

Mehmet Yagmurcukardes

List of Publications by Year in descending order

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46
papers

1,686
citations

257101

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docs citations

46
times ranked

1782
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface-dependent phononic and optical properties of GeO/MoSO heterostructures. <i>Nanoscale</i> , 2022, 14, 865-874.	2.8	5
2	Electrospun polyacrylonitrile (PAN) nanofiber: preparation, experimental characterization, organic vapor sensing ability and theoretical simulations of binding energies. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	6
3	Electro-optical and mechanical properties of Zinc antimonide (ZnSb) monolayer and bilayer: A first-principles study. <i>Applied Surface Science</i> , 2021, 540, 148289.	3.1	16
4	Stable Janus TaSe ₂ single-layers via surface functionalization. <i>Applied Surface Science</i> , 2021, 538, 148064.	3.1	7
5	Electronic and magnetic properties of single-layer FeCl ₂ with defects. <i>Physical Review B</i> , 2021, 103, .	1.1	9
6	Aluminum and lithium sulfur batteries: a review of recent progress and future directions. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 253002.	0.7	7
7	Janus two-dimensional transition metal dichalcogenide oxides: First-principles investigation of W monolayers with O S , Se, and Te. <i>Physical Review B</i> , 2021, 103, .	1.1	73
8	A Dirac-semimetal two-dimensional BeN ₄ : Thickness-dependent electronic and optical properties. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	64
9	Surface functionalization of the honeycomb structure of zinc antimonide (ZnSb) monolayer: A first-Principles study. <i>Surface Science</i> , 2021, 707, 121796.	0.8	17
10	Prediction of monoclinic single-layer Janus $GaMn_2$ ($X = S, Se, Te$) Tj ETQ 0 0 0 r gBT /Overlo		
11	Determining the Molecular Orientation on the Metal Nanoparticle Surface through Surface-Enhanced Raman Spectroscopy and Density Functional Theory Simulations. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16289-16295.	1.5	8
12	First-Principles Investigation of Structural, Raman and Electronic Characteristics of Single Layer Ge ₃ N ₄ . <i>Applied Surface Science</i> , 2021, 572, 151361.	3.1	1
13	Vibrational and optical identification of GeO ₂ and GeO single layers: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21307-21315.	1.3	3
14	First-principles investigation of electronic, mechanical and thermoelectric properties of graphene-like XBi (X = Si, Ge, Sn) monolayers. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12471-12478.	1.3	16
15	Exponentially selective molecular sieving through angstrom pores. <i>Nature Communications</i> , 2021, 12, 7170.	5.8	29
16	Interaction of Ge with single layer GaAs: From Ge-island nucleation to formation of novel stable monolayers. <i>Applied Surface Science</i> , 2020, 505, 144218.	3.1	1
17	Vanadium dopant- and strain-dependent magnetic properties of single-layer VI ₃ . <i>Applied Surface Science</i> , 2020, 508, 144937.	3.1	30
18	Electro-optical properties of monolayer and bilayer boron-doped C_3 Tunable electronic structure via strain engineering and electric field. <i>Carbon</i> , 2020, 168, 220-229.	5.4	66

#	ARTICLE	IF	CITATIONS
19	Blue Energy Conversion from Holey-Graphene-like Membranes with a High Density of Subnanometer Pores. Nano Letters, 2020, 20, 8634-8639.	4.5	42
20	Stable anisotropic single-layer of ReTe ₂ : a first principles prediction. Turkish Journal of Physics, 2020, 44, 450-457.	0.5	4
21	Optoelectronic properties of confined water in angstrom-scale slits. Physical Review B, 2020, 102, .	1.1	6
22	Stable single-layers of calcium halides (CaX ₂ , X = F, Cl, Br, I). Journal of Chemical Physics, 2020, 152, 164116.	1.2	13
23	Quantum properties and applications of 2D Janus crystals and their superlattices. Applied Physics Reviews, 2020, 7, .	5.5	156
24	Hematite at its thinnest limit. 2D Materials, 2020, 7, 025029.	2.0	13
25	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 N<i>N</i> ₄ and <i>C</i> ₄ N<i>N</i> ₃ nanosheets: a first-principles study. Journal Physics D: Applied Physics, 2020, 53, 355106.	1.3	64
26	Single-layer Janus black arsenic-phosphorus (b-AsP): Optical dichroism, anisotropic vibrational, thermal, and elastic properties. Physical Review B, 2020, 101, .	1.1	31
27	Stable single layer of Janus MoSO: Strong out-of-plane piezoelectricity. Physical Review B, 2020, 101, .	1.1	67
28	Functionalization of single-layer TaS ₂ and formation of ultrathin Janus structures. Journal of Materials Research, 2020, 35, 1397-1406.	1.2	4
29	Two-Dimensional Covalent Crystals by Chemical Conversion of Thin van der Waals Materials. Nano Letters, 2019, 19, 6475-6481.	4.5	32
30	Monolayer fluoro-InSe: Formation of a thin monolayer via fluorination of InSe. Physical Review B, 2019, 100, .	1.1	26
31	Electronic, vibrational, elastic, and piezoelectric properties of monolayer Janus MoSTe phases: A first-principles study. Physical Review B, 2019, 100, .	1.1	120
32	Single-Layer Janus-Type Platinum Dichalcogenides and Their Heterostructures. Journal of Physical Chemistry C, 2019, 123, 4549-4557.	1.5	81
33	Single-layer structures of <i>a</i> ₁₀₀ - and <i>b</i> ₀₁₀ -Gallenene: a tight-binding approach. Physical Chemistry Chemical Physics, 2019, 21, 15798-15804.	1.3	15
34	Raman fingerprint of stacking order in HfS_2 heterobilayer. Physical Review B, 2019, 99, .	1.2	26
35	Vertical van der Waals Heterostructure of Single Layer InSe and SiGe. Journal of Physical Chemistry C, 2019, 123, 31232-31237.	1.5	14
36	Tuning electronic and magnetic properties of monolayer $RuCl_3$ by in-plane strain. Journal of Materials Chemistry C, 2018, 6, 2019-2025.	2.7	47

