Chuong V Nguyen

List of Publications by Year
in descending order

160 papers	4,974 citations	76326 40 h-index	128289 60 g-index
160 all docs	160 docs citations	160 times ranked	2729 citing authors

#	Article	IF	Citations
1	Template-Based Growth of Various Oxide Nanorods by Solâ€“Gel Electrophoresis. Advanced Functional Materials, 2002, 12, 59.	14.9	227
2	Layered graphene/GaS van der Waals heterostructure: Controlling the electronic properties and Schottky barrier by vertical strain. Applied Physics Letters, 2018, 113, .	3.3	171
3	Electrophoretic Growth of Lead Zirconate Titanate Nanorods. Advanced Materials, 2001, 13, 1269.	21.0	158
4	Rashba spin splitting and photocatalytic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>GeC</mml:mi><mml:mo>â^'</mml:mo><mml:mi>M</mml:mi><mml:m (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:r	3.2	104
5	Optoelectronic and solar cell applications of Janus monolayers and their van der Waals heterostructures. Physical Chemistry Chemical Physics, 2019, 21, 18612-18621.	2.8	141
6	Interfacial characteristics, Schottky contact, and optical performance of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>graphene</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mathvariant="normal">S</mml:mi><mml:mi>Se</mml:mi></mml:math> van der Waals heterostructure: Strain engineering and electric field tunability. Physical Review B, 2020, 102, .	3.2	100
7	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.	2.8	99
8	A type-II GaSe/HfS2 van der Waals heterostructure as promising photocatalyst with high carrier mobility. Applied Surface Science, 2020, 534, 147607.	6.1	97
9	Theoretical prediction of electronic, transport, optical, and thermoelectric properties of Janus monolayers <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>In</mml:mi><mml:mn>2</mml:mn></mml:m		

#	ARTICLE	IF	CITATIONS
19	Magneto-optical transport properties of monolayer transition metal dichalcogenides. Physical Review B, 2020, 101, .	3.2	69
20	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.	2.2	66
21	Effective Photocatalytic Activity of Mixed Ni/Fe-Base Metal-Organic Framework under a Compact Fluorescent Daylight Lamp. Catalysts, 2018, 8, 487.	3.5	66
22	A van der Waals heterostructure of MoS₂/MoSi₂N₄: a first-principles study. New Journal of Chemistry, 2021, 45, 8291-8296.	2.8	59
23	Magneto-optical effect in GaAs/GaAlAs semi-parabolic quantum well. Thin Solid Films, 2019, 682, 10-17.	1.8	58
24	First-principles study of the structural and electronic properties of graphene/MoS2 interfaces. Journal of Applied Physics, 2017, 122, .	2.5	57
25	Van der Waals heterostructures of P, BSe, and SiC monolayers. Journal of Applied Physics, 2019, 125, .	2.5	57
26	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.	10.3	57
27	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi>MoSi</mml:mi><mml:m mathvariant="normal">N</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>	3.2	56
28	Two-Dimensional Boron Phosphide/MoGe₂N₄ van der Waals Heterostructure: A Promising Tunable Optoelectronic Material. Journal of Physical Chemistry Letters, 2021, 12, 5076-5084.	4.6	54
29	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.	2.8	53
30	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.	6.1	53
31	Interfacial Electronic Properties and Tunable Contact Types in Graphene/Janus MoGeSiN₄ Heterostructures. Journal of Physical Chemistry Letters, 2021, 12, 3934-3940.	4.6	52
32	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.	5.5	51
33	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.	1.9	49
34	Tailoring the structural and electronic properties of an SnSe₂/MoS₂ van der Waals heterostructure with an electric field and the insertion of a graphene sheet. Physical Chemistry Chemical Physics, 2019, 21, 22140-22148.	2.8	48
35	Linear and nonlinear magneto-optical properties of monolayer phosphorene. Journal of Applied Physics, 2017, 121, .	2.5	47
36	Organic-inorganic sol-gel coating for corrosion protection of stainless steel. Journal of Materials Science Letters, 2002, 21, 251-255.	0.5	45

