

# Sheng-cai Zhu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26

papers

593

citations

12

h-index

24

g-index

30

ext. papers

772

ext. citations

8.6

avg, IF

4.12

L-index

#	Paper	IF	Citations
26	Boosting Fenton-like reaction efficiency by co-construction of the adsorption and reactive sites on N/O co-doped carbon. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 301, 120783	21.8	1
25	Concurrent Pressure-Induced Spin-State Transitions and Jahn-Teller Distortions in MnTe. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 3931-3940	9.6	1
24	MXene enabled binder-free FeOF cathode with high volumetric and gravimetric capacities for flexible lithium ion batteries. <i>Electrochimica Acta</i> , <b>2022</b> , 423, 140595	6.7	4
23	Confronting the Air Instability of Cesium Tin Halide Perovskites by Metal Ion Incorporation. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10996-11004	6.4	2
22	Unraveling the structural transition mechanism of room-temperature compressed graphite carbon. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 20560-20566	3.6	0
21	A Revisited Mechanism of the Graphite-to-Diamond Transition at High Temperature. <i>Matter</i> , <b>2020</b> , 3, 864-878	12.7	8
20	Deviatoric stress-induced quasi-reconstructive phase transition in ZnTe. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 3795-3799	7.1	4
19	Pressure-driven band gap engineering in ion-conducting semiconductor silver orthophosphate. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4451-4458	13	2
18	Electrides with Dinitrogen Ligands. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5256-5263	9.5	11
17	Computational design of flexible electrides with nontrivial band topology. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	14
16	Overall structural modification of a layered Ni-rich cathode for enhanced cycling stability and rate capability at high voltage. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 6080-6089	13	76
15	Structure-Controlled Oxygen Concentration in FeO and FeO. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 5476-5482	5.1	6
14	ROY revisited, again: the eighth solved structure. <i>Faraday Discussions</i> , <b>2018</b> , 211, 477-491	3.6	34
13	First-principles investigation of Sc-III/IV under high pressure. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	1
12	Hydrogen-Bond Symmetrization Breakdown and Dehydrogenation Mechanism of FeOH at High Pressure. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 12129-12132	16.4	29
11	Fractal MTW Zeolite Crystals: Hidden Dimensions in Nanoporous Materials. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 11764-11768	16.4	11
10	Fabricating rutile nanopins on an anatase hollow sphere structure with enhanced photoactivity performance. <i>RSC Advances</i> , <b>2017</b> , 7, 56648-56654	3.7	2

9	Mechanism and microstructures in Ga <sub>2</sub> O <sub>3</sub> pseudomartensitic solid phase transition. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 18563-74	3.6	4
8	Reaction Network of Layer-to-Tunnel Transition of MnO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5371-9	16.4	79
7	Atomic Structure of Heterophase Junction from Theoretical Prediction. <i>Topics in Catalysis</i> , <b>2015</b> , 58, 644-654	15	15
6	Three-phase junction for modulating electron-hole migration in anatase-rutile photocatalysts. <i>Chemical Science</i> , <b>2015</b> , 6, 3483-3494	9.4	73
5	Nature of Rutile Nuclei in Anatase-to-Rutile Phase Transition. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11532-9	16.4	74
4	Design and Observation of Biphasic TiO <sub>2</sub> Crystal with Perfect Junction. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3162-8	6.4	29
3	Densification of Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> with the addition of lithium oxide as sintering aid. <i>Journal of Power Sources</i> , <b>2013</b> , 222, 367-372	8.9	39
2	Super-hydrophobic surface with switchable adhesion responsive to both temperature and pH. <i>Soft Matter</i> , <b>2012</b> , 8, 9635	3.6	26
1	Ionic conductivity, sintering and thermal expansion behaviors of mixed ion conductor BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.1</sub> Yb <sub>0.1</sub> O <sub>3</sub> prepared by ethylene diamine tetraacetic acid assisted glycine nitrate process. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 5000-5006	8.9	47