

Sheng-Qi Chu

List of Publications by Year in descending order

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90
papers

4,650
citations

117571

34
h-index

102432

66
g-index

92
all docs

92
docs citations

92
times ranked

6171
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Carbon-Metal Oxide Composites as Catalyst Supports by "Cooking Sugar with Salt" ACS Sustainable Chemistry and Engineering, 2022, 10, 731-737.	3.2	3
2	Highly efficient and selective electrocatalytic hydrogen peroxide production on Co-O-C active centers on graphene oxide. Communications Chemistry, 2022, 5, .	2.0	33
3	Direct Synthesis of Stable $1T\text{-MoS}_2$ Doped with Ni Single Atoms for Water Splitting in Alkaline Media. Small, 2022, 18, e2107238.	5.2	58
4	Surface Ligand Tuning of Coordination Geometry and $\text{Pb } 6s^2$ Electronic Pair Stereochemical Activity in MAPbBr_3 Perovskite Nanoparticles: A Joint Experimental and Theoretical Insight. Journal of Physical Chemistry C, 2022, 126, 7500-7509.	1.5	4
5	Decreasing the Overpotential of Aprotic LiCO_2 Batteries with the In-Plane Alloy Structure in Ultrathin 2D Ru-Based Nanosheets. Advanced Functional Materials, 2022, 32, .	7.8	39
6	Aqueous Electrolytes with Hydrophobic Organic Cosolvents for Stabilizing Zinc Metal Anodes. ACS Nano, 2022, 16, 9667-9678.	7.3	126
7	Experimental and Theoretical Insights into Enhanced Hydrogen Evolution over PtCo Nanoalloys Anchored on a Nitrogen-Doped Carbon Matrix. Journal of Physical Chemistry Letters, 2022, 13, 5195-5203.	2.1	7
8	Approach to electrochemical modulating differential extended X-ray absorption fine structure. Journal of Synchrotron Radiation, 2022, 29, 1065-1073.	1.0	5
9	<i>Operando</i> X-ray spectroscopy visualizing the chameleon-like structural reconstruction on an oxygen evolution electrocatalyst. Energy and Environmental Science, 2021, 14, 906-915.	15.6	93
10	Precise fabrication of single-atom alloy co-catalyst with optimal charge state for enhanced photocatalysis. National Science Review, 2021, 8, nwaa224.	4.6	125
11	A new type of noncovalent surface- π stacking interaction occurring on peroxide-modified titania nanosheets driven by vertical π -state polarization. Chemical Science, 2021, 12, 4411-4417.	3.7	13
12	Understanding the Mesoscale Degradation in Nickel-Rich Cathode Materials through Machine-Learning-Revealed Strain-Redox Decoupling. ACS Energy Letters, 2021, 6, 687-693.	8.8	42
13	Magnetic Particles Unintentionally Emitted from Anthropogenic Sources: Iron and Steel Plants. Environmental Science and Technology Letters, 2021, 8, 295-300.	3.9	15
14	Solvent coordination engineering for high-quality hybrid organic-inorganic perovskite films. Journal of Materials Science, 2021, 56, 9903-9913.	1.7	6
15	A polarization-switch effect of silicon crystals under multiple-beam diffraction geometry. Journal of Applied Crystallography, 2021, 54, 976-981.	1.9	2
16	Sulfur stabilizing metal nanoclusters on carbon at high temperatures. Nature Communications, 2021, 12, 3135.	5.8	104
17	Highly Selective Oxidation of Methane into Methanol over Cu-Promoted Monomeric Fe/ZSM-5. ACS Catalysis, 2021, 11, 6684-6691.	5.5	73
18	Atomic Structural Evolution of Single-Layer Pt Clusters as Efficient Electrocatalysts. Small, 2021, 17, e2100732.	5.2	26

