

Chuong V Nguyen

List of Publications by Year in descending order

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160
papers

4,974
citations

76196

40
h-index

128067

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. <i>Advanced Functional Materials</i> , 2002, 12, 59.	7.8	227
2	Layered graphene/GaS van der Waals heterostructure: Controlling the electronic properties and Schottky barrier by vertical strain. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	171
3	Electrophoretic Growth of Lead Zirconate Titanate Nanorods. <i>Advanced Materials</i> , 2001, 13, 1269.	11.1	158
4	Rashba spin splitting and photocatalytic properties of $\text{GeC}^{\text{â€“}}$ (M) $\text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617 Td}$		
5	Optoelectronic and solar cell applications of Janus monolayers and their van der Waals heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18612-18621.	1.3	141
6	Interfacial characteristics, Schottky contact, and optical performance of a $\text{graphene}^{\text{â€“}}$ $\text{S}^{\text{â€“}}$ $\text{Se}^{\text{â€“}}$ van der Waals heterostructure: Strain engineering and electric field tunability. <i>Physical Review B</i> , 2020, 102, .	1.1	100
7	Interlayer coupling and electric field tunable electronic properties and Schottky barrier in a graphene/bilayer-GaSe van der Waals heterostructure. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17899-17908.	1.3	99
8	A type-II GaSe/HfS2 van der Waals heterostructure as promising photocatalyst with high carrier mobility. <i>Applied Surface Science</i> , 2020, 534, 147607.	3.1	97
9	monolayers $\text{In}^{\text{â€“}}$ $2^{\text{â€“}}$		

#	ARTICLE	IF	CITATIONS
19	Magneto-optical transport properties of monolayer transition metal dichalcogenides. Physical Review B, 2020, 101, .	1.1	69
20	Tuning the Electronic Properties, Effective Mass and Carrier Mobility of MoS ₂ Monolayer by Strain Engineering: First-Principle Calculations. Journal of Electronic Materials, 2018, 47, 730-736.	1.0	66
21	Effective Photocatalytic Activity of Mixed Ni/Fe-Base Metal-Organic Framework under a Compact Fluorescent Daylight Lamp. Catalysts, 2018, 8, 487.	1.6	66
22	A van der Waals heterostructure of MoS ₂ /MoSi ₂ N ₄ : 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/MoS ₂ 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 (Pt ₂ HgSe ₃): van der Waals heterostructures with novel optoelectronic and thermoelectric performances. Journal of Materials Chemistry A, 2020, 8, 13248-13260.	5.2	57
27	Graphene hetero-multilayer on layered platinum mineral jacutingaite (Pt ₂ HgSe ₃): van der Waals heterostructures with novel optoelectronic and thermoelectric performances. Journal of Materials Chemistry A, 2020, 8, 13248-13260.	1.1	56
28	Two-Dimensional Boron Phosphide/MoGe ₂ N ₄ van der Waals Heterostructure: A Promising Tunable Optoelectronic Material. Journal of Physical Chemistry Letters, 2021, 12, 5076-5084.	2.1	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.	1.3	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.	3.1	53
31	Interfacial Electronic Properties and Tunable Contact Types in Graphene/Janus MoGeSiN ₄ Heterostructures. Journal of Physical Chemistry Letters, 2021, 12, 3934-3940.	2.1	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.	2.8	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.	0.9	49
34	Tailoring the structural and electronic properties of an SnSe ₂ /MoS ₂ 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
35	Linear and nonlinear magneto-optical properties of monolayer phosphorene. Journal of Applied Physics, 2017, 121, .	1.1	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 Sb ₂ X ₃ (X= S, Se, Te) monolayers with orthorhombic structure. Scientific Reports, 2021, 11, 10366.	1.6	44
38	Electric gating and interlayer coupling controllable electronic structure and Schottky contact of graphene/ $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{Bil} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:math} \rangle$ van der Waals heterostructure. Physical Review B, 2021, 103, .	1.1	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.	1.4	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.	1.3	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.	0.8	39
42	Computational prediction of electronic and optical properties of Janus Ga ₂ SeTe monolayer. Journal Physics D: Applied Physics, 2020, 53, 455302.	1.3	39
43	Vertical strain and electric field tunable electronic properties of type-II band alignment C ₂ N/InSe van der Waals heterostructure. Chemical Physics Letters, 2019, 716, 155-161.	1.2	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.	1.3	37
45	First principles insights into $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{GaIn} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \text{X} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \langle \text{mml:math} \rangle \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 422 Td (}$	1.1	37
46	Electric-field tunable electronic properties and Schottky contact of graphene/phosphorene heterostructure. Vacuum, 2018, 149, 231-237.	1.6	36
47	Theoretical investigation of electronic structure and thermoelectric properties of MX ₂ (M=Zr, Hf); Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 422 Td (}	1.9	36
48	Two-Dimensional Metal/Semiconductor Contact in a Janus MoSH/MoSi ₂ N ₄ van der Waals Heterostructure. Journal of Physical Chemistry Letters, 2022, 13, 2576-2582.	2.1	36
49	First principles study of optical properties of molybdenum disulfide: From bulk to monolayer. Superlattices and Microstructures, 2018, 115, 10-18.	1.4	35
50	Investigation of strain and doping on the electronic properties of single layers of C ₆ N ₆ and C ₆ N ₈ : a first principles study. RSC Advances, 2020, 10, 27743-27751.	1.7	35
51	Magneto-optical properties of semi-parabolic plus semi-inverse squared quantum wells. Physica B: Condensed Matter, 2018, 539, 117-122.	1.3	31
52	Electronic properties and optical behaviors of bulk and monolayer ZrS ₂ : A theoretical investigation. Superlattices and Microstructures, 2019, 125, 205-213.	1.4	31
53	Electric field and substrate- induced modulation of spin-polarized transport in graphene nanoribbons on A ₃ B ₅ semiconductors. Journal of Applied Physics, 2015, 117, .	1.1	29
54	Linear and nonlinear magneto-optical properties of monolayer MoS ₂ . Journal of Applied Physics, 2018, 123, .	1.1	29

