CITATION REPORT List of articles citing

Nanoscale Multilayer Transition-Metal Dichalcogenide Heterostructures: Band Gap Modulation by Interfacial Strain and Spontaneous Polarization

DOI: 10.1021/jz400668d Journal of Physical Chemistry Letters, 2013, 4, 1730-6.

Source: https://exaly.com/paper-pdf/55940714/citation-report.pdf

Version: 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
134	Electronic structures and optical properties of realistic transition metal dichalcogenide heterostructures from first principles. 2013 , 88,		342
133	A New Surface and Structure for Silicene: Polygonal Silicene Formation on the Al(111) Surface. Journal of Physical Chemistry C, 2013 , 117, 22142-22148	3.8	57
132	Electronic structural Moir pattern effects on MoS2/MoSe2 2D heterostructures. 2013 , 13, 5485-90		255
131	Achieving a direct band gap in oxygen functionalized-monolayer scandium carbide by applying an electric field. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 26273-8	3.6	60
130	Tuning the magnetism of a ZrS2 monolayer by substitutional doping. <i>RSC Advances</i> , 2014 , 4, 54335-543	34 3 .7	31
129	Second harmonic generation from artificially stacked transition metal dichalcogenide twisted bilayers. 2014 , 8, 2951-8		294
128	Vapor Phase Growth and Imaging Stacking Order of Bilayer Molybdenum Disulfide. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9203-9208	3.8	43
127	Quantum wells formed in transition-metal dichalcogenide nanosheet-superlattices: stability and electronic structures from first principles. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1393-8	3.6	21
126	Effective bandgap engineering in wrinkled germanane via tiny electric field. 2014 , 2, 1125-1130		31
125	MoS2/MX2 heterobilayers: bandgap engineering via tensile strain or external electrical field. 2014 , 6, 2879-86		275
124	Low temperature photoresponse of monolayer tungsten disulphide. 2014 , 2, 116101		9
123	Tuning magnetism of monolayer MoS2 by doping vacancy and applying strain. 2014, 104, 132403		162
122	Density-functional tight-binding simulations of curvature-controlled layer decoupling and band-gap tuning in bilayer MoS2. 2014 , 112, 186802		32
121	Design of High-Efficiency Visible-Light Photocatalysts for Water Splitting: MoS2/AlN(GaN) Heterostructures. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17594-17599	3.8	269
120	Tuning Electronic and Magnetic Properties of Early Transition-Metal Dichalcogenides via Tensile Strain. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7242-7249	3.8	171
119	Electronic and optical properties of MoS2WS2 multi-layers: First principles study. 2014 , 92, 451-456		20
118	Strain and electric field induced electronic properties of two-dimensional hybrid bilayers of transition-metal dichalcogenides. <i>Journal of Applied Physics</i> , 2014 , 116, 063711	2.5	62

