Zhonglu Guo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Breaking the linear scaling relations in MXene catalysts for efficient CO2 reduction. Chemical Engineering Journal, 2022, 429, 132171.	12.7	32
2	Surface ligand engineering of CsPbBr3 perovskite nanowires for high-performance photodetectors. Journal of Colloid and Interface Science, 2022, 608, 2367-2376.	9.4	19
3	Construction of 2D/2D Bi2WO6/BN heterojunction for effective improvement on photocatalytic degradation of tetracycline. Journal of Alloys and Compounds, 2022, 894, 162487.	5 . 5	26
4	Eco-green C, O co-doped porous BN adsorbent for aqueous solution with superior adsorption efficiency and selectivity. Chemosphere, 2022, 288, 132520.	8.2	8
5	Densification and pelletization of porous boron nitride fibers for effective CO2 adsorption. Ceramics International, 2022, , .	4.8	8
6	Electronic properties and surface reactive sites of carbon and oxygen doped porous boron nitride: A DFT study. Diamond and Related Materials, 2022, 121, 108802.	3.9	1
7	Enhanced adsorption of fluoroquinolone antibiotics on Cu-modified porous boron nitride nanofibers in aqueous solution. Journal of Molecular Structure, 2022, 1255, 132475.	3 . 6	3
8	Cobalt Supported on BN Catalyst with High Bâ€O Defects and Its Efficient Hydrodeoxygenation Performance of HMF to DMF**. ChemistrySelect, 2022, 7, .	1.5	7
9	Synergistic photocatalytic of CO2-to-CO conversion by 2D/1D Ti3C2Tx/p-BN heterojunction with interfacial chemical bonding. Journal of Alloys and Compounds, 2022, 920, 165933.	5 . 5	15
10	Anchoring of CsPbBr ₃ perovskite quantum dots on BN nanostructures for enhanced efficiency and stability: a comparative study. Journal of Materials Chemistry C, 2021, 9, 842-850.	5 . 5	14
11	Carbon doped hexagonal boron nitride nanoribbon as efficient metal-free electrochemical nitrogen reduction catalyst. Chemical Engineering Journal, 2021, 410, 128419.	12.7	59
12	Ultrathin h-BN/Bi2MoO6 heterojunction with synergetic effect for visible-light photocatalytic tetracycline degradation. Journal of Colloid and Interface Science, 2021, 589, 545-555.	9.4	115
13	Highly Selective Hydrogenation of Phenol Catalyzed by Porous BN Supported Niâ°'Pd Catalysts. ChemistrySelect, 2021, 6, 5975-5982.	1.5	5
14	Novel Two-Dimensional Janus MoSiGeN ₄ and WSiGeN ₄ as Highly Efficient Photocatalysts for Spontaneous Overall Water Splitting. ACS Applied Materials & Samp; Interfaces, 2021, 13, 28090-28097.	8.0	89
15	Mercury Adsorption on Thiol-Modified Porous Boron Nitride: A Combined Experimental and Theoretical Investigation. Industrial & Engineering Chemistry Research, 2021, 60, 12984-12998.	3.7	9
16	Fluorine doped porous boron nitride for efficient CO2 capture and separation: A DFT study. Applied Surface Science, 2021, 556, 149775.	6.1	16
17	Controllable synthesis and enhanced microwave absorption properities of novel lightweight graphene quantum dots/hexagonal boron nitride composites. Carbon, 2021, 182, 134-143.	10.3	41
18	Functionalized Mo2B2 MBenes: Promising anchoring and electrocatalysis materials for Lithium-Sulfur battery. Applied Surface Science, 2021, 566, 150634.	6.1	29