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55	Oxygen Vacancies in the Single Layer of Ti_2CO_2 MXene: Effects of Gating Voltage, Mechanical Strain, and Atomic Impurities. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2000343.	0.7	29
56	Pyramidal core-shell quantum dot under applied electric and magnetic fields. <i>Scientific Reports</i> , 2020, 10, 8961.	1.6	29
57	Effects of different surface functionalization on the electronic properties and contact types of graphene/functionalized-GeC van der Waals heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7952-7961.	1.3	29
58	First principles study on the electronic properties and Schottky barrier of Graphene/InSe heterostructure. <i>Superlattices and Microstructures</i> , 2018, 122, 570-576.	1.4	28
59	Modulating the electro-optical properties of doped C_3N monolayers and graphene bilayers via mechanical strain and pressure. <i>New Journal of Chemistry</i> , 2020, 44, 15785-15792.	1.4	28
60	Electronic structure, optoelectronic properties and enhanced photocatalytic response of GaN/GeC van der Waals heterostructures: a first principles study. <i>RSC Advances</i> , 2020, 10, 24127-24133.	1.7	28
61	Out-of-plane strain and electric field tunable electronic properties and Schottky contact of graphene/antimonene heterostructure. <i>Superlattices and Microstructures</i> , 2017, 112, 554-560.	1.4	27
62	Electric field tunable electronic properties of P-ZnO and SiC-ZnO van der Waals heterostructures. <i>Computational Materials Science</i> , 2019, 164, 166-170.	1.4	27
63	Controlling electronic properties of PtS_2/InSe van der Waals heterostructure via external electric field and vertical strain. <i>Chemical Physics Letters</i> , 2019, 724, 1-7.	1.2	26
64	Strain effects on the electronic and optical properties of Van der Waals heterostructure MoS_2/WS_2 : A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 116, 113799.	1.3	26
65	The mechanical, electronic, optical and thermoelectric properties of two-dimensional honeycomb-like of XSb ($X = \text{Si}, \text{Ge}, \text{Sn}$) monolayers: a first-principles calculations. <i>RSC Advances</i> , 2020, 10, 30398-30405.	1.7	26
66	Two-dimensional van der Waals graphene/transition metal nitride heterostructures as promising high-performance nanodevices. <i>New Journal of Chemistry</i> , 2021, 45, 5509-5516.	1.4	26
67	Point Defects in a Two-Dimensional ZnSnN_2 Nanosheet: A First-Principles Study on the Electronic and Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13067-13075.	1.5	26
68	Effect of electric field on the electronic and magnetic properties of a graphene nanoribbon/aluminium nitride bilayer system. <i>RSC Advances</i> , 2015, 5, 49308-49316.	1.7	25
69	Ab-initio study of electronic and optical properties of biaxially deformed single-layer GeS. <i>Superlattices and Microstructures</i> , 2018, 120, 501-507.	1.4	25
70	Type-I band alignment of BX/ZnO ($X = \text{As}, \text{P}$) van der Waals heterostructures as high-efficiency water splitting photocatalysts: a first-principles study. <i>RSC Advances</i> , 2020, 10, 44545-44550.	1.7	25
71	Magneto-optical absorption in silicene and germanene induced by electric and Zeeman fields. <i>Physical Review B</i> , 2020, 101, .	1.1	25
72	Electronic, optical, and thermoelectric properties of Janus In-based monochalcogenides. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 225503.	0.7	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.	1.7	23
74	Multiferroic van der Waals heterostructure $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{FeCl} \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$: Nonvolatile electrically switchable electronic and spintronic properties. Physical Review B, 2022, 105, .	1.1	23
75	Dispersion-Corrected Density Functional Theory Investigations of Structural and Electronic Properties of Bulk MoS ₂ : Effect of Uniaxial Strain. Nanoscale Research Letters, 2015, 10, 433.	3.1	22
76	LO-phonon-assisted cyclotron resonance in a special asymmetric hyperbolic-type quantum well. Superlattices and Microstructures, 2018, 120, 738-746.	1.4	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.	1.7	22
78	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
79	Strain and electric field tunable electronic properties of type-II band alignment in van der Waals GaSe/MoSe ₂ heterostructure. Chemical Physics, 2019, 521, 92-99.	0.9	21
80	Modulation of electronic properties of monolayer InSe through strain and external electric field. Chemical Physics, 2019, 516, 213-217.	0.9	21
81	A first-principles study of electronic structure and photocatalytic performance of GaN ϵ "MX ₂ (M = Mo, W; X = S, Se) van der Waals heterostructures. RSC Advances, 2020, 10, 24683-24690.	1.7	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, .	1.1	19
83	The characteristics of defective ZrS ₂ monolayers adsorbed various gases on S-vacancies: A first-principles study. Superlattices and Microstructures, 2020, 140, 106454.	1.4	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.	1.4	18
85	Phonon-assisted cyclotron resonance in P ϵ "schl-Teller quantum well. Journal of Applied Physics, 2019, 126, .	1.1	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.	1.8	18
87	Tunable electronic properties of the dynamically stable layered mineral Pt ₂ HgSe ₃ (Jacutingaite). Physical Chemistry Chemical Physics, 2020, 22, 24471-24479.	1.3	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.	0.9	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.	1.7	18
90	Structural, elastic, and electronic properties of chemically functionalized boron phosphide monolayer. RSC Advances, 2021, 11, 8552-8558.	1.7	18

