of phenanthrene by a marine bacteria of <i>Neptunomonas naphthovorans</i> . <i>Journal of Hazardous Materials</i> , 2009, 162, 66-73.	6.5	51
21	Microemulsion Syntheses of Sn and SnO ₂ -Graphite Nanocomposite Anodes for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2004, 151, A563.	1.3	49
22	Meso-Functionalization of Silk Fibroin by Upconversion Fluorescence and Near Infrared In Vivo Biosensing. <i>Advanced Functional Materials</i> , 2017, 27, 1700628.	7.8	48
23	Optimization of biodiesel production from transesterification of triolein using zeolite LTA catalysts synthesized from kaolin clay. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 79, 14-22.	2.7	47
24	Dye-sensitized TiO ₂ solar cells based on nanocomposite photoanode containing plasma-modified multi-walled carbon nanotubes. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 47-57.	4.4	46
25	Polymeric nanospheres fabricated with natural emulsifiers for clinical administration of an anticancer drug paclitaxel (Taxol®). <i>Materials Science and Engineering C</i> , 2002, 20, 85-92.	3.8	45
26	Role of Cu ²⁺ as an Additive in an Electroless Nickel-Phosphorus Plating System: A Stabilizer or a Codeposit?. <i>Chemistry of Materials</i> , 2006, 18, 2959-2968.	3.2	43
27	High-silica zeolite beta as a heterogeneous catalyst in transesterification of triolein for biodiesel production. <i>Catalysis Today</i> , 2016, 278, 335-343.	2.2	43
28	Rates of Solubilization of Triolein/Fatty Acid Mixtures by Nonionic Surfactant Solutions. <i>Langmuir</i> , 1998, 14, 31-41.	1.6	42
29	Order parameter and interfacial tension of a colloid-polymer system. <i>Physical Review E</i> , 2000, 62, 2369-2372.	0.8	42
30	Synthesis of solid-state NaBH ₄ /Co-based catalyst composite for hydrogen storage through a high-energy ball-milling process. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4027-4040.	3.8	42
31	Modeling the stability of electroless plating bath diffusion of nickel colloidal particles from the plating frontier. <i>Journal of Colloid and Interface Science</i> , 2003, 262, 89-96.	5.0	40
32	Nonionic Surfactant and Temperature Effects on the Viscosity of Hydrophobically Modified Hydroxyethyl Cellulose Solutions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14198-14204.	1.2	40
33	Novel fabrication of solid-state NaBH ₄ /Ru-based catalyst composites for hydrogen evolution using a high-energy ball-milling process. <i>Journal of Power Sources</i> , 2010, 195, 3887-3892.	4.0	40
34	Plasma enhanced chemical vapor deposition silicon nitride for a high-performance lithium ion battery anode. <i>Journal of Power Sources</i> , 2014, 269, 520-525.	4.0	38
35	Recent advances in one-stage conversion of lipid-based biomass-derived oils into fuel components aromatic and isomerized alkanes. <i>Fuel</i> , 2020, 278, 118255.	3.4	38
36	Study of Interaction between Cetyltrimethylammonium Bromide and Poly(acrylic acid) by Rheological Measurements. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6491-6496.	1.2	36

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37	Rheological characteristics of the cationic polyelectrolyte flocculated wastewater sludge. <i>Water Research</i> , 2005, 39, 4429-4435.	5.3	34
38	Microemulsion Synthesis of Tin Oxide-Graphite Nanocomposites as Negative Electrode Materials for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2003, 6, A19.	2.2	33
39	Self-emulsifying O/W formulations of paclitaxel prepared from mixed nonionic surfactants. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 2320-2332.	1.6	32
40	Effects of reduction temperature and pH value of polyol process on reduced graphene oxide supported Pt electrocatalysts for oxygen reduction reaction. <i>Energy</i> , 2014, 70, 231-238.	4.5	32