117	Electronic structure of In3Se4 and In3Te4 monolayers from ab-initio calculations. 2014 , 526, 402-407		4
116	Phosphorene Nanoribbons, Phosphorus Nanotubes, and van der Waals Multilayers. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14051-14059	3.8	467
115	Controlling the Electronic Structures and Properties of in-Plane Transition-Metal Dichalcogenides Quantum Wells. 2015 , 5, 17578		21
114	Formation of ripples in atomically thin MoSIand local strain engineering of electrostatic properties. <i>Nanotechnology</i> , 2015 , 26, 105705	3.4	63
113	Metal-organic Kagome lattices M3(2,3,6,7,10,11-hexaiminotriphenylene)2 (M = Ni and Cu): from semiconducting to metallic by metal substitution. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 5954-8	3.6	82
112	Electronic Structure of Twisted Bilayers of Graphene/MoS2 and MoS2/MoS2. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4752-4758	3.8	94
111	Two-dimensional dichalcogenides for light-harvesting applications. 2015 , 10, 128-137		165
110	Tuning magnetic properties of CrS2 monolayer by doping transition metal and alkaline-earth atoms. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 75-81	5.7	22
109	Vertical and Bidirectional Heterostructures from Graphyne and MSe2 (M = Mo, W). <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2694-701	6.4	27
108	Phase engineering of transition metal dichalcogenides. 2015 , 44, 2702-12		655
108	Phase engineering of transition metal dichalcogenides. 2015 , 44, 2702-12 Achieving type I, II, and III heterojunctions using functionalized MXene. 2015 , 7, 7163-9		6 ₅₅
		i-160	84
107	Achieving type I, II, and III heterojunctions using functionalized MXene. 2015 , 7, 7163-9	5-160 3	84
107	Achieving type I, II, and III heterojunctions using functionalized MXene. 2015 , 7, 7163-9 Strain induced modulation to the magnetism of antisite defects doped monolayer MoS2. 2015 , 386, 155 Electronic, dielectric and mechanical properties of MoS2/SiC hybrid bilayer: A first principle study.	3	84
107 106 105	Achieving type I, II, and III heterojunctions using functionalized MXene. 2015 , 7, 7163-9 Strain induced modulation to the magnetism of antisite defects doped monolayer MoS2. 2015 , 386, 155 Electronic, dielectric and mechanical properties of MoS2/SiC hybrid bilayer: A first principle study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 71, 49-55	3	84 14 9
107 106 105	Achieving type I, II, and III heterojunctions using functionalized MXene. 2015, 7, 7163-9 Strain induced modulation to the magnetism of antisite defects doped monolayer MoS2. 2015, 386, 155 Electronic, dielectric and mechanical properties of MoS2/SiC hybrid bilayer: A first principle study. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 71, 49-55 Electronic properties of two-dimensional van der Waals GaS/GaSe heterostructures. 2015, 3, 11548-115 Electronic structures of in-plane two-dimensional transition-metal dichalcogenide	3 54 3.6	84 14 9 50
107 106 105 104	Achieving type I, II, and III heterojunctions using functionalized MXene. 2015, 7, 7163-9 Strain induced modulation to the magnetism of antisite defects doped monolayer MoS2. 2015, 386, 155 Electronic, dielectric and mechanical properties of MoS2/SiC hybrid bilayer: A first principle study. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 71, 49-55 Electronic properties of two-dimensional van der Waals GaS/GaSe heterostructures. 2015, 3, 11548-115 Electronic structures of in-plane two-dimensional transition-metal dichalcogenide heterostructures. Physical Chemistry Chemical Physics, 2015, 17, 29380-6	3 54 3.6	84 14 9 50 25

99	Large-Scale Production of Bismuth Chalcogenide and Graphene Heterostructure and Its Application for Flexible Broadband Photodetector. 2016 , 2, 1600077		29
98	Simultaneous Hosting of Positive and Negative Trions and the Enhanced Direct Band Emission in MoSe2/MoS2 Heterostacked Multilayers. 2016 , 10, 6211-9		51
97	Graphene Monoxide Bilayer As a High-Performance on/off Switching Media for Nanoelectronics. 2016 , 8, 10477-82		7
96	In-plane interfacing effects of two-dimensional transition-metal dichalcogenide heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15632-8	3.6	38
95	Design of lateral heterostructure from arsenene and antimonene. 2016 , 3, 035017		57
94	Structural Changes in 2D BiSe Bilayers as n Increases in (BiSe)(NbSe) (n = 1-4) Heterostructures. 2016 , 10, 9489-9499		11
93	TMDC Heterostructures. 2016 , 447-471		
92	Coronene-based metal-organic framework: a theoretical exploration. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25277-25283	3.6	16
91	Centimeter Scale Patterned Growth of Vertically Stacked Few Layer Only 2D MoS2/WS2 van der Waals Heterostructure. 2016 , 6, 25456		99
90	Stacking orders induced direct band gap in bilayer MoSe2-WSe2 lateral heterostructures. 2016 , 6, 311	22	29
89	Changes in morphology and local conductance of GeTeBb2Te3superlattice films on silicon observed by scanning probe microscopy in a lithography mode. 2016 , 55, 04EK02		4
88	Band structure modulation in MoS2 multilayers and heterostructures through electric field and strain. 2016 , 112, 377-382		13
87	Evolution of band structures in MoS2-based homo- and heterobilayers. 2016 , 49, 065304		6
86	One-Step Synthesis of MoSAWSILayered Heterostructures and Catalytic Activity of Defective Transition Metal Dichalcogenide Films. 2016 , 10, 2004-9		135
85	Potential Application of Metal Dichalcogenides Double-Layered Heterostructures as Anode Materials for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4779-4788	3.8	59
8 ₅		3.8	59 28
	Materials for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4779-4788 Bandgap engineering of MoS2/MX2 (MX2 = WS2, MoSe2 and WSe2) heterobilayers subjected to		

(2018-2017)

