

Zhao Wang

List of Publications by Year in descending order

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61
papers

2,032
citations

279487

23
h-index

253896

43
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all docs

61
docs citations

61
times ranked

2107
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning oxygen vacancies on LaFeO ₃ perovskite as efficient electrocatalysts for oxygen evolution reaction. <i>Materials Letters</i> , 2022, 309, 131317.	1.3	23
2	In ²⁺ /Ni Intermetallic Compounds Derived from Layered Double Hydroxides as Efficient Catalysts toward the Reverse Water Gas Shift Reaction. <i>ACS Catalysis</i> , 2022, 12, 4026-4036.	5.5	30
3	Facile synthesis of multiphase cobalt-iron spinel with enriched oxygen vacancies as a bifunctional oxygen electrocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 13839-13847.	1.3	7
4	Plasma-assisted defect engineering of N-doped NiCo ₂ O ₄ for efficient oxygen reduction. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6591-6599.	1.3	22
5	Synthesis of oxygen vacancies enriched Cu/ZnO/CeO ₂ for CO ₂ hydrogenation to methanol. , 2021, 11, 1171-1179.		8
6	Measurement and Correlation of the Solubility and Thermodynamic Properties of Ribavirin(II) in Nine Pure Solvents and (1-Propanol + Water) Binary Solvents. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 3713-3721.	1.0	6
7	Bi ₂ O ₃ nanosheets arrays in-situ decorated on carbon cloth for efficient electrochemical reduction of nitrate. <i>Chemosphere</i> , 2021, 278, 130386.	4.2	43
8	NH ₃ -assisted solvent thermal synthesis of mesoporous spherical NiCo ₂ O ₄ nanomaterials having rich oxygen vacancies for enhanced activity of CH ₃ OH electrooxidation. <i>Electrochimica Acta</i> , 2021, 390, 138794.	2.6	2
9	ZIF-8 engineered bismuth nanosheet arrays for boosted electrochemical reduction of nitrate. <i>Nanoscale</i> , 2021, 13, 13786-13794.	2.8	9
10	Insight into amoxicillin sodium heterosolvates and non-solvated form: crystal structures, phase transformation behaviors, and desolvation mechanism. <i>CrystEngComm</i> , 2021, 23, 3995-4004.	1.3	2
11	Electron-assisted synthesis of g-C ₃ N ₄ /MoS ₂ composite with dual defects for enhanced visible-light-driven photocatalysis. <i>RSC Advances</i> , 2021, 11, 78-86.	1.7	10
12	Facile Route of P-doped Defect-rich Manganese-cobalt Oxide Spinel with Enhanced Oxygen Evolution Reaction Performance. <i>ChemNanoMat</i> , 2020, 6, 1812-1818.	1.5	8
13	Valence, Size, and Shape Control of Gold Nanoparticles Synthesized by Electron-Assisted Reduction. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3904-3912.	1.7	3
14	Binary solid solutions of anthracene and carbazole: Thermal properties, structure and crystallization kinetics. <i>Journal of Molecular Liquids</i> , 2020, 309, 112646.	2.3	6
15	Superconducting Nanowire Photon-Number-Resolving Detectors Integrated with Current Reservoirs. <i>Physical Review Applied</i> , 2020, 14, .	1.5	7
16	Enhanced Activity of Cu/ZnO/C Catalysts Prepared by Cold Plasma for CO ₂ Hydrogenation to Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5657-5663.	1.8	20
17	Oxygen Vacancy-Enriched FeOx Nanoparticle Electrocatalyst for the Oxygen Reduction Reaction. <i>Transactions of Tianjin University</i> , 2020, 26, 373-381.	3.3	13
18	An Investigation into the Morphology Evolution of Ethyl Vanillin with the Presence of a Polymer Additive. <i>Crystal Growth and Design</i> , 2020, 20, 1609-1617.	1.4	19

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19	Noble Metal-Free TiO ₂ -Coated Carbon Nitride Layers for Enhanced Visible Light-Driven Photocatalysis. <i>Nanomaterials</i> , 2020, 10, 805.	1.9	11
20	Measurement and Correlation of the Solubility of Aspirin in Four Binary Solvent Mixtures from $T = 283.15$ to 323.15 K. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 856-868.	1.0	7
21	The mechanism of solvent-mediated desolvation transformation of lenvatinib mesylate from dimethyl sulfoxide solvate to form D. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 343-352.	0.5	11
22	A Novel Route to Manufacture 2D Layer MoS ₂ and g-C ₃ N ₄ by Atmospheric Plasma with Enhanced Visible-Light-Driven Photocatalysis. <i>Nanomaterials</i> , 2019, 9, 1139.	1.9	19
23	Plasmon Based Double-Layer Hydrogel Device for a Highly Efficient Solar Vapor Generation. <i>Advanced Functional Materials</i> , 2019, 29, 1901312.	7.8	136
24	Novel Technology for Separation of Binary Eutectic-Forming Mixture by Cocrystallization into Different Sizes Combined with Particle Size Fraction. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 8800-8809.	1.8	6
25	Thermodynamic mechanism of selective cocrystallization explored by MD simulation and phase diagram analysis. <i>AIChE Journal</i> , 2019, 65, e16570.	1.8	33
26	Electron reduction for the preparation of rGO with high electrochemical activity. <i>Catalysis Today</i> , 2019, 337, 63-68.	2.2	22
27	Solubility and mixing thermodynamic properties of (2,4,6-trimethylbenzoyl) diphenylphosphine oxide in pure and binary solvents. <i>Fluid Phase Equilibria</i> , 2018, 461, 57-69.	1.4	20
28	Catalyst Preparation with Plasmas: How Does It Work?. <i>ACS Catalysis</i> , 2018, 8, 2093-2110.	5.5	323
29	Enhanced hydrogen production from water on Pt/g-C ₃ N ₄ by room temperature electron reduction. <i>Materials Research Bulletin</i> , 2018, 104, 1-5.	2.7	41
30	Effect of TS-1 Treatment by Mixed Alkaline on Propylene Epoxidation. <i>Transactions of Tianjin University</i> , 2018, 24, 25-31.	3.3	8
31	Determination and Correlation of the Solubility of Acetylpyrazine in Pure Solvents and Binary Solvent Mixtures. <i>Journal of Solution Chemistry</i> , 2018, 47, 950-973.	0.6	3
32	Multivalent manganese oxides with high electrocatalytic activity for oxygen reduction reaction. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 790-797.	2.3	17
33	Simultaneous Effects of Multiple Factors on Solution-Mediated Phase Transformation: A Case of Spirolactone Forms. <i>Organic Process Research and Development</i> , 2018, 22, 836-845.	1.3	8
34	Thermodynamic properties of metamizol monohydrate in pure and binary solvents at temperatures from (283.15 to 313.15) K. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 1481-1491.	1.7	5
35	Performance of Methanol-to-Olefins Catalytic Reactions by the Addition of PEG in the Synthesis of SAPO-34. <i>Transactions of Tianjin University</i> , 2017, 23, 501-510.	3.3	7
36	Determination of metastable zone and induction time of analgin for cooling crystallization. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 313-318.	1.7	25

