Chuong V Nguyen

List of Publications by Citations

154 papers	3,086 citations	31 h-index	47 g-index
160 ext. papers	4,013 ext. citations	3.3 avg, IF	6.1 L-index

#	Paper	IF	Citations
154	Template-Based Growth of Various Oxide Nanorods by Sol–Gel Electrophoresis. *Advanced Functional Materials*, **2002**, 12, 59	15.6	199
153	Electrophoretic Growth of Lead Zirconate Titanate Nanorods. *Advanced Materials*, **2001**, 13, 1269	24	142
152	Layered graphene/GaS van der Waals heterostructure: Controlling the electronic properties and Schottky barrier by vertical strain. *Applied Physics Letters*, **2018**, 113, 171605	3.4	141
151	Rashba spin splitting and photocatalytic properties of GeCMSSe (M=Mo, W) van der Waals heterostructures. *Physical Review B*, **2019**, 100,	3.3	92
150	Optoelectronic and solar cell applications of Janus monolayers and their van der Waals heterostructures. *Physical Chemistry Chemical Physics*, **2019**, 21, 18612-18621	3.6	77
149	Interlayer coupling and electric field tunable electronic properties and Schottky barrier in a graphene/bilayer-GaSe van der Waals heterostructure. *Physical Chemistry Chemical Physics*, **2018**, 20, 17899-17908	3.6	76
148	Magneto-optical transport properties of monolayer MoS2 on polar substrates. *Physical Review B*, **2017**, 96,	3.3	61
147	Electronic structure, optical and photocatalytic performance of SiC-MX (M = Mo, W and X = S, Se) van der Waals heterostructures. *Physical Chemistry Chemical Physics*, **2018**, 20, 24168-24175	3.6	60
146	Interfacial characteristics, Schottky contact, and optical performance of a graphene/Ga2SSe van der Waals heterostructure: Strain engineering and electric field tunability. *Physical Review B*, **2020**, 102,	3.3	55
145	Structural and electronic properties of a van der Waals heterostructure based on silicene and gallium selenide: effect of strain and electric field. *Physical Chemistry Chemical Physics*, **2018**, 20, 27856-27864	3.6	54
144	Electronic and photocatalytic performance of boron phosphide-blue phosphorene vdW heterostructures. *Applied Surface Science*, **2020**, 523, 146483	6.7	47
143	Van der Waals heterostructures of P, BSe, and SiC monolayers. *Journal of Applied Physics*, **2019**, 125, 094301	2.5	45
142	First-principles investigation of nonmetal doped single-layer BiOBr as a potential photocatalyst with a low recombination rate. *Physical Chemistry Chemical Physics*, **2020**, 22, 15354-15364	3.6	45
141	Interlayer coupling and electric field controllable Schottky barriers and contact types in graphene/PbI2 heterostructures. *Physical Review B*, **2020**, 101,	3.3	45
140	Van der Waals graphene/g-GaSe heterostructure: Tuning the electronic properties and Schottky barrier by interlayer coupling, biaxial strain, and electric gating. *Journal of Alloys and Compounds*, **2018**, 750, 765-773	5.7	45
139	Electronic and optical properties of Janus ZrSSe by density functional theory.. *RSC Advances*, **2019**, 9, 41058-41065	3.7	45
138	Graphene hetero-multilayer on layered platinum mineral jacutingaite (Pt2HgSe3): van der Waals heterostructures with novel optoelectronic and thermoelectric performances. *Journal of Materials Chemistry A*, **2020**, 8, 13248-13260	13	44

137	Magneto-optical transport properties of monolayer transition metal dichalcogenides. *Physical Review B*, **2020**, 101,	3.3	44
136	First-principles study of the structural and electronic properties of graphene/MoS2 interfaces. *Journal of Applied Physics*, **2017**, 122, 104301	2.5	43
135	Tuning the Electronic Properties, Effective Mass and Carrier Mobility of MoS2 Monolayer by Strain Engineering: First-Principle Calculations. *Journal of Electronic Materials*, **2018**, 47, 730-736	1.9	42
134	A type-II GaSe/HfS2 van der Waals heterostructure as promising photocatalyst with high carrier mobility. *Applied Surface Science*, **2020**, 534, 147607	6.7	40
