

# Huynh Vinh Phuc

## List of Publications by Citations

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147  
papers

2,316  
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27  
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152  
ext. papers

2,964  
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
147	Layered graphene/GaS van der Waals heterostructure: Controlling the electronic properties and Schottky barrier by vertical strain. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 171605	3.4	141
146	Graphene/WSeTe van der Waals heterostructure: Controllable electronic properties and Schottky barrier via interlayer coupling and electric field. <i>Applied Surface Science</i> , <b>2020</b> , 507, 145036	6.7	92
145	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> , <b>2018</b> , 20, 17899-17908	3.6	76
144	Magneto-optical transport properties of monolayer MoS2 on polar substrates. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	61
143	Interfacial characteristics, Schottky contact, and optical performance of a graphene/Ga2SSe van der Waals heterostructure: Strain engineering and electric field tunability. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	55
142	Structural and electronic properties of a van der Waals heterostructure based on silicene and gallium selenide: effect of strain and electric field. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 27856-27864	3.6	54
141	Interlayer coupling and electric field controllable Schottky barriers and contact types in graphene/PbI2 heterostructures. <i>Physical Review B</i> , <b>2020</b> , 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. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 750, 765-773	5.7	45
139	First principles study of the electronic properties and Schottky barrier in vertically stacked graphene on the Janus MoSeS under electric field. <i>Computational Materials Science</i> , <b>2018</b> , 153, 438-444	3.2	45
138	Electronic and optical properties of Janus ZrSSe by density functional theory.. <i>RSC Advances</i> , <b>2019</b> , 9, 41058-41065	3.7	45
137	Magneto-optical transport properties of monolayer transition metal dichalcogenides. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	44
136	First-principles study of the structural and electronic properties of graphene/MoS2 interfaces. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 104301	2.5	43
135	Tuning the Electronic Properties, Effective Mass and Carrier Mobility of MoS2 Monolayer by Strain Engineering: First-Principle Calculations. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 730-736	1.9	42
134	Strain-tunable electronic and optical properties of monolayer GeSe: Promising for photocatalytic water splitting applications. <i>Chemical Physics</i> , <b>2020</b> , 529, 110543	2.3	41
133	Janus monolayer PtSSe under external electric field and strain: A first principles study on electronic structure and optical properties. <i>Superlattices and Microstructures</i> , <b>2020</b> , 147, 106683	2.8	39
132	Theoretical prediction of electronic, transport, optical, and thermoelectric properties of Janus monolayers In2XO (X=S,Se,Te). <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	39
131	Band alignment and optical features in Janus-MoSeTe/X(OH) (X = Ca, Mg) van der Waals heterostructures. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 25849-25858	3.6	36

