Ahmad Ranjbar

List of Publications by Year
in descending order

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26 papers	2,330 citations	623574 14 h-index	677027 22 g-index
26 all docs	26 docs citations	26 times ranked	2668 citing authors

#	Article	IF	Citations
1	Second-harmonic generation in atomically thin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â€“</mml:mtext><mml:mn and its possible origin from charge density wave transitions. Physical Review B, 2022, 105, .	3.7	5
2	A theoretical investigation of topological phase modulation in carbide MXenes: Role of image potential states. Carbon, 2021, 181, 370-378.	5.4	6
3	Modulation of nearly free electron states in hydroxyl-functionalized MXenes: a first-principles study. Journal of Materials Chemistry C, 2020, 8, 5211-5221.	2.7	21
4	Electronic Properties and Applications of MXenes from Ab Initio Calculations Perspective. , 2019, , 255-289.		6
5	Novel MAB phases and insights into their exfoliation into 2D MBenes. Nanoscale, 2019, 11, 11305-11314.	2.8	120
6	Insights into exfoliation possibility of MAX phases to MXenes. Physical Chemistry Chemical Physics, 2018, 20, 8579-8592.	1.3	182
7	Electronic structures of iMAX phases and their two-dimensional derivatives: A family of piezoelectric materials. Physical Review Materials, 2018, 2, .	0.9	31
8	Fabrication of Bismuth Titanate (Bi4Ti3O12) Thin Films: Effect of Annealing Temperature on their Structural and Optical Properties. Scientia Iranica, 2018, .	0.3	4
9	Electronic properties and applications of MXenes: a theoretical review. Journal of Materials Chemistry C, 2017, 5, 2488-2503.	2.7	759
10	Theoretical prediction of two-dimensional functionalized MXene nitrides as topological insulators. Physical Review B, 2017, 96, .	1.1	83
11	Many-electron states of the N2 and N3 color centers in diamond: A first- principles and many-body study. Physica B: Condensed Matter, 2017, 505, 17-21.	1.3	1
12	Topological insulators in the ordered double transition metals<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msubsup><mml:mi>M</mml:mi><mml:mn>2</mml:mn><mn mathvariant="normal">C</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>MXenes		

#	Article	IF	Citations
19	Chemical engineering of adamantane by lithium functionalization: A first-principles density functional theory study. Physical Review B, 2011, 83, .	1.1	17
20	A novel computational approach to study proton transfer in perfluorosulfonic acid membranes. International Journal of Hydrogen Energy, 2010, 35, 3648-3655.	3.8	10
21	First-principles study of structural stability, magnetism, and hyperfine coupling in hydrogen clusters adsorbed on graphene. Physical Review B, 2010, 82, .	1.1	44
22	Geometrical indications of adsorbed hydrogen atoms on graphite producing star and ellipsoidal like features in scanning tunneling microscopy images: Ab initio study. Carbon, 2009, 47, 3306-3312.	5.4	26
23	Explanation of atomic displacement around lattice vacancies in diamond based on electron delocalization. European Physical Journal B, 2008, 65, 219-223.	0.6	4
24	Comparison between stability, electronic, and structural properties of cagelike and spherical nanodiamond clusters. Physical Review B, 2007, 76, .	1.1	13
25	On topological materials as photocatalysts for water splitting by visible light. JPhys Materials, 0, , .	1.8	1
26	Electronic Structures of Group IIIâ€“V Element Haeckelite Compounds: A Novel Family of Semiconductors, Dirac Semimetals, and Topological Insulators. Advanced Functional Materials, 0, , 2110930.	7.8	3