

Kan Luo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6530010/publications.pdf>

Version: 2024-02-01

28
papers

2,244
citations

489802

18
h-index

563245

28
g-index

28
all docs

28
docs citations

28
times ranked

2529
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated Ti ₃ C ₂ MXenes. ACS Nano, 2022, 16, 813-822.	7.3	90
2	Halogenated Ti ₃ C ₂ MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. ACS Nano, 2021, 15, 1077-1085.	7.3	183
3	Two-dimensional semiconducting Lu ₂ CT ₂ (T = F, OH) MXene with low work function and high carrier mobility. Nanoscale, 2020, 12, 3795-3802.	2.8	30
4	Structural, mechanical and electronic properties of two-dimensional chlorine-terminated transition metal carbides and nitrides. Journal of Physics Condensed Matter, 2020, 32, 135302.	0.7	18
5	The defect impacts of zigzag SiC nanoribbons in the spin devices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126852.	0.9	7
6	Theoretical study on the electrical and mechanical properties of MXene multilayer structures through strain regulation. Chemical Physics Letters, 2020, 760, 137997.	1.2	13
7	Theoretical exploration on the vibrational and mechanical properties of M ₃ C ₂ /M ₃ C ₂ T ₂ MXenes. International Journal of Quantum Chemistry, 2020, 120, e26409.	1.0	10
8	First-principles study of magnetism in some novel MXene materials. RSC Advances, 2020, 10, 44430-44436.	1.7	11
9	Predictions of the structures and properties of the substituted layered ternary compound series (Zr _{1-x} T _x) ₃ Al ₃ C ₅ (T = Ta, Hf, Nb, and V) through first-principles studies. Journal of Physics Condensed Matter, 2019, 31, 385702.		2
10	Single-Atom-Thick Active Layers Realized in Nanolaminated Ti ₃ (Al _x Cu _{1-x}) ₂ and Its Artificial Enzyme Behavior. ACS Nano, 2019, 13, 9198-9205.	7.3	59
11	MoO _x Nanoparticle Catalysts for <i>d</i> -Glucose Epimerization and Their Electrical Immobilization in a Continuous Flow Reactor. ACS Applied Materials & Interfaces, 2019, 11, 44118-44123.	4.0	2
12	Synthesis of MAX phases Nb ₂ CuC and Ti ₂ (Al _{0.1} Cu _{0.9})N by A-site replacement reaction in molten salts. Materials Research Letters, 2019, 7, 510-516.	4.1	58
13	Tuning the Electrical Conductivity of Ti ₂ CO ₂ MXene by Varying the Layer Thickness and Applying Strains. Journal of Physical Chemistry C, 2019, 123, 6802-6811.	1.5	49
14	Element Replacement Approach by Reaction with Lewis Acidic Molten Salts to Synthesize Nanolaminated MAX Phases and MXenes. Journal of the American Chemical Society, 2019, 141, 4730-4737.	6.6	811
15	First-principles study on the stability and properties of $\hat{1}^2$ -SiC/M+1AlC (M=Sc, Ti, V, Cr, Zr, Nb, Mo, Hf, Ta); Tj ETQq1 1.0.784314 rgBT /OV	1.9	5
16	Bipolar magnetic semiconductors among intermediate states during the conversion from Sc ₂ C(OH) ₂ to Sc ₂ CO ₂ MXene. Nanoscale, 2018, 10, 8763-8771.	2.8	27
17	First-principles study on the electrical and thermal properties of the semiconducting Sc ₃ (CN) ₂ MXene. RSC Advances, 2018, 8, 22452-22459.	1.7	24
18	A low-cost non-conjugated dicarboxylate coupled with reduced graphene oxide for stable sodium-organic batteries. Journal of Power Sources, 2018, 398, 99-105.	4.0	20

#	ARTICLE	IF	CITATIONS
19	Structures and Mechanical and Electronic Properties of the Ti ₂ CO ₂ MXene Incorporated with Neighboring Elements (Sc, V, B and N). Journal of Electronic Materials, 2017, 46, 2460-2466.	1.0	68
20	Controllable magnitude and anisotropy of the electrical conductivity of Hf ₃ C ₂ O ₂ MXene. Journal of Physics Condensed Matter, 2017, 29, 165701.	0.7	35
21	Ab Initio Studies on the Clathrate Hydrates of Some Nitrogen- and Sulfur-Containing Gases. Journal of Physical Chemistry A, 2017, 121, 2620-2626.	1.1	16
22	Hybridization of inorganic CoB noncrystal with graphene and its Kubas-enhanced hydrogen adsorption at room temperature. RSC Advances, 2016, 6, 93238-93244.	1.7	7
23	Electronic and Transport Properties of Ti ₂ CO ₂ MXene Nanoribbons. Journal of Physical Chemistry C, 2016, 120, 17143-17152.	1.5	46
24	Promising electron mobility and high thermal conductivity in Sc ₂ CT ₂ (T = F, Tj ETQq0 0 Q rgBT /Overlock 10 T	2.8	205
25	Intrinsic Structural, Electrical, Thermal, and Mechanical Properties of the Promising Conductor Mo ₂ C MXene. Journal of Physical Chemistry C, 2016, 120, 15082-15088.	1.5	139
26	Electronic structures and mechanical properties of Al(111)/ZrB ₂ (0001) heterojunctions from first-principles calculation. Molecular Physics, 2015, 113, 1794-1801.	0.8	21
27	New insight into the helium-induced damage in MAX phase Ti ₃ AlC ₂ by first-principles studies. Journal of Chemical Physics, 2015, 143, 114707.	1.2	26
28	Role of the surface effect on the structural, electronic and mechanical properties of the carbide MXenes. Europhysics Letters, 2015, 111, 26007.	0.7	262