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	Two-dimensional pnictogens: A review of recent progresses and future research directions. Applied Physics Reviews, 2019, 6, .	11.3	143
2	Stable single-layer structure of group-V elements. Physical Review B, 2016, 94, .	3.2	108
3	Interaction of Adatoms and Molecules with Single-Layer Arsenene Phases. Journal of Physical Chemistry C, 2016, 120, 14345-14355.	3.1	98
4	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
5	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
6	Point defects in hexagonal germanium carbide monolayer: A first-principles calculation. Applied Surface Science, 2016, 389, 1-6.	6.1	62
7	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
8	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
9	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
10	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	Electronic properties of bare and functionalized two-dimensional (2D) tellurene structures. Physical Chemistry Chemical Physics, 2020, 22, 6727-6737.	2.8	28
20	Effects of silver adatoms on the electronic structure of silicene. Applied Surface Science, 2014, 311, 9-13.	6.1	25
21	Effects of the number of layers on the vibrational, electronic and optical properties of alpha lead oxide. Physical Chemistry Chemical Physics, 2019, 21, 3868-3876.	2.8	25
22	Tuneable structure and magnetic properties in Fe3â^'V Ge alloys. Journal of Alloys and Compounds, 2020, 830, 154403.	5.5	25
23	Monitoring the electronic, thermal and optical properties of two-dimensional MoO₂ under strain via vibrational spectroscopies: a first-principles investigation. Physical Chemistry Chemical Physics, 2019, 21, 19904-19914.	2.8	24
24	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
25	Unusual Pressureâ€Driven Phase Transformation and Band Renormalization in 2D vdW Hybrid Lead Halide Perovskites. Advanced Materials, 2020, 32, e1907364.	21.0	23
26	Tuning of electronic structure, magnetic phase, and transition temperature in two-dimensional Cr-based Janus MXenes. Physical Review Materials, 2021, 5, .	2.4	23
27	Glycine self-assembled on graphene enhances the solar absorbance performance. Carbon, 2019, 143, 329-334.	10.3	21
28	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 ETQq0 0 0 rgBT /Ov 46416-46428.	8.0	21
29	Bimetallic two-dimensional PtAg coverage on h-BN substrate: First-principles calculations. Applied Surface Science, 2014, 303, 306-311.	6.1	20
30	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
31	Stable monolayer of the RuO₂ structure by the Peierls distortion. Philosophical Magazine, 2019, 99, 376-385.	1.6	18
32	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
33	Exploring the potential of MnX (S, Sb) monolayers for antiferromagnetic spintronics: A theoretical investigation. Journal of Applied Physics, 2020, 128, .	2.5	15
34	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
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	Interactions of h-AlN monolayer with platinum, oxygen, and their clusters. Chemical Physics, 2015, 455, 73-80.	1.9	13

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37	Single-layer Ag6S2: First principles investigation of a new two-dimensional direct bandgap semiconductor. Computational Materials Science, 2019, 163, 278-281.	3.0	13
38	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
39	Electronic structure of BSb defective monolayers and nanoribbons. Journal of Physics Condensed Matter, 2014, 26, 325303.	1.8	9
40	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
41	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
42	T-ZrS nanoribbons: structure and electronic properties. Philosophical Magazine, 2016, 96, 2074-2087.	1.6	8
43	Aluminum and lithium sulfur batteries: a review of recent progress and future directions. Journal of Physics Condensed Matter, 2021, 33, 253002.	1.8	7
44	Designing two-dimensional dodecagonal boron nitride. CrystEngComm, 2022, 24, 471-474.	2.6	7
45	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
46	Negative thermal expansion of group III-Nitride monolayers. Journal Physics D: Applied Physics, 2022, 55, 315303.	2.8	5
47	Layered Perovskites: Unusual Pressureâ€Đriven Phase Transformation and Band Renormalization in 2D vdW Hybrid Lead Halide Perovskites (Adv. Mater. 12/2020). Advanced Materials, 2020, 32, 2070088.	21.0	1