

Hongfei Lin

List of Publications by Year in descending order

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98
papers

4,009
citations

126708

33
h-index

128067

60
g-index

107
all docs

107
docs citations

107
times ranked

5564
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional composite core-shell nanoparticles. <i>Nanoscale</i> , 2011, 3, 4474.	2.8	416
2	Advanced micro/nanocapsules for self-healing smart anticorrosion coatings. <i>Journal of Materials Chemistry A</i> , 2015, 3, 469-480.	5.2	334
3	Highly Active and Sinter-Resistant Pd-Nanoparticle Catalysts Encapsulated in Silica. <i>Small</i> , 2008, 4, 1694-1697.	5.2	162
4	Highly Efficient Hydrogen Storage System Based on Ammonium Bicarbonate/Formate Redox Equilibrium over Palladium Nanocatalysts. <i>ChemSusChem</i> , 2015, 8, 813-816.	3.6	125
5	Catalytic conversion of hemicellulosic biomass to lactic acid in pH neutral aqueous phase media. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 149-157.	10.8	122
6	Nanoparticle/Metal-Organic Framework Composites for Catalytic Applications: Current Status and Perspective. <i>Molecules</i> , 2017, 22, 2103.	1.7	117
7	Mechanistic insights into the production of methyl lactate by catalytic conversion of carbohydrates on mesoporous Zr-SBA-15. <i>Journal of Catalysis</i> , 2016, 333, 207-216.	3.1	112
8	In Situ Preparation of Ru@N-Doped Carbon Catalyst for the Hydrogenolysis of Lignin To Produce Aromatic Monomers. <i>ACS Catalysis</i> , 2019, 9, 5828-5836.	5.5	110
9	Development of an optical fiber monolith reactor for photocatalytic wastewater Treatment. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 699-708.	1.5	107
10	Deconstruction of high-density polyethylene into liquid hydrocarbon fuels and lubricants by hydrogenolysis over Ru catalyst. <i>Chem Catalysis</i> , 2021, 1, 437-455.	2.9	101
11	Hydrothermal carbonization (HTC) of cow manure: Carbon and nitrogen distributions in HTC products. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 1002-1011.	1.3	100
12	Biomass characterization of Agave and Opuntia as potential biofuel feedstocks. <i>Biomass and Bioenergy</i> , 2015, 76, 43-53.	2.9	97
13	Size-Dependent Activity of Gold Nanoparticles for Oxygen Electroreduction in Alkaline Electrolyte. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10515-10519.	1.5	95
14	High yield production of levulinic acid by catalytic partial oxidation of cellulose in aqueous media. <i>Energy and Environmental Science</i> , 2012, 5, 9773.	15.6	82
15	Understanding of the effect of synthesis temperature on the crystallization and activity of nano-MoS ₂ catalyst. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 537-546.	10.8	81
16	High yield production of formate by hydrogenating CO ₂ derived ammonium carbamate/carbonate at room temperature. <i>Green Chemistry</i> , 2015, 17, 2769-2773.	4.6	81
17	The role of cobalt and nickel in deoxygenation of vegetable oils. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 415-422.	10.8	75
18	Water-assisted selective hydrodeoxygenation of phenol to benzene over the Ru composite catalyst in the biphasic process. <i>Green Chemistry</i> , 2019, 21, 1668-1679.	4.6	68