133	Organic-inorganic sol-gel coating for corrosion protection of stainless steel. *Journal of Materials Science Letters*, **2002**, 21, 251-255		39
132	Janus monolayer PtSSe under external electric field and strain: A first principles study on electronic structure and optical properties. *Superlattices and Microstructures*, **2020**, 147, 106683	2.8	39
131	Theoretical prediction of electronic, transport, optical, and thermoelectric properties of Janus monolayers In2XO (X=S,Se,Te). *Physical Review B*, **2021**, 103,	3.3	39
130	Effective Photocatalytic Activity of Mixed Ni/Fe-Base Metal-Organic Framework under a Compact Fluorescent Daylight Lamp. *Catalysts*, **2018**, 8, 487	4	39
129	Band alignment and optical features in Janus-MoSeTe/X(OH) (X = Ca, Mg) van der Waals heterostructures. *Physical Chemistry Chemical Physics*, **2019**, 21, 25849-25858	3.6	36
128	Linear and nonlinear magneto-optical properties of monolayer phosphorene. *Journal of Applied Physics*, **2017**, 121, 045107	2.5	33
127	Electronic and optical properties of a Janus SnSSe monolayer: effects of strain and electric field. *Physical Chemistry Chemical Physics*, **2020**, 22, 11637-11643	3.6	33
126	Effect of biaxial strain and external electric field on electronic properties of MoS 2 monolayer: A first-principle study. *Chemical Physics*, **2016**, 468, 9-14	2.3	33
125	Tuning the electronic properties and Schottky barrier height of the vertical graphene/MoS2 heterostructure by an electric gating. *Superlattices and Microstructures*, **2018**, 116, 79-87	2.8	32
124	Tailoring the structural and electronic properties of an SnSe/MoS van der Waals heterostructure with an electric field and the insertion of a graphene sheet. *Physical Chemistry Chemical Physics*, **2019**, 21, 22140-22148	3.6	32
123	Electric-field tunable electronic properties and Schottky contact of graphene/phosphorene heterostructure. *Vacuum*, **2018**, 149, 231-237	3.7	31
122	First principle study on the electronic properties and Schottky contact of graphene adsorbed on MoS2 monolayer under applied out-plane strain. *Surface Science*, **2018**, 668, 23-28	1.8	31
121	Vertical strain and electric field tunable electronic properties of type-II band alignment C2N/InSe van der Waals heterostructure. *Chemical Physics Letters*, **2019**, 716, 155-161	2.5	30
120	Electric field and substrate-induced modulation of spin-polarized transport in graphene nanoribbons on A3B5 semiconductors. *Journal of Applied Physics*, **2015**, 117, 174309	2.5	28

119	Magneto-optical effect in GaAs/GaAlAs semi-parabolic quantum well. *Thin Solid Films*, **2019**, 682, 10-17	2.2	26
118	Magneto-optical properties of semi-parabolic plus semi-inverse squared quantum wells. *Physica B: Condensed Matter*, **2018**, 539, 117-122	2.8	26
117	Electronic properties and enhanced photocatalytic performance of van der Waals heterostructures of ZnO and Janus transition metal dichalcogenides. *Physical Chemistry Chemical Physics*, **2020**, 22, 10351-10359	3.6	26
116	Effect of electric field on the electronic and magnetic properties of a graphene nanoribbon/aluminium nitride bilayer system. *RSC Advances*, **2015**, 5, 49308-49316	3.7	25
115	Modulating the electro-optical properties of doped C3N monolayers and graphene bilayers via mechanical strain and pressure. *New Journal of Chemistry*, **2020**, 44, 15785-15792	3.6	24
114	First principles study of optical properties of molybdenum disulfide: From bulk to monolayer. *Superlattices and Microstructures*, **2018**, 115, 10-18	2.8	23
113	Investigation of strain and doping on the electronic properties of single layers of CN and CN: a first principles study.. *RSC Advances*, **2020**, 10, 27743-27751	3.7	23
112	Out-of-plane strain and electric field tunable electronic properties and Schottky contact of graphene/antimonene heterostructure. *Superlattices and Microstructures*, **2017**, 112, 554-560	2.8	22