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37	Ab initio prediction of semiconductivity in a novel two-dimensional Sb2X3 (X= S, Se, Te) monolayers with orthorhombic structure. Scientific Reports, 2021, 11, 10366.	3.3	44
38	Electric gating and interlayer coupling controllable electronic structure and Schottky contact of graphene/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>BiI</mml:mi></mml:mrow><mml:mn>3</mml:mn> van der Waals heterostructure. Physical Review B, 2021, 103, .	3.2	43
39	Tuning the electronic properties and Schottky barrier height of the vertical graphene/MoS 2 heterostructure by an electric gating. Superlattices and Microstructures, 2018, 116, 79-87.	3.1	41
40	Band alignment and optical features in Janus-MoSeTe/X(OH)₂ (X = Ca, Mg) van der Waals heterostructures. Physical Chemistry Chemical Physics, 2019, 21, 25849-25858.	2.8	40
41	First principle study on the electronic properties and Schottky contact of graphene adsorbed on MoS 2 monolayer under applied out-plane strain. Surface Science, 2018, 668, 23-28.	1.9	39
42	Computational prediction of electronic and optical properties of Janus Ga₂SeTe monolayer. Journal Physics D: Applied Physics, 2020, 53, 455302.	2.8	39
43	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.	2.6	38
44	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.	2.8	37
45	Oxygen evolution reaction on monochalcogenides: First-principles insights into <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>GaIn</mml:mi><mml:mi>X</mml:mi><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:math> (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 422 Td (2021, 104, .	3.2	37
46	Electric-field tunable electronic properties and Schottky contact of graphene/phosphorene heterostructure. Vacuum, 2018, 149, 231-237.	3.5	36
47	Theoretical investigation of electronic structure and thermoelectric properties of MX2 (M=Zr, Hf;) Tj ETQq1 1 0.784314 rgBT /Overlo	4.0	36
48	Two-Dimensional Metal/Semiconductor Contact in a Janus MoSH/MoSi₂N₄ van der Waals Heterostructure. Journal of Physical Chemistry Letters, 2022, 13, 2576-2582.	4.6	36
49	First principles study of optical properties of molybdenum disulfide: From bulk to monolayer. Superlattices and Microstructures, 2018, 115, 10-18.	3.1	35
50	Investigation of strain and doping on the electronic properties of single layers of C₆N₆ and C₆N₈: a first principles study. RSC Advances, 2020, 10, 27743-27751.	3.6	35
51	Magneto-optical properties of semi-parabolic plus semi-inverse squared quantum wells. Physica B: Condensed Matter, 2018, 539, 117-122.	2.7	31
52	Electronic properties and optical behaviors of bulk and monolayer ZrS2: A theoretical investigation. Superlattices and Microstructures, 2019, 125, 205-213.	3.1	31
53	Electric field and substrateâ€“induced modulation of spin-polarized transport in graphene nanoribbons on A3B5 semiconductors. Journal of Applied Physics, 2015, 117, .	2.5	29
54	Linear and nonlinear magneto-optical properties of monolayer MoS2. Journal of Applied Physics, 2018, 123, .	2.5	29

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55	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.	1.5	29
56	Pyramidal core-shell quantum dot under applied electric and magnetic fields. Scientific Reports, 2020, 10, 8961.	3.3	29
57	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.	2.8	29
58	First principles study on the electronic properties and Schottky barrier of Graphene/InSe heterostructure. Superlattices and Microstructures, 2018, 122, 570-576.	3.1	28
59	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.	2.8	28
60	Electronic structure, optoelectronic properties and enhanced photocatalytic response of GaNâ€“GeC van der Waals heterostructures: a first principles study. RSC Advances, 2020, 10, 24127-24133.	3.6	28
61	Out-of-plane strain and electric field tunable electronic properties and Schottky contact of graphene/antimonene heterostructure. Superlattices and Microstructures, 2017, 112, 554-560.	3.1	27
62	Electric field tunable electronic properties of P-ZnO and SiC-ZnO van der Waals heterostructures. Computational Materials Science, 2019, 164, 166-170.	3.0	27
63	Controlling electronic properties of PtS2/InSe van der Waals heterostructure via external electric field and vertical strain. Chemical Physics Letters, 2019, 724, 1-7.	2.6	26
64	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.	2.7	26
65	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.	3.6	26
66	Two-dimensional van der Waals graphene/transition metal nitride heterostructures as promising high-performance nanodevices. New Journal of Chemistry, 2021, 45, 5509-5516.	2.8	26
67	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.	3.1	26
68	Effect of electric field on the electronic and magnetic properties of a graphene nanoribbon/aluminium nitride bilayer system. RSC Advances, 2015, 5, 49308-49316.	3.6	25
69	Ab-initio study of electronic and optical properties of biaxially deformed single-layer GeS. Superlattices and Microstructures, 2018, 120, 501-507.	3.1	25
70	Type-I band alignment of BXâ€“ZnO (X = As, P) van der Waals heterostructures as high-efficiency water splitting photocatalysts: a first-principles study. RSC Advances, 2020, 10, 44545-44550.	3.6	25
71	Magneto-optical absorption in silicene and germanene induced by electric and Zeeman fields. Physical Review B, 2020, 101, .	3.2	25
72	Electronic, optical, and thermoelectric properties of Janus In-based monochalcogenides. Journal of Physics Condensed Matter, 2021, 33, 225503.	1.8	24