41	Dissolution Rates of Pure Nonionic Surfactants. <i>Langmuir</i> , 2000, 16, 5276-5283.	1.6	31
42	Hydrodeoxygenation of palmitic acid over zeolite-supported nickel catalysts. <i>Catalysis Today</i> , 2021, 379, 124-131.	2.2	31
43	Transesterification of Triolein to Biodiesel Using Sodium-Loaded Catalysts Prepared from Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 9959-9965.	1.8	29
44	Hydrogen production from hydrolysis of ammonia borane with limited water supply. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15681-15690.	3.8	28
45	A study on the interfacial composition of the electroless-copper-plated BPDA-PDA polyimide sheet. <i>Journal of Materials Chemistry</i> , 2003, 13, 818-824.	6.7	27
46	Preparation of cancrinite-type zeolite from diatomaceous earth as transesterification catalysts for biodiesel production. <i>Renewable Energy</i> , 2021, 174, 347-358.	4.3	27
47	A novel design of solid-state NaBH ₄ composite as a hydrogen source for 2W PEMFC applications. <i>Journal of Power Sources</i> , 2011, 196, 3530-3538.	4.0	26
48	Transesterification of acid soybean oil for biodiesel production using lithium metasilicate catalyst prepared from diatomite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 79, 31-36.	2.7	26
49	Preconcentration of Phenanthrene from Aqueous Solution by a Slightly Hydrophobic Nonionic Surfactant. <i>Langmuir</i> , 2004, 20, 6068-6070.	1.6	23
50	Solubilization of selected polycyclic aromatic compounds by nonionic surfactants. <i>Journal of Surfactants and Detergents</i> , 2006, 9, 237-244.	1.0	22
51	Biodiesel Produced from Catalyzed Transesterification of Triglycerides Using ion-Exchanged Zeolite Beta and MCM-22. <i>Energy Procedia</i> , 2014, 61, 933-936.	1.8	21
52	Interaction between a Nonionic Surfactant and a Hydrophobically Modified 2-Hydroxyethyl Cellulose. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4909-4916.	1.2	20
53	Resist trimming in high-density CF ₄ /O ₂ plasmas for sub-0.1 μ m device fabrication. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 1974.	1.6	19
54	Slow Release of Drug through Deformed Coating Film: Effects of Morphology and Drug Diffusivity in the Coating Film. <i>Journal of Pharmaceutical Sciences</i> , 2001, 90, 1478-1496.	1.6	18

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55	Trimethyl Borate Regenerated from Spent Sodium Borohydride after Hydrogen Production. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9864-9869.	1.8	18
56	Optimization of sodium loading on zeolite support for catalyzed transesterification of triolein with methanol. <i>Bioresource Technology</i> , 2013, 145, 248-253.	4.8	17
57	Hydrogen generation from deliquescence of ammonia borane using Ni-Co/r-GO catalyst. <i>Journal of Power Sources</i> , 2015, 293, 343-350.	4.0	17
58	Low-Al Zeolite Beta as a Heterogeneous Catalyst in Biodiesel Production from Microwave-assisted Transesterification of Triglycerides. <i>Energy Procedia</i> , 2014, 61, 918-921.	1.8	16
59	Metasilicate-based catalyst prepared from natural diatomaceous earth for biodiesel production. <i>Renewable Energy</i> , 2019, 138, 1042-1050.	4.3	16
60	Turbidity and critical behavior of a colloid-polymer system. <i>Physical Review E</i> , 2001, 64, 042401.	0.8	15
61	Finite element analysis of slow drug release through deformed coating film: effects of morphology and average thickness of coating film. <i>International Journal of Pharmaceutics</i> , 2002, 234, 25-42.	2.6	15
62	Micellization and gelation of PEO-PPO-PEO binary mixture with non-identical PPO block lengths in aqueous solution. <i>Polymer</i> , 2014, 55, 5284-5291.	1.8	15
63	Heterogeneous Catalysts Using Strontium Oxide Agglomerates Depositing upon Titanium Plate for Enhancing Biodiesel Production. <i>Catalysts</i> , 2021, 11, 30.	1.6	15