81	MoS2-MX2 in-plane superlattices: Electronic properties and bandgap engineering via strain. 2017 , 132, 30-35		5
80	Effects of interlayer polarization field on the band structures of the WS 2 /MoS 2 and WSe 2 /MoSe 2 heterostructures. 2017 , 661, 1-9		7
79	Straintronics in two-dimensional in-plane heterostructures of transition-metal dichalcogenides. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 663-672	3.6	47
78	Two-dimensional tetragonal AlP monolayer: strain-tunable directIndirect band-gap and semiconductorInetal transitions. 2017 , 5, 5999-6004		25
77	Interlayer resistance of misoriented MoS. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 10406-10412	3.6	12
76	Aligned MoO/MoS and MoO/MoTe Freestanding Core/Shell Nanoplates Driven by Surface Interactions. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1631-1636	6.4	11
<i>75</i>	Ultrafast Interfacial Self-Assembly of 2D Transition Metal Dichalcogenides Monolayer Films and Their Vertical and In-Plane Heterostructures. 2017 , 9, 1021-1028		30
74	Modulation of electronic structures of MoSe2/WSe2 van der Waals heterostructure by external electric field. 2017 , 266, 11-15		6
73	Considering the spinBrbit coupling effect on the photocatalytic performance of AlN/MX2 nanocomposites. 2017 , 5, 9412-9420		19
72	Possible electric field induced indirect to direct band gap transition in MoSe. 2017 , 7, 5206		15
7 ²	Possible electric field induced indirect to direct band gap transition in MoSe. 2017 , 7, 5206 First-principles investigation of MoS2 monolayer adsorbed on SiO2 (0001) Surface. 2017 , 31, 1750229		15 5
		1.8	
71	First-principles investigation of MoS2 monolayer adsorbed on SiO2 (0001) Surface. 2017 , 31, 1750229 Computational methods for 2D materials: discovery, property characterization, and application	1.8	5
71 70	First-principles investigation of MoS2 monolayer adsorbed on SiO2 (0001) Surface. 2017 , 31, 1750229 Computational methods for 2D materials: discovery, property characterization, and application design. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 473001 Electronic and Optical Properties of Pristine and Vertical and Lateral Heterostructures of Janus		5
71 70 69	First-principles investigation of MoS2 monolayer adsorbed on SiO2 (0001) Surface. 2017 , 31, 1750229 Computational methods for 2D materials: discovery, property characterization, and application design. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 473001 Electronic and Optical Properties of Pristine and Vertical and Lateral Heterostructures of Janus MoSSe and WSSe. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5959-5965 Disparity in Photoexcitation Dynamics between Vertical and Lateral MoS/WSe Heterojunctions: Time-Domain Simulation Emphasizes the Importance of Donor-Acceptor Interaction and Band	6.4	5 39 202
71 70 69 68	First-principles investigation of MoS2 monolayer adsorbed on SiO2 (0001) Surface. 2017, 31, 1750229 Computational methods for 2D materials: discovery, property characterization, and application design. Journal of Physics Condensed Matter, 2017, 29, 473001 Electronic and Optical Properties of Pristine and Vertical and Lateral Heterostructures of Janus MoSSe and WSSe. Journal of Physical Chemistry Letters, 2017, 8, 5959-5965 Disparity in Photoexcitation Dynamics between Vertical and Lateral MoS/WSe Heterojunctions: Time-Domain Simulation Emphasizes the Importance of Donor-Acceptor Interaction and Band Alignment. Journal of Physical Chemistry Letters, 2017, 8, 5771-5778 Influence of band offset, nanostructuring, and applied electric field on the optoelectronic	6.4	5 39 202 42
71 70 69 68	First-principles investigation of MoS2 monolayer adsorbed on SiO2 (0001) Surface. 2017, 31, 1750229 Computational methods for 2D materials: discovery, property characterization, and application design. Journal of Physics Condensed Matter, 2017, 29, 473001 Electronic and Optical Properties of Pristine and Vertical and Lateral Heterostructures of Janus MoSSe and WSSe. Journal of Physical Chemistry Letters, 2017, 8, 5959-5965 Disparity in Photoexcitation Dynamics between Vertical and Lateral MoS/WSe Heterojunctions: Time-Domain Simulation Emphasizes the Importance of Donor-Acceptor Interaction and Band Alignment. Journal of Physical Chemistry Letters, 2017, 8, 5771-5778 Influence of band offset, nanostructuring, and applied electric field on the optoelectronic properties of vertically stacked MoS2/WS2 materials. 2017, 96,	6.4	5 39 202 42 6