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37	Preparation and Dehydration Kinetics of Complex Sulfadiazine Calcium Hydrate with Both Channel-Type and Coordinated Water. <i>Organic Process Research and Development</i> , 2016, 20, 780-785.	1.3	6
38	From Jellylike Phase to Crystal: Effects of Solvent on Self-Assembly of Cefotaxime Sodium. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 3075-3083.	1.8	18
39	Highly efficient, stable and controllable multi-core, rattle-type Ag@SiO ₂ catalyst for the reduction of 4-nitrophenol. <i>RSC Advances</i> , 2016, 6, 95263-95272.	1.7	12
40	Process Design for Antisolvent Crystallization of Erythromycin Ethylsuccinate in Oiling-out System. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7484-7492.	1.8	27
41	Antisolvent Crystallization of Erythromycin Ethylsuccinate in the Presence of Liquid-Liquid Phase Separation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 766-776.	1.8	21
42	Steam reforming of methane over Ni/SiO ₂ catalyst with enhanced coke resistance at low steam to methane ratio. <i>Catalysis Today</i> , 2015, 256, 130-136.	2.2	109
43	A simple plasma reduction for synthesis of Au and Pd nanoparticles at room temperature. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1060-1063.	1.7	9
44	Formation of Solid Solution and Ternary Phase Diagrams of Anthracene and Phenanthrene in Different Organic Solvents. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 1401-1407.	1.0	18
45	Mechanism of template removal for the synthesis of molecular sieves using dielectric barrier discharge. <i>Catalysis Today</i> , 2015, 256, 137-141.	2.2	30
46	Spherulitic Crystallization of L-Tryptophan: Characterization, Growth Kinetics, and Mechanism. <i>Crystal Growth and Design</i> , 2015, 15, 5124-5132.	1.4	34
47	Solubility of androstenedione in lower alcohols. <i>Fluid Phase Equilibria</i> , 2014, 363, 86-96.	1.4	45
48	Solubility of Cefotaxime Sodium in Ethanol + Water Mixtures under Acetic Acid Conditions. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 1865-1871.	1.0	5
49	Experimental Determination and Computational Prediction of Androstenedione Solubility in Alcohol + Water Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11538-11549.	1.8	28
50	Lattice instability of V ₂ AlC at high pressure. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 916-924.	2.0	13
51	Determination of the Solubility, Dissolution Enthalpy, and Entropy of Pioglitazone Hydrochloride (Form II) in Different Pure Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3036-3041.	1.8	38
52	Correlation of solubility of pioglitazone hydrochloride in different binary solvents. <i>Fluid Phase Equilibria</i> , 2013, 352, 14-21.	1.4	28
53	Methanation over Ni/SiO ₂ : Effect of the catalyst preparation methodologies. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2283-2291.	3.8	172
54	Solid-Liquid Phase Equilibrium and Mixing Properties of Cloxacillin Benzathine in Pure and Mixed Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3019-3026.	1.8	107

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55	Correlation of Solubility and Prediction of the Mixing Properties of Ginsenoside Compound K in Various Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 8141-8148.	1.8	59
56	Correlation of Solubility and Prediction of the Mixing Properties of Capsaicin in Different Pure Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 2808-2813.	1.8	87
57	Preparation of highly efficient Au/C catalysts for glucose oxidation via novel plasma reduction. <i>Catalysis Communications</i> , 2012, 25, 92-95.	1.6	24
58	Enhanced Hydrogen Spillover on Carbon Surfaces Modified by Oxygen Plasma. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1601-1609.	1.5	71
59	Enhanced Hydrogen Storage on Pt-Doped Carbon by Plasma Reduction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5956-5963.	1.5	48
60	Size control of carbon black-supported platinum nanoparticles via novel plasma reduction. <i>Catalysis Communications</i> , 2009, 10, 959-962.	1.6	23
61	Hydrogen Storage on Carbon Doped with Platinum Nanoparticles Using Plasma Reduction. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 8277-8281.	1.8	60