130	Linear and nonlinear magneto-optical properties of monolayer phosphorene. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 045107	2.5	33
129	Electronic and optical properties of a Janus SnSSe monolayer: effects of strain and electric field. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 11637-11643	3.6	33
128	NONLINEAR ABSORPTION LINE-WIDTHS IN RECTANGULAR QUANTUM WIRES. <i>Modern Physics Letters B</i> , <b>2011</b> , 25, 1003-1011	1.6	33
127	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. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 22140-22148	3.6	32
126	First principles study of single-layer SnSe <sub>2</sub> under biaxial strain and electric field: Modulation of electronic properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2019</b> , 111, 201-205	3	31
125	Electric-field tunable electronic properties and Schottky contact of graphene/phosphorene heterostructure. <i>Vacuum</i> , <b>2018</b> , 149, 231-237	3.7	31
124	First principle study on the electronic properties and Schottky contact of graphene adsorbed on MoS <sub>2</sub> monolayer under applied out-plane strain. <i>Surface Science</i> , <b>2018</b> , 668, 23-28	1.8	31
123	Vertical strain and electric field tunable electronic properties of type-II band alignment C <sub>2</sub> N/InSe van der Waals heterostructure. <i>Chemical Physics Letters</i> , <b>2019</b> , 716, 155-161	2.5	30
122	Electronic properties of WS <sub>2</sub> and WSe <sub>2</sub> monolayers with biaxial strain: A first-principles study. <i>Chemical Physics</i> , <b>2019</b> , 519, 69-73	2.3	30
121	Nonlinear optical absorption in parabolic quantum well via two-photon absorption process. <i>Optics Communications</i> , <b>2015</b> , 335, 37-41	2	28
120	Linear and nonlinear phonon-assisted cyclotron resonances in parabolic quantum well under the applied electric field. <i>Superlattices and Microstructures</i> , <b>2014</b> , 71, 124-133	2.8	27
119	Magneto-optical effect in GaAs/GaAlAs semi-parabolic quantum well. <i>Thin Solid Films</i> , <b>2019</b> , 682, 10-17	2.2	26
118	Magneto-optical properties of semi-parabolic plus semi-inverse squared quantum wells. <i>Physica B: Condensed Matter</i> , <b>2018</b> , 539, 117-122	2.8	26
117	Nonlinear optical absorption in graphene via two-photon absorption process. <i>Optics Communications</i> , <b>2015</b> , 344, 12-16	2	26
116	Nonlinear optical absorption via two-photon process in GaAs/Ga <sub>1-x</sub> Al <sub>x</sub> As quantum well. <i>Journal of Physics and Chemistry of Solids</i> , <b>2015</b> , 82, 36-41	3.9	23
115	First principles study of optical properties of molybdenum disulfide: From bulk to monolayer. <i>Superlattices and Microstructures</i> , <b>2018</b> , 115, 10-18	2.8	23
114	Out-of-plane strain and electric field tunable electronic properties and Schottky contact of graphene/antimonene heterostructure. <i>Superlattices and Microstructures</i> , <b>2017</b> , 112, 554-560	2.8	22
113	Phonon-assisted cyclotron resonance in quantum wells via the multiphoton absorption process. <i>Superlattices and Microstructures</i> , <b>2013</b> , 59, 77-86	2.8	22

112	Surface optical phonon-assisted cyclotron resonance in graphene on polar substrates. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 163, 116-122	4.4	21
111	Two-Dimensional Boron Phosphide/MoGeN van der Waals Heterostructure: A Promising Tunable Optoelectronic Material. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 5076-5084	6.4	21
110	First principles study on the electronic properties and Schottky barrier of Graphene/InSe heterostructure. <i>Superlattices and Microstructures</i> , <b>2018</b> , 122, 570-576	2.8	21
109	LO-phonon-assisted cyclotron resonance in a special asymmetric hyperbolic-type quantum well. <i>Superlattices and Microstructures</i> , <b>2018</b> , 120, 738-746	2.8	20
108	Confined optical-phonon-assisted cyclotron resonance in quantum wells via two-photon absorption process. <i>Superlattices and Microstructures</i> , <b>2016</b> , 94, 51-59	2.8	20
107	Confined-acoustic-phonon-assisted cyclotron resonance via multi-photon absorption process in GaAs quantum well structure. <i>Journal of Physics and Chemistry of Solids</i> , <b>2014</b> , 75, 300-305	3.9	19
106	Influence of phonon confinement on the optically-detected electrophonon resonance line-width in cylindrical quantum wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2014</b> , 56, 102-106	3	18
105	Linear and nonlinear magneto-optical absorption coefficients and refractive index changes in graphene. <i>Optical Materials</i> , <b>2017</b> , 69, 328-332	3.3	17
104	Magneto-optical absorption in silicene and germanene induced by electric and Zeeman fields. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	17
103	Ab-initio study of electronic and optical properties of biaxially deformed single-layer GeS. <i>Superlattices and Microstructures</i> , <b>2018</b> , 120, 501-507	2.8	17
102	Linear and nonlinear magneto-optical properties of monolayer MoS <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 034301	2.5	16
101	Cyclotron-resonance line-width due to electron-LO-phonon interaction in cylindrical quantum wires. <i>Superlattices and Microstructures</i> , <b>2012</b> , 52, 16-23	2.8	16
100	Effect of strains on electronic and optical properties of monolayer SnS: Ab-initio study. <i>Physica B: Condensed Matter</i> , <b>2018</b> , 545, 255-261	2.8	16
99	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> , <b>2020</b> , 22, 7952-7961	3.6	15
98	First principles study of the electronic properties and band gap modulation of two-dimensional phosphorene monolayer: Effect of strain engineering. <i>Superlattices and Microstructures</i> , <b>2018</b> , 118, 289-297	2.8	15
97	Strain and electric field tunable electronic properties of type-II band alignment in van der Waals GaSe/MoSe <sub>2</sub> heterostructure. <i>Chemical Physics</i> , <b>2019</b> , 521, 92-99	2.3	15
96	Nonlinear optical absorption via two-photon process in asymmetrical Gaussian potential quantum wells. <i>Superlattices and Microstructures</i> , <b>2015</b> , 77, 267-275	2.8	14
95	Pyramidal core-shell quantum dot under applied electric and magnetic fields. <i>Scientific Reports</i> , <b>2020</b> , 10, 8961	4.9	14

