

Berna Akgen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Tuning the structural, electronic and dynamical properties of Janus M ₄ X ₃ Y ₃ (M = Pd, Ni and Co; X,Y = S,) Tj ETQq1 1 0.784314 rgBT / Qv	2.8	3
2	Aluminum and lithium sulfur batteries: a review of recent progress and future directions. Journal of Physics Condensed Matter, 2021, 33, 253002.	1.8	7
3	Prediction of monoclinic single-layer Janus $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Ga} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{X} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle = \text{S}$ Tj ETQq1 1 0.784314 rgBT / Qv	2.8	3
4	Tuning of electronic structure, magnetic phase, and transition temperature in two-dimensional Cr-based Janus MXenes. Physical Review Materials, 2021, 5, .	2.4	23
5	First-principles investigation of electronic, mechanical and thermoelectric properties of graphene-like XBi (X = Si, Ge, Sn) monolayers. Physical Chemistry Chemical Physics, 2021, 23, 12471-12478.	2.8	16
6	Intriguing of two-dimensional Janus surface-functionalized MXenes: An ab initio calculation. Computational Materials Science, 2020, 171, 109231.	3.0	56
7	Control of C ₃ N ₄ and C ₄ N ₃ carbon nitride nanosheets™ electronic and magnetic properties through embedded atoms. Physical Chemistry Chemical Physics, 2020, 22, 2249-2261.	2.8	49
8	Tunable electronic and magnetic properties of graphene/carbon-nitride van der Waals heterostructures. Applied Surface Science, 2020, 505, 144450.	6.1	61
9	Oxygen Vacancies in the Single Layer of Ti ₂ CO ₂ MXene: Effects of Gating Voltage, Mechanical Strain, and Atomic Impurities. Physica Status Solidi (B): Basic Research, 2020, 257, 2000343.	1.5	29
10	Strain and electric field tuning of semi-metallic character WCrCO ₂ MXenes with dual narrow band gap. Journal of Physics Condensed Matter, 2020, 32, 355504.	1.8	33
11	Phase-dependent electronic and magnetic properties of Ti ₂ C monolayers. Journal of Applied Physics, 2020, 127, .	2.5	30
12	Embedding of atoms into the nanopore sites of the C ₆ N ₆ and C ₆ N ₈ porous carbon nitride monolayers with tunable electronic properties. Physical Chemistry Chemical Physics, 2020, 22, 6418-6433.	2.8	38
13	Van der Waals heterostructures of MoS ₂ and Janus MoSSe monolayers on graphitic boron-carbon-nitride (<i>BC</i> ₃ , <i>C</i> ₃ <i>N</i> , <i>C</i> ₃ <i>N</i> ₄) and <i>C</i> ₄ <i>N</i> ₃ nanosheets: a first-principles study. Journal Physics D: Applied Physics, 2020, 53, 355106.	2.8	64
14	New predicted two-dimensional MXenes and their structural, electronic and lattice dynamical properties. Solid State Communications, 2019, 303-304, 113739.	1.9	31
15	Two-dimensional black arsenic for Li-ion battery applications: a DFT study. Journal of Materials Science, 2019, 54, 9543-9552.	3.7	31
16	First principles calculations on stability and mechanical properties of various ABO ₃ and their alloys. Materials Chemistry and Physics, 2018, 205, 315-324.	4.0	24
17	Modeling Superionic Behavior of Plutonium Dioxide. High Temperature Materials and Processes, 2016, 35, 999-1004.	1.4	1
18	Modified Li chains as atomic switches. Scientific Reports, 2013, 3, 2605.	3.3	6