111	Two-dimensional silicon bismotide (SiBi) monolayer with a honeycomb-like lattice: first-principles study of tuning the electronic properties.. *RSC Advances*, **2020**, 10, 31894-31900	3.7	21
110	Two-Dimensional Boron Phosphide/MoGeN van der Waals Heterostructure: A Promising Tunable Optoelectronic Material. *Journal of Physical Chemistry Letters*, **2021**, 12, 5076-5084	6.4	21
109	First principles study on the electronic properties and Schottky barrier of Graphene/InSe heterostructure. *Superlattices and Microstructures*, **2018**, 122, 570-576	2.8	21
108	Electric field tunable electronic properties of P-ZnO and SiC-ZnO van der Waals heterostructures. *Computational Materials Science*, **2019**, 164, 166-170	3.2	20
107	LO-phonon-assisted cyclotron resonance in a special asymmetric hyperbolic-type quantum well. *Superlattices and Microstructures*, **2018**, 120, 738-746	2.8	20
106	The mechanical, electronic, optical and thermoelectric properties of two-dimensional honeycomb-like of XSb (X = Si, Ge, Sn) monolayers: a first-principles calculations.. *RSC Advances*, **2020**, 10, 30398-30405	3.7	20
105	Ab initio prediction of semiconductivity in a novel two-dimensional SbX (X= S, Se, Te) monolayers with orthorhombic structure. *Scientific Reports*, **2021**, 11, 10366	4.9	20
104	A van der Waals heterostructure of MoS2/MoSi2N4: a first-principles study. *New Journal of Chemistry*, **2021**, 45, 8291-8296	3.6	20
103	Theoretical investigation of electronic structure and thermoelectric properties of MX2 (M=Zr, Hf; X=S, Se) van der Waals heterostructures. *Journal of Physics and Chemistry of Solids*, **2019**, 126, 304-309	3.9	19
102	Controlling electronic properties of PtS2/InSe van der Waals heterostructure via external electric field and vertical strain. *Chemical Physics Letters*, **2019**, 724, 1-7	2.5	18

101	Dispersion-Corrected Density Functional Theory Investigations of Structural and Electronic Properties of Bulk MoS2: Effect of Uniaxial Strain. *Nanoscale Research Letters*, **2015**, 10, 433	5	18
100	Magneto-optical absorption in silicene and germanene induced by electric and Zeeman fields. *Physical Review B*, **2020**, 101,	3.3	17
99	Ab-initio study of electronic and optical properties of biaxially deformed single-layer GeS. *Superlattices and Microstructures*, **2018**, 120, 501-507	2.8	17
98	Interfacial Electronic Properties and Tunable Contact Types in Graphene/Janus MoGeSiN Heterostructures. *Journal of Physical Chemistry Letters*, **2021**, 12, 3934-3940	6.4	17
97	Linear and nonlinear magneto-optical properties of monolayer MoS2. *Journal of Applied Physics*, **2018**, 123, 034301	2.5	16
96	Effect of strains on electronic and optical properties of monolayer SnS: Ab-initio study. *Physica B: Condensed Matter*, **2018**, 545, 255-261	2.8	16
95	Effects of different surface functionalization on the electronic properties and contact types of graphene/functionalized-GeC van der Waals heterostructures. *Physical Chemistry Chemical Physics*, **2020**, 22, 7952-7961	3.6	15
94	First principles study of the electronic properties and band gap modulation of two-dimensional phosphorene monolayer: Effect of strain engineering. *Superlattices and Microstructures*, **2018**, 118, 289-297	2.8	15
93	Point Defects in a Two-Dimensional ZnSnN2 Nanosheet: A First-Principles Study on the Electronic and Magnetic Properties. *Journal of Physical Chemistry C*, **2021**, 125, 13067-13075	3.8	15
92	Strain and electric field tunable electronic properties of type-II band alignment in van der Waals GaSe/MoSe2 heterostructure. *Chemical Physics*, **2019**, 521, 92-99	2.3	15
91	Electronic properties and optical behaviors of bulk and monolayer ZrS2: A theoretical investigation. *Superlattices and Microstructures*, **2019**, 125, 205-213	2.8	15
