Nguyen N Hieu

List of Publications by Year
in descending order

225 papers	5,550 citations	70961 41 h-index	133063 59 g-index
226 all docs	226 docs citations	226 times ranked	2566 citing authors

#	Article	IF	Citations
1	Layered graphene/GaS van der Waals heterostructure: Controlling the electronic properties and Schottky barrier by vertical strain. Applied Physics Letters, 2018, 113, .	1.5	171
2	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 50 697 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:r	1.1	144
3	Graphene/WSeTe van der Waals heterostructure: Controllable electronic properties and Schottky barrier via interlayer coupling and electric field. Applied Surface Science, 2020, 507, 145036.	3.1	133
4	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, .	1.1	100
5	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, 7391–7396.	1.3	99
6	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:n		

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19	Effective Photocatalytic Activity of Mixed Ni/Fe-Base Metal-Organic Framework under a Compact Fluorescent Daylight Lamp. Catalysts, 2018, 8, 487.	1.6	66
20	Electronic properties of WS2 and WSe2 monolayers with biaxial strain: A first-principles study. Chemical Physics, 2019, 519, 69-73.	0.9	62
21	Strain-tunable electronic and optical properties of monolayer GeSe: Promising for photocatalytic water splitting applications. Chemical Physics, 2020, 529, 110543.	0.9	60
22	A van der Waals heterostructure of MoS₂/MoSi₂N₄: a first-principles study. New Journal of Chemistry, 2021, 45, 8291-8296.	1.4	59
23	Magneto-optical effect in GaAs/GaAlAs semi-parabolic quantum well. Thin Solid Films, 2019, 682, 10-17.	0.8	58
24	First-principles study of the structural and electronic properties of graphene/MoS2 interfaces. Journal of Applied Physics, 2017, 122, .	1.1	57
25	Van der Waals heterostructures of P, BSe, and SiC monolayers. Journal of Applied Physics, 2019, 125, .	1.1	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.	5.2	57
27	First principles study of the electronic properties and Schottky barrier in vertically stacked graphene on the Janus MoSeS under electric field. Computational Materials Science, 2018, 153, 438-444.	1.4	56
28	Tunable type-II band alignment and electronic structure of <mml:math 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:mi mathvariant="normal">N</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> heterostructure: Interlayer coupling and electric. Physical Review B, 2022, 105, .	1.1	56
29	Enhancement of monolayer SnSe light absorption by strain engineering: A DFT calculation. Chemical Physics, 2019, 521, 5-13.	0.9	54
30	Two-Dimensional Boron Phosphide/MoGe₂N₄ van der Waals Heterostructure: A Promising Tunable Optoelectronic Material. Journal of Physical Chemistry Letters, 2021, 12, 5076-5084.	2.1	54
31	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.	1.3	53
32	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.	3.1	53
33	Interfacial Electronic Properties and Tunable Contact Types in Graphene/Janus MoGeSiN₄ Heterostructures. Journal of Physical Chemistry Letters, 2021, 12, 3934-3940.	2.1	52
34	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.	2.8	51
35	Surface modification of titanium carbide MXene monolayers (Ti₂C and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 10 Chemical Physics, 2021, 23, 15319-15328.	1.3	51
36	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.	0.9	49