94	Modulation of electronic properties of monolayer InSe through strain and external electric field. <i>Chemical Physics</i> , <b>2019</b> , 516, 213-217	2.3	14
93	Investigation of cyclotron-phonon resonance in monolayer molybdenum disulfide. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 125, 74-79	3.9	14
92	Strain effects on the electronic and optical properties of Van der Waals heterostructure MoS <sub>2</sub> /WS <sub>2</sub> : A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 116, 113799	3	14
91	Tailoring electronic properties and Schottky barrier in sandwich heterostructure based on graphene and tungsten diselenide. <i>Diamond and Related Materials</i> , <b>2019</b> , 94, 129-136	3.5	13
90	Computational prediction of electronic and optical properties of Janus Ga <sub>2</sub> SeTe monolayer. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 455302	3	13
89	Phonon-assisted cyclotron resonance in Pb <sub>1-x</sub> Sn <sub>x</sub> Te quantum well. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 124301	2.5	12
88	Nonlinear phonon-assisted cyclotron resonance via two-photon process in asymmetrical Gaussian potential quantum wells. <i>Superlattices and Microstructures</i> , <b>2015</b> , 86, 111-120	2.8	12
87	The characteristics of defective ZrS <sub>2</sub> monolayers adsorbed various gases on S-vacancies: A first-principles study. <i>Superlattices and Microstructures</i> , <b>2020</b> , 140, 106454	2.8	12
86	Oxygenation of Janus group III monochalcogenides: First-principles insights into GaInXO (X=S, Se, Te) monolayers. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	12
85	One- and two-photon-induced cyclotron-phonon resonance in modified-Pb <sub>1-x</sub> Sn <sub>x</sub> Te quantum well. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	11
84	Electronic structure, optoelectronic properties and enhanced photocatalytic response of GaN-GeC van der Waals heterostructures: a first principles study.. <i>RSC Advances</i> , <b>2020</b> , 10, 24127-24133	3.7	11
83	Electronic states and optical properties of single donor in GaN conical quantum dot with spherical edge. <i>Superlattices and Microstructures</i> , <b>2018</b> , 114, 214-224	2.8	11
82	Tuning the Electronic and Optical Properties of Two-Dimensional Graphene-like (hbox {C}_2hbox {N}) Nanosheet by Strain Engineering. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 4594-4603	1.9	11
81	Nonlinear optical absorption via two-photon process in asymmetrical semi-parabolic quantum wells. <i>Superlattices and Microstructures</i> , <b>2016</b> , 89, 288-295	2.8	11
80	Refractive index changes and optical absorption involving 1s <sub>1/2</sub> p excitonic transitions in quantum dot under pressure and temperature effects. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	11
79	Tri-layered van der Waals heterostructures based on graphene, gallium selenide and molybdenum selenide. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 225304	2.5	10
78	First-principles prediction of chemically functionalized InN monolayers: electronic and optical properties.. <i>RSC Advances</i> , <b>2020</b> , 10, 10731-10739	3.7	10
77	Linear and nonlinear magneto-optical absorption in parabolic quantum well. <i>Optik</i> , <b>2016</b> , 127, 10519-10526	2.6	10