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19	Architecting Freestanding Sulfur Cathodes for Superior Room-Temperature Na-S Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102280.	7.8	46
20	Application of X-Ray Absorption Spectroscopy in Electrocatalytic Water Splitting and CO ₂ Reduction. <i>Small Science</i> , 2021, 1, 2100023.	5.8	16
21	Zeolite-Tailored Active Site Proximity for the Efficient Production of Pentanoic Biofuels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23713-23721.	7.2	43
22	Zeolite-Tailored Active Site Proximity for the Efficient Production of Pentanoic Biofuels. <i>Angewandte Chemie</i> , 2021, 133, 23906-23914.	1.6	10
23	Microporous Sulfur-Doped Carbon Atoms as Supports for Sintering-Resistant Platinum Nanocluster Catalysts. <i>ACS Applied Nano Materials</i> , 2021, 4, 9489-9496.	2.4	9
24	Sulfur-anchoring synthesis of platinum intermetallic nanoparticle catalysts for fuel cells. <i>Science</i> , 2021, 374, 459-464.	6.0	343
25	Identification of Catalytic Sites for Oxygen Reduction in Metal/Nitrogen-Doped Carbons with Encapsulated Metal Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1627-1633.	7.2	176
26	Identification of Catalytic Sites for Oxygen Reduction in Metal/Nitrogen-Doped Carbons with Encapsulated Metal Nanoparticles. <i>Angewandte Chemie</i> , 2020, 132, 1644-1650.	1.6	138
27	Innenr¼cktitelbild: Identification of Catalytic Sites for Oxygen Reduction in Metal/Nitrogen-Doped Carbons with Encapsulated Metal Nanoparticles (<i>Angew. Chem.</i> 4/2020). <i>Angewandte Chemie</i> , 2020, 132, 1759-1759.	1.6	0
28	High-Temperature Synthesis of Small-Sized Pt/Nb Alloy Catalysts on Carbon Supports for Hydrothermal Reactions. <i>Inorganic Chemistry</i> , 2020, 59, 15953-15961.	1.9	7
29	Rational design of hierarchical FeSe ₂ encapsulated with bifunctional carbon cuboids as an advanced anode for sodium-ion batteries. <i>Nanoscale</i> , 2020, 12, 22210-22216.	2.8	26
30	A library of carbon-supported ultrasmall bimetallic nanoparticles. <i>Nano Research</i> , 2020, 13, 2735-2740.	5.8	18
31	Synthesis of carbon-supported sub-2 nanometer bimetallic catalysts by strong metal-sulfur interaction. <i>Chemical Science</i> , 2020, 11, 7933-7939.	3.7	17
32	Prediction of topological nontrivial semimetals and pressure-induced Lifshitz transition in 1T-MoS ₂ layered bulk polytypes. <i>Nanoscale</i> , 2020, 12, 22710-22717.	2.8	8
33	Activation of subnanometric Pt on Cu-modified CeO ₂ via redox-coupled atomic layer deposition for CO oxidation. <i>Nature Communications</i> , 2020, 11, 4240.	5.8	101
34	Cation-π Interactions with Coexisting Heavy Metals Enhanced the Uptake and Accumulation of Polycyclic Aromatic Hydrocarbons in Spinach. <i>Environmental Science & Technology</i> , 2020, 54, 7261-7270.	4.6	22
35	Highly dispersed Pt studded on Co _x nanoclusters for CO preferential oxidation in H ₂ . <i>Journal of Materials Chemistry A</i> , 2020, 8, 10180-10187.	5.2	21
36	[MW ₁₂ O ₄₄] clusters: unprecedented central heteroatoms atomically dispersed in the eight coordination state bridging the 12 polyoxometalate family of Keggin and Silverton. <i>Nanoscale</i> , 2019, 11, 22270-22276.	2.8	9