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37	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.	1.3	48
38	Synergy of physical properties of low-dimensional carbon-based systems for nanoscale device design. Materials Research Express, 2019, 6, 042002.	0.8	48
39	Linear and nonlinear magneto-optical properties of monolayer phosphorene. Journal of Applied Physics, 2017, 121, .	1.1	47
40	First principles study of single-layer SnSe2 under biaxial strain and electric field: Modulation of electronic properties. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 111, 201-205.	1.3	44
41	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</ van der Waals heterostructure. Physical Review B, 2021, 103, .	1.1	43
42	Prediction of two-dimensional bismuth-based chalcogenides Bi₂X₃(X = S, Se,) Tj ETQq0 0 0 rgBT /Overlock 10 Physics, 2021, 54, 395103.	1.3	42
43	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.	1.4	41
44	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.	1.3	40
45	Structural, electronic, and transport properties of quintuple atomic Janus monolayers <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ga</mml:mi><mml:mn>2</mml:mn></mml:msub><mml: mathvariant="normal">S</mml:mi><mml:msub><mml:mi>X</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 412 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mro	1.1	40
46	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.	0.8	39
47	Computational prediction of electronic and optical properties of Janus Ga₂SeTe monolayer. Journal Physics D: Applied Physics, 2020, 53, 455302.	1.3	39
48	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.	1.2	38
49	Hexagonal boron nitride (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq1 1 0.784314 rgBT /Overlock 10 material: A density functional theory (DFT) study. Surfaces and Interfaces, 2021, 24, 101043.	1.5	38
50	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.	1.3	37
51	Optical anisotropy in group-IV 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 50 182 Td (2021, 104, .	1.1	37
52	Electric-field tunable electronic properties and Schottky contact of graphene/phosphorene heterostructure. Vacuum, 2018, 149, 231-237.	1.6	36
53	Theoretical investigation of electronic structure and thermoelectric properties of MX2 (M=Zr, Hf;) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	36
54	A comprehensive investigation on electronic structure, optical and thermoelectric properties of the HfSSe Janus monolayer. Journal of Physics and Chemistry of Solids, 2020, 144, 109490.	1.9	36

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55	Two-Dimensional Metal/Semiconductor Contact in a Janus MoSH/MoSi₂N₄ van der Waals Heterostructure. Journal of Physical Chemistry Letters, 2022, 13, 2576-2582.	2.1	36
56	First principles study of optical properties of molybdenum disulfide: From bulk to monolayer. Superlattices and Microstructures, 2018, 115, 10-18.	1.4	35
57	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.	1.7	35
58	Nonlinear optical absorption in graphene via two-photon absorption process. Optics Communications, 2015, 344, 12-16.	1.0	32
59	Nonlinear optical absorption in parabolic quantum well via two-photon absorption process. Optics Communications, 2015, 335, 37-41.	1.0	32
60	Magneto-optical properties of semi-parabolic plus semi-inverse squared quantum wells. Physica B: Condensed Matter, 2018, 539, 117-122.	1.3	31
61	Electronic properties and optical behaviors of bulk and monolayer ZrS2: A theoretical investigation. Superlattices and Microstructures, 2019, 125, 205-213.	1.4	31
62	Electric field and substrateâ€“induced modulation of spin-polarized transport in graphene nanoribbons on A3B5 semiconductors. Journal of Applied Physics, 2015, 117, .	1.1	29
63	Linear and nonlinear magneto-optical properties of monolayer MoS2. Journal of Applied Physics, 2018, 123, .	1.1	29
64	Pyramidal core-shell quantum dot under applied electric and magnetic fields. Scientific Reports, 2020, 10, 8961.	1.6	29
65	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.	1.3	29
66	First principles study on the electronic properties and Schottky barrier of Graphene/InSe heterostructure. Superlattices and Microstructures, 2018, 122, 570-576.	1.4	28
67	Transition from indirect to direct band gap in SiC monolayer by chemical functionalization: A first principles study. Superlattices and Microstructures, 2020, 137, 106320.	1.4	28
68	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.	1.7	28
69	Exciton states in conical quantum dots under applied electric and magnetic fields. Optics and Laser Technology, 2021, 139, 106953.	2.2	28
70	Out-of-plane strain and electric field tunable electronic properties and Schottky contact of graphene/antimonene heterostructure. Superlattices and Microstructures, 2017, 112, 554-560.	1.4	27
71	Electric field tunable electronic properties of P-ZnO and SiC-ZnO van der Waals heterostructures. Computational Materials Science, 2019, 164, 166-170.	1.4	27
72	Induced magnetic states upon electronâ€“hole injection at B and N sites of hexagonal boron nitride bilayer: A <scp>density functional theory</scp> study. International Journal of Quantum Chemistry, 2021, 121, e26680.	1.0	27