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73	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.	3.6	23
74	Multiferroic van der Waals heterostructure <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeCl</mml:mi><mml:mn>2</mml:mn></mm : Nonvolatile electrically switchable electronic and spintronic properties. Physical Review B, 2022, 105, .	3.2	23
75	Dispersion-Corrected Density Functional Theory Investigations of Structural and Electronic Properties of Bulk MoS2: Effect of Uniaxial Strain. Nanoscale Research Letters, 2015, 10, 433.	5.7	22
76	LO-phonon-assisted cyclotron resonance in a special asymmetric hyperbolic-type quantum well. Superlattices and Microstructures, 2018, 120, 738-746.	3.1	22
77	Van der Waals heterostructures of SiC and Janus MSSe (M = Mo, W) monolayers: a first principles study. RSC Advances, 2020, 10, 25801-25807.	3.6	22
78	Effect of strains on electronic and optical properties of monolayer SnS: Ab-initio study. Physica B: Condensed Matter, 2018, 545, 255-261.	2.7	21
79	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.	1.9	21
80	Modulation of electronic properties of monolayer InSe through strain and external electric field. Chemical Physics, 2019, 516, 213-217.	1.9	21
81	A first-principles study of electronic structure and photocatalytic performance of GaNâ€“MX₂ (M = Mo, W; X= S, Se) van der Waals heterostructures. RSC Advances, 2020, 10, 24683-24690.	3.6	19
82	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, .	2.5	19
83	The characteristics of defective ZrS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1160" altimg="si64.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> monolayers adsorbed various gases on S-vacancies: A first-principles study. Superlattices and Microstructures, 2020, 140, 106454.	3.1	19
84	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.	3.1	18
85	Phonon-assisted cyclotron resonance in PÃ¶schl-Teller quantum well. Journal of Applied Physics, 2019, 126, .	2.5	18
86	Tailoring electronic properties and Schottky barrier in sandwich heterostructure based on graphene and tungsten diselenide. Diamond and Related Materials, 2019, 94, 129-136.	3.9	18
87	Tunable electronic properties of the dynamically stable layered mineral Pt2HgSe3 (Jacutingaite). Physical Chemistry Chemical Physics, 2020, 22, 24471-24479.	2.8	18
88	First principles study of structural, optoelectronic and photocatalytic properties of SnS, SnSe monolayers and their van der Waals heterostructure. Chemical Physics, 2020, 539, 110939.	1.9	18
89	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.	3.6	18
90	Structural, elastic, and electronic properties of chemically functionalized boron phosphide monolayer. RSC Advances, 2021, 11, 8552-8558.	3.6	18

