Zhi-qiang Wang

List of Publications by Year
in descending order

47 papers	2,855 citations	304743 22 h-index	243625 44 g-index
47 all docs	47 docs citations	47 times ranked	3974 citing authors

#	Article	IF	Citations
1	TiO₂ Nanotubes: Morphology, Size, Crystallinity, and Phase-Dependent Properties from Synchrotron-Spectroscopy Studies. Journal of Physical Chemistry C, 2022, 126, 3265-3275.	3.1	3
2	Highlyâ€Exposed Singleâ€Interlayered Cu Edges Enable Highâ€Rate CO₂â€toâ€CH₄ Electrosynthesis. Advanced Energy Materials, 2022, 12, .	19.5	26
3	Lithium Vacancyâ€Tuned [CuO₄] Sites for Selective CO₂ Electroreduction to C₂₊ Products. Small, 2022, 18, e2106433.	10.0	13
4	Double sulfur vacancies by lithium tuning enhance CO2 electroreduction to n-propanol. Nature Communications, 2021, 12, 1580.	12.8	162
5	Strain and ligand effects in Pt-Ni alloys studied by valence-to-core X-ray emission spectroscopy. Scientific Reports, 2021, 11, 13698.	3.3	7
6	High Energy Resolution Fluorescence Detection of the Pt L_{3,2}-Edge Whitelines of Pt-Based Bimetallic Systems: Implications for the Pt 5d_{5/2,3/2} Density of States. Journal of Physical Chemistry C, 2021, 125, 2327-2333.	3.1	6
7	Electron Localization and Lattice Strain Induced by Surface Lithium Doping Enable Ampereâ€Level Electrosynthesis of Formate from CO₂. Angewandte Chemie - International Edition, 2021, 60, 25741-25745.	13.8	66
8	Electron Localization and Lattice Strain Induced by Surface Lithium Doping Enable Ampereâ€Level Electrosynthesis of Formate from CO₂. Angewandte Chemie, 2021, 133, 25945-25949.	2.0	19
9	Substrate strain tunes operando geometric distortion and oxygen reduction activity of CuN2C2 single-atom sites. Nature Communications, 2021, 12, 6335.	12.8	95
10	Tracking the interaction of drug molecules with individual mesoporous amorphous calcium phosphate/ATP nanocomposites â€“ an X-ray spectromicroscopy study. Physical Chemistry Chemical Physics, 2020, 22, 13108-13117.	2.8	5
11	Elucidating the Many-Body Effect and Anomalous Pt and Ni Core Level Shifts in X-ray Photoelectron Spectroscopy of Ptâ€“Ni Alloys. Journal of Physical Chemistry C, 2020, 124, 2313-2318.	3.1	29
12	Boosting CO₂ Electroreduction to CH₄ via Tuning Neighboring Single-Copper Sites. ACS Energy Letters, 2020, 5, 1044-1053.	17.4	326
13	A Comprehensive Investigation of a Zwitterionic Ge^I Dimer with a 1,2â€Dicationic Core. Chemistry - A European Journal, 2019, 25, 14790-14800.	3.3	4
14	Quantum-Dot-Derived Catalysts for CO2 Reduction Reaction. Joule, 2019, 3, 1703-1718.	24.0	106
15	Zeroâ€Thermal Quenching of Mn²⁺ Red Luminescence via Efficient Energy Transfer from Eu²⁺ in BaMgP₂O₇. Advanced Optical Materials, 2019, 7, 1901187.	7.3	89
16	Atomic layer deposited Pt-Ru dual-metal dimers and identifying their active sites for hydrogen evolution reaction. Nature Communications, 2019, 10, 4936.	12.8	371
17	High loading single-atom Cu dispersed on graphene for efficient oxygen reduction reaction. Nano Energy, 2019, 66, 104088.	16.0	138
18	Frontispiece: A Comprehensive Investigation of a Zwitterionic Ge^I Dimer with a 1,2â€Dicationic Core. Chemistry - A European Journal, 2019, 25, .	3.3	0

