Hasan SahIn

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141
papers11,197
citations45
h-index105
g-index144
ext. papers12,610
ext. citations4.4
avg, IF6.67
L-index

#	Paper	IF	Citations
141	Two- and one-dimensional honeycomb structures of silicon and germanium. <i>Physical Review Letters</i> , 2009 , 102, 236804	7.4	2380
140	Monolayer honeycomb structures of group-IV elements and III-V binary compounds: First-principles calculations. <i>Physical Review B</i> , 2009 , 80,	3.3	1401
139	Stable, Single-Layer MX2 Transition-Metal Oxides and Dichalcogenides in a Honeycomb-Like Structure. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8983-8999	3.8	992
138	Monolayer behaviour in bulk ReS2 due to electronic and vibrational decoupling. <i>Nature Communications</i> , 2014 , 5, 3252	17.4	728
137	Mechanical and Electronic Properties of MoS2 Nanoribbons and Their Defects. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3934-3941	3.8	391
136	Anomalous Raman spectra and thickness-dependent electronic properties of WSe2. <i>Physical Review B</i> , 2013 , 87,	3.3	341
135	Tuning the optical, magnetic, and electrical properties of ReSe2 by nanoscale strain engineering. <i>Nano Letters</i> , 2015 , 15, 1660-6	11.5	293
134	Adsorption of alkali, alkaline-earth, and 3d transition metal atoms on silicene. <i>Physical Review B</i> , 2013 , 87,	3.3	259
133	Tuning of the electronic and optical properties of single-layer black phosphorus by strain. <i>Physical Review B</i> , 2014 , 90,	3.3	235
132	Structures of fluorinated graphene and their signatures. <i>Physical Review B</i> , 2011 , 83,	3.3	222
131	Phonon softening and direct to indirect band gap crossover in strained single-layer MoSe2. <i>Physical Review B</i> , 2013 , 87,	3.3	162
130	Adsorption and absorption of boron, nitrogen, aluminum, and phosphorus on silicene: Stability and electronic and phonon properties. <i>Physical Review B</i> , 2013 , 87,	3.3	157
129	Graphene coatings: An efficient protection from oxidation. <i>Physical Review B</i> , 2012 , 85,	3.3	153
128	Environmental Changes in MoTe2 Excitonic Dynamics by Defects-Activated Molecular Interaction. <i>ACS Nano</i> , 2015 , 9, 5326-32	16.7	144
127	Electronic and magnetic properties of graphane nanoribbons. <i>Physical Review B</i> , 2010 , 81,	3.3	122
126	Formation and stability of point defects in monolayer rhenium disulfide. <i>Physical Review B</i> , 2014 , 89,	3.3	118
125	Chlorine Adsorption on Graphene: Chlorographene. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24075-2	24 9.8 3	118

124	Magnetization of graphane by dehydrogenation. Applied Physics Letters, 2009, 95, 222510	3.4	105
123	Frictional figures of merit for single layered nanostructures. <i>Physical Review Letters</i> , 2012 , 108, 126103	7.4	94
122	Realization of a p-n junction in a single layer boron-phosphide. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13013-20	3.6	93
121	Structural Transitions in Monolayer MoS2 by Lithium Adsorption. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10602-10609	3.8	92
120	First-principles calculations of spin-dependent conductance of graphene flakes. <i>Physical Review B</i> , 2008 , 78,	3.3	87
119	Stone-Wales defects in silicene: Formation, stability, and reactivity of defect sites. <i>Physical Review B</i> , 2013 , 88,	3.3	86
118	Hexagonal AlN: Dimensional-crossover-driven band-gap transition. <i>Physical Review B</i> , 2015 , 91,	3.3	86
117	Mechanical properties of monolayer GaS and GaSe crystals. <i>Physical Review B</i> , 2016 , 94,	3.3	82
116	Mechanical properties of monolayer sulphides: a comparative study between MoS2, HfS2 and TiS3. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 27742-9	3.6	78
115	Stable half-metallic monolayers of FeCl2. <i>Applied Physics Letters</i> , 2015 , 106, 192404	3.4	77
114	Pentagonal monolayer crystals of carbon, boron nitride, and silver azide. <i>Journal of Applied Physics</i> , 2015 , 118, 104303	2.5	69
113	Structural, mechanical, and electronic properties of defect-patterned graphene nanomeshes from first principles. <i>Physical Review B</i> , 2011 , 84,	3.3	69
112	Tuning Carrier Confinement in the MoS2/WS2 Lateral Heterostructure. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9580-9586	3.8	65
111	Janus single layers of In2SSe: A first-principles study. <i>Physical Review B</i> , 2018 , 97,	3.3	65
110	Quantum properties and applications of 2D Janus crystals and their superlattices. <i>Applied Physics Reviews</i> , 2020 , 7, 011311	17.3	64
109	Structural and phononic characteristics of nitrogenated holey graphene. <i>Physical Review B</i> , 2015 , 92,	3.3	63
108	Spintronic properties of zigzag-edged triangular graphene flakes. <i>Journal of Applied Physics</i> , 2010 , 108, 074301	2.5	61
107	Doping of rhenium disulfide monolayers: a systematic first principles study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16771-9	3.6	56