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37	Hierarchically porous carbons as supports for fuel cell electrocatalysts with atomically dispersed Fe _x moieties. <i>Chemical Science</i> , 2019, 10, 8236-8240.	3.7	34
38	Reversing the charge transfer between platinum and sulfur-doped carbon support for electrocatalytic hydrogen evolution. <i>Nature Communications</i> , 2019, 10, 4977.	5.8	243
39	A sulfur-tethering synthesis strategy toward high-loading atomically dispersed noble metal catalysts. <i>Science Advances</i> , 2019, 5, eaax6322.	4.7	177
40	A metal-catalyzed thermal polymerization strategy toward atomically dispersed catalysts. <i>Chemical Communications</i> , 2019, 55, 11579-11582.	2.2	8
41	Sub-2 nm Ir Nanoclusters Immobilized on Mesoporous Nitrogen-Doped Carbons as Efficient Catalysts for Selective Hydrogenation. <i>ACS Applied Nano Materials</i> , 2019, 2, 6546-6553.	2.4	20
42	Switching Co/N/C Catalysts for Heterogeneous Catalysis and Electrocatalysis by Controllable Pyrolysis of Cobalt Porphyrin. <i>IScience</i> , 2019, 15, 282-290.	1.9	20
43	Nickel catalyst with atomically-thin meshed cobalt coating for improved durability in dry reforming of methane. <i>Journal of Catalysis</i> , 2019, 373, 351-360.	3.1	42
44	Photoelectric conversion on Earth's surface via widespread Fe- and Mn-mineral coatings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9741-9746.	3.3	111
45	One-pot synthesis of porous 1T-phase MoS ₂ integrated with single-atom Cu doping for enhancing electrocatalytic hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 87-93.	10.8	160
46	Improved NO _x /CO reactivity of highly dispersed Pt particles on CeO ₂ nanorod catalysts prepared by atomic layer deposition. <i>Catalysis Science and Technology</i> , 2019, 9, 2664-2672.	2.1	34
47	Pressure induced transformation and subsequent amorphization of monoclinic Nb ₂ O ₅ and its effect on optical properties. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 105401.	0.7	7
48	Porosity CoP/C@MCNTs hybrid composite derived from metal-organic frameworks for high-performance lithium-ion batteries. <i>Journal of Materials Science</i> , 2019, 54, 3273-3283.	1.7	29
49	Unraveling the Low-Temperature Redox Behavior of Ultrathin Ceria Nanosheets with Exposed {110} Facets by in Situ XAFS/DRIFTS Utilizing CO as Molecule Probe. <i>Journal of Physical Chemistry C</i> , 2019, 123, 322-333.	1.5	4
50	In situ depth-resolved synchrotron radiation X-ray spectroscopy study of radiation-induced Au deposition. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1940-1944.	1.0	1
51	Cu sorption by biogenic birnessite produced by <i>Pseudomonas putida</i> strain MnB1: structural differences from abiotic birnessite and its environmental implications. <i>CrystEngComm</i> , 2018, 20, 1361-1374.	1.3	15
52	Bifunctional CO oxidation over Mn-mullite anchored Pt sub-nanoclusters via atomic layer deposition. <i>Chemical Science</i> , 2018, 9, 2469-2473.	3.7	33
53	Superconductivity in Pristine Hx at Ultrahigh Pressure. <i>Physical Review Letters</i> , 2018, 120, 037002.	2.9	100
54	Fabrication of a Single-Atom Platinum Catalyst for the Hydrogen Evolution Reaction: A New Protocol by Utilization of H _x MoO ₃ with Plasmon Resonance. <i>ChemCatChem</i> , 2018, 10, 946-950.	1.8	43

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55	Selective Passivation of Pt Nanoparticles with Enhanced Sintering Resistance and Activity toward CO Oxidation via Atomic Layer Deposition. ACS Applied Nano Materials, 2018, 1, 522-530.	2.4	47
56	The chemical speciation, spatial distribution and toxicity of mercury from Tibetan medicine Zuotai $\frac{1}{4}$ Cl ² -HgS and HgCl ₂ in mouse kidney. Journal of Trace Elements in Medicine and Biology, 2018, 45, 104-113.	1.5	19
57	Extracting structural information of higher coordination shells by analyzing EXAFS derivative spectrum. Physica Scripta, 2018, 93, 125701.	1.2	0
58	SiO ₂ -protected shell mediated templating synthesis of Fe ²⁺ -N-doped carbon nanofibers and their enhanced oxygen reduction reaction performance. Energy and Environmental Science, 2018, 11, 2208-2215.	15.6	196
59	Effects of Mn average oxidation state on the oxidation behaviors of As(III) and Cr(III) by vernadite. Applied Geochemistry, 2018, 94, 35-45.	1.4	23
60	Oxide ²⁺ -Nanotrapping ²⁺ -Anchored Platinum Nanoparticles with High Activity and Sintering Resistance by Area ²⁺ -Selective Atomic Layer Deposition. Angewandte Chemie - International Edition, 2017, 56, 1648-1652.	7.2	65
61	Oxide ²⁺ -Nanotrapping ²⁺ -Anchored Platinum Nanoparticles with High Activity and Sintering Resistance by Area ²⁺ -Selective Atomic Layer Deposition. Angewandte Chemie, 2017, 129, 1670-1674.	1.6	27
62	Influence of phosphate on phytotoxicity of ceria nanoparticles in an agar medium. Environmental Pollution, 2017, 224, 392-399.	3.7	15
63	The double influence mechanism of pH on arsenic removal by nano zero valent iron: electrostatic interactions and the corrosion of Fe ⁰ . Environmental Science: Nano, 2017, 4, 1544-1552.	2.2	78
64	Discerning lattice and electronic structures in under- and over-doped multiferroic Aurivillius films. Journal of Applied Physics, 2017, 121, 114107.	1.1	6
65	Enhanced removal of roxarsone by Fe ₃ O ₄ @3D graphene nanocomposites: synergistic adsorption and mechanism. Environmental Science: Nano, 2017, 4, 2134-2143.	2.2	89
66	Mechanisms of Synergistic Removal of Low Concentration As(V) by nZVI@Mg(OH) ₂ Nanocomposite. Journal of Physical Chemistry C, 2017, 121, 21411-21419.	1.5	18
67	Nanofence Stabilized Platinum Nanoparticles Catalyst via Facet ²⁺ -Selective Atomic Layer Deposition. Small, 2017, 13, 1700648.	5.2	61
68	Time-resolved XAFS measurement using quick-scanning techniques at BSRF. Journal of Synchrotron Radiation, 2017, 24, 674-678.	1.0	8
69	Confocal depth-resolved fluorescence micro-X-ray absorption spectroscopy for the study of cultural heritage materials: a new mobile endstation at the Beijing Synchrotron Radiation Facility. Journal of Synchrotron Radiation, 2017, 24, 1000-1005.	1.0	11
70	A new technique to measure the differential XAFS spectrum. Chinese Physics C, 2016, 40, 048001.	1.5	1
71	Structural characteristic correlated to the electronic band gap in MoS_2 . Physical Review B, 2016, 94, .	1.1	14
72	Sol-gel synthesis and electrochemical properties of c-axis oriented LiCoO ₂ for lithium-ion batteries. RSC Advances, 2015, 5, 51483-51488.	1.7	21