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73	Linear and nonlinear magneto-optical absorption coefficients and refractive index changes in graphene. Optical Materials, 2017, 69, 328-332.	1.7	26
74	Controlling electronic properties of PtS2/InSe van der Waals heterostructure via external electric field and vertical strain. Chemical Physics Letters, 2019, 724, 1-7.	1.2	26
75	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.	1.3	26
76	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.	1.5	26
77	Effect of electric field on the electronic and magnetic properties of a graphene nanoribbon/aluminium nitride bilayer system. RSC Advances, 2015, 5, 49308-49316.	1.7	25
78	Ab-initio study of electronic and optical properties of biaxially deformed single-layer GeS. Superlattices and Microstructures, 2018, 120, 501-507.	1.4	25
79	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.	1.7	25
80	Magneto-optical absorption in silicene and germanene induced by electric and Zeeman fields. Physical Review B, 2020, 101, .	1.1	25
81	Uniaxially deformed (5,5) carbon nanotube: Structural transitions. Chemical Physics Letters, 2008, 464, 187-191.	1.2	24
82	Electronic, optical, and thermoelectric properties of Janus In-based monochalcogenides. Journal of Physics Condensed Matter, 2021, 33, 225503.	0.7	24
83	Band-gap engineering, magnetic behavior and Dirac-semimetal character in the MoSi₂N₄ nanoribbon with armchair and zigzag edges. Journal Physics D: Applied Physics, 2022, 55, 035301.	1.3	23
84	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, .	1.1	23
85	Dispersion-Corrected Density Functional Theory Investigations of Structural and Electronic Properties of Bulk MoS2: Effect of Uniaxial Strain. Nanoscale Research Letters, 2015, 10, 433.	3.1	22
86	LO-phonon-assisted cyclotron resonance in a special asymmetric hyperbolic-type quantum well. Superlattices and Microstructures, 2018, 120, 738-746.	1.4	22
87	Structural, electronic and optical properties of pristine and functionalized MgO monolayers: a first principles study. RSC Advances, 2020, 10, 40411-40420.	1.7	22
88	Effect of strains on electronic and optical properties of monolayer SnS: Ab-initio study. Physica B: Condensed Matter, 2018, 545, 255-261.	1.3	21
89	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.	0.9	21
90	Modulation of electronic properties of monolayer InSe through strain and external electric field. Chemical Physics, 2019, 516, 213-217.	0.9	21

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91	Structural phase transition and band gap of uniaxially deformed (6,0) carbon nanotube. Chemical Physics Letters, 2012, 545, 71-77.	1.2	20
92	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, .	1.1	19
93	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.	1.4	19
94	Puckered Penta-like PdPX (X = O, S, Te) Semiconducting Nanosheets: First-Principles Study of the Mechanical, Electro-Optical, and Photocatalytic Properties. ACS Applied Materials & Interfaces, 2022, 14, 21577-21584.	4.0	19
95	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.	1.4	18
96	Phonon-assisted cyclotron resonance in PÃ¶schl-Teller quantum well. Journal of Applied Physics, 2019, 126, .	1.1	18
97	Tailoring electronic properties and Schottky barrier in sandwich heterostructure based on graphene and tungsten diselenide. Diamond and Related Materials, 2019, 94, 129-136.	1.8	18
98	First principles study of structural, optoelectronic and photocatalytic properties of SnS, SnSe monolayers and their van der Waals heterostructure. Chemical Physics, 2020, 539, 110939.	0.9	18
99	Janus Ga2STe monolayer under strain and electric field: Theoretical prediction of electronic and optical properties. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114358.	1.3	18
100	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.	1.7	18
101	Structural, elastic, and electronic properties of chemically functionalized boron phosphide monolayer. RSC Advances, 2021, 11, 8552-8558.	1.7	18
102	Two-dimensional Dirac half-metal in porous carbon nitride C₆N₇ monolayer via atomic doping. Nanotechnology, 2022, 33, 075707.	1.3	18
103	Rashba-type spin splitting and transport properties of novel Janus XWGeN₂ (X = O, S, Se,) Tj ETQq1 1 0.784314 rgBT /Ov	1.3	18
104	Half-metallicity and magnetism in BAs monolayer induced by anchoring 3d transition metals (TM = V,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	17
105	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.	1.8	16
106	Refractive index changes and optical absorption involving 1sâ€“1p excitonic transitions in quantum dot under pressure and temperature effects. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	16
107	Structural and electronic properties of chemically functionalized SnC monolayer: a first principles study. Materials Research Express, 2020, 7, 015013.	0.8	16
108	Electronic, optical and photocatalytic properties of fully hydrogenated GeC monolayer. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 117, 113857.	1.3	16