76	Electronic properties of GaSe/MoS <sub>2</sub> and GaS/MoSe <sub>2</sub> heterojunctions from first principles calculations. <i>AIP Advances</i> , <b>2018</b> , 8, 075207	1.5	10
75	Surface functionalization of GeC monolayer with F and Cl: Electronic and optical properties. <i>Superlattices and Microstructures</i> , <b>2020</b> , 137, 106359	2.8	10
74	Nonlinear phonon-assisted cyclotron resonance via two-photon process in parabolic quantum well. <i>Superlattices and Microstructures</i> , <b>2015</b> , 83, 755-765	2.8	9
73	SA-phonon-assisted cyclotron resonance via two-photon process in graphene on GaAs substrate. <i>Superlattices and Microstructures</i> , <b>2015</b> , 88, 518-526	2.8	9
72	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> , <b>2020</b> , 10, 9824-9832	3.7	9
71	Influence of phonon confinement on the optically-detected electrophonon resonance linewidth in rectangular quantum wires. <i>Journal of the Korean Physical Society</i> , <b>2013</b> , 62, 305-310	0.6	9
70	First principles study of structural, optoelectronic and photocatalytic properties of SnS, SnSe monolayers and their van der Waals heterostructure. <i>Chemical Physics</i> , <b>2020</b> , 539, 110939	2.3	9
69	Janus Ga <sub>2</sub> STe monolayer under strain and electric field: Theoretical prediction of electronic and optical properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 124, 114358	3	9
68	Electronic, optical, and thermoelectric properties of Janus In-based monochalcogenides. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	9
67	Phonon-assisted cyclotron resonance in special symmetric quantum wells. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	9
66	Linear and nonlinear magneto-optical absorption in a quantum well modulated by intense laser field. <i>Superlattices and Microstructures</i> , <b>2016</b> , 100, 1112-1119	2.8	8
65	LO-phonon-assisted cyclotron resonance linewidth via multiphoton absorption process in cylindrical quantum wire. <i>Superlattices and Microstructures</i> , <b>2013</b> , 60, 508-515	2.8	8
64	Tuning the electronic, photocatalytic and optical properties of hydrogenated InN monolayer by biaxial strain and electric field. <i>Chemical Physics</i> , <b>2020</b> , 532, 110677	2.3	8
63	Strain-Tunable Electronic and Optical Properties of Monolayer Germanium Monosulfide: Ab-Initio Study. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 2902-2909	1.9	8
62	Fundamental exciton transitions in SiO <sub>2</sub> /Si/SiO <sub>2</sub> cylindrical core/shell quantum dot. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 144303	2.5	8
61	Excitonic nonlinear optical properties in AlN/GaN spherical core/shell quantum dots under pressure. <i>MRS Communications</i> , <b>2019</b> , 9, 663-669	2.7	7
60	Electronic and optical properties of layered van der Waals heterostructure based on MS <sub>2</sub> (M = Mo, W) monolayers. <i>Materials Research Express</i> , <b>2019</b> , 6, 065060	1.7	7
59	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> , <b>2020</b> , 120, 114050	3	7