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19	Hydroprocessing of waste cooking oil over a dispersed nano catalyst: Kinetics study and temperature effect. Applied Catalysis B: Environmental, 2014, 150-151, 238-248.	10.8	65
20	Effect of redox properties of LaCoO ₃ perovskite catalyst on production of lactic acid from cellulosic biomass. Catalysis Today, 2016, 269, 56-64.	2.2	65
21	Synthesis of amorphous silicon carbide nanoparticles in a low temperature low pressure plasma reactor. Nanotechnology, 2008, 19, 325601.	1.3	64
22	CO ₂ Reduction to Methanol in the Liquid Phase: A Review. ChemSusChem, 2020, 13, 6141-6159.	3.6	54
23	Hybrid Regularized Echo State Network for Multivariate Chaotic Time Series Prediction. IEEE Transactions on Cybernetics, 2019, 49, 2305-2315.	6.2	52
24	Carboxyl Multiwalled Carbon Nanotube Stabilized Palladium Nanocatalysts toward Improved Methanol Oxidation Reaction. ChemElectroChem, 2015, 2, 559-570.	1.7	49
25	Magnetic and magnetoresistance behaviors of particulate iron/vinyl ester resin nanocomposites. Journal of Applied Physics, 2008, 104, .	1.1	46
26	Hydrothermal Carbonization (HTC) and Pelletization of Two Arid Land Plants Bagasse for Energy Densification. ACS Sustainable Chemistry and Engineering, 2016, 4, 1106-1114.	3.2	45
27	Facile monomer stabilization approach to fabricate iron/vinyl ester resin nanocomposites. Composites Science and Technology, 2008, 68, 2551-2556.	3.8	40
28	Magnetic carbon nanostructures: microwave energy-assisted pyrolysis vs. conventional pyrolysis. Chemical Communications, 2013, 49, 258-260.	2.2	39
29	Direct Conversion of Cellulose into Ethyl Lactate in Supercritical Ethanol-Water Solutions. ChemSusChem, 2016, 9, 36-41.	3.6	38
30	An optical fiber monolith reactor for photocatalytic wastewater treatment. AIChE Journal, 2006, 52, 2271-2280.	1.8	36
31	Adsorptive Denitrogenation and Desulfurization of Diesel Fractions by Mesoporous SBA15-Supported Nickel(II) Phosphide Synthesized through a Novel Approach of Urea Matrix Combustion. Industrial & Engineering Chemistry Research, 2012, 51, 14503-14510.	1.8	34
32	Hydrotreatment of lignocellulosic biomass derived oil using a sulfided NiMo/γ-Al ₂ O ₃ catalyst. Catalysis Science and Technology, 2014, 4, 109-119.	2.1	34
33	Adsorptive denitrogenation and desulfurization of diesel using activated carbons oxidized by (NH ₄) ₂ S ₂ O ₈ under mild conditions. Canadian Journal of Chemical Engineering, 2015, 93, 538-548.	0.9	33
34	The role of oxygen functional groups in the adsorption of heteroaromatic nitrogen compounds. Journal of Hazardous Materials, 2015, 297, 217-223.	6.5	33
35	Highly efficient conversion of terpenoid biomass to jet-fuel range cycloalkanes in a biphasic tandem catalytic process. Green Chemistry, 2017, 19, 3566-3573.	4.6	33
36	Catalytic conversion of waste cooking oil to fuel oil: Catalyst design and effect of solvent. Energy, 2018, 157, 270-277.	4.5	33

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37	Comprehensive and sustainable recycling of polymer nanocomposites. <i>Journal of Materials Chemistry</i> , 2011, 21, 16239.	6.7	30
38	Spatio-Temporal Interpolated Echo State Network for Meteorological Series Prediction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 1621-1634.	7.2	29
39	Sentiment Analysis With Comparison Enhanced Deep Neural Network. <i>IEEE Access</i> , 2020, 8, 78378-78384.	2.6	28
40	Depression Detection on Reddit With an Emotion-Based Attention Network: Algorithm Development and Validation. <i>JMIR Medical Informatics</i> , 2021, 9, e28754.	1.3	28
41	Physicochemical Studies of Adsorptive Denitrogenation by Oxidized Activated Carbons. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 5033-5041.	1.8	27
42	One-Step Approach to 2,5-Diformylfuran from Fructose over Molybdenum Oxides Supported on Carbon Spheres. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 315-323.	3.2	27
43	Simultaneously Converting Carbonate/Bicarbonate and Biomass to Value-added Carboxylic Acid Salts by Aqueous-phase Hydrogen Transfer. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 195-203.	3.2	26
44	Impact of nitrogen species and content on the catalytic activity to C=O bond cleavage of lignin over N-doped carbon supported Ru-based catalyst. <i>Fuel</i> , 2020, 278, 118324.	3.4	26
45	Generic Biphasic Catalytic Approach for Producing Renewable Diesel from Fatty Acids and Vegetable Oils. <i>ACS Catalysis</i> , 2019, 9, 3753-3763.	5.5	25
46	Catalytic Transfer Hydrogenation of Furfural for the Production of Ethyl Levulinate: Interplay of Lewis and Brønsted Acidities. <i>Energy Technology</i> , 2018, 6, 1826-1831.	1.8	24
47	Catalytic hydrogenation of stearic acid over reduced NiMo catalysts: Structure-activity relationship and effect of the hydrogen-donor. <i>Applied Catalysis A: General</i> , 2018, 566, 146-154.	2.2	23
48	Catalytic conversion of stearic acid to fuel oil in a hydrogen donor. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 16402-16414.	3.8	21
49	Renewable energy storage via efficient reversible hydrogenation of piperidine captured CO ₂ . <i>Green Chemistry</i> , 2018, 20, 4292-4298.	4.6	21
50	Mechanistic Insight into Selective Deoxygenation of Lysine to Produce Biobased Amines. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11805-11817.	3.2	21
51	A multi-view network for real-time emotion recognition in conversations. <i>Knowledge-Based Systems</i> , 2022, 236, 107751.	4.0	21
52	Multi-Element Hierarchical Attention Capsule Network for Stock Prediction. <i>IEEE Access</i> , 2020, 8, 143114-143123.	2.6	20
53	A Shortcut Route to Close Nitrogen Cycle: Bio-Based Amines Production via Selective Deoxygenation of Chitin Monomers over Ru/C in Acidic Solutions. <i>IScience</i> , 2020, 23, 101096.	1.9	20
54	Heterogeneous Catalysis on Liquid Organic Hydrogen Carriers. <i>Topics in Catalysis</i> , 2021, 64, 481-508.	1.3	19