64	Interaction between Hydrophobically Modified 2-Hydroxyethyl Cellulose and Sodium Dodecyl Sulfate Studied by Viscometry and Two-Dimensional NOE NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6922-6930.	1.2	14
65	Optimization in esterification of palmitic acid with excess methanol by solid acid catalyst. <i>Fuel Processing Technology</i> , 2013, 109, 7-12.	3.7	13
66	Preparation of Microemulsion from an Alkyl Polyglycoside Surfactant and Tea Tree Oil. <i>Molecules</i> , 2021, 26, 1971.	1.7	13
67	Incorporation of plasma-functionalized carbon nanocapsules into a nanocrystalline TiO ₂ photoanode for use in dye-sensitized solar cells. <i>Carbon</i> , 2011, 49, 4898-4910.	5.4	12
68	The Concept about the Regeneration of Spent Borohydrides and Used Catalysts from Green Electricity. <i>Materials</i> , 2015, 8, 3456-3466.	1.3	12
69	Dissolution of nonionic surfactant mixtures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 183-185, 191-202.	2.3	11
70	Solubilization of Selected Free Fatty Acids in Palm Oil by Biodegradable Ethoxylated Surfactants. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 4476-4483.	2.4	11
71	Recovering phenanthrene from spiked sand by a combined remediation process of micellar solubilization and cloud-point extraction. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2008, 39, 337-342.	1.4	10
72	Fabrication of magnetic nickel-tungsten-phosphorus particles by electroless deposition. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 305, 342-347.	1.0	9

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73	Nonionic Microemulsions as Solubilizers of Hydrophobic Drugs: Solubilization of Paclitaxel. <i>Materials</i> , 2016, 9, 761.	1.3	9
74	Corrosive Behavior of Tungsten in Post Dry-Etch Residue Remover. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 6096-6103.	1.8	8
75	Rheological Behavior of Wastewater Sludge Following Cationic Polyelectrolyte Flocculation. <i>Drying Technology</i> , 2006, 24, 1289-1295.	1.7	8
76	Application of L3 sponge phase in extraction of polycyclic aromatic hydrocarbons. <i>AIChE Journal</i> , 2007, 53, 1450-1459.	1.8	8
77	Solubilisation of triolein by microemulsions containing C12E4/hexadecane/water: Equilibrium and dynamics. <i>Journal of Colloid and Interface Science</i> , 2008, 325, 508-515.	5.0	8
78	Hydrogen Storage in a Chemical Hydride Fuel System Containing Ammonia Borane and Ni-Co/r-GO Catalyst. <i>Energy Procedia</i> , 2014, 61, 142-145.	1.8	8
79	Resist trimming technique in CF ₄ /O ₂ high-density plasmas for sub-0.1 μ m MOSFET fabrication using 248-nm lithography. <i>Microelectronic Engineering</i> , 2003, 65, 394-405.	1.1	5
80	Description of multi-particle systems using Voronoi polyhedra. <i>Powder Technology</i> , 2001, 119, 81-88.	2.1	4
81	Characteristics of Magnetic Mesoparticles Fabricated by Electroless Nickel Deposition. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 3021-3029.	1.8	3
82	Effect of halogen in high-density oxygen plasmas on photoresist trimming. <i>AIChE Journal</i> , 2004, 50, 1578-1588.	1.8	2
83	The 2006 summary of scientific productivity of chemical engineers in Taiwan. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2007, 38, 501-504.	1.4	2
84	Biological stoichiometry and bioenergetics of <i>Fusarium oxysporum</i> EKT01/02 proliferation using different substrates in cyanidation wastewater. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 537-544.	0.9	2
85	Photoresist Trimming in Oxygen-Based High-Density Plasmas: Effect of HBr and Cl ₂ Addition to CF ₄ /O ₂ Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 6080-6087.	1.8	1
86	Sub-0.1 μ m MOSFET fabrication using 248 nm lithography by resist trimming technique in high density plasmas. , 0, , .		0