

Xin Wu

List of Publications by Year in descending order

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31
papers

665
citations

623734

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32
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times ranked

603
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel 3D printable multimaterial auxetic metamaterial with reinforced structure: Improved stiffness and retained auxetic behavior. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 408-418.	2.6	30
2	Recent Advances on Tuning the Interlayer Coupling and Properties in van der Waals Heterostructures. <i>Small</i> , 2022, 18, e2105877.	10.0	23
3	Fabrication of Nanopore in MoS ₂ -Graphene vdW Heterostructure by Ion Beam Irradiation and the Mechanical Performance. <i>Nanomaterials</i> , 2022, 12, 196.	4.1	8
4	Recent advances in the 3D printing of electrically conductive hydrogels for flexible electronics. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5380-5399.	5.5	39
5	Recent Research Progress in the Structure, Fabrication, and Application of MXene-Based Heterostructures. <i>Nanomaterials</i> , 2022, 12, 1907.	4.1	15
6	Printing of MXene-based materials and the applications: a state-of-the-art review. <i>2D Materials</i> , 2022, 9, 042002.	4.4	3
7	Development of a numerical model for simulating stress corrosion cracking in spent nuclear fuel canisters. <i>Npj Materials Degradation</i> , 2021, 5, .	5.8	2
8	A New Copper(I) Iodide Based Organic-Inorganic Hybrid Structure with Red Emission. <i>Crystals</i> , 2021, 11, 594.	2.2	1
9	Titanium-containing organic-inorganic hybrid coatings for the corrosion protection of copper in sodium chloride medium. <i>Molecular Crystals and Liquid Crystals</i> , 2021, 722, 87-94.	0.9	1
10	Three-dimensional printing of graphene-based materials and the application in energy storage. <i>Materials Today Advances</i> , 2021, 11, 100157.	5.2	27
11	Molecular dynamics simulations of ion beam irradiation on graphene/MoS ₂ heterostructure. <i>Scientific Reports</i> , 2021, 11, 21113.	3.3	6
12	Impact of ion beam irradiation on two-dimensional MoS ₂ : A molecular dynamics simulation study. <i>Journal of Physics Condensed Matter</i> , 2021, 34, .	1.8	8
13	Construction of g-C ₃ N ₄ /TiO ₂ /Ag composites with enhanced visible-light photocatalytic activity and antibacterial properties. <i>Ceramics International</i> , 2020, 46, 696-702.	4.8	49
14	In-plane impact resistance enhancement with a graded cell-wall angle design for auxetic metamaterials. <i>Composite Structures</i> , 2020, 247, 112451.	5.8	64
15	Robust Ag-Cu Sintering Bonding at 160 °C via Combining Ag ₂ O Microparticle Paste and Pt-Catalyzed Formic Acid Vapor. <i>Metals</i> , 2020, 10, 315.	2.3	11
16	On residual stress analysis and microstructural evolution for stainless steel type 304 spent nuclear fuel canisters weld joint: Numerical and experimental studies. <i>Journal of Nuclear Materials</i> , 2020, 534, 152131.	2.7	9
17	Perspective of additive manufacturing for metamaterials development. <i>Smart Materials and Structures</i> , 2019, 28, 093001.	3.5	65
18	Application of atomic simulation methods on the study of graphene nanostructure fabrication by particle beam irradiation: A review. <i>Computational Materials Science</i> , 2018, 149, 98-106.	3.0	17

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19	Graphene and Graphene-Based Nanomaterials for DNA Detection: A Review. <i>Molecules</i> , 2018, 23, 2050.	3.8	70
20	Influence of Particle Beam Irradiation on the Structure and Properties of Graphene. Springer Theses, 2018, , .	0.1	6
21	The rational designed graphene oxide-Fe ₂ O ₃ composites with low cytotoxicity. <i>Materials Science and Engineering C</i> , 2017, 72, 659-666.	7.3	7
22	Doping of graphene using ion beam irradiation and the atomic mechanism. <i>Computational Materials Science</i> , 2017, 129, 184-193.	3.0	18
23	Joining of graphene flakes by low energy N ion beam irradiation. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	16
24	Fabrication of nanopore in graphene by electron and ion beam irradiation: Influence of graphene thickness and substrate. <i>Computational Materials Science</i> , 2015, 102, 258-266.	3.0	34
25	Shape-controlled synthesis of cobalt particles by a surfactant-free solvothermal method and their catalytic application to the thermal decomposition of ammonium perchlorate. <i>CrystEngComm</i> , 2015, 17, 9062-9069.	2.6	27
26	Investigation on gallium ions impacting monolayer graphene. <i>AIP Advances</i> , 2015, 5, .	1.3	13
27	Molecular dynamics simulation of graphene sheets joining under ion beam irradiation. <i>Carbon</i> , 2014, 66, 31-38.	10.3	48
28	The Joining of Graphene Sheets Under Ar Ion Beam Irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 5697-5702.	0.9	10
29	The Formation of Molecular Junctions between Graphene Sheets. <i>Materials Transactions</i> , 2013, 54, 940-946.	1.2	7
30	Toughening by Multiple Mechanisms in Ceramic Matrix Composites with Discontinuous Elongated Reinforcements. <i>Journal of the American Ceramic Society</i> , 2000, 83, 2006-2016.	3.8	14
31	Synthesis and potential applications of nanoporous graphene: A review. <i>Proceedings of the Nature Research Society</i> , 0, 2, .	0.0	17