106	Anisotropic electronic, mechanical, and optical properties of monolayer WTe2. <i>Journal of Applied Physics</i> , 2016 , 119, 074307	2.5	56
105	Structural, electronic and phononic properties of PtSe2: from monolayer to bulk. <i>Semiconductor Science and Technology</i> , 2018 , 33, 085002	1.8	55
104	Nanoribbons: From fundamentals to state-of-the-art applications. <i>Applied Physics Reviews</i> , 2016 , 3, 041	307 .3	55
103	Single-Layer Janus-Type Platinum Dichalcogenides and Their Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4549-4557	3.8	54
102	Unusual lattice vibration characteristics in whiskers of the pseudo-one-dimensional titanium trisulfide TiS. <i>Nature Communications</i> , 2016 , 7, 12952	17.4	54
101	Adsorption of carbon adatoms to graphene and its nanoribbons. <i>Journal of Applied Physics</i> , 2011 , 109, 013704	2.5	53
100	TiS3 nanoribbons: Width-independent band gap and strain-tunable electronic properties. <i>Physical Review B</i> , 2015 , 92,	3.3	51
99	Angle resolved vibrational properties of anisotropic transition metal trichalcogenide nanosheets. <i>Nanoscale</i> , 2017 , 9, 4175-4182	7.7	49
98	Strong dichroic emission in the pseudo one dimensional material ZrS. <i>Nanoscale</i> , 2016 , 8, 16259-16265	7.7	48
97	Monolayers of MoS2 as an oxidation protective nanocoating material. <i>Journal of Applied Physics</i> , 2014 , 116, 083508	2.5	47
96	CsPbBr3 perovskites: Theoretical and experimental investigation on water-assisted transition from nanowire formation to degradation. <i>Physical Review Materials</i> , 2018 , 2,	3.2	45
95	Vacancy Formation and Oxidation Characteristics of Single Layer TiS3. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10709-10715	3.8	44
94	Graphane. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2015, 5, 255-272	7.9	39
93	Unusual dimensionality effects and surface charge density in 2D Mg(OH)2. <i>Scientific Reports</i> , 2016 , 6, 20525	4.9	38
92	Mg(OH)2IWS2 van der Waals heterobilayer: Electric field tunable band-gap crossover. <i>Physical Review B</i> , 2016 , 94,	3.3	35
91	Bilayers of Janus WSSe: monitoring the stacking type via the vibrational spectrum. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17380-17386	3.6	34
90	Bilayer SnS2: Tunable stacking sequence by charging and loading pressure. <i>Physical Review B</i> , 2016 , 93,	3.3	33
89	Electronic and vibrational properties of PbI2: From bulk to monolayer. <i>Physical Review B</i> , 2018 , 98,	3.3	33

(2015-2015)