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55	A Multi-Dimension Question Answering Network for Sarcasm Detection. IEEE Access, 2020, 8, 135152-135161.	2.6	18
56	One-pot conversion of carbohydrates into furan derivatives in biphasic tandem catalytic process. Catalysis Today, 2020, 339, 296-304.	2.2	16
57	Catalytic hydrodeoxygenation of waste cooking oil and stearic acid over reduced nickel-based catalysts. Catalysis Communications, 2021, 149, 106235.	1.6	15
58	Document-Level Biomedical Relation Extraction Using Graph Convolutional Network and Multihead Attention: Algorithm Development and Validation. JMIR Medical Informatics, 2020, 8, e17638.	1.3	15
59	Low-temperature oxidation of guaiacol to maleic acid over TS-1 catalyst in alkaline aqueous H ₂ O ₂ solutions. Chinese Journal of Catalysis, 2014, 35, 622-630.	6.9	14
60	Coupling Glucose Dehydrogenation with CO ₂ Hydrogenation by Hydrogen Transfer in Aqueous Media at Room Temperature. ChemSusChem, 2018, 11, 2029-2034.	3.6	14
61	Interactive Self-Attentive Siamese Network for Biomedical Sentence Similarity. IEEE Access, 2020, 8, 84093-84104.	2.6	14
62	One-pot production of jet fuels from fatty acids and vegetable oils in biphasic tandem catalytic process. Fuel, 2021, 302, 121060.	3.4	14
63	Improve Biomedical Information Retrieval Using Modified Learning to Rank Methods. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 1797-1809.	1.9	13
64	Production of High-Density Renewable Aviation Fuel from Arid Land Crop. ACS Sustainable Chemistry and Engineering, 2018, 6, 10108-10119.	3.2	13
65	Learning to Refine Expansion Terms for Biomedical Information Retrieval Using Semantic Resources. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 954-966.	1.9	13
66	Eliminating carbon dioxide emissions at the source by the integration of carbon dioxide capture and utilization over noble metals in the liquid phase. Journal of Catalysis, 2020, 389, 247-258.	3.1	13
67	Hyperspectral image classification with discriminative manifold broad learning system. Neurocomputing, 2021, 442, 236-248.	3.5	13
68	Dual constraints and adversarial learning for fair recommenders. Knowledge-Based Systems, 2022, 239, 108058.	4.0	13
69	Beyond biodegradation: Chemical upcycling of poly(lactic acid) plastic waste to methyl lactate catalyzed by quaternary ammonium fluoride. Journal of Catalysis, 2021, 402, 61-71.	3.1	12
70	Challenges and Opportunities for Carbon Dioxide Utilization. Energy Technology, 2017, 5, 771-772.	1.8	11
71	The Effects of Catalyst Support and Temperature on the Hydrotreating of Waste Cooking Oil (WCO) over CoMo Sulfided Catalysts. Catalysts, 2019, 9, 689.	1.6	11
72	Catalytic Decomposition of Oleic Acid to Fuels and Chemicals: Roles of Catalyst Acidity and Basicity on Product Distribution and Reaction Pathways. Catalysts, 2019, 9, 1063.	1.6	11