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91	Rashba-type spin splitting and transport properties of novel Janus $XWGeN_2$ ($X = O, S, Se$). <i>Tj ETQq1</i> 10,784314,rgBT /Oyer	1.3	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. <i>Diamond and Related Materials</i> , 2018, 88, 151-157.	1.8	16
93	Electronic, optical and photocatalytic properties of fully hydrogenated GeC monolayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 117, 113857.	1.3	16
94	Vertical two-dimensional layered conjugated porous organic network structures of poly-benzimidazobenzophenanthroline (BBL): A first-principles study. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	16
95	Nonlinear magneto-optical absorption in a finite semi-parabolic quantum well. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	16
96	Band Gap Modulation of Bilayer MoS ₂ Under Strain Engineering and Electric Field: A Density Functional Theory. <i>Journal of Electronic Materials</i> , 2016, 45, 4038-4043.	1.0	15
97	Band gap and electronic properties of molybdenum disulphide under strain engineering: density functional theory calculations. <i>Molecular Simulation</i> , 2017, 43, 86-91.	0.9	15
98	Tuning the Electronic and Optical Properties of Two-Dimensional Graphene-like C_2N Nanosheet by Strain Engineering. <i>Journal of Electronic Materials</i> , 2018, 47, 4594-4603.	1.0	15
99	Effects of electric field and strain engineering on the electronic properties, band alignment and enhanced optical properties of ZnO/Janus ZrSSe heterostructures. <i>RSC Advances</i> , 2020, 10, 9824-9832.	1.7	15
100	Stacking and electric field effects on the band alignment and electronic properties of the GeC/GaSe heterostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 120, 114050.	1.3	15
101	Electronic properties of GaSe/MoS ₂ and GaS/MoSe ₂ heterojunctions from first principles calculations. <i>AIP Advances</i> , 2018, 8, 075207.	0.6	14
102	Strain-Tunable Electronic and Optical Properties of Monolayer Germanium Monosulfide: Ab-Initio Study. <i>Journal of Electronic Materials</i> , 2019, 48, 2902-2909.	1.0	14
103	Investigation of cyclotron-phonon resonance in monolayer molybdenum disulfide. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 125, 74-79.	1.9	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. <i>RSC Advances</i> , 2021, 11, 14263-14268.	1.7	14
105	Tri-layered van der Waals heterostructures based on graphene, gallium selenide and molybdenum selenide. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	13
106	Electronic and optical properties of layered van der Waals heterostructure based on MS_2 ($M = Mo, W$) monolayers. <i>Materials Research Express</i> , 2019, 6, 065060.	0.8	13
107	First-principles prediction of chemically functionalized InN monolayers: electronic and optical properties. <i>RSC Advances</i> , 2020, 10, 10731-10739.	1.7	13
108	Modulation of the band structure in bilayer zigzag graphene nanoribbons on hexagonal boron nitride using the force and electric fields. <i>Materials Chemistry and Physics</i> , 2015, 154, 78-83.	2.0	12

