Shao-Gang Wang

List of Publications by Year
in descending order

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35 papers	3,773 citations	304368 22 h-index	377514 34 g-index
35 all docs	35 docs citations	35 times ranked	5138 citing authors

#	Article	IF	Citations
1	Synthesis and mechanical properties of porous metals with inverted dealloying structure. Scripta Materialia, 2022, 210, 114483.	2.6	6
2	Extremely fast-charging lithium ion battery enabled by dual-gradient structure design. Science Advances, 2022, 8, eabm6624.	4.7	50
3	Efficient polysulfide blocker from conductive niobium nitride@graphene for Li-S batteries. Journal of Energy Chemistry, 2020, 45, 135-141.	7.1	69
4	Quantitative Characterization of Graphite Morphology in Cast Iron from 3D Perspective. Journal of Physics: Conference Series, 2020, 1622, 012124.	0.3	0
5	Ice-templated porous tungsten and tungsten carbide inspired by natural wood. Journal of Materials Science and Technology, 2020, 45, 187-197.	5.6	33
6	A novel aqueous gel-casting for fabricating Al2O3-bonded fibrous mullite ceramics. Journal of Alloys and Compounds, 2019, 811, 152009.	2.8	21
7	Hydrothermal synthesis of Mg-substituted tricalcium phosphate nanocrystals. MRS Communications, 2019, 9, 971-978.	0.8	1
8	Strong, Fracture-Resistant Biomimetic Silicon Carbide Composites with Laminated Interwoven Nanoarchitectures Inspired by the Crustacean Exoskeleton. ACS Applied Nano Materials, 2019, 2, 1111-1119.	2.4	22
9	Fibrous ZrO2-mullite porous ceramics fabricated by a hydratable alumina based aqueous gel-casting process. Ceramics International, 2019, 45, 8824-8831.	2.3	25
10	Necklace-like MoC sulfiphilic sites embedded in interconnected carbon networks for Liâ€“S batteries with high sulfur loading. Journal of Materials Chemistry A, 2019, 7, 11298-11304.	5.2	68
11	3D morphology characterization of graphite and its effect on the thermal conductivity of vermicular graphite iron. International Journal of Materials Research, 2019, 110, 591-599.	0.1	3
12	From interlayer to lightweight capping layer: Rational design of mesoporous TiO2 threaded with CNTs for advanced Liâ€“S batteries. Carbon, 2019, 143, 523-530.	5.4	64
13	Evolution of a bicontinuous structure in peritectic melting: The simplest form of dealloying. Physical Review Materials, 2019, 3, .	0.9	7
14	Porous TiAl3 intermetallics with symmetrical graded pore-structure fabricated by leaching space holder and thermal explosion process. Intermetallics, 2018, 95, 144-149.	1.8	21
15	A 3D Multifunctional Architecture for Lithiumâ€“Sulfur Batteries with High Areal Capacity. Small Methods, 2018, 2, 1800067.	4.6	33
16	Tomographical Study of the Effect of Graphite on Properties of Cast Iron. Steel Research International, 2018, 89, 1800086.	1.0	6
17	MRI compatibility of several early transition metal based alloys and its influencing factors. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 377-385.	1.6	4
18	Polysulfide immobilization and conversion on a conductive polar MoC@MoOx material for lithium-sulfur batteries. Energy Storage Materials, 2018, 10, 56-61.	9.5	157

#	Article	IF	Citations
19	Correlation of Materials Property and Performance with Internal Structures Evolvement Revealed by Laboratory X-ray Tomography. Materials, 2018, 11, 1795.	1.3	38
20	Mesoporous TiN microspheres as an efficient polysulfide barrier for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 14359-14366.	5.2	96
21	Nanoporous Aluminum by Galvanic Replacement: Dealloying and Inward-Growth Plating. Journal of the Electrochemical Society, 2018, 165, C492-C496.	1.3	33
22	Effect of graphite morphology on the tensile strength and thermal conductivity of cast iron. Materials Characterization, 2018, 144, 155-165.	1.9	40
23	Single-wall carbon nanotube network enabled ultrahigh sulfur-content electrodes for high-performance lithium-sulfur batteries. Nano Energy, 2017, 42, 205-214.	8.2	183
24	3D Grapheneâ€Foamâ€“Reducedâ€Grapheneâ€Oxide Hybrid Nested Hierarchical Networks for Highâ€Performance Liâ€“S Batteries. Advanced Materials, 2016, 28, 1603-1609.	11.1	497
25	3D Interconnected Electrode Materials with Ultrahigh Areal Sulfur Loading for Liâ€“S Batteries. Advanced Materials, 2016, 28, 3374-3382.	11.1	488
26	Bulk Metallic Glasses: MRI Compatibility and Its Correlation with Magnetic Susceptibility. Journal of Materials Science and Technology, 2016, 32, 496-504.	5.6	10
27	Comparison of bone regeneration in alveolar bone of dogs on mineralized collagen grafts with two composition ratios of nano-hydroxyapatite and collagen. International Journal of Energy Production and Management, 2016, 3, 33-40.	1.9	35
28	A trilayer separator with dual function for high performance lithiumâ€“sulfur batteries. Journal of Power Sources, 2016, 301, 179-186.	4.0	117
29	A high-density grapheneâ€“sulfur assembly: a promising cathode for compact Liâ€“S batteries. Nanoscale, 2015, 7, 5592-5597.	2.8	92
30	A graphene foam electrode with high sulfur loading for flexible and high energy Li-S batteries. Nano Energy, 2015, 11, 356-365.	8.2	526
31	A Grapheneâ€“Pureâ€Sulfur Sandwich Structure for Ultrafast, Longâ€Life Lithiumâ€“Sulfur Batteries. Advanced Materials, 2014, 26, 625-631.	11.1	908
32	Strengthening and toughening of Mg-based bulk metallic glass via in-situ formed B2-type AgMg phase. Journal of Non-Crystalline Solids, 2013, 379, 40-47.	1.5	11
33	APPLICATION OF HIGH RESOLUTION TRANSMISSIONX-RAY TOMOGRAPHY IN MATERIAL SCIENCE. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 49, 897.	0.3	63
34	Cast defects induced sample-size dependency on compressive strength and fracture toughness of Mgâ€“Cuâ€“Agâ€“Gd bulk metallic glass. Intermetallics, 2012, 29, 123-132.	1.8	30
35	Mg-based bulk metallic glasses: Elastic properties and their correlations with toughness and glass transition temperature. Journal of Materials Research, 2011, 26, 923-933.	1.2	16