90	Pyramidal core-shell quantum dot under applied electric and magnetic fields. *Scientific Reports*, **2020**, 10, 8961	4.9	14
89	Tunable electronic properties of the dynamically stable layered mineral PtHgSe (Jacutingaite). *Physical Chemistry Chemical Physics*, **2020**, 22, 24471-24479	3.6	14
88	Vertical two-dimensional layered conjugated porous organic network structures of poly-benzimidazobenzophenanthroline (BBL): A first-principles study. *Applied Physics Letters*, **2020**, 117, 233101	3.4	14
87	Oxygen Vacancies in the Single Layer of Ti2CO2 MXene: Effects of Gating Voltage, Mechanical Strain, and Atomic Impurities. *Physica Status Solidi (B): Basic Research*, **2020**, 257, 2000343	1.3	14
86	Modulation of electronic properties of monolayer InSe through strain and external electric field. *Chemical Physics*, **2019**, 516, 213-217	2.3	14
85	Investigation of cyclotron-phonon resonance in monolayer molybdenum disulfide. *Journal of Physics and Chemistry of Solids*, **2019**, 125, 74-79	3.9	14
84	Strain effects on the electronic and optical properties of Van der Waals heterostructure MoS2/WS2: A first-principles study. *Physica E: Low-Dimensional Systems and Nanostructures*, **2020**, 116, 113799	3	14

83	Tailoring electronic properties and Schottky barrier in sandwich heterostructure based on graphene and tungsten diselenide. *Diamond and Related Materials*, **2019**, 94, 129-136	3.5	13
82	Computational prediction of electronic and optical properties of Janus Ga2SeTe monolayer. *Journal Physics D: Applied Physics*, **2020**, 53, 455302	3	13
81	Electric gating and interlayer coupling controllable electronic structure and Schottky contact of graphene/BiI3 van der Waals heterostructure. *Physical Review B*, **2021**, 103,	3.3	13
80	Band Gap Modulation of Bilayer MoS2 Under Strain Engineering and Electric Field: A Density Functional Theory. *Journal of Electronic Materials*, **2016**, 45, 4038-4043	1.9	13
79	Phonon-assisted cyclotron resonance in P□schl-Teller quantum well. *Journal of Applied Physics*, **2019**, 126, 124301	2.5	12
78	Modulation of the band structure in bilayer zigzag graphene nanoribbons on hexagonal boron nitride using the force and electric fields. *Materials Chemistry and Physics*, **2015**, 154, 78-83	4.4	12
77	The characteristics of defective ZrS2 monolayers adsorbed various gases on S-vacancies: A first-principles study. *Superlattices and Microstructures*, **2020**, 140, 106454	2.8	12
76	First principles calculations of the geometric structures and electronic properties of van der Waals heterostructure based on graphene, hexagonal boron nitride and molybdenum diselenide. *Diamond and Related Materials*, **2018**, 88, 151-157	3.5	12
75	Two-dimensional van der Waals graphene/transition metal nitride heterostructures as promising high-performance nanodevices. *New Journal of Chemistry*, **2021**, 45, 5509-5516	3.6	12
74	Oxygenation of Janus group III monochalcogenides: First-principles insights into GaInXO (X=S, Se, Te) monolayers. *Physical Review B*, **2021**, 104,	3.3	12
73	One- and two-photon-induced cyclotron□phonon resonance in modified-P□schl□□eller quantum well. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1	2.6	11
72	Electronic structure, optoelectronic properties and enhanced photocatalytic response of GaN-GeC van der Waals heterostructures: a first principles study.. *RSC Advances*, **2020**, 10, 24127-24133	3.7	11
71	Tuning the Electronic and Optical Properties of Two-Dimensional Graphene-like (hbox {C}_2hbox {N}) Nanosheet by Strain Engineering. *Journal of Electronic Materials*, **2018**, 47, 4594-4603	1.9	11
70	van der Waals heterostructures based on MSSe (M = Mo, W) and graphene-like GaN: enhanced optoelectronic and photocatalytic properties for water splitting. *Physical Chemistry Chemical Physics*, **2020**, 22, 20704-20711	3.6	11