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109	Strain engineering and electric field tunable electronic properties of Ti_2CO_2 MXene monolayer. <i>Materials Research Express</i> , 2019, 6, 065910.	0.8	12
110	Computational insights into structural, electronic and optical characteristics of GeC_2N van der Waals heterostructures: effects of strain engineering and electric field. <i>RSC Advances</i> , 2020, 10, 2967-2974.	1.7	12
111	Understanding the electronic properties, contact types and optical performances in graphene/InN heterostructure: Role of electric gating. <i>Diamond and Related Materials</i> , 2020, 106, 107851.	1.8	12
112	First-principles study of the structural and electronic properties of graphene adsorbed on $\text{MnO}(111)$ surfaces. <i>Computational and Theoretical Chemistry</i> , 2016, 1098, 22-30.	1.1	11
113	One- and two-photon-induced cyclotron phonon resonance in modified-Pöschl-Teller quantum well. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	11
114	Electronic structures, and optical and photocatalytic properties of the $\text{BP}\text{-BSe}$ van der Waals heterostructures. <i>New Journal of Chemistry</i> , 2020, 44, 14964-14969.	1.4	11
115	Study of the Elastic Properties of the Energetic Molecular Crystals Using Density Functionals with van der Waals Corrections. <i>ACS Omega</i> , 2021, 6, 642-648.	1.6	11
116	Outstanding elastic, electronic, transport and optical properties of a novel layered material C_4F_2 : first-principles study. <i>RSC Advances</i> , 2021, 11, 23280-23287.	1.7	11
117	Tuning the electronic properties of armchair graphene nanoribbons by strain engineering. <i>Physica Scripta</i> , 2015, 90, 015802.	1.2	10
118	First principles study of structural, electronic and magnetic properties of graphene adsorbed on the O-terminated $\text{MnO}(111)$ surface. <i>Diamond and Related Materials</i> , 2017, 74, 31-40.	1.8	10
119	First-principles study of W, N, and O adsorption on $\text{TiB}_2(0001)$ surface with disordered vacancies. <i>Superlattices and Microstructures</i> , 2018, 123, 414-426.	1.4	10
120	Tuning the electronic properties of GaS monolayer by strain engineering and electric field. <i>Chemical Physics</i> , 2019, 524, 101-105.	0.9	10
121	Tuning the electronic, photocatalytic and optical properties of hydrogenated InN monolayer by biaxial strain and electric field. <i>Chemical Physics</i> , 2020, 532, 110677.	0.9	10
122	Fundamental exciton transitions in $\text{SiO}_2/\text{Si}/\text{SiO}_2$ cylindrical core/shell quantum dot. <i>Journal of Applied Physics</i> , 2018, 124, 144303.	1.1	9
123	Phonon-assisted cyclotron resonance in special symmetric quantum wells. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	9
124	First-principles study of metal-semiconductor contact between MX_2 ($\text{M}=\text{Nb, Pt}$; $\text{X}=\text{S, Se}$) monolayers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 125867.	0.9	8
125	Strain engineering of the electro-optical and photocatalytic properties of single-layered Janus MoSSe : First principles calculations. <i>Optik</i> , 2020, 224, 165503.	1.4	8
126	First-principles study of electronic properties of AB-stacked bilayer armchair graphene nanoribbons under out-plane strain. <i>Indian Journal of Physics</i> , 2018, 92, 447-452.	0.9	7

