Fatih ErÅan

List of Publications by Year
in descending order

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47	1,501	279798	315739
papers	citations	23 h-index	38 g-index

47	47	47	1508
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Designing two-dimensional dodecagonal boron nitride. CrystEngComm, 2022, 24, 471-474.	2.6	7
2	Negative thermal expansion of group III-Nitride monolayers. Journal Physics D: Applied Physics, 2022, 55, 315303.	2.8	5
3	Influence of Cr-substitution on the structural, magnetic, electron transport, and mechanical properties of Fe3â^'Cr Ge Heusler alloys. Journal of Magnetism and Magnetic Materials, 2021, 521, 167398.	2.3	17
4	Aluminum and lithium sulfur batteries: a review of recent progress and future directions. Journal of Physics Condensed Matter, 2021, 33, 253002.	1.8	7
5	Comprehensive Study of Lithium Adsorption and Diffusion on Janus Mo/WXY (X, Y = S, Se, Te) Using First-Principles and Machine Learning Approaches. ACS Applied Materials & Interfaces, 2021, 13, 36388-36406.	8.0	52
6	Theoretical Screening of Metal Borocarbide Sheets for High-Capacity and High-Rate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Li</mml:mi></mml:math> - and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Na</mml:mi></mml:math> -Ion Batteries. Physical Review Applied, 2021, 16, .	3.8	15
7	Tuning of electronic structure, magnetic phase, and transition temperature in two-dimensional Cr-based Janus MXenes. Physical Review Materials, 2021, 5, .	2.4	23
8	Ferromagnetic TM₂BC (TM = Cr, Mn) monolayers for spintronic devices with high Curie temperature. Physical Chemistry Chemical Physics, 2021, 23, 6107-6115.	2.8	29
9	Controlling electronic structure of single-layered $${hbox {HfX}}_{3}$$ ($$hbox {X=S}$$, Se) trichalcogenides through systematic Zr doping. Journal of Materials Science, 2020, 55, 660-669.	3.7	12
10	Exploring the potential of MnX (S, Sb) monolayers for antiferromagnetic spintronics: A theoretical investigation. Journal of Applied Physics, 2020, 128, .	2.5	15
11	Engineering the Electronic, Thermoelectric, and Excitonic Properties of Two-Dimensional Group-III Nitrides through Alloying for Optoelectronic Devices (B_{1â€“x}Al_xN, Al_{1â€“x}Ga_xN, and) Tj ETQq1 1 0.784314	3.1	20
12	Janus <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Pt</mml:mi></mml:math> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>X</mml:mi><mml:mi>n</mml:mi></mml:msub><mml:msub><mml:mi>Y</mml:mi><mml:mrow		