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109	Modulation of electronic and optical properties of GaTe monolayer by biaxial strain and electric field. Superlattices and Microstructures, 2020, 140, 106435.	1.4	16
110	Nonlinear magneto-optical absorption in a finite semi-parabolic quantum well. Optical and Quantum Electronics, 2021, 53, 1.	1.5	16
111	Band Gap Modulation of Bilayer MoS2 Under Strain Engineering and Electric Field: A Density Functional Theory. Journal of Electronic Materials, 2016, 45, 4038-4043.	1.0	15
112	Linear and nonlinear magneto-optical absorption in parabolic quantum well. Optik, 2016, 127, 10519-10526.	1.4	15
113	Band gap and electronic properties of molybdenum disulphide under strain engineering: density functional theory calculations. Molecular Simulation, 2017, 43, 86-91.	0.9	15
114	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.	1.0	15
115	Electronic, Optical and Elastic Properties of Cu2CdGeSe4: A First-Principles Study. Journal of Electronic Materials, 2019, 48, 705-715.	1.0	15
116	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.	1.7	15
117	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.	1.3	15
118	Magnetically operated nanorelay based on two single-walled carbon nanotubes filled with endofullerenes Fe@C20. Journal of Nanophotonics, 2010, 4, 041675.	0.4	14
119	Electronic properties of GaSe/MoS2 and GaS/MoSe2 heterojunctions from first principles calculations. AIP Advances, 2018, 8, 075207.	0.6	14
120	Strain-induced electronic phase transition in phosphorene: A Greenâ€™s function study. Chemical Physics, 2019, 522, 249-255.	0.9	14
121	Strain-Tunable Electronic and Optical Properties of Monolayer Germanium Monosulfide: Ab-Initio Study. Journal of Electronic Materials, 2019, 48, 2902-2909.	1.0	14
122	Investigation of cyclotron-phonon resonance in monolayer molybdenum disulfide. Journal of Physics and Chemistry of Solids, 2019, 125, 74-79.	1.9	14
123	Biaxial strain and external electric field effects on the electronic structure of hydrogenated GaN monolayer. Superlattices and Microstructures, 2019, 136, 106270.	1.4	13
124	Tri-layered van der Waals heterostructures based on graphene, gallium selenide and molybdenum selenide. Journal of Applied Physics, 2019, 125, .	1.1	13
125	Electronic and optical properties of layered van der Waals heterostructure based on MS₂ (M = Mo, W) monolayers. Materials Research Express, 2019, 6, 065060.	0.8	13
126	Defect-Induced Gas-Sensing Properties of a Flexible SnS Sensor under UV Illumination at Room Temperature. Sensors, 2020, 20, 5701.	2.1	13

