

Mehmet Yagmurcukardes

List of Publications by Year in descending order

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46
papers

1,686
citations

257450

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289244

40
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46
all docs

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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.	5.6	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.	2.3	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.	6.1	16
4	Stable Janus TaSe ₂ single-layers via surface functionalization. <i>Applied Surface Science</i> , 2021, 538, 148064.	6.1	7
5	Electronic and magnetic properties of single-layer FeCl ₂ with defects. <i>Physical Review B</i> , 2021, 103, .	3.2	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.	1.8	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, .	3.2	73
8	A Dirac-semimetal two-dimensional BeN ₄ : Thickness-dependent electronic and optical properties. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	64
9	Surface functionalization of the honeycomb structure of zinc antimonide (ZnSb) monolayer: A first-Principles study. <i>Surface Science</i> , 2021, 707, 121796.	1.9	17
10	Prediction of monoclinic single-layer Janus $GaMn_2$ ($X = S, Se, Te$) Tj ETQ 0 0 0 rgt /Overlo	3.5	9
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.	3.1	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.	6.1	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.	2.8	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.	2.8	16
15	Exponentially selective molecular sieving through angstrom pores. <i>Nature Communications</i> , 2021, 12, 7170.	12.8	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.	6.1	1
17	Vanadium dopant- and strain-dependent magnetic properties of single-layer VI ₃ . <i>Applied Surface Science</i> , 2020, 508, 144937.	6.1	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.	10.3	66

#	ARTICLE	IF	CITATIONS
19	Blue Energy Conversion from Holey-Graphene-like Membranes with a High Density of Subnanometer Pores. <i>Nano Letters</i> , 2020, 20, 8634-8639.	9.1	42
20	Stable anisotropic single-layer of ReTe ₂ : a first principles prediction. <i>Turkish Journal of Physics</i> , 2020, 44, 450-457.	1.1	4
21	Optoelectronic properties of confined water in angstrom-scale slits. <i>Physical Review B</i> , 2020, 102, .	3.2	6
22	Stable single-layers of calcium halides (CaX ₂ , X = F, Cl, Br, I). <i>Journal of Chemical Physics</i> , 2020, 152, 164116.	3.0	13
23	Quantum properties and applications of 2D Janus crystals and their superlattices. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	156
24	Hematite at its thinnest limit. <i>2D Materials</i> , 2020, 7, 025029.	4.4	13
25	Van der Waals heterostructures of MoS ₂ and Janus MoSSe monolayers on graphitic boron-carbon-nitride ($\langle i \rangle BC \langle /i \rangle \langle sub \rangle 3 \langle /sub \rangle \langle i \rangle C \langle /i \rangle \langle sub \rangle 3 \langle /sub \rangle \langle i \rangle N \langle /i \rangle \langle i \rangle C \langle sub \rangle 3 \langle /sub \rangle N \langle sub \rangle 4 \langle /sub \rangle \langle /i \rangle$ and $\langle i \rangle C \langle sub \rangle 4 \langle /sub \rangle N \langle sub \rangle 3 \langle /sub \rangle$) nanosheets: a first-principles study. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 355106.	2.8	64
26	Single-layer Janus black arsenic-phosphorus (b-AsP): Optical dichroism, anisotropic vibrational, thermal, and elastic properties. <i>Physical Review B</i> , 2020, 101, .	3.2	31
27	Stable single layer of Janus MoSO: Strong out-of-plane piezoelectricity. <i>Physical Review B</i> , 2020, 101, .	3.2	67
28	Functionalization of single-layer TaS ₂ and formation of ultrathin Janus structures. <i>Journal of Materials Research</i> , 2020, 35, 1397-1406.	2.6	4
29	Two-Dimensional Covalent Crystals by Chemical Conversion of Thin van der Waals Materials. <i>Nano Letters</i> , 2019, 19, 6475-6481.	9.1	32
30	Monolayer fluoro-InSe: Formation of a thin monolayer via fluorination of InSe. <i>Physical Review B</i> , 2019, 100, .	3.2	26
31	Electronic, vibrational, elastic, and piezoelectric properties of monolayer Janus MoSTe phases: A first-principles study. <i>Physical Review B</i> , 2019, 100, .	3.2	120
32	Single-Layer Janus-Type Platinum Dichalcogenides and Their Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4549-4557.	3.1	81
33	Single-layer structures of $\langle i \rangle a \langle /i \rangle \langle sub \rangle 100 \langle /sub \rangle$- and $\langle i \rangle b \langle /i \rangle \langle sub \rangle 010 \langle /sub \rangle$-Gallenene: a tight-binding approach. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15798-15804.	2.8	15
34	Raman fingerprint of stacking order in <math>\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" \rangle \langle mml:mrow \rangle \langle mml:msub \rangle \langle mml:mi \rangle HfS \langle /mml:mi \rangle \langle mml:msub \rangle 2 \langle /mml:msub \rangle \langle /mml:mrow \rangle \langle /mml:math> heterobilayer. <i>Physical Review B</i> , 2019, 99, .	3.2	26
35	Vertical van der Waals Heterostructure of Single Layer InSe and SiGe. <i>Journal of Physical Chemistry C</i> , 2019, 123, 31232-31237.	3.1	14
36	Tuning electronic and magnetic properties of monolayer $\hat{\pm}$-RuCl ₃ by in-plane strain. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2019-2025.	5.5	47