69	First principles study of structural, electronic and magnetic properties of graphene adsorbed on the O-terminated MnO(111) surface. *Diamond and Related Materials*, **2017**, 74, 31-40	3.5	10
68	Tri-layered van der Waals heterostructures based on graphene, gallium selenide and molybdenum selenide. *Journal of Applied Physics*, **2019**, 125, 225304	2.5	10
67	Tuning the electronic properties of armchair graphene nanoribbons by strain engineering. *Physica Scripta*, **2015**, 90, 015802	2.6	10
66	First-principles prediction of chemically functionalized InN monolayers: electronic and optical properties.. *RSC Advances*, **2020**, 10, 10731-10739	3.7	10

65	Electronic properties of GaSe/MoS2 and GaS/MoSe2 heterojunctions from first principles calculations. *AIP Advances*, **2018**, 8, 075207	1.5	10
64	Band gap and electronic properties of molybdenum disulphide under strain engineering: density functional theory calculations. *Molecular Simulation*, **2017**, 43, 86-91	2	10
63	Effects of electric field and strain engineering on the electronic properties, band alignment and enhanced optical properties of ZnO/Janus ZrSSe heterostructures.. *RSC Advances*, **2020**, 10, 9824-9832	3.7	9
62	A first-principles study of electronic structure and photocatalytic performance of GaN-MX (M = Mo, W; X= S, Se) van der Waals heterostructures.. *RSC Advances*, **2020**, 10, 24683-24690	3.7	9
61	First-principles study of the structural and electronic properties of graphene absorbed on MnO(111) surfaces. *Computational and Theoretical Chemistry*, **2016**, 1098, 22-30	2	9
60	Tunable type-II band alignment and electronic structure of C3N4/MoSi2N4 heterostructure: Interlayer coupling and electric field. *Physical Review B*, **2022**, 105,	3.3	9
59	First principles study of structural, optoelectronic and photocatalytic properties of SnS, SnSe monolayers and their van der Waals heterostructure. *Chemical Physics*, **2020**, 539, 110939	2.3	9
58	Electronic, optical, and thermoelectric properties of Janus In-based monochalcogenides. *Journal of Physics Condensed Matter*, **2021**, 33,	1.8	9
57	Phonon-assisted cyclotron resonance in special symmetric quantum wells. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	9
56	Van der Waals heterostructures of SiC and Janus MSSe (M = Mo, W) monolayers: a first principles study.. *RSC Advances*, **2020**, 10, 25801-25807	3.7	8
55	Tuning the electronic, photocatalytic and optical properties of hydrogenated InN monolayer by biaxial strain and electric field. *Chemical Physics*, **2020**, 532, 110677	2.3	8
54	Strain-Tunable Electronic and Optical Properties of Monolayer Germanium Monosulfide: Ab-Initio Study. *Journal of Electronic Materials*, **2019**, 48, 2902-2909	1.9	8
53	Fundamental exciton transitions in SiO2/Si/SiO2 cylindrical core/shell quantum dot. *Journal of Applied Physics*, **2018**, 124, 144303	2.5	8
52	Electronic and optical properties of layered van der Waals heterostructure based on MS2 (M = Mo, W) monolayers. *Materials Research Express*, **2019**, 6, 065060	1.7	7
51	Electronic and optoelectronic properties of van der Waals heterostructure based on graphene-like GaN, blue phosphorene, SiC, and ZnO: A first principles study. *Journal of Applied Physics*, **2020**, 127, 245302	2.5	7
50	Stacking and electric field effects on the band alignment and electronic properties of the GeC/GaSe heterostructure. *Physica E: Low-Dimensional Systems and Nanostructures*, **2020**, 120, 114050	3	7
49	Computational insights into structural, electronic and optical characteristics of GeC/CN van der Waals heterostructures: effects of strain engineering and electric field.. *RSC Advances*, **2020**, 10, 2967-2974	3.7	7
48	Electronic and photocatalytic properties of two-dimensional boron phosphide/SiC van der Waals heterostructure with direct type-II band alignment: a first principles study.. *RSC Advances*, **2020**, 10, 32027-32033	3.7	7