88	Tuning the magnetic anisotropy in single-layer crystal structures. <i>Physical Review B</i> , 2015 , 92,	3.3	33
87	Gd3+-Doped EcsPbI3 Nanocrystals with Better Phase Stability and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 24865-24872	3.8	32
86	Strain mapping in single-layer two-dimensional crystals via Raman activity. <i>Physical Review B</i> , 2018 , 97,	3.3	32
85	Tuning electronic and magnetic properties of monolayer RuCl3 by in-plane strain. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2019-2025	7.1	31
84	2D vibrational properties of epitaxial silicene on Ag(111). 2D Materials, 2017, 4, 015008	5.9	27
83	Two-Dimensional Covalent Crystals by Chemical Conversion of Thin van der Waals Materials. <i>Nano Letters</i> , 2019 , 19, 6475-6481	11.5	26
82	Portlandite crystal: Bulk, bilayer, and monolayer structures. <i>Physical Review B</i> , 2015 , 91,	3.3	26
81	Controlled growth mechanism of poly (3-hexylthiophene) nanowires. <i>Nanotechnology</i> , 2016 , 27, 455604	1 3.4	23
80	Thinning CsPb2Br5 perovskite down to monolayers: Cs-dependent stability. <i>Physical Review B</i> , 2017 , 96,	3.3	22
79	Raman fingerprint of stacking order in HfS2fa(OH)2 heterobilayer. <i>Physical Review B</i> , 2019 , 99,	3.3	22
78	Luminescence, patterned metallic regions, and photon-mediated electronic changes in single-sided fluorinated graphene sheets. <i>ACS Nano</i> , 2014 , 8, 7801-8	16.7	22
77	Introduction to the Physics of Silicene and other 2D Materials. Lecture Notes in Physics, 2017,	0.8	22
76	Hydrogen-induced structural transition in single layer ReS 2. 2D Materials, 2017, 4, 035013	5.9	20
75	Vanadium dopant- and strain-dependent magnetic properties of single-layer VI3. <i>Applied Surface Science</i> , 2020 , 508, 144937	6.7	20
74	h-AlN-Mg(OH)2 van der Waals bilayer heterostructure: Tuning the excitonic characteristics. <i>Physical Review B</i> , 2017 , 95,	3.3	19
73	Exciton pumping across type-I gallium chalcogenide heterojunctions. <i>Nanotechnology</i> , 2016 , 27, 065203	3.4	19
72	Optical properties of GaS-Ca(OH)2 bilayer heterostructure. <i>Physical Review B</i> , 2016 , 93,	3.3	17
71	Electronic and magnetic properties of 1 T-TiSe 2 nanoribbons. 2D Materials, 2015, 2, 044002	5.9	16

7º	Enhanced Stability of Single-Layer w-Gallenene through Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28302-28309	3.8	14
69	Computing optical properties of ultra-thin crystals. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2016, 6, 351-368	7.9	13
68	Defect tolerant and dimension dependent ferromagnetism in MnSe. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16718-16725	3.6	13
67	Engineering excitonic dynamics and environmental stability of post-transition metal chalcogenides by pyridine functionalization technique. <i>Nanoscale</i> , 2015 , 7, 17109-15	7.7	12
66	Monitoring the Doping and Diffusion Characteristics of Mn Dopants in Cesium Lead Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11543-11549	3.8	12
65	Kagome-like silicene: A novel exotic form of two-dimensional epitaxial silicon. <i>Applied Surface Science</i> , 2020 , 530, 147195	6.7	12
64	Increasing solubility of metal silicates by mixed polymeric antiscalants. <i>Geothermics</i> , 2019 , 77, 106-114	4.3	12
63	Stacking-dependent excitonic properties of bilayer blue phosphorene. <i>Physical Review B</i> , 2019 , 100,	3.3	11
62	Formation and diffusion characteristics of Pt clusters on Graphene, 1H-MoS2 and 1T-TaS2. <i>Annalen Der Physik</i> , 2014 , 526, 423-429	2.6	11
61	Vertical van der Waals Heterostructure of Single Layer InSe and SiGe. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 31232-31237	3.8	11
60	Single layer PbI2: hydrogenation-driven reconstructions. <i>RSC Advances</i> , 2016 , 6, 89708-89714	3.7	10
59	First-principles investigation of B- and N-doped fluorographene. <i>Physical Review B</i> , 2013 , 88,	3.3	10
58	Monitoring the crystal orientation of black-arsenic via vibrational spectra. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1228-1236	7.1	9
57	Stable single-layers of calcium halides (CaX, X = F, Cl, Br, I). <i>Journal of Chemical Physics</i> , 2020 , 152, 1641	16 .9	9
56	Ferromagnetism in stacked bilayers of Pd/C60. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 349, 128-134	2.8	9
55	Fundamental mechanisms responsible for the temperature coefficient of resonant frequency in microwave dielectric ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1508-1516	3.8	8
54	Octahedrally coordinated single layered CaF: robust insulating behaviour. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 2949-2954	3.6	8
53	Ag and Au atoms intercalated in bilayer heterostructures of transition metal dichalcogenides and graphene. <i>APL Materials</i> , 2014 , 2, 092801	5.7	8