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19	Sc2CO-MXene/h-BN heterostructure with synergetic effect as an anchoring and catalytic material for lithium-sulfur battery. Journal of Alloys and Compounds, 2021, 887, 161273.	5.5	15
20	Bimetallic AuPd Nanoparticles Loaded on Amine-Functionalized Porous Boron Nitride Nanofibers for Catalytic Dehydrogenation of Formic Acid. ACS Applied Nano Materials, 2021, 4, 1849-1857.	5.0	27
21	Synthesis of Nanostructured Boron Nitride Aerogels by Rapid Pyrolysis of Melamine Diborate Aerogels via Induction Heating: From Composition Adjustment to Property Studies. ACS Applied Nano Materials, 2021, 4, 13788-13797.	5.0	8
22	Two-dimensional chromium boride MBenes with high HER catalytic activity. Applied Surface Science, 2020, 500, 144248.	6.1	50
23	Two-dimensional O-phase group III monochalcogenides for photocatalytic water splitting. Journal of Physics Condensed Matter, 2020, 32, 065501.	1.8	6
24	Enhanced Li+ storage through highly hybridized networks of self-assembled SnS2/rGO aerogels. Journal of Alloys and Compounds, 2020, 828, 154192.	5 . 5	8
25	In Situ Cu-Loaded Porous Boron Nitride Nanofiber as an Efficient Adsorbent for CO ₂ Capture. ACS Sustainable Chemistry and Engineering, 2020, 8, 7454-7462.	6.7	30
26	Nickel (II) modified porous boron nitride: An effective adsorbent for tetracycline removal from aqueous solution. Chemical Engineering Journal, 2020, 394, 124985.	12.7	66
27	M2C-type MXenes: Promising catalysts for CO2 capture and reduction. Applied Surface Science, 2020, 521, 146436.	6.1	77
28	Vacancy-mediated lithium adsorption and diffusion on MXene. Applied Surface Science, 2019, 488, 578-585.	6.1	46
29	Local-ordering mediated configuration stability and elastic properties of aluminum-containing high entropy alloys. Intermetallics, 2019, 110, 106474.	3.9	6
30	Lattice Thermal Conductivity of mGeTe•nSb2Te3 Phase-Change Materials: A First-Principles Study. Crystals, 2019, 9, 136.	2.2	5
31	Aggregate Stability under Long-Term Fertilization Practices: The Case of Eroded Ultisols of South-Central China. Sustainability, 2019, 11, 1169.	3.2	37
32	Novel two-dimensional molybdenum carbides as high capacity anodes for lithium/sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 12145-12153.	10.3	106
33	Novel hierarchical RGO/MoS ₂ /K-αMnO ₂ composite architectures with enhanced broadband microwave absorption performance. Journal of Materials Chemistry C, 2019, 7, 13878-13886.	5.5	15
34	Solvothermal synthesis of Mn-doped CsPbCl ₃ perovskite nanocrystals with tunable morphology and their size-dependent optical properties. RSC Advances, 2019, 9, 39315-39322.	3.6	16
35	Strengthening mechanism of aluminum on elastic properties of NbVTiZr high-entropy alloys. Intermetallics, 2018, 92, 7-14.	3.9	44
36	Combined effects of simulated rainfall and overland flow on sediment and solute transport in hillslope erosion. Journal of Soils and Sediments, 2018, 18, 1120-1132.	3.0	55

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37	Synergistic effect of Ni and Fe in Fe-doped NiS2 counter electrode for dye-sensitized solar cells: Experimental and DFT studies. Electrochimica Acta, 2018, 284, 24-29.	5.2	23
38	New gallium chalcogenides/arsenene van der Waals heterostructures promising for photocatalytic water splitting. International Journal of Hydrogen Energy, 2018, 43, 15995-16004.	7.1	49
39	Coincident modulation of lattice and electron thermal transport performance in MXenes <i>via</i> surface functionalization. Physical Chemistry Chemical Physics, 2018, 20, 19689-19697.	2.8	18
40	Strain-mediated type-I/type-II transition in MXene/Blue phosphorene van der Waals heterostructures for flexible optical/electronic devices. Journal of Materials Chemistry C, 2017, 5, 978-984.	5.5	155
41	New two-dimensional transition metal borides for Li ion batteries and electrocatalysis. Journal of Materials Chemistry A, 2017, 5, 23530-23535.	10.3	253
42	Effect of water content, bulk density, and aggregate size on mechanical characteristics of Aquults soil blocks and aggregates from subtropical China. Journal of Soils and Sediments, 2017, 17, 210-219.	3.0	22
43	Ti-enhanced exfoliation of V2AlC into V2C MXene for lithium-ion battery anodes. Ceramics International, 2017, 43, 11450-11454.	4.8	85
44	Metal–Metal Bonding Stabilized Ground State Structure of Early Transition Metal Monoxide TM–MO (TM = Ti, Hf, V, Ta). Journal of Physical Chemistry C, 2016, 120, 10009-10014.	3.1	10
45	MXene: a promising photocatalyst for water splitting. Journal of Materials Chemistry A, 2016, 4, 11446-11452.	10.3	569
46	Synergistic Resistive Switching Mechanism of Oxygen Vacancies and Metal Interstitials in Ta ₂ O ₅ . Journal of Physical Chemistry C, 2016, 120, 2456-2463.	3.1	34
47	Design principles of tuning oxygen vacancy diffusion in SrZrO ₃ for resistance random access memory. Journal of Materials Chemistry C, 2015, 3, 4081-4085.	5.5	20
48	An overview of materials issues in resistive random access memory. Journal of Materiomics, 2015, 1, 285-295.	5.7	106
49	Microscopic origin of MXenes derived from layered MAX phases. RSC Advances, 2015, 5, 25403-25408.	3.6	61
50	Realization of a reversible switching in TaO2 polymorphs via Peierls distortion for resistance random access memory. Applied Physics Letters, 2015, 106, 091903.	3.3	19
51	Flexible two-dimensional $Ti < sub > n+1 < sub > C < sub > n < su$	2.8	247
52	First-principles investigation of the stability and stabilization mechanism of Ni2Zn11 \hat{I}^3 brasses under high pressure. Computational Materials Science, 2015, 98, 430-434.	3.0	4
53	Band gap engineering in huge-gap semiconductor SrZrO3 for visible-light photocatalysis. International Journal of Hydrogen Energy, 2014, 39, 2042-2048.	7.1	72
54	Mechanical properties and soil stability affected by fertilizer treatments for an Ultisol in subtropical China. Plant and Soil, 2013, 363, 157-174.	3.7	31

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55	Role of oxygen vacancies in the resistive switching of SrZrO3 for resistance random access memory. Journal of Alloys and Compounds, 2013, 580, 148-151.	5.5	44