

Feng Wang

List of Publications by Year in descending order

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57
papers

6,382
citations

172457

29
h-index

138484

58
g-index

63
all docs

63
docs citations

63
times ranked

10065
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning upconversion through energy migration in core-shell nanoparticles. <i>Nature Materials</i> , 2011, 10, 968-973.	27.5	1,570
2	Plasmonic Harvesting of Light Energy for Suzuki Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 5588-5601.	13.7	597
3	Platinum-cobalt bimetallic nanoparticles in hollow carbon nanospheres for hydrogenolysis of 5-hydroxymethylfurfural. <i>Nature Materials</i> , 2014, 13, 293-300.	27.5	578
4	General Properties of Local Plasmons in Metal Nanostructures. <i>Physical Review Letters</i> , 2006, 97, 206806.	7.8	446
5	Growth of Tetrahedral Gold Nanocrystals with High-Index Facets. <i>Journal of the American Chemical Society</i> , 2009, 131, 16350-16351.	13.7	357
6	Heteroepitaxial Growth of High-Index-Faceted Palladium Nanoshells and Their Catalytic Performance. <i>Journal of the American Chemical Society</i> , 2011, 133, 1106-1111.	13.7	287
7	Poros Single-Crystalline Palladium Nanoparticles with High Catalytic Activities. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4872-4876.	13.8	206
8	Plasmon-molecule interactions. <i>Nano Today</i> , 2010, 5, 494-505.	11.9	193
9	Multi-Scale Investigations of $\text{Ni}_{0.25}\text{V}_2\text{O}_5 \cdot n\text{H}_2\text{O}$ Cathode Materials in Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000058.	19.5	173
10	Anisotropic Overgrowth of Metal Heterostructures Induced by a Site-Selective Silica Coating. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10344-10348.	13.8	139
11	Poros Pd nanoparticles with high photothermal conversion efficiency for efficient ablation of cancer cells. <i>Nanoscale</i> , 2014, 6, 4345-4351.	5.6	139
12	Metal Nanocrystal-Embedded Hollow Mesoporous TiO_2 and ZrO_2 Microspheres Prepared with Polystyrene Nanospheres as Carriers and Templates. <i>Advanced Functional Materials</i> , 2013, 23, 2137-2144.	14.9	112
13	Enabling stable MnO_2 matrix for aqueous zinc-ion battery cathodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22075-22082.	10.3	101
14	In Situ EPR Study of the Redox Properties of CuO - CeO_2 Catalysts for Preferential CO Oxidation (PROX). <i>ACS Catalysis</i> , 2016, 6, 3520-3530.	11.2	97
15	Adsorption and activation of molecular oxygen over atomic copper(I/II) site on ceria. <i>Nature Communications</i> , 2020, 11, 4008.	12.8	95
16	Heteroepitaxial Growth of Core-Shell and Core-Multishell Nanocrystals Composed of Palladium and Gold. <i>Small</i> , 2010, 6, 2566-2575.	10.0	94
17	Plasmonic Percolation: Plasmon-Manifested Dielectric-to-Metal Transition. <i>ACS Nano</i> , 2012, 6, 7162-7171.	14.6	89
18	Oxidation of Bioethanol using Zeolite-Encapsulated Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12513-12516.	13.8	80

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19	Metal-Specific Reactivity in Single-Atom Catalysts: CO Oxidation on 4d and 5d Transition Metals Atomically Dispersed on MgO. <i>Journal of the American Chemical Society</i> , 2020, 142, 14890-14902.	13.7	75
20	A Polyphenylene Support for Pd Catalysts with Exceptional Catalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8645-8648.	13.8	72
21	Methanation of Carbon Dioxide over Zeolite-Encapsulated Nickel Nanoparticles. <i>ChemCatChem</i> , 2018, 10, 1566-1570.	3.7	69
22	Surface Electron-Hole Rich Species Active in the Electrocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2021, 143, 12524-12534.	13.7	62
23	Self-standing electrodes with core-shell structures for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2017, 9, 119-125.	18.0	52
24	Phase and morphological control of MoO _{3-x} nanostructures for efficient cancer theragnosis therapy. <i>Nanoscale</i> , 2017, 9, 11012-11016.	5.6	45
25	The Direct Synthesis of H ₂ O ₂ Using TS-1 Supported Catalysts. <i>ChemCatChem</i> , 2019, 11, 1673-1680.	3.7	42
26	Characterization of water management in metal foam flow-field based polymer electrolyte fuel cells using in-operando neutron radiography. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2195-2205.	7.1	41
27	Pt ₃ Co Concave Nanocubes: Synthesis, Formation Understanding, and Enhanced Catalytic Activity toward Hydrogenation of Styrene. <i>Chemistry - A European Journal</i> , 2014, 20, 1753-1759.	3.3	37
28	Loading Metal Nanostructures on Cotton Fabrics as Recyclable Catalysts. <i>Small</i> , 2013, 9, 1003-1007.	10.0	29
29	Advanced Li ₂ S/Si Full Battery Enabled by TiN Polysulfide Immobilizer. <i>Small</i> , 2019, 15, e1902377.	10.0	29
30	Selective Heteroepitaxial Nanocrystal Growth of Rare Earth Fluorides on Sodium Chloride: Synthesis and Density Functional Calculations. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8796-8799.	13.8	28
31	Fine structural changes of fluid catalytic catalysts and characterization of coke formed resulting from heavy oil devolatilization. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118329.	20.2	28
32	Progress and perspective of interface design in garnet electrolyte-based all-solid-state batteries. , 2021, 3, 385-409.		28
33	Catalytically efficient Ni-NiOx-Y2O3 interface for medium temperature water-gas shift reaction. <i>Nature Communications</i> , 2022, 13, 2443.	12.8	25
34	Selective catalytic oxidation of ammonia over nano Cu/zeolites with different topologies. <i>Environmental Science: Nano</i> , 2020, 7, 1399-1414.	4.3	24
35	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO-CeO ₂ Catalysts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14420-14428.	13.8	24
36	Enhancing Hydrogen Evolution Electrocatalytic Performance in Neutral Media via Nitrogen and Iron Phosphide Interactions. <i>Small Science</i> , 2021, 1, 2100032.	9.9	24