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73	Transformation of ceria nanoparticles in cucumber plants is influenced by phosphate. <i>Environmental Pollution</i> , 2015, 198, 8-14.	3.7	84
74	High Co-doping promotes the transition of birnessite layer symmetry from orthogonal to hexagonal. <i>Chemical Geology</i> , 2015, 410, 12-20.	1.4	27
75	Activated-carbon-supported K ⁺ Co ²⁺ Mo catalysts for synthesis of higher alcohols from syngas. <i>Catalysis Science and Technology</i> , 2015, 5, 2925-2934.	2.1	90
76	Optimal azimuthal orientation for Si(111) double-crystal monochromators to achieve the least amount of glitches in the hard X-ray region. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1147-1150.	1.0	7
77	Introduction of amino groups into acid-resistant MOFs for enhanced U(VI) sorption. <i>Journal of Materials Chemistry A</i> , 2015, 3, 525-534.	5.2	378
78	Origin of the different phytotoxicity and biotransformation of cerium and lanthanum oxide nanoparticles in cucumber. <i>Nanotoxicology</i> , 2015, 9, 262-270.	1.6	123
79	In-situ EXAFS study on the thermal decomposition of TiH ₂ . <i>Chinese Physics C</i> , 2014, 38, 038001.	1.5	8
80	Correlating interfacial octahedral rotations with magnetism in (LaMnO ₃) _N /(SrTiO ₃) _N superlattices. <i>Nature Communications</i> , 2014, 5, 4283.	5.8	103
81	Pressure-Induced Valence Change and Semiconductor ⁺ Metal Transition in PbCrO ₃ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 23274-23278.	1.5	17
82	Introduction of Bifunctional Groups into Mesoporous Silica for Enhancing Uptake of Thorium(IV) from Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4786-4796.	4.0	113
83	Ternary composite oxide catalysts CuO/Co ₃ O ₄ -CeO ₂ with wide temperature-window for the preferential oxidation of CO in H ₂ -rich stream. <i>Chemical Engineering Journal</i> , 2013, 234, 88-98.	6.6	67
84	Iron Isotope Effect and Local Lattice Dynamics in the (Ba, K)Fe ₂ As ₂ Superconductor Studied by Temperature-Dependent EXAFS. <i>Scientific Reports</i> , 2013, 3, .	1.6	27
85	Influences of the Amorphous Phase on Local Structures and Properties of Ferroelectric Thin Films. <i>Ferroelectrics</i> , 2013, 453, 149-155.	0.3	8
86	Development of pressure-modulated EXAFS method. <i>Chinese Physics C</i> , 2012, 36, 184-187.	1.5	2
87	Study of OSEM with different subsets in grating-based X-ray differential phase-contrast imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 837-844.	1.9	9
88	The measurement of differential EXAFS modulated by high pressure. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 728-732.	1.0	5
89	Quantum critical point in SmO _{1-x} FeAs and oxygen vacancy induced by high fluorine dopant. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 723-727.	1.0	5
90	A new mobile grazing-incidence X-ray absorption fine spectroscopy endstation at Beijing Synchrotron Radiation Facility. <i>Radiation Detection Technology and Methods</i> , 0, , .	0.4	0