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19	Stable, one-dimensional suspended and supported monatomic chains of pnictogens: a metalâ€“insulator framework. Physical Chemistry Chemical Physics, 2019, 21, 14832-14845.	2.8	9
20	Novel Metallic Clathrates of Group-IV Elements and Their Compounds in a Dense Hexagonal Lattice. Journal of Physical Chemistry C, 2019, 123, 15330-15338.	3.1	5
21	Two-dimensional pnictogens: A review of recent progresses and future research directions. Applied Physics Reviews, 2019, 6, .	11.3	143
22	Strain effects on electronic and magnetic properties of the monolayer Î±-RuCl3: A first-principles and Monte Carlo study. Journal of Applied Physics, 2019, 125, .	2.5	32
23	Single-layer Ag6S2: First principles investigation of a new two-dimensional direct bandgap semiconductor. Computational Materials Science, 2019, 163, 278-281.	3.0	13
24	Exploring the electronic and magnetic properties of new metal halides from bulk to two-dimensional monolayer: RuX3 (Xâ€¯=â€¯Br, I). Journal of Magnetism and Magnetic Materials, 2019, 476, 111-119.	2.3	48
25	Glycine self-assembled on graphene enhances the solar absorbance performance. Carbon, 2019, 143, 329-334.	10.3	21
26	Stable monolayer of the RuO₂ structure by the Peierls distortion. Philosophical Magazine, 2019, 99, 376-385.	1.6	18
27	Fundamentals, progress, and future directions of nitride-based semiconductors and their composites in two-dimensional limit: A first-principles perspective to recent synthesis. Applied Physics Reviews, 2018, 5, .	11.3	71
28	Influence of chalcogen composition on the structural transition and on the electronic and optical properties of the monolayer titanium trichalcogenide ordered alloys. Physical Chemistry Chemical Physics, 2018, 20, 1431-1439.	2.8	9
29	Electronic and magnetic properties of monolayer Î±-RuCl₃: a first-principles and Monte Carlo study. Physical Chemistry Chemical Physics, 2018, 20, 997-1004.	2.8	57
30	Chemical and substitutional doping, and anti-site and vacancy formation in monolayer AlN and GaN. Physical Chemistry Chemical Physics, 2018, 20, 16077-16091.	2.8	45
31	Metalâ€“Insulator Transition and Heterostructure Formation by Glycines Self-Assembled on Defect-Patterned Graphene. Journal of Physical Chemistry C, 2018, 122, 14598-14605.	3.1	28
32	Diffusion quantum Monte Carlo and density functional calculations of the structural stability of bilayer arsenene. Journal of Chemical Physics, 2018, 148, 214706.	3.0	23
33	The effect of vacancies and the substitution of p-block atoms on single-layer buckled germanium selenide. RSC Advances, 2017, 7, 37815-37822.	3.6	20
34	Theoretical investigation of lithium adsorption, diffusion and coverage on MX 2 (M = Mo, W; X = O, S,) Tj ETQq0 0 0 rgBT /Overlock 10 T	6.1	55
35	Adsorption of alkali and alkaline earth metal atoms and dimers on monolayer germanium carbide. Philosophical Magazine, 2017, 97, 155-167.	1.6	14
36	Stable single-layer structure of group-V elements. Physical Review B, 2016, 94, .	3.2	108

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37	T-ZrS nanoribbons: structure and electronic properties. Philosophical Magazine, 2016, 96, 2074-2087.	1.6	8
38	Effect of adatoms and molecules on the physical properties of platinum-doped and -substituted silicene: A first-principles investigation. Applied Surface Science, 2016, 371, 314-321.	6.1	30
39	Stable monolayer honeycomb-like structures of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mtext>Ru</mml:mtext><mml:msub><mml:mi>X</mml:mi><mml:mo>(</mml:mo><mml:mrow><mml:mi>X</mml:mi><mml:mo>=</mml:mo> Physical Review B, 2016, 94, .	3.2	30
40	Point defects in hexagonal germanium carbide monolayer: A first-principles calculation. Applied Surface Science, 2016, 389, 1-6.	6.1	62
41	Adsorption of alkali and alkaline-earth metal atoms on stanene: A first-principles study. Materials Chemistry and Physics, 2016, 180, 326-331.	4.0	33
42	Interaction of Adatoms and Molecules with Single-Layer Arsenene Phases. Journal of Physical Chemistry C, 2016, 120, 14345-14355.	3.1	98
43	Interactions of h-AlN monolayer with platinum, oxygen, and their clusters. Chemical Physics, 2015, 455, 73-80.	1.9	13
44	Adsorption and Diffusion of Lithium on Monolayer Transition Metal Dichalcogenides (MoS_{2(1â€“x)}Se_{2x}) Alloys. Journal of Physical Chemistry C, 2015, 119, 28648-28653.	3.1	76
45	Effects of silver adatoms on the electronic structure of silicene. Applied Surface Science, 2014, 311, 9-13.	6.1	25
46	Electronic structure of BSb defective monolayers and nanoribbons. Journal of Physics Condensed Matter, 2014, 26, 325303.	1.8	9
47	Bimetallic two-dimensional PtAg coverage on h-BN substrate: First-principles calculations. Applied Surface Science, 2014, 303, 306-311.	6.1	20