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19	Effect of oxidation state of manganese in manganese oxide thin films on their capacitance performances. Surface Science, 2018, 676, 71-76.	1.9	13
20	Selective atomic layer deposition of RuO_x catalysts on shape-controlled Pd nanocrystals with significantly enhanced hydrogen evolution activity. Journal of Materials Chemistry A, 2018, 6, 24397-24406.	10.3	31
21	Imaging of Individual Eu Doped Y2O3 Sub-microspheres Using Photoluminescence Yield: An Application of Scanning Transmission X-ray Microscopy in Luminescent Materials. Microscopy and Microanalysis, 2018, 24, 480-481.	0.4	2
22	Antimonyâ€Functionalized Phosphineâ€Based Photopolymer Networks. Angewandte Chemie, 2018, 130, 13436-13440.	2.0	6
23	Electronic behaviour of Au-Pt alloys and the 4f binding energy shift anomaly in Au bimetallics- X-ray spectroscopy studies. AIP Advances, 2018, 8, .	1.3	41
24	Antimonyâ€Functionalized Phosphineâ€Based Photopolymer Networks. Angewandte Chemie - International Edition, 2018, 57, 13252-13256.	13.8	13
25	Dopant-induced electron localization drives CO2 reduction to C2 hydrocarbons. Nature Chemistry, 2018, 10, 974-980.	13.6	781
26	Scanning transmission X-ray microscopy studies of chromium hydroxide hollow spheres and nanoparticles formed by gamma radiation. Canadian Journal of Chemistry, 2017, 95, 1146-1150.	1.1	8
27	Investigation of amorphous to crystalline phase transition of sodium titanate by X-ray absorption spectroscopy and scanning transmission X-ray microscopy. Canadian Journal of Chemistry, 2017, 95, 1163-1169.	1.1	2
28	Unfolding the Anatase-to-Rutile Phase Transition in TiO₂ Nanotubes Using X-ray Spectroscopy and Spectromicroscopy. Journal of Physical Chemistry C, 2016, 120, 22079-22087.	3.1	23
29	Investigation of luminescence mechanism in La0.2Y1.8O3 scintillator. Journal of Luminescence, 2016, 173, 99-104.	3.1	5
30	Tracking Drug Loading Capacities of Calcium Silicate Hydrate Carrier: A Comparative X-ray Absorption Near Edge Structures Study. Journal of Physical Chemistry B, 2015, 119, 10052-10059.	2.6	10
31	Nanoscale Clarification of the Electronic Structure and Optical Properties of TiO₂ Nanowire with an Impurity Phase upon Sodium Intercalation. Journal of Physical Chemistry C, 2015, 119, 17848-17856.	3.1	21
32	Imaging of drug loading distributions in individual microspheres of calcium silicate hydrate â€“ an X-ray spectromicroscopy study. Nanoscale, 2015, 7, 6767-6773.	5.6	11
33	Tracking the transformations of mesoporous microspheres of calcium silicate hydrate at the nanoscale upon ibuprofen release: a XANES and STXM study. CrystEngComm, 2015, 17, 4117-4124.	2.6	8
34	MnO2 nanolayers on highly conductive TiO0.54N0.46 nanotubes for supercapacitor electrodes with high power density and cyclic stability. Physical Chemistry Chemical Physics, 2014, 16, 8521.	2.8	21
35	2D XANES-XEOL mapping: observation of enhanced band gap emission from ZnO nanowire arrays. Nanoscale, 2014, 6, 6531-6536.	5.6	20
36	Origin of luminescence from ZnO/CdS core/shell nanowire arrays. Nanoscale, 2014, 6, 9783-9790.	5.6	27

#	ARTICLE	IF	CITATIONS
37	Probing defect emissions in bulk, micro- and nano-sized Î±-Al2O3 via X-ray excited optical luminescence. Journal of Chemical Physics, 2013, 138, 084706.	3.0	22
38	Tracking the Interface of an Individual ZnS/ZnO Nano-Heterostructure. Journal of Physical Chemistry C, 2012, 116, 10375-10381.	3.1	33
39	Synthesis, characterization and optical properties of ZnS nanobelt/ZnO nanoparticle heterostructures. Materials Letters, 2012, 82, 29-32.	2.6	14
40	Structure and optical properties of individual hierarchical ZnS nanobelt/ZnO nanorod heterostructures. CrystEngComm, 2011, 13, 6774.	2.6	14
41	BiVO4 nanoâ€“leaves: Mild synthesis and improved photocatalytic activity for O2 production under visible light irradiation. CrystEngComm, 2011, 13, 2500.	2.6	65
42	Facile synthesis of anatase TiO2 mesocrystal sheets with dominant {001} facets based on topochemical conversion. CrystEngComm, 2010, 12, 3425.	2.6	54
43	Six-Fold-Symmetrical Hierarchical ZnO Nanostructure Arrays: Synthesis, Characterization, and Field Emission Properties. Crystal Growth and Design, 2010, 10, 2455-2459.	3.0	61
44	Will Fluoride Toughen or Weaken Our Teeth? Understandings Based on Nucleation, Morphology, and Structural Assembly. Journal of Physical Chemistry B, 2009, 113, 16393-16399.	2.6	30
45	Epitaxial Growth of ZnO Nanowires on ZnS Nanobelts by Metal Organic Chemical Vapor Deposition. Crystal Growth and Design, 2008, 8, 3911-3913.	3.0	46
46	Tip-Enhanced Raman Spectroscopy and Tip-Enhanced Photoluminescence of MoS₂ Flakes Decorated with Gold Nanoparticles. Journal of Physical Chemistry C, 0, , .	3.1	7
47	Polymer networks functionalized with <scp>lowâ€valent</scp> phosphorus cations. Journal of Polymer Science, 0, , .	3.8	1