(2016-2018)

52	Ab initio and semiempirical modeling of excitons and trions in monolayer TiS3. <i>Physical Review B</i> , 2018 , 98,	5.3	7
51	Monitoring the effect of asymmetrical vertical strain on Janus single layers of MoSSe via vibrational spectrum. <i>Journal of Chemical Physics</i> , 2018 , 149, 084707	.9	7
50	Ultra-thin ZnSe: Anisotropic and flexible crystal structure. <i>Applied Surface Science</i> , 2017 , 409, 426-430 6	ó.7	6
49	Theoretical and experimental investigation of conjugation of 1,6-hexanedithiol on MoS2. <i>Materials Research Express</i> , 2018 , 5, 036415	7	6
48	Experimental and computational investigation of graphene/SAMs/n-Si Schottky diodes. <i>Applied Surface Science</i> , 2018 , 428, 1010-1017	ó.7	6
47	Quantum-Transport Characteristics of a p-n Junction on Single-Layer TiS. <i>ChemPhysChem</i> , 2016 , 17, 3985 ₅	; <u>3</u> 991	6
46	Hydrogenation-driven phase transition in single-layer TiSe. <i>Nanotechnology</i> , 2017 , 28, 495709	··4	5
45	Prevalence of oxygen defects in an in-plane anisotropic transition metal dichalcogenide. <i>Physical Review B</i> , 2020 , 102,	3-3	5
44	Orthorhombic CsPbI3 perovskites: Thickness-dependent structural, optical and vibrational properties. <i>Computational Condensed Matter</i> , 2020 , 23, e00453	- 7	5
43	Few-layer MoS as nitrogen protective barrier. <i>Nanotechnology</i> , 2017 , 28, 415706	5·4	5
42	Stability, electronic and phononic properties of [and 1T structures of SiTe (x = 1, 2) and their vertical heterostructures. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 395504	2.8	5
41	Hydrogen-induced sp2日p3 rehybridization in epitaxial silicene. <i>Physical Review B</i> , 2017 , 96,	3-3	5
40	Temperature dependence of critical currents of two-gap superconductors. <i>EPJ Applied Physics</i> , 2006 , 36, 267-270	.1	5
39	New family of graphene-based organic semiconductors: An investigation of photon-induced electronic structure manipulation in half-fluorinated graphene. <i>Physical Review B</i> , 2016 , 93,	3-3	4
38	Structural changes in a Schiff base molecular assembly initiated by scanning tunneling microscopy tip. <i>Nanotechnology</i> , 2016 , 27, 335601	5·4	4
37	Stable monolayer Ephase of CdTe: strain-dependent properties. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12249-12255	7.1	4
36	Parametrizing nonbonded interactions between silica and water from first principles. <i>Applied Surface Science</i> , 2020 , 504, 144359	ó.7	4
35	Giant magnetic anisotropy in doped single layer molybdenum disulfide and fluorographene. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 195301	8	4