58	Computational insights into structural, electronic and optical characteristics of GeC/CN van der Waals heterostructures: effects of strain engineering and electric field.. <i>RSC Advances</i> , <b>2020</b> , 10, 2967-2974	3.7	7
57	Optical Absorption in Periodic Graphene Superlattices: Perpendicular Applied Magnetic Field and Temperature Effects. <i>Annalen Der Physik</i> , <b>2018</b> , 530, 1700414	2.6	7
56	Electronic and photocatalytic properties of two-dimensional boron phosphide/SiC van der Waals heterostructure with direct type-II band alignment: a first principles study.. <i>RSC Advances</i> , <b>2020</b> , 10, 32027-32033	3.7	7
55	Type-I band alignment of BX-ZnO (X = As, P) van der Waals heterostructures as high-efficiency water splitting photocatalysts: a first-principles study.. <i>RSC Advances</i> , <b>2020</b> , 10, 44545-44550	3.7	7
54	Understanding the electronic properties, contact types and optical performances in graphene/InN heterostructure: Role of electric gating. <i>Diamond and Related Materials</i> , <b>2020</b> , 106, 107851	3.5	7
53	Tuning the electronic properties of GaS monolayer by strain engineering and electric field. <i>Chemical Physics</i> , <b>2019</b> , 524, 101-105	2.3	6
52	Linear and nonlinear magneto-optical absorption in a triangular quantum well. <i>International Journal of Modern Physics B</i> , <b>2018</b> , 32, 1850162	1.1	6
51	First-principles study of structure, electronic properties and stability of tungsten adsorption on TiC(111) surface with disordered vacancies. <i>Physica B: Condensed Matter</i> , <b>2017</b> , 526, 28-36	2.8	6
50	Structural, electronic, and transport properties of quintuple atomic Janus monolayers Ga <sub>2</sub> SX <sub>2</sub> (X= O, S, Se, Te): First-principles predictions. <i>Physical Review B</i> , <b>2022</b> , 105,	3.3	6
49	Electronic, optical and photocatalytic properties of fully hydrogenated GeC monolayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 117, 113857	3	6
48	Exciton states in conical quantum dots under applied electric and magnetic fields. <i>Optics and Laser Technology</i> , <b>2021</b> , 139, 106953	4.2	6
47	First-principles study of W, N, and O adsorption on TiB <sub>2</sub> (0001) surface with disordered vacancies. <i>Superlattices and Microstructures</i> , <b>2018</b> , 123, 414-426	2.8	6
46	Strain and electric field engineering of band alignment in InSe/Ca(OH) <sub>2</sub> heterostructure. <i>Chemical Physics Letters</i> , <b>2019</b> , 732, 136649	2.5	5
45	Calculation of the nonlinear absorption coefficient of a strong electromagnetic wave by confined electrons in quantum wires. <i>Computational Materials Science</i> , <b>2010</b> , 49, S260-S262	3.2	5
44	Electronic structures, and optical and photocatalytic properties of the BPBSe van der Waals heterostructures. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 14964-14969	3.6	5
43	Nonlinear magneto-optical absorption in a finite semi-parabolic quantum well. <i>Optical and Quantum Electronics</i> , <b>2021</b> , 53, 1	2.4	5
42	Oscillations of the electron energy loss rate in two-dimensional transition-metal dichalcogenides in the presence of a quantizing magnetic field. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	5
41	Schottky anomaly and Nñl temperature treatment of possible perturbed hydrogenated AA-stacked graphene, SiC, and h-BN bilayers.. <i>RSC Advances</i> , <b>2019</b> , 9, 41569-41580	3.7	5

40	Strain engineering and electric field tunable electronic properties of Ti <sub>2</sub> CO <sub>2</sub> MXene monolayer. <i>Materials Research Express</i> , <b>2019</b> , 6, 065910	1.7	4
39	First-principles study of electronic properties of AB-stacked bilayer armchair graphene nanoribbons under out-plane strain. <i>Indian Journal of Physics</i> , <b>2018</b> , 92, 447-452	1.4	4
38	Strain engineering of the electro-optical and photocatalytic properties of single-layered Janus MoSSe: First principles calculations. <i>Optik</i> , <b>2020</b> , 224, 165503	2.5	4
37	Low-energy bands, optical properties, and spin/valley-Hall conductivity of silicene and germanene. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 14848-14857	4.3	4
36	Opening a band gap in graphene by C-C bond alternation: a tight binding approach. <i>Materials Research Express</i> , <b>2019</b> , 6, 045605	1.7	4
35	Computational understanding of the band alignment engineering in PbI <sub>2</sub> /PtS <sub>2</sub> heterostructure: Effects of electric field and vertical strain. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 115, 113706	3	4
34	Theoretical prediction of electronic and optical properties of haft-hydrogenated InN monolayers. <i>Superlattices and Microstructures</i> , <b>2020</b> , 142, 106519	2.8	4
33	One- and two-photon-induced magneto-optical properties of hyperbolic-type quantum wells. <i>Optik</i> , <b>2019</b> , 185, 1261-1269	2.5	3
32	Magneto-optical absorption in quantum dot via two-photon absorption process. <i>Optik</i> , <b>2018</b> , 173, 263-270	2.5	3
31	Strain and electric field engineering of electronic structures and Schottky contact of layered graphene/Ca(OH) <sub>2</sub> heterostructure. <i>Superlattices and Microstructures</i> , <b>2019</b> , 133, 106185	2.8	3
30	Donor Impurity-Related Optical Absorption in GaAs Elliptic-Shaped Quantum Dots. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-18	3.2	3
29	Magneto-optical absorption in Pöschl-Teller-like quantum well. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 592, 412279	2.8	3
28	Power loss of hot Dirac fermions in silicene and its near equivalence with graphene. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 36, 025005	1.8	3
27	Structural, elastic, and electronic properties of chemically functionalized boron phosphide monolayer.. <i>RSC Advances</i> , <b>2021</b> , 11, 8552-8558	3.7	3
26	Outstanding elastic, electronic, transport and optical properties of a novel layered material CF: first-principles study.. <i>RSC Advances</i> , <b>2021</b> , 11, 23280-23287	3.7	3
25	Electronic structure of vertically coupled quantum dot-ring heterostructures under applied electromagnetic probes. A finite-element approach. <i>Scientific Reports</i> , <b>2021</b> , 11, 4015	4.9	3
24	A theoretical study on elastic, electronic, transport, optical and thermoelectric properties of Janus SnSO monolayer. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 475306	3	3
23	Cyclotron phonon resonance line-width in monolayer silicene. <i>Superlattices and Microstructures</i> , <b>2019</b> , 131, 117-123	2.8	2

