

Sheng-cai Zhu

List of Publications by Year in descending order

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papers

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citations

566801

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all docs

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docs citations

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times ranked

1430
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaction Network of Layer-to-Tunnel Transition of MnO ₂ . Journal of the American Chemical Society, 2016, 138, 5371-5379.	6.6	128
2	Overall structural modification of a layered Ni-rich cathode for enhanced cycling stability and rate capability at high voltage. Journal of Materials Chemistry A, 2019, 7, 6080-6089.	5.2	112
3	Nature of Rutile Nuclei in Anatase-to-Rutile Phase Transition. Journal of the American Chemical Society, 2015, 137, 11532-11539.	6.6	106
4	Three-phase junction for modulating electron-hole migration in anatase-rutile photocatalysts. Chemical Science, 2015, 6, 3483-3494.	3.7	86
5	Ionic conductivity, sintering and thermal expansion behaviors of mixed ion conductor BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ prepared by ethylene diamine tetraacetic acid assisted glycine nitrate process. Journal of Power Sources, 2011, 196, 5000-5006.	4.0	56
6	ROY revisited, again: the eighth solved structure. Faraday Discussions, 2018, 211, 477-491.	1.6	55
7	Densification of Sm _{0.2} Ce _{0.8} O _{1.9} with the addition of lithium oxide as sintering aid. Journal of Power Sources, 2013, 222, 367-372.	4.0	47
8	Hydrogen-Bond Symmetrization Breakdown and Dehydrogenation Mechanism of FeO ₂ H at High Pressure. Journal of the American Chemical Society, 2017, 139, 12129-12132.	6.6	34
9	Design and Observation of Biphasic TiO ₂ Crystal with Perfect Junction. Journal of Physical Chemistry Letters, 2014, 5, 3162-3168.	2.1	33
10	Super-hydrophobic surface with switchable adhesion responsive to both temperature and pH. Soft Matter, 2012, 8, 9635.	1.2	31
11	A Revisited Mechanism of the Graphite-to-Diamond Transition at High Temperature. Matter, 2020, 3, 864-878.	5.0	30
12	Boosting Fenton-like reaction efficiency by co-construction of the adsorption and reactive sites on N/O co-doped carbon. Applied Catalysis B: Environmental, 2022, 301, 120783.	10.8	22
13	Atomic Structure of Heterophase Junction from Theoretical Prediction. Topics in Catalysis, 2015, 58, 644-654.	1.3	18
14	Computational design of flexible electrides with nontrivial band topology. Physical Review Materials, 2019, 3, .	0.9	18
15	Separation of lattice-incorporated Cr(vi) from calcium carbonate by converting microcrystals into nanocrystals via the carbonation pathway based on the density functional theory study of incorporation energy. Environmental Science: Nano, 2022, 9, 1617-1626.	2.2	16
16	Fractal MTW Zeolite Crystals: Hidden Dimensions in Nanoporous Materials. Angewandte Chemie - International Edition, 2017, 56, 11764-11768.	7.2	15
17	Electrides with Dinitrogen Ligands. ACS Applied Materials & Interfaces, 2019, 11, 5256-5263.	4.0	15
18	Mechanism and microstructures in Ga ₂ O ₃ pseudomartensitic solid phase transition. Physical Chemistry Chemical Physics, 2016, 18, 18563-18574.	1.3	12

#	ARTICLE	IF	CITATIONS
19	First-principles investigation of Sc-III/IV under high pressure. <i>Physical Review B</i> , 2018, 98, .	1.1	12
20	MXene enabled binder-free FeOF cathode with high volumetric and gravimetric capacities for flexible lithium ion batteries. <i>Electrochimica Acta</i> , 2022, 423, 140595.	2.6	11
21	Structure-Controlled Oxygen Concentration in Fe ₂ O ₃ and FeO ₂ . <i>Inorganic Chemistry</i> , 2019, 58, 5476-5482.	1.9	10
22	Deviatoric stress-induced quasi-reconstructive phase transition in ZnTe. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3795-3799.	2.7	8
23	Confronting the Air Instability of Cesium Tin Halide Perovskites by Metal Ion Incorporation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10996-11004.	2.1	8
24	Topological Ordering of Memory Glass on Extended Length Scales. <i>Journal of the American Chemical Society</i> , 2022, 144, 7414-7421.	6.6	8
25	Unraveling the structural transition mechanism of room-temperature compressed graphite carbon. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20560-20566.	1.3	7
26	Concurrent Pressure-Induced Spin-State Transitions and Jahn–Teller Distortions in MnTe. <i>Chemistry of Materials</i> , 2022, 34, 3931-3940.	3.2	6
27	Pressure-driven band gap engineering in ion-conducting semiconductor silver orthophosphate. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4451-4458.	5.2	5
28	Pressure tuned incommensurability and guest structure transition in compressed scandium from machine learning atomic simulation. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7007-7013.	1.3	3
29	Fabricating rutile nanopins on an anatase hollow sphere structure with enhanced photoactivity performance. <i>RSC Advances</i> , 2017, 7, 56648-56654.	1.7	2
30	Phase-Transition Mechanism and the Atomic Interface Structure of Brookite to Rutile: Resolving from Machine-Learning Global Pathway Sampling. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11846-11854.	1.5	1