34	Stable Janus TaSe2 single-layers via surface functionalization. <i>Applied Surface Science</i> , 2021 , 538, 14806	54 6.7	4
33	Experimental and first-principles investigation of Cr-driven color change in cesium lead halide perovskites. <i>Journal of Applied Physics</i> , 2019 , 125, 225705	2.5	3
32	Color-Tunable All-Inorganic CsPbBr3 Perovskites Nanoplatelet Films for Photovoltaic Devices. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5149-5155	5.6	3
31	Stable ultra-thin CdTe crystal: a robust direct gap semiconductor. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 485302	1.8	3
30	Strain Engineering of 2D Materials. <i>Lecture Notes in Physics</i> , 2017 , 87-96	0.8	3
29	Esilicene as oxidation-resistant ultra-thin coating material. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1808-1814	3	3
28	The effect of DOPA hydroxyl groups on wet adhesion to polystyrene surface: An experimental and theoretical study. <i>Materials Chemistry and Physics</i> , 2020 , 243, 122606	4.4	3
27	Electronic and magnetic properties of single-layer FeCl2 with defects. <i>Physical Review B</i> , 2021 , 103,	3.3	3
26	Atomic-scale understanding of dichlorobenzene-assisted poly 3-hexylthiophene-2,5-diyl nanowire formation mechanism. <i>Journal of Molecular Structure</i> , 2017 , 1134, 681-686	3.4	2
25	Fabrication of a Postfunctionalizable, Biorepellent, Electroactive Polyurethane Interface on a Gold Surface by Surface-Assisted Polymerization. <i>Langmuir</i> , 2020 , 36, 6828-6836	4	2
24	Germanene, Stanene and Other 2D Materials. <i>Lecture Notes in Physics</i> , 2017 , 63-85	0.8	2
23	Hydrogenated derivatives of hexacoordinated metallic CuSi monolayer RSC Advances, 2018, 8, 39976-2	39982	2
22	Monolayer AsTe: Stable Robust Metal in 2D, 1D and 0D. ChemPhysChem, 2018, 19, 2176-2182	3.2	2
21	Origin of anomalous band-gap bowing in two-dimensional tin-lead mixed perovskite alloys. <i>Physical Review B</i> , 2021 , 104,	3.3	2
20	Green fabrication of lanthanide-doped hydroxide-based phosphors: Y(OH):Eu nanoparticles for white light generation. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1200-1210	3	1
19	Freestanding Silicene. <i>Lecture Notes in Physics</i> , 2017 , 13-39	0.8	1
18	Silicene on Ag Substrate. <i>Lecture Notes in Physics</i> , 2017 , 41-52	0.8	1
17	Interface-dependent phononic and optical properties of GeO/MoSO heterostructures <i>Nanoscale</i> , 2022 ,	7.7	1

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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	6.7	1
15	Novel ultra-thin two-dimensional structures of strontium chloride. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12527-12532	7.1	1
14	Toward single-layer Janus crystals: Off-balance materials from synthesis to nanotechnology applications. <i>Journal of Applied Physics</i> , 2021 , 129, 160902	2.5	1
13	Structural, electronic and vibrational properties of ultra-thin octahedrally coordinated structure of EuO2. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 493, 165668	2.8	1
12	Functionalization of single-layer TaS2 and formation of ultrathin Janus structures. <i>Journal of Materials Research</i> , 2020 , 35, 1397-1406	2.5	1
11	Cesium manganese chloride: Stable lead-free perovskite from bulk to single layer. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 531, 167845	2.8	1
10	Electronic properties of intrinsic vacancies in single-layer CaF2 and its heterostructure with monolayer MoS2. <i>Journal of Applied Physics</i> , 2021 , 130, 055301	2.5	1
9	First-principles investigation of structural, Raman and electronic characteristics of single layer Ge3N4. <i>Applied Surface Science</i> , 2021 , 572, 151361	6.7	1
8	Vibrational and optical identification of GeO and GeO single layers: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 21307-21315	3.6	1
7	Raman and optical characteristics of van der Waals heterostructures of single layers of GaP and GaSe: a first-principles study. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 2771-2781	6.8	1
6	Experimental modeling of antimony sulfides-rich geothermal deposits and their solubility in the presence of polymeric antiscalants. <i>Geothermics</i> , 2022 , 104, 102452	4.3	1
5	Adsorption and diffusion characteristics of lithium on hydrogenated 🛭 and 🗟 ilicene. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1742-1748	3	O
4	Ultra-thin structures of manganese fluorides: conversion from manganese dichalcogenides by fluorination. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10218-10224	3.6	O
3	A Brief History of Silicene. <i>Lecture Notes in Physics</i> , 2017 , 1-11	0.8	
2	Multilayer Silicene. <i>Lecture Notes in Physics</i> , 2017 , 53-61	0.8	
1	Analysis of Fertility in Turkey: The Importance of Future Fertility Preferences. <i>Sosyoekonomi</i> ,223-234		