47	Type-I band alignment of BX-ZnO (X = As, P) van der Waals heterostructures as high-efficiency water splitting photocatalysts: a first-principles study.. *RSC Advances*, **2020**, 10, 44545-44550	3.7	7
46	Understanding the electronic properties, contact types and optical performances in graphene/InN heterostructure: Role of electric gating. *Diamond and Related Materials*, **2020**, 106, 107851	3.5	7
45	Tuning the electronic properties of GaS monolayer by strain engineering and electric field. *Chemical Physics*, **2019**, 524, 101-105	2.3	6
44	Electronic, optical and photocatalytic properties of fully hydrogenated GeC monolayer. *Physica E: Low-Dimensional Systems and Nanostructures*, **2020**, 117, 113857	3	6
43	First-principles study of the electronic structures and optical and photocatalytic performances of van der Waals heterostructures of SiS, P and SiC monolayers.. *RSC Advances*, **2021**, 11, 14263-14268	3.7	6
42	First-principles study of W, N, and O adsorption on TiB2(0001) surface with disordered vacancies. *Superlattices and Microstructures*, **2018**, 123, 414-426	2.8	6
41	Electronic structures, and optical and photocatalytic properties of the BPBSe van der Waals heterostructures. *New Journal of Chemistry*, **2020**, 44, 14964-14969	3.6	5
40	Nonlinear magneto-optical absorption in a finite semi-parabolic quantum well. *Optical and Quantum Electronics*, **2021**, 53, 1	2.4	5
39	Two-Dimensional Metal/Semiconductor Contact in a Janus MoSH/MoSiN van der Waals Heterostructure.. *Journal of Physical Chemistry Letters*, **2022**, 2576-2582	6.4	5
38	Strain engineering and electric field tunable electronic properties of Ti2CO2 MXene monolayer. *Materials Research Express*, **2019**, 6, 065910	1.7	4
37	Substrate-induced band structure and electronic properties in graphene/Al2O3(0001) interface. *Surface Science*, **2015**, 632, 111-117	1.8	4
36	First-principles study of electronic properties of AB-stacked bilayer armchair graphene nanoribbons under out-plane strain. *Indian Journal of Physics*, **2018**, 92, 447-452	1.4	4
35	Strain engineering of the electro-optical and photocatalytic properties of single-layered Janus MoSSe: First principles calculations. *Optik*, **2020**, 224, 165503	2.5	4
34	Opening a band gap in graphene by CC bond alternation: a tight binding approach. *Materials Research Express*, **2019**, 6, 045605	1.7	4
33	Theoretical prediction of electronic and optical properties of haft-hydrogenated InN monolayers. *Superlattices and Microstructures*, **2020**, 142, 106519	2.8	4
32	Study of the Elastic Properties of the Energetic Molecular Crystals Using Density Functionals with van der Waals Corrections. *ACS Omega*, **2021**, 6, 642-648	3.9	4
31	Stacking effects in van der Waals heterostructures of blueP and Janus XYO (X = Ti, Zr, Hf: Y = S, Se) monolayers.. *RSC Advances*, **2021**, 11, 12189-12199	3.7	4
30	Simple single-emitting layer hybrid white organic light emitting with high color stability. *Journal of Applied Physics*, **2017**, 122, 134503	2.5	3

29	Adsorption and magnetism of bilayer graphene on the MnO polar surface with oxygen vacancies in the interface: First principles study. *Superlattices and Microstructures*, **2018**, 117, 72-81	2.8	3
28	Magneto-optical absorption in quantum dot via two-photon absorption process. *Optik*, **2018**, 173, 263-270	2.5	3
27	Strain and electric field engineering of electronic structures and Schottky contact of layered graphene/Ca(OH)2 heterostructure. *Superlattices and Microstructures*, **2019**, 133, 106185	2.8	3
26	Computational understanding of electronic properties of graphene/({mathrm{{PtS}}_2}) heterostructure under electric field. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1	2.6	3
25	Magneto-optical absorption in P□schl□teller-like quantum well. *Physica B: Condensed Matter*, **2020**, 592, 412279	2.8	3