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91	Rashba-type spin splitting and transport properties of novel Janus XWGeN₂ (X = O, S, Se,) Tj ETQq1 1 0.784314 rgBT /Over	2.8	18
92	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.	3.9	16
93	Electronic, optical and photocatalytic properties of fully hydrogenated GeC monolayer. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 117, 113857.	2.7	16
94	Vertical two-dimensional layered conjugated porous organic network structures of poly-benzimidazobenzophenanthroline (BBL): A first-principles study. Applied Physics Letters, 2020, 117, .	3.3	16
95	Nonlinear magneto-optical absorption in a finite semi-parabolic quantum well. Optical and Quantum Electronics, 2021, 53, 1.	3.3	16
96	Band Gap Modulation of Bilayer MoS2 Under Strain Engineering and Electric Field: A Density Functional Theory. Journal of Electronic Materials, 2016, 45, 4038-4043.	2.2	15
97	Band gap and electronic properties of molybdenum disulphide under strain engineering: density functional theory calculations. Molecular Simulation, 2017, 43, 86-91.	2.0	15
98	Tuning the Electronic and Optical Properties of Two-Dimensional Graphene-like $$hbox {C}_2hbox {N}$$ C 2 N Nanosheet by Strain Engineering. Journal of Electronic Materials, 2018, 47, 4594-4603.	2.2	15
99	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.	3.6	15
100	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.	2.7	15
101	Electronic properties of GaSe/MoS2 and GaS/MoSe2 heterojunctions from first principles calculations. AIP Advances, 2018, 8, 075207.	1.3	14
102	Strain-Tunable Electronic and Optical Properties of Monolayer Germanium Monosulfide: Ab-Initio Study. Journal of Electronic Materials, 2019, 48, 2902-2909.	2.2	14
103	Investigation of cyclotron-phonon resonance in monolayer molybdenum disulfide. Journal of Physics and Chemistry of Solids, 2019, 125, 74-79.	4.0	14
104	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.	3.6	14
105	Tri-layered van der Waals heterostructures based on graphene, gallium selenide and molybdenum selenide. Journal of Applied Physics, 2019, 125, .	2.5	13
106	Electronic and optical properties of layered van der Waals heterostructure based on MS₂ (M = Mo, W) monolayers. Materials Research Express, 2019, 6, 065060.	1.6	13
107	First-principles prediction of chemically functionalized InN monolayers: electronic and optical properties. RSC Advances, 2020, 10, 10731-10739.	3.6	13
108	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.	4.0	12

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109	Strain engineering and electric field tunable electronic properties of Ti₂CO₂ MXene monolayer. Materials Research Express, 2019, 6, 065910.	1.6	12
110	Computational insights into structural, electronic and optical characteristics of GeC/C₂N van der Waals heterostructures: effects of strain engineering and electric field. RSC Advances, 2020, 10, 2967-2974.	3.6	12
111	Understanding the electronic properties, contact types and optical performances in graphene/InN heterostructure: Role of electric gating. Diamond and Related Materials, 2020, 106, 107851.	3.9	12
112	First-principles study of the structural and electronic properties of graphene absorbed on MnO(111) surfaces. Computational and Theoretical Chemistry, 2016, 1098, 22-30.	2.5	11
113	One- and two-photon-induced cyclotronâ€“phonon resonance in modified-PÃ¶schlâ€“Teller quantum well. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	11
114	Electronic structures, and optical and photocatalytic properties of the BPâ€“BSe van der Waals heterostructures. New Journal of Chemistry, 2020, 44, 14964-14969.	2.8	11
115	Study of the Elastic Properties of the Energetic Molecular Crystals Using Density Functionals with van der Waals Corrections. ACS Omega, 2021, 6, 642-648.	3.5	11
116	Outstanding elastic, electronic, transport and optical properties of a novel layered material C₄F₂: first-principles study. RSC Advances, 2021, 11, 23280-23287.	3.6	11
117	Tuning the electronic properties of armchair graphene nanoribbons by strain engineering. Physica Scripta, 2015, 90, 015802.	2.5	10
118	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.	3.9	10
119	First-principles study of W, N, and O adsorption on TiB2(0001) surface with disordered vacancies. Superlattices and Microstructures, 2018, 123, 414-426.	3.1	10
120	Tuning the electronic properties of GaS monolayer by strain engineering and electric field. Chemical Physics, 2019, 524, 101-105.	1.9	10
121	Tuning the electronic, photocatalytic and optical properties of hydrogenated InN monolayer by biaxial strain and electric field. Chemical Physics, 2020, 532, 110677.	1.9	10
122	Fundamental exciton transitions in SiO2/Si/SiO2 cylindrical core/shell quantum dot. Journal of Applied Physics, 2018, 124, 144303.	2.5	9
123	Phonon-assisted cyclotron resonance in special symmetric quantum wells. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	9
124	First-principles study of metal-semiconductor contact between MX2 (Mâ€¯=â€¯Nb, Pt; Xâ€¯=â€¯S, Se) monolayers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 125867.	2.1	8
125	Strain engineering of the electro-optical and photocatalytic properties of single-layered Janus MoSSe: First principles calculations. Optik, 2020, 224, 165503.	2.9	8
126	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.	1.8	7

