Kasra Momeni

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4411020/publications.pdf

Version: 2024-02-01

35 papers	961 citations	535685 17 h-index	488211 31 g-index
36 all docs	36 docs citations	36 times ranked	1715 citing authors

#	Article	IF	Citations
1	Computational synthesis of 2D materials grown by chemical vapor deposition. Journal of Materials Research, 2022, 37, 114-123.	1.2	11
2	Sensitivity of additively manufactured AA7075 to variation in feedstock composition and print parameters. Journal of Manufacturing Processes, 2022, 73, 555-562.	2.8	5
3	Developing Fused Deposition Modeling Additive Manufacturing Processing Strategies for Aluminum Alloy 7075: Sample Preparation and Metallographic Characterization. Materials, 2022, 15, 1340.	1.3	9
4	Effect of the Substrate on MoS₂ Monolayer Morphology: An Integrated Computational and Experimental Study. ACS Applied Materials & Interfaces, 2022, 14, 18835-18844.	4.0	11
5	Effect of differently oriented interlayer phases on the radiation damage of Inconel-Ni multimetallic layered composite. Journal of Alloys and Compounds, 2022, 915, 165432.	2.8	2
6	Engineering the Surface Melt for In-Space Manufacturing of Aluminum Parts. Journal of Materials Engineering and Performance, 2022, 31, 6092-6100.	1.2	3
7	Multi-cycling nanoindentation in additively manufactured Inconel 625 before and after laser peening. Surface Topography: Metrology and Properties, 2022, 10, 025031.	0.9	2
8	Nanoscale serration characteristics of additively manufactured superalloys. Journal of Alloys and Compounds, 2021, 854, 156723.	2.8	5
9	Effect of Irradiation on Ni-Inconel/Incoloy Heterostructures in Multimetallic Layered Composites. Journal of Nuclear Materials, 2021, 547, 152778.	1.3	11
10	A multiscale insight into the growth of h-BN: effect of the enclosure. 2D Materials, 2021, 8, 035033.	2.0	11
11	A Modified Embedded-Atom Potential for Fe-Cr-Si Alloys. Journal of Physical Chemistry C, 2021, 125, 22863-22871.	1.5	5
12	Sensitivity of laser powder bed fusion additive manufactured HAYNES230 to composition and print parameters. Journal of Materials Research and Technology, 2021, 15, 6453-6463.	2.6	7
13	Multiscale computational understanding and growth of 2D materials: a review. Npj Computational Materials, 2020, 6, .	3.5	89
14	Shear-induced diamondization of multilayer graphene structures: A computational study. Carbon, 2020, 167, 140-147.	5.4	19
15	Systematic design of high-strength multicomponent metamaterials. Materials and Design, 2019, 183, 108124.	3.3	35
16	Mechanical property enhancement of one-dimensional nanostructures through defect-mediated strain engineering. Extreme Mechanics Letters, 2019, 27, 66-75.	2.0	13
17	Mechanochemistry of Stable Diamane and Atomically Thin Diamond Films Synthesis from Bi- and Multilayer Graphene: A Computational Study. Journal of Physical Chemistry C, 2019, 123, 15751-15760.	1.5	26
18	Multiscale crystal-plasticity phase field and extended finite element methods for fatigue crack initiation and propagation modeling. International Journal of Fracture, 2019, 216, 41-57.	1.1	10

#	Article	IF	Citations
19	A roadmap for electronic grade 2D materials. 2D Materials, 2019, 6, 022001.	2.0	205
20	Dynamic energy absorption characteristics of additively-manufactured shape-recovering lattice structures. Materials Research Express, 2019, 6, 045302.	0.8	35
21	Multiscale framework for simulation-guided growth of 2D materials. Npj 2D Materials and Applications, 2018, 2, .	3.9	41
22	Defect engineering, a path to make ultra-high strength low-dimensional nanostructures. Computational Materials Science, 2018, 151, 307-316.	1.4	11
23	Controlled synthesis of 2D transition metal dichalcogenides: from vertical to planar MoS ₂. 2D Materials, 2017, 4, 025029.	2.0	63
24	Defect Engineering: A Path toward Exceeding Perfection. ACS Omega, 2017, 2, 663-669.	1.6	20
25	Fast 180Â° magnetization switching in a strain-mediated multiferroic heterostructure driven by a voltage. Scientific Reports, 2016, 6, 27561.	1.6	64
26	Atomic Defects Influenced Mechanics of IIâ€“VI Nanocrystals. Nano Letters, 2016, 16, 5969-5974.	4.5	14
27	Structural transformation in monolayer materials: a 2D to 1D transformation. Physical Chemistry Chemical Physics, 2016, 18, 19873-19879.	1.3	14
28	A phase-field approach to nonequilibrium phase transformations in elastic solids via an intermediate phase (melt) allowing for interface stresses. Physical Chemistry Chemical Physics, 2016, 18, 12183-12203.	1.3	20
29	Fast Magnetic Domain-Wall Motion in a Ring-Shaped Nanowire Driven by a Voltage. Nano Letters, 2016, 16, 2341-2348.	4.5	55
30	A phase-field approach to solidâ€“solid phase transformations via intermediate interfacial phases under stress tensor. International Journal of Solids and Structures, 2015, 71, 39-56.	1.3	22
31	The Strong Influence of Internal Stresses on the Nucleation of a Nanosized, Deeply Undercooled Melt at a Solidâ€“Solid Phase Interface. Nano Letters, 2015, 15, 2298-2303.	4.5	30
32	Propagating phase interface with intermediate interfacial phase: Phase field approach. Physical Review B, 2014, 89, .	1.1	26
33	Enhanced mechanical properties of ZnO nanowire-reinforced nanocomposites: a size-scale effect. Acta Mechanica, 2014, 225, 2549-2562.	1.1	2
34	Electromechanical properties of 1D ZnO nanostructures: nanopiezotronics building blocks, surface and size-scale effects. Physical Chemistry Chemical Physics, 2014, 16, 4522-4527.	1.3	30
35	Solidâ€“solid transformations via nanoscale intermediate interfacial phase: Multiple structures, scale and mechanics effects. Acta Materialia, 2014, 65, 125-132.	3.8	35