24	Structural, elastic, and electronic properties of chemically functionalized boron phosphide monolayer.. *RSC Advances*, **2021**, 11, 8552-8558	3.7	3
23	Outstanding elastic, electronic, transport and optical properties of a novel layered material CF: first-principles study.. *RSC Advances*, **2021**, 11, 23280-23287	3.7	3
22	A theoretical study on elastic, electronic, transport, optical and thermoelectric properties of Janus SnSO monolayer. *Journal Physics D: Applied Physics*, **2021**, 54, 475306	3	3
21	Two-dimensional XY monolayers (X = Al, Ga, In; Y = N, P, As) with a double layer hexagonal structure: A first-principles perspective. *Applied Surface Science*, **2022**, 590, 152998	6.7	3
20	Phase Transition in Armchair Graphene Nanoribbon Due to Peierls Distortion. *Journal of Electronic Materials*, **2017**, 46, 3815-3819	1.9	2
19	Cyclotron□phonon resonance line-width in monolayer silicene. *Superlattices and Microstructures*, **2019**, 131, 117-123	2.8	2
18	Low-energy bands and optical properties of monolayer WS2. *Optik*, **2020**, 209, 164581	2.5	2
17	Electronic structure and optical performance of PbI2/SnSe2 heterostructure. *Chemical Physics*, **2020**, 533, 110736	2.3	2
16	Physicochemical properties of L- and DL-valine: first-principles calculations. *Amino Acids*, **2020**, 52, 425-433	3.5	2
15	First-principles study of metal-semiconductor contact between MX2 (M = Nb, Pt; X = S, Se) monolayers. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2019**, 383, 125867	2.3	2
14	Tunable electronic properties of InSe by biaxial strain: from bulk to single-layer. *Materials Research Express*, **2019**, 6, 115002	1.7	2
13	Transport properties of armchair graphene nanoribbons under uniaxial strain: A first principles study. *Solid State Communications*, **2016**, 237-238, 10-13	1.6	2
12	Anisotropy of effective masses induced by strain in Janus MoSSe and WSSe monolayers. *Physica E: Low-Dimensional Systems and Nanostructures*, **2021**, 134, 114826	3	2

11	Electric field tuning of dynamical dielectric function in phosphorene. *Chemical Physics Letters*, **2019**, 731, 136606	2.5	1
10	Effects of La and Ce doping on electronic structure and optical properties of janus MoSSe monolayer. *Superlattices and Microstructures*, **2021**, 151, 106841	2.8	1
9	Magneto-electronic perturbation effects on the electronic phase of phosphorene. *Materials Research Express*, **2019**, 6, 026102	1.7	1
8	First-principles insights onto structural, electronic and optical properties of Janus monolayers CrXO (X = S, Se, Te).. *RSC Advances*, **2021**, 11, 39672-39679	3.7	0
7	Modulation of electronic properties and Schottky barrier in the graphene/GaS heterostructure by electric gating. *Physica B: Condensed Matter*, **2019**, 555, 69-73	2.8	0
6	Intriguing interfacial characteristics of the CS contact with MX (M = Mo, W; X = S, Se, Te) and MXY ((X Y) = S, Se, Te) monolayers.. *RSC Advances*, **2022**, 12, 12292-12302	3.7	0
5	Theoretical prediction of Janus PdXO (X = S, Se, Te) monolayers: structural, electronic, and transport properties.. *RSC Advances*, **2022**, 12, 12971-12977	3.7	0
4	Two-photon induced magneto-optical absorption in finite semi-parabolic quantum wells. *Superlattices and Microstructures*, **2019**, 130, 446-453	2.8	
3	Stark and Zeeman effects on the topological phase and transport properties of topological crystalline insulator thin films. *Physical Chemistry Chemical Physics*, **2020**, 22, 12129-12139	3.6	
2	Nonlinear optical absorption and cyclotron impurity resonance in monolayer silicene. *Physica E: Low-Dimensional Systems and Nanostructures*, **2019**, 105, 168-173	3	
1	Monoelemental two-dimensional iodinene nanosheets: a first-principles study of the electronic and optical properties. *Journal Physics D: Applied Physics*, **2022**, 55, 135104	3	