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37	In-Situ XAS Investigation of the Effect of Electrochemical Reactions on the Structure of Graphene in Aqueous Electrolytes. <i>Journal of the Electrochemical Society</i> , 2013, 160, C445-C450.	2.9	23
38	Insights into the mechanochemical synthesis of Sn- $\dot{\Gamma}$ ² : Solid-state metal incorporation in beta zeolite. <i>Microporous and Mesoporous Materials</i> , 2020, 309, 110566.	4.4	23
39	Anisotropic Overgrowth of Metal Heterostructures Induced by a Site-Selective Silica Coating. <i>Angewandte Chemie</i> , 2013, 125, 10534-10538.	2.0	21
40	Nanoporous Carbon: Liquid-Free Synthesis and Geometry-Dependent Catalytic Performance. <i>ACS Nano</i> , 2019, 13, 2463-2472.	14.6	15
41	Impact of Coordination Environment on Single-Atom-Embedded C ₃ N for Oxygen Electrocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7692-7701.	6.7	14
42	In situ visualization by X-Ray computed tomography on sulfur stabilization and lithium polysulfides immobilization in S@HCS/MnO cathode. <i>Energy Storage Materials</i> , 2020, 31, 164-171.	18.0	12
43	Heterogeneous Formic Acid Production by Hydrogenation of CO ₂ Catalyzed by Ir-Embedded in Polyphenylene Porous Organic Polymers. <i>ChemCatChem</i> , 2021, 13, 1781-1786.	3.7	12
44	Self-activated cathode substrates in rechargeable zinc-air batteries. <i>Energy Storage Materials</i> , 2021, 35, 530-537.	18.0	11
45	A Multiscale X-Ray Tomography Study of the Cycled-Induced Degradation in Magnesium-Sulfur Batteries. <i>Small Methods</i> , 2021, 5, e2001193.	8.6	10
46	Evaluation and realization of safer Mg-S battery: The decisive role of the electrolyte. <i>Nano Energy</i> , 2021, 83, 105832.	16.0	10
47	Chemical Vapor Deposition of Hollow Graphitic Spheres for Improved Electrochemical Durability. <i>ACS Applied Energy Materials</i> , 2021, 4, 5840-5847.	5.1	9
48	Polyphenylene-Based Solid Acid as an Efficient Catalyst for Activation and Hydration of Alkynes. <i>Chemistry of Materials</i> , 2020, 32, 4375-4382.	6.7	8
49	Design, Identification, and Evolution of a Surface Ruthenium(II/III) Single Site for CO Activation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1212-1219.	13.8	8
50	Precisely visit the performance modulation of functionalized separator in Li-S batteries via consecutive multiscale analysis. <i>Energy Storage Materials</i> , 2022, 49, 85-92.	18.0	7
51	Polyphenylene as an Active Support for Ru-Catalyzed Hydrogenolysis of 5-Hydroxymethylfurfural. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53712-53718.	8.0	5
52	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO-CeO ₂ Catalysts. <i>Angewandte Chemie</i> , 2021, 133, 14541-14549.	2.0	2
53	Frontispiece: The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO-CeO ₂ Catalysts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	13.8	1
54	Reversible lithium storage in sp ² hydrocarbon frameworks. <i>Journal of Energy Chemistry</i> , 2022, 66, 161-167.	12.9	1

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55	Correlation between Mechanical Strength of Amorphous TiO ₂ Nanotubes and Their Solid State Crystallization Pathways. ChemistrySelect, 2018, 3, 10711-10716.	1.5	0
56	Design, Identification, and Evolution of a Surface Ruthenium(II/III) Single Site for CO Activation. Angewandte Chemie, 2021, 133, 1232-1239.	2.0	0
57	Frontispiz: The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuO@CeO ₂ Catalysts. Angewandte Chemie, 2021, 133, .	2.0	0