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127	First-principles prediction of chemically functionalized InN monolayers: electronic and optical properties. RSC Advances, 2020, 10, 10731-10739.	1.7	13
128	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.	2.0	12
129	Effect of oxygen adsorption on structural and electronic properties of defective surfaces (0 0 1), (1 1) Tj ETQq1 1 0.784314 rgBT /Ove	1.4	12
130	Strain engineering and electric field tunable electronic properties of Ti₂CO₂ MXene monolayer. Materials Research Express, 2019, 6, 065910.	0.8	12
131	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.	1.7	12
132	Understanding the electronic properties, contact types and optical performances in graphene/InN heterostructure: Role of electric gating. Diamond and Related Materials, 2020, 106, 107851.	1.8	12
133	First-principles study of the structural and electronic properties of graphene absorbed on MnO(111) surfaces. Computational and Theoretical Chemistry, 2016, 1098, 22-30.	1.1	11
134	First principles investigations of the influence of O-adsorption on the structural and electronic properties of TiC(111) surfaces with vacancies. Surface Science, 2016, 649, 20-26.	0.8	11
135	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.	1.1	11
136	Electronic structures, and optical and photocatalytic properties of the BPâ€“BSe van der Waals heterostructures. New Journal of Chemistry, 2020, 44, 14964-14969.	1.4	11
137	Study of the Elastic Properties of the Energetic Molecular Crystals Using Density Functionals with van der Waals Corrections. ACS Omega, 2021, 6, 642-648.	1.6	11
138	Outstanding elastic, electronic, transport and optical properties of a novel layered material C₄F₂: first-principles study. RSC Advances, 2021, 11, 23280-23287.	1.7	11
139	Tuning the electronic properties of armchair graphene nanoribbons by strain engineering. Physica Scripta, 2015, 90, 015802.	1.2	10
140	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.	1.8	10
141	First-principles study of W, N, and O adsorption on TiB2(0001) surface with disordered vacancies. Superlattices and Microstructures, 2018, 123, 414-426.	1.4	10
142	Tuning the electronic properties of GaS monolayer by strain engineering and electric field. Chemical Physics, 2019, 524, 101-105.	0.9	10
143	Schottky anomaly and NÃ©el temperature treatment of possible perturbed hydrogenated AA-stacked graphene, SiC, and h-BN bilayers. RSC Advances, 2019, 9, 41569-41580.	1.7	10
144	Tuning the electronic, photocatalytic and optical properties of hydrogenated InN monolayer by biaxial strain and electric field. Chemical Physics, 2020, 532, 110677.	0.9	10

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145	Low-energy bands, optical properties, and spin/valley-Hall conductivity of silicene and germanene. Journal of Materials Science, 2020, 55, 14848-14857.	1.7	10
146	Computational insights into structural, electronic, and optical properties of Janus GeSO monolayer. RSC Advances, 2021, 11, 28381-28387.	1.7	10
147	Electronic structure of vertically coupled quantum dot-ring heterostructures under applied electromagnetic probes. A finite-element approach. Scientific Reports, 2021, 11, 4015.	1.6	10
148	Theoretical insights into tunable electronic and optical properties of Janus Al2SSe monolayer through strain and electric field. Optik, 2021, 238, 166761.	1.4	10
149	Novel Janus GaInX₃ (X = S, Se, Te) single-layers: first-principles prediction on structural, electronic, and transport properties. RSC Advances, 2022, 12, 7973-7979.	1.7	10
150	Effect of Peierls transition in armchair carbon nanotube on dynamical behaviour of encapsulated fullerene. Nanoscale Research Letters, 2011, 6, 216.	3.1	9
151	Band structure of deformed armchair nanoribbon with bond alternation. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 60, 91-94.	1.3	9
152	Linear and nonlinear magneto-optical absorption in a triangular quantum well. International Journal of Modern Physics B, 2018, 32, 1850162.	1.0	9
153	Fundamental exciton transitions in SiO2/Si/SiO2 cylindrical core/shell quantum dot. Journal of Applied Physics, 2018, 124, 144303.	1.1	9
154	Phonon-assisted cyclotron resonance in special symmetric quantum wells. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	9
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