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73	A Graph Convolutional Network-Based Method for Chemical-Protein Interaction Extraction: Algorithm Development. JMIR Medical Informatics, 2020, 8, e17643.	1.3	11
74	Highly Efficient Production of 5-Hydroxymethylfurfural from Fructose via a Bromine-Functionalized Porous Catalyst under Mild Conditions. Industrial & Engineering Chemistry Research, 2020, 59, 14569-14577.	1.8	10
75	Hydrotreatment of Light Cycle Oil Over a Dispersed MoS ₂ Catalyst. International Journal of Chemical Reactor Engineering, 2016, 14, 703-711.	0.6	9
76	An Effective Emotional Expression and Knowledge-Enhanced Method for Detecting Adverse Drug Reactions. IEEE Access, 2020, 8, 87083-87093.	2.6	9
77	Grindelia squarrosa: A Potential Arid Lands Biofuel Plant. ACS Sustainable Chemistry and Engineering, 2017, 5, 995-1001.	3.2	8
78	Application of Uniform Design Method in the Optimization of Hydrothermal Synthesis for Nano MoS ₂ Catalyst with High HDS Activity. Catalysts, 2018, 8, 654.	1.6	8
79	Facile biphasic catalytic process for conversion of monoterpenoids to tricyclic hydrocarbon biofuels. Journal of Energy Chemistry, 2020, 49, 42-50.	7.1	8
80	Adsorptive Removal of Nitrogen and Sulfur Containing Compounds by SBA15 Supported Nickel (II) and Tungsten Phosphides and the Adsorption Mechanisms. International Journal of Chemical Reactor Engineering, 2016, 14, 823-830.	0.6	7
81	Upgrading Biocrude of <i>Grindelia Squarrosa</i> to Jet Fuel Precursors by Aqueous Phase Hydrodeoxygenation. Energy Technology, 2018, 6, 1832-1843.	1.8	7
82	Lexicon Knowledge Boosted Interaction Graph Network for Adverse Drug Reaction Recognition From Social Media. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2777-2786.	3.9	7
83	Heterogeneous information network embedding based on multiperspective metapath for question routing. Knowledge-Based Systems, 2022, 240, 107842.	4.0	7
84	Taylor-ChOA: Taylor-Chimp Optimized Random Multimodal Deep Learning-Based Sentiment Classification Model for Course Recommendation. Mathematics, 2022, 10, 1354.	1.1	7
85	Incorporating User Generated Content for Drug Drug Interaction Extraction Based on Full Attention Mechanism. IEEE Transactions on Nanobioscience, 2019, 18, 360-367.	2.2	6
86	Synergistic interaction between Cu and ZrO ₂ promotes ethyl formate hydrogenation to produce methanol. Catalysis Today, 2021, 374, 53-60.	2.2	6
87	DocR-BERT: Document-Level R-BERT for Chemical-Induced Disease Relation Extraction via Gaussian Probability Distribution. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1341-1352.	3.9	6
88	In-plane defect engineering on MoS ₂ through a novel two-phase hydrothermal synthesis. Catalysis Today, 2022, 404, 269-278.	2.2	6
89	Multifeature Fusion Attention Network for Suicide Risk Assessment Based on Social Media: Algorithm Development and Validation. JMIR Medical Informatics, 2021, 9, e28227.	1.3	5
90	Manipulating the dimensional assembly pattern and crystalline structures of iron oxide nanostructures with a functional polyolefin. Nanoscale, 2016, 8, 1915-1920.	2.8	4

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91	Phonetics and Ambiguity Comprehension Gated Attention Network for Humor Recognition. Complexity, 2020, 2020, 1-9.	0.9	4
92	Application of Phase Transfer Catalysis in the Esterification of Organic Acids: The Primary Products from Ring Hydrocarbon Oxidation Processes. Catalysts, 2019, 9, 851.	1.6	3
93	SC-Political ResNet: Hashtag Recommendation from Tweets Using Hybrid Optimization-Based Deep Residual Network. Information (Switzerland), 2021, 12, 389.	1.7	3
94	Spider Taylor-CHOA: Optimized Deep Learning Based Sentiment Classification for Review Rating Prediction. Applied Sciences (Switzerland), 2022, 12, 3211.	1.3	3
95	Globality-Locality Preserving Maximum Variance Extreme Learning Machine. Complexity, 2019, 2019, 1-18.	0.9	2
96	Catalytic Conversion of Lignocellulosic Biomass to Value-Added Organic Acids in Aqueous Media. Green Chemistry and Sustainable Technology, 2014, , 109-138.	0.4	1
97	Catalytic Oxidation Pathways for the Production of Carboxylic Acids from Biomass. Green Chemistry and Sustainable Technology, 2016, , 171-202.	0.4	1
98	Improving Human Happiness Analysis Based on Transfer Learning: Algorithm Development and Validation. JMIR Medical Informatics, 2021, 9, e28292.	1.3	0