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127	Electronic structure and optical performance of PbI2/SnSe2 heterostructure. Chemical Physics, 2020, 533, 110736.	1.9	7
128	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.	3.6	7
129	A theoretical study on elastic, electronic, transport, optical and thermoelectric properties of Janus SnSO monolayer. Journal Physics D: Applied Physics, 2021, 54, 475306.	2.8	7
130	Anisotropy of effective masses induced by strain in Janus MoSSe and WSSe monolayers. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114826.	2.7	7
131	Substrate-induced band structure and electronic properties in graphene/Al2O3(0001) interface. Surface Science, 2015, 632, 111-117.	1.9	6
132	Tunable electronic properties of InSe by biaxial strain: from bulk to single-layer. Materials Research Express, 2019, 6, 115002.	1.6	6
133	Effects of La and Ce doping on electronic structure and optical properties of janus MoSSe monolayer. Superlattices and Microstructures, 2021, 151, 106841.	3.1	6
134	Computational understanding of electronic properties of graphene/$${mathrm{{PtS}}_2}$$ heterostructure under electric field. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	5
135	Opening a band gap in graphene by Câ€“C bond alternation: a tight binding approach. Materials Research Express, 2019, 6, 045605.	1.6	5
136	Physicochemical properties of l- and dl-valine: first-principles calculations. Amino Acids, 2020, 52, 425-433.	2.7	5
137	Theoretical prediction of electronic and optical properties of haft-hydrogenated InN monolayers. Superlattices and Microstructures, 2020, 142, 106519.	3.1	5
138	Structural, electronic, and transport properties of Janus GaInX ₂ (X = S, Se, Te) monolayers: first-principles study. Journal of Physics Condensed Matter, 2022, 34, 045501.	1.8	5
139	Monoelemental two-dimensional iodinene nanosheets: a first-principles study of the electronic and optical properties. Journal Physics D: Applied Physics, 2022, 55, 135104.	2.8	5
140	Low-energy bands and optical properties of monolayer WS2. Optik, 2020, 209, 164581.	2.9	4
141	Magneto-optical absorption in PÃ¶schlâ€“Teller-like quantum well. Physica B: Condensed Matter, 2020, 592, 412279.	2.7	4
142	First-principles insights onto structural, electronic and optical properties of Janus monolayers CrXO (X = S, Se, Te). RSC Advances, 2021, 11, 39672-39679.	3.6	4
143	Transport properties of armchair graphene nanoribbons under uniaxial strain: A first principles study. Solid State Communications, 2016, 237-238, 10-13.	1.9	3
144	Simple single-emitting layer hybrid white organic light emitting with high color stability. Journal of Applied Physics, 2017, 122, .	2.5	3

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145	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.	3.1	3
146	Magneto-optical absorption in quantum dot via two-photon absorption process. Optik, 2018, 173, 263-270.	2.9	3
147	Strain and electric field engineering of electronic structures and Schottky contact of layered graphene/Ca(OH)2 heterostructure. Superlattices and Microstructures, 2019, 133, 106185.	3.1	3
148	Modulation of electronic properties and Schottky barrier in the graphene/GaS heterostructure by electric gating. Physica B: Condensed Matter, 2019, 555, 69-73.	2.7	3
149	Phase Transition in Armchair Graphene Nanoribbon Due to Peierls Distortion. Journal of Electronic Materials, 2017, 46, 3815-3819.	2.2	2
150	Electric field tuning of dynamical dielectric function in phosphorene. Chemical Physics Letters, 2019, 731, 136606.	2.6	2
151	Cyclotronâ€“phonon resonance line-width in monolayer silicene. Superlattices and Microstructures, 2019, 131, 117-123.	3.1	2
152	Two-photon induced magneto-optical absorption in finite semi-parabolic quantum wells. Superlattices and Microstructures, 2019, 130, 446-453.	3.1	2
153	Multi-orbital tight binding model for the electronic and optical properties of armchair graphene nanoribbons in the presence of a periodic potential. Journal of Physics Condensed Matter, 2021, 33, 155702.	1.8	2
154	Theoretical prediction of Janus PdXO (X = S, Se, Te) monolayers: structural, electronic, and transport properties. RSC Advances, 2022, 12, 12971-12977.	3.6	2
155	Magneto-optical absorption properties of topological insulator thin films. Journal of Physics Condensed Matter, 2022, 34, 305702.	1.8	2
156	Magneto-optical properties of gapped-graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 144, 115415.	2.7	2
157	Magneto-electronic perturbation effects on the electronic phase of phosphorene. Materials Research Express, 2019, 6, 026102.	1.6	1
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