

Mehmet Yagmurcukardes

List of Publications by Year in descending order

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46
papers

1,686
citations

257101

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g-index

46
all docs

46
docs citations

46
times ranked

1782
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum properties and applications of 2D Janus crystals and their superlattices. Applied Physics Reviews, 2020, 7, .	5.5	156
2	Mechanical properties of monolayer GaS and GaSe crystals. Physical Review B, 2016, 94, .	1.1	122
3	Electronic, vibrational, elastic, and piezoelectric properties of monolayer Janus MoSTe phases: A first-principles study. Physical Review B, 2019, 100, .	1.1	120
4	Pentagonal monolayer crystals of carbon, boron nitride, and silver azide. Journal of Applied Physics, 2015, 118, .	1.1	91
5	Single-Layer Janus-Type Platinum Dichalcogenides and Their Heterostructures. Journal of Physical Chemistry C, 2019, 123, 4549-4557.	1.5	81
6	Nanoribbons: From fundamentals to state-of-the-art applications. Applied Physics Reviews, 2016, 3, .	5.5	77
7	Janus two-dimensional transition metal dichalcogenide oxides: First-principles investigation of $W\text{O}_X$ monolayers with S , Se, and Te. Physical Review B, 2021, 103, .	1.1	73
8	Stable single layer of Janus MoSO: Strong out-of-plane piezoelectricity. Physical Review B, 2020, 101, .	1.1	67
9	Electro-optical properties of monolayer and bilayer boron-doped C_3N_4 . Tunable electronic structure via strain engineering and electric field. Carbon, 2020, 168, 220-229.	5.4	66
10	Van der Waals heterostructures of MoS_2 and Janus MoSSe monolayers on graphitic boron-carbon-nitride (BC_3 , C_3N , C_3N_4) and C_4N_3 nanosheets: a first-principles study. Journal Physics D: Applied Physics, 2020, 53, 355106.	1.3	64
11	A Dirac-semimetal two-dimensional BeN_4 : Thickness-dependent electronic and optical properties. Applied Physics Letters, 2021, 118, .	1.5	64
12	Nitrogenated, phosphorated and arsenicated monolayer holey graphenes. Physical Chemistry Chemical Physics, 2016, 18, 3144-3150.	1.3	57
13	Electronic and vibrational properties of PbI_2 : From bulk to monolayer. Physical Review B, 2018, 98, .	1.1	49
14	Tuning electronic and magnetic properties of monolayer $\hat{\Gamma}_\pm\text{-RuCl}_3$ by in-plane strain. Journal of Materials Chemistry C, 2018, 6, 2019-2025.	2.7	47
15	Strain mapping in single-layer two-dimensional crystals via Raman activity. Physical Review B, 2018, 97, .	1.1	43
16	Blue Energy Conversion from Holey-Graphene-like Membranes with a High Density of Subnanometer Pores. Nano Letters, 2020, 20, 8634-8639.	4.5	42
17	Mg_2O van der Waals heterobilayer: Electric field tunable band-gap crossover. Physical Review B, 2016, 94, .	1.1	40
18	Two-Dimensional Covalent Crystals by Chemical Conversion of Thin van der Waals Materials. Nano Letters, 2019, 19, 6475-6481.	4.5	32

#	ARTICLE	IF	CITATIONS
19	Single-layer Janus black arsenic-phosphorus (b-AsP): Optical dichroism, anisotropic vibrational, thermal, and elastic properties. <i>Physical Review B</i> , 2020, 101, .	1.1	31
20	Vanadium dopant- and strain-dependent magnetic properties of single-layer VI ₃ . <i>Applied Surface Science</i> , 2020, 508, 144937.	3.1	30
21	Exponentially selective molecular sieving through angstrom pores. <i>Nature Communications</i> , 2021, 12, 7170.	5.8	29
22	Hydrogen-induced structural transition in single layer ReS ₂ . <i>2D Materials</i> , 2017, 4, 035013.	2.0	26
23	Monolayer fluoro-InSe: Formation of a thin monolayer via fluorination of InSe. <i>Physical Review B</i> , 2019, 100, .	1.1	26
24	Raman fingerprint of stacking order in HfS_2 heterobilayer. <i>Physical Review B</i> , 2019, 99, .	1.2	26
25	Controlled growth mechanism of poly (3-hexylthiophene) nanowires. <i>Nanotechnology</i> , 2016, 27, 455604.	1.3	25
26	Enhanced Stability of Single-Layer w-Gallene through Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28302-28309.	1.5	25
27	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
28	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
29	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
30	Single-layer structures of a_{100} - and b_{010} -Gallene: a tight-binding approach. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15798-15804.	1.3	15
31	Vertical van der Waals Heterostructure of Single Layer InSe and SiGe. <i>Journal of Physical Chemistry C</i> , 2019, 123, 31232-31237.	1.5	14
32	Stable single-layers of calcium halides (CaX ₂ , X = F, Cl, Br, I). <i>Journal of Chemical Physics</i> , 2020, 152, 164116.	1.2	13
33	Hematite at its thinnest limit. <i>2D Materials</i> , 2020, 7, 025029.	2.0	13
34	Prediction of monoclinic single-layer Janus Ga_2X ($\text{X} = \text{S}, \text{Se}, \text{Te}$) Overl...	1.0	13
35	Electronic and magnetic properties of single-layer FeCl ₂ with defects. <i>Physical Review B</i> , 2021, 103, .	1.1	9
36	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

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37	Stable Janus TaSe ₂ single-layers via surface functionalization. Applied Surface Science, 2021, 538, 148064.	3.1	7
38	Aluminum and lithium sulfur batteries: a review of recent progress and future directions. Journal of Physics Condensed Matter, 2021, 33, 253002.	0.7	7
39	Optoelectronic properties of confined water in angstrom-scale slits. Physical Review B, 2020, 102, .	1.1	6
40	Electrospun polyacrylonitrile (PAN) nanofiber: preparation, experimental characterization, organic vapor sensing ability and theoretical simulations of binding energies. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	6
41	Interface-dependent phononic and optical properties of GeO/MoSO heterostructures. Nanoscale, 2022, 14, 865-874.	2.8	5
42	Stable anisotropic single-layer of ReTe ₂ : a first principles prediction. Turkish Journal of Physics, 2020, 44, 450-457.	0.5	4
43	Functionalization of single-layer TaS ₂ and formation of ultrathin Janus structures. Journal of Materials Research, 2020, 35, 1397-1406.	1.2	4
44	Vibrational and optical identification of GeO ₂ and GeO single layers: a first-principles study. Physical Chemistry Chemical Physics, 2021, 23, 21307-21315.	1.3	3
45	Interaction of Ge with single layer GaAs: From Ge-island nucleation to formation of novel stable monolayers. Applied Surface Science, 2020, 505, 144218.	3.1	1
46	First-Principles Investigation of Structural, Raman and Electronic Characteristics of Single Layer Ge ₃ N ₄ . Applied Surface Science, 2021, 572, 151361.	3.1	1