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127	Electronic structure and optical performance of PbI ₂ /SnSe ₂ heterostructure. <i>Chemical Physics</i> , 2020, 533, 110736.	0.9	7
128	Stacking effects in van der Waals heterostructures of blueP and Janus XYO (X = Ti, Zr, Hf; Y = S, Se) monolayers. <i>RSC Advances</i> , 2021, 11, 12189-12199.	1.7	7
129	A theoretical study on elastic, electronic, transport, optical and thermoelectric properties of Janus SnSO monolayer. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 475306.	1.3	7
130	Anisotropy of effective masses induced by strain in Janus MoSSe and WSSe monolayers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114826.	1.3	7
131	Substrate-induced band structure and electronic properties in graphene/Al ₂ O ₃ (0001) interface. <i>Surface Science</i> , 2015, 632, 111-117.	0.8	6
132	Tunable electronic properties of InSe by biaxial strain: from bulk to single-layer. <i>Materials Research Express</i> , 2019, 6, 115002.	0.8	6
133	Effects of La and Ce doping on electronic structure and optical properties of janus MoSSe monolayer. <i>Superlattices and Microstructures</i> , 2021, 151, 106841.	1.4	6
134	Computational understanding of electronic properties of graphene/ PtS_2 heterostructure under electric field. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	5
135	Opening a band gap in graphene by C=C bond alternation: a tight binding approach. <i>Materials Research Express</i> , 2019, 6, 045605.	0.8	5
136	Physicochemical properties of l- and dl-valine: first-principles calculations. <i>Amino Acids</i> , 2020, 52, 425-433.	1.2	5
137	Theoretical prediction of electronic and optical properties of haft-hydrogenated InN monolayers. <i>Superlattices and Microstructures</i> , 2020, 142, 106519.	1.4	5
138	Structural, electronic, and transport properties of Janus GaInX ₂ (X = S, Se, Te) monolayers: first-principles study. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 045501.	0.7	5
139	Monoelemental two-dimensional iodine nanosheets: a first-principles study of the electronic and optical properties. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 135104.	1.3	5
140	Low-energy bands and optical properties of monolayer WS ₂ . <i>Optik</i> , 2020, 209, 164581.	1.4	4
141	Magneto-optical absorption in Pöschl-Teller-like quantum well. <i>Physica B: Condensed Matter</i> , 2020, 592, 412279.	1.3	4
142	First-principles insights onto structural, electronic and optical properties of Janus monolayers CrXO (X = S, Se, Te). <i>RSC Advances</i> , 2021, 11, 39672-39679.	1.7	4
143	Transport properties of armchair graphene nanoribbons under uniaxial strain: A first principles study. <i>Solid State Communications</i> , 2016, 237-238, 10-13.	0.9	3
144	Simple single-emitting layer hybrid white organic light emitting with high color stability. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	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. <i>Superlattices and Microstructures</i> , 2018, 117, 72-81.	1.4	3
146	Magneto-optical absorption in quantum dot via two-photon absorption process. <i>Optik</i> , 2018, 173, 263-270.	1.4	3
147	Strain and electric field engineering of electronic structures and Schottky contact of layered graphene/Ca(OH) ₂ heterostructure. <i>Superlattices and Microstructures</i> , 2019, 133, 106185.	1.4	3
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