63	Lateral and Vertical Heterostructures of Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1547-1555	3.8	16
62	Electronic and magnetic properties of structural defects in pristine ZrSe2 monolayer. 2018, 146, 36-41		11
61	Computational study of phase engineered transition metal dichalcogenides heterostructures. 2018 , 142, 129-134		8
60	Band Structure Engineering in 2D Materials for Optoelectronic Applications. 2018 , 3, 1800072		48
59	Direct Z-Scheme Water Splitting Photocatalyst Based on Two-Dimensional Van Der Waals Heterostructures. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5419-5424	6.4	77
58	First-principles studies of SnS2, MoS2 and WS2 stacked van der Waals hetero-multilayers. 2018 , 16, e00	303	2
57	1T phase as an efficient hole injection layer to TMDs transistors: a universal approach to achieve p-type contacts. 2018 , 5, 031012		19
56	High energy passively Q-switched Er-doped fiber laser based on Mo_05W_05S_2 saturable absorber. <i>Optical Materials Express</i> , 2018 , 8, 324	2.6	6
55	A novel WS2/NbSe2 vdW heterostructure as an ultrafast charging and discharging anode material for lithium-ion batteries. 2018 , 6, 17040-17048		36
54	Effects of a magnetic field on the optoelectronic properties of mono- and bi-layer transition metal dichalcogenides. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 275502	1.8	1
53	Distinctive optoelectronic properties of nanostructured MoS2 bilayers. 2019 , 100,		1
52	Janus single-layer group-III monochalcogenides: a promising visible-light photocatalyst. 2019 , 52, 4553	03	17
51	Intrinsic Electric Field-Induced Properties in Janus MoSSe van der Waals Structures. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 559-565	6.4	57
50	Rashba spin splitting and photocatalytic properties of GeCMSSe (M=Mo, W) van der Waals heterostructures. 2019 , 100,		92
49	Twist Angle mapping in layered WS by Polarization-Resolved Second Harmonic Generation. 2019 , 9, 14	285	18
48	Strain-induced electronic properties of van der Waals heterostructures based on tin dichalcogenides. 2019 , 9, 055324		5
47	Two-dimensional materials with intrinsic auxeticity: progress and perspectives. 2019 , 11, 11413-11428		24
46	Misfit strain-induced energy dissipation for graphene/MoS heterostructure nanomechanical resonators. <i>Nanotechnology</i> , 2019 , 30, 265701	3.4	2

(2020-2019)

45	Engineering the electronic structure and optical properties of monolayer 1T-HfX2 using strain and electric field: A first principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 112, 49-58	3	6
44	Electronic structure and transport properties of 2D RhTeCl: a NEGF-DFT study. 2019 , 11, 20461-20466		2
43	Energy Gap-Modulated Blue Phosphorene as Flexible Anodes for Lithium- and Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2808-2819	3.8	19
42	The energy band engineering for the high-performance infrared photodetectors constructed by CdTe/MoS heterojunction. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 065004	1.8	15
41	Strain-engineered BlueP-MoS van der Waals heterostructure with improved lithiation/sodiation for LIBs and SIBs. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 1701-1714	3.6	9
40	Excited-State Properties of Janus Transition-Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1667-1673	3.8	8
39	Janus Bi2XYZ monolayers for light harvesting and energy conversion from first-principles calculations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 117, 113823	3	2
38	First-principles investigation of low-dimension MSe2 (M = Ti, Hf, Zr) configurations as promising thermoelectric materials. 2020 , 139, 109322		3
37	Suppressing photoexcited electronflole recombination in MoSe2/WSe2 lateral heterostructures via interface-coupled state engineering: a time-domain ab initio study. 2020 , 8, 20621-20628		8
36	Edge Defect-Free Anisotropic Two-Dimensional Sheets with Nearly Direct Band Gaps from a True One-Dimensional Van der Waals NbSe Material. 2020 , 5, 10800-10807		7
35	Excitons in strain-induced one-dimensional moir potentials at transition metal dichalcogenide heterojunctions. 2020 , 19, 1068-1073		79
34	Ab initio study of strain and electric field dependent variation in electronic and thermoelectric properties of PdS2. <i>Materials Today Communications</i> , 2020 , 24, 100976	2.5	7
33	Electron Density and Its Relation with Electronic and Optical Properties in 2D Mo/W Dichalcogenides. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
32	A perspective on nanoscale pattern formation at surfaces by ion-beam irradiation. <i>Journal of Applied Physics</i> , 2020 , 128, 180902	2.5	14
31	Bioelectronics-Related 2D Materials Beyond Graphene: Fundamentals, Properties, and Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 2003732	15.6	14
30	Van der Waals Multi-Heterostructures (PN, PIN, and NPN) for Dynamic Rectification in 2D Materials. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001479	4.6	11
29	Two-dimensional O-phase group III monochalcogenides for photocatalytic water splitting. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 065501	1.8	2
28	Moir Potential, Lattice Corrugation, and Band Gap Spatial Variation in a Twist-Free MoTe/MoS Heterobilayer. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2637-2646	6.4	11