22	Low-energy bands and optical properties of monolayer WS <sub>2</sub> . <i>Optik</i> , <b>2020</b> , 209, 164581	2.5	2
21	Electronic structure and optical performance of PbI <sub>2</sub> /SnSe <sub>2</sub> heterostructure. <i>Chemical Physics</i> , <b>2020</b> , 533, 110736	2.3	2
20	Tunable electronic properties of InSe by biaxial strain: from bulk to single-layer. <i>Materials Research Express</i> , <b>2019</b> , 6, 115002	1.7	2
19	Cyclotron resonance linewidth in GaAs/AlAs quantum wires. <i>Journal of the Korean Physical Society</i> , <b>2012</b> , 60, 1381-1385	0.6	2
18	Theoretical insights into tunable electronic and optical properties of Janus Al <sub>2</sub> SSe monolayer through strain and electric field. <i>Optik</i> , <b>2021</b> , 238, 166761	2.5	2
17	Anisotropy of effective masses induced by strain in Janus MoSSe and WSSe monolayers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2021</b> , 134, 114826	3	2
16	Theoretical investigation of hot electron cooling process in GaAs/AlAs cylindrical quantum wire under the influence of an intense electromagnetic wave. <i>Optical and Quantum Electronics</i> , <b>2018</b> , 50, 1	2.4	1
15	Electric field tuning of dynamical dielectric function in phosphorene. <i>Chemical Physics Letters</i> , <b>2019</b> , 731, 136606	2.5	1
14	Nonpolar Optical Phonon-Assisted Cyclotron Resonance Via Multiphoton Absorption Process in Cylindrical Quantum Wire. <i>Integrated Ferroelectrics</i> , <b>2014</b> , 155, 1-8	0.8	1
13	Electronic structure and band alignment of Blue Phosphorene/Janus ZrSSe heterostructure: A first principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 124, 114369	3	1
12	Effects of La and Ce doping on electronic structure and optical properties of janus MoSSe monolayer. <i>Superlattices and Microstructures</i> , <b>2021</b> , 151, 106841	2.8	1
11	Magneto-electronic perturbation effects on the electronic phase of phosphorene. <i>Materials Research Express</i> , <b>2019</b> , 6, 026102	1.7	1
10	Quantum magnetotransport properties of silicene: Influence of the acoustic phonon correction. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
9	Intra- and inter-band magneto-optical absorption in monolayer WS <sub>2</sub> . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 124, 114315	3	0
8	First-principles insights onto structural, electronic and optical properties of Janus monolayers CrXO (X = S, Se, Te).. <i>RSC Advances</i> , <b>2021</b> , 11, 39672-39679	3.7	0
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