

Chenxi Zhai

List of Publications by Year in descending order

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28
papers

408
citations

759055

12
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794469

19
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28
all docs

28
docs citations

28
times ranked

267
citing authors

#	ARTICLE	IF	CITATIONS
1	Current Insights on the Diverse Structures and Functions in Bacterial Collagen-like Proteins. ACS Biomaterials Science and Engineering, 2023, 9, 3778-3795.	2.6	25
2	The effect of ionic liquid-based electrolytes for dendrite-inhibited and performance-boosted lithium metal batteries. Electrochimica Acta, 2022, 401, 139527.	2.6	9
3	Customizing the properties of borosilicate foam glasses via additions under low sintering temperatures with insights from molecular dynamics simulations. Journal of Non-Crystalline Solids, 2022, 576, 121273.	1.5	6
4	Hybridly double-crosslinked carbon nanotube networks with combined strength and toughness <i>via</i> cooperative energy dissipation. Nanoscale, 2022, 14, 2434-2445.	2.8	3
5	The Impact of Foaming Effect on the Physical and Mechanical Properties of Foam Glasses with Molecular-Level Insights. Molecules, 2022, 27, 876.	1.7	6
6	Producing light, strong foam glass under a low sintering temperature with insights from molecular simulations. Journal of Non-Crystalline Solids, 2022, 582, 121447.	1.5	4
7	Enhancing the foaming effects and mechanical strength of foam glasses sintered at low temperatures. Journal of Physics and Chemistry of Solids, 2022, 165, 110698.	1.9	4
8	Performance-enhanced lithium metal batteries through ionic liquid based electrolytes and mechanism research derived by density functional theory calculations. Electrochimica Acta, 2021, 368, 137535.	2.6	14
9	In situ construction of hierarchical polyaniline/SnS ₂ @carbon nanotubes on carbon fibers for high-performance supercapacitors. Journal of Colloid and Interface Science, 2021, 588, 84-93.	5.0	21
10	Design and Production of Customizable and Highly Aligned Fibrillar Collagen Scaffolds. ACS Biomaterials Science and Engineering, 2021, , .	2.6	2
11	Specific osteogenesis imperfecta-related Gly substitutions in type I collagen induce distinct structural, mechanical, and dynamic characteristics. Chemical Communications, 2021, 57, 12183-12186.	2.2	3
12	Conformational Freedomâ€Enhanced Optomechanical Energy Conversion Efficiency in Bulk Azoâ€Polyimides (Adv. Funct. Mater. 45/2021). Advanced Functional Materials, 2021, 31, .	7.8	2
13	Stress-Dependent Chemo-Mechanical Performance of Amorphous Si Anodes for Li-Ion Batteries upon Lithiation. ACS Applied Energy Materials, 2021, 4, 14718-14726.	2.5	2
14	Chromium carbide micro-whiskers: Preparation and strengthening effects in extreme conditions with experiments and molecular dynamics simulations. Journal of Solid State Chemistry, 2020, 291, 121598.	1.4	14
15	Symmetry Breaking Induced Anisotropic Carrier Transport and Remarkable Thermoelectric Performance in Mixed Halide Perovskites CsPb(I _{1-x} Br _x) ₃ . ACS Applied Materials & Interfaces, 2020, 12, 40453-40464.	4.0	40
16	Chromium carbide micro-whiskers dataset: Morphologies with scanning and transmission electronic microscopy. Data in Brief, 2020, 32, 106222.	0.5	3
17	Low-temperature in-situ grown mullite whiskers toughened heat-resistant inorganic adhesive. Journal of Alloys and Compounds, 2020, 836, 155349.	2.8	18
18	Discovery and design of soft polymeric bio-inspired materials with multiscale simulations and artificial intelligence. Journal of Materials Chemistry B, 2020, 8, 6562-6587.	2.9	44

#	ARTICLE	IF	CITATIONS
19	Cooperative effects of free volume and nanocrystallite on plastic deformation in bulk amorphous Al ₂ O ₃ -ZrO ₂ -Y ₂ O ₃ . <i>Ceramics International</i> , 2020, 46, 11049-11055.	2.3	11
20	Tailored morphology and highly enhanced phonon transport in polymer fibers: a multiscale computational framework. <i>Npj Computational Materials</i> , 2019, 5, .	3.5	31
21	Electrostatically Tuned Microdomain Morphology and Phase-Dependent Ion Transport Anisotropy in Single-Ion Conducting Block Copolyelectrolytes. <i>Macromolecules</i> , 2018, 51, 4471-4483.	2.2	41
22	Enhanced plasticity by deformation-induced nanocrystallization in bulk amorphous Al ₂ O ₃ -ZrO ₂ -Y ₂ O ₃ . <i>Ceramics International</i> , 2017, 43, 3453-3456.	2.3	15
23	Preparation and characterization of mechanical properties of foam glass for artificial floating island carrier. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401558966.	0.8	13
24	Effects of Cu on properties of vitrified bond and vitrified CBN composites. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 50, 269-273.	1.7	25
25	Effects of Sb ₂ O ₃ on the Mechanical Properties of the Borosilicate Foam Glasses Sintered at Low Temperature. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-6.	1.0	13
26	Effect of Y ₂ O ₃ on the properties of vitrified bond and vitrified diamond composites. <i>Composites Part B: Engineering</i> , 2014, 67, 515-520.	5.9	33
27	Observation Technique of Internal Microstructure of Micro-Powder by Electron Microscopy. <i>Advanced Materials Research</i> , 2011, 412, 445-448.	0.3	2
28	Conformational Freedom-Enhanced Optomechanical Energy Conversion Efficiency in Bulk Azo-Polyimides. <i>Advanced Functional Materials</i> , 0, , 2104414.	7.8	4