27	Extended 1D defect induced magnetism in 2D MoS crystal. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 215302	1.8	0
26	Two-dimensional Janus-In2STe/InSe heterostructure with direct gap and staggered band alignment. <i>Applied Surface Science</i> , 2020 , 509, 145317	6.7	11
25	Sub-millimeter size high mobility single crystal MoSe monolayers synthesized by NaCl-assisted chemical vapor deposition <i>RSC Advances</i> , 2020 , 10, 1580-1587	3.7	14
24	Strain and electric field dependent variation in electronic and thermoelectric properties of PtS2. <i>Results in Physics</i> , 2020 , 17, 103088	3.7	8
23	Engineering Atomically Sharp Potential Steps and Band Alignment at Solid Interfaces using 2D Janus Layers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9572-9580	3.8	5
22	First-Principles Study of Strain Modulation in S3P2/Black Phosphorene vdW Heterostructured Nanosheets for Flexible Electronics. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4407-4417	5.6	7
21	Tunable Spectral Properties of Photodetectors Based on Quaternary Transition Metal Dichalcogenide Alloys MoxW(1-x)Se2yS2(1-y). <i>IEEE Sensors Journal</i> , 2021 , 21, 325-330	4	2
20	The first-principles study on the performance of the graphene/WS2 heterostructure as an anode material of Li-ion battery. <i>Journal of Alloys and Compounds</i> , 2021 , 855, 157432	5.7	8
19	Band structure engineering through van der Waals heterostructing superlattices of two-dimensional transition metal dichalcogenides. <i>Informal</i> (IMaterily, 2021 , 3, 201-211	23.1	13
18	The electronic and magnetic properties of h-BN/MoS heterostructures intercalated with 3d transition metal atoms. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 506-513	3.6	O
17	Two-Dimensional Graphene/BlueP/MoS2 van der Waals Multilayer Heterostructure as a High-Performance Anode Material for LIBs. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8980-8992	3.8	1
16	High-Speed Imaging of Second-Harmonic Generation in MoS Bilayer under Femtosecond Laser Ablation. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
15	Highly Stable Passively Q-Switched Erbium-Doped All-Fiber Laser Based on Niobium Diselenide Saturable Absorber. <i>Molecules</i> , 2021 , 26,	4.8	1
14	Promising anode material BN/VS2 heterostructure for the Li-ion battery: The first-principles study. <i>Applied Surface Science</i> , 2021 , 564, 150468	6.7	2
13	The mechanism of layer number and strain dependent bandgap of 2D crystal PtSe2. <i>Journal of Applied Physics</i> , 2017 , 122, 205701	2.5	31
12	Second harmonic generation spectroscopy on two-dimensional materials [Invited]. <i>Optical Materials Express</i> , 2019 , 9, 1136	2.6	27
11	First principles study on modulating electronic and optical properties with h-BN intercalation in AlN/MoSheterostructure. <i>Nanotechnology</i> , 2021 , 33,	3.4	4
10	Electronic Structure of 2D Semiconducting Atomic Crystals. 2020 , 9-34		

CITATION REPORT

9	Electronic properties of MoS2/Be2C van der Waals heterostructure: Effect of Bi-axil strain and vertical electric field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 139, 115172	3		
8	In-situ formation of Are-MXY(M = Mo, W; (X IY) = S, Se, Te) van der Waals heterostructure. <i>Journal of Solid State Chemistry</i> , 2022 , 313, 123284	3.3		
7	Horizontal and vertical stacked Ag/MoS2 nanostructure enabled excellent carrier mobility and optoelectronic properties. <i>Optics and Laser Technology</i> , 2022 , 155, 108408	4.2	1	
6	Structural engineering brings new electronic properties to Janus ZrSSe and HfSSe monolayers. <i>Physical Chemistry Chemical Physics</i> ,	3.6		
5	Electric field and strain-induced band-gap engineering and manipulation of the Rashba spin splitting in Janus van der Waals heterostructures. 2022 , 106,		O	
4	Efficient visible light activities of Ag modified ZnO/g-C3N4 composite for CO2 conversion. 2022 , 145, 109944		O	
3	Tunable Electronic Property and Robust Type-II Feature in Blue Phosphorene/MoSi2N4 Bilayer Heterostructure. 2022 , 12, 1407		О	
2	Type-II van der Waals heterostructures of GeC, ZnO and Al2SO monolayers for promising optoelectronic and photocatalytic applications. 2023 ,		O	
1	First-principles study of penta-graphene/MoS2 vdW heterostructure as anode material for lithium-ion batteries. 2023 , 109928		О	