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Opening an electrical band gap of bilayer graphene with molecular doping

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#	Paper	IF	Citations
210	Structure and Electronic and Transport Properties of Transition Metal Intercalated Graphene and Graphene-Hexagonal-Boron-Nitride Bilayer. 2011 , 115, 25273-25280		21
209	Tailoring Electronic Properties of Graphene by π -Stacking with Aromatic Molecules. 2011 , 2, 2897-2905		210
208	SEMICONDUCTING GRAPHENE. 2012 , 02, 1230009		5
207	Tuning the band gap of bilayer graphene by ion implantation: Insight from computational studies. 2012 , 86,		24
206	Amide Functionalization of Graphene and Carbon Nanotubes: Coverage- and Pattern-Dependent Electronic and Magnetic Properties. 2012 , 116, 13722-13730		19
205	Layer-by-layer graphene/TCNQ stacked films as conducting anodes for organic solar cells. <i>ACS Nano</i> , 2012 , 6, 5031-9	16.7	187
204	Electron-state engineering of bilayer graphene by ionic molecules. 2012 , 101, 233106		10
203	Theoretical and experimental study on narrowing the band gap of carbon nitride photocatalyst by coupling a wide gap molecule. 2012 , 550, 175-180		15
202	Charge dynamics and electronic structures of monolayer graphene with molecular doping. 2012 , 101, 111907		7
201	Graphene-diamond interface: Gap opening and electronic spin injection. 2012 , 85,		82
200	Electrically tunable plasma excitations in AA-stacked multilayer graphene. 2012 , 86,		16
199	Graphene: an emerging electronic material. 2012 , 24, 5782-825		603
198	Characteristic Variations of Graphene Field-Effect Transistors Induced by CF_4 Gas. 2012 , 51, 081301		
197	Enabling graphene-based technologies: Toward wafer-scale production of epitaxial graphene. 2012 , 37, 1149-1157		40
196	Hybrid graphene and graphitic carbon nitride nanocomposite: gap opening, electron-hole puddle, interfacial charge transfer, and enhanced visible light response. 2012 , 134, 4393-7		490
195	Chemistry and physics of a single atomic layer: strategies and challenges for functionalization of graphene and graphene-based materials. 2012 , 41, 97-114		432
194	Monoatomic Layer Electronics Constructed by Graphene and Boron Nitride Nanoribbons. 2012 , 116, 17259-17267		31

193	Tunable and sizable band gap in silicene by surface adsorption. 2012 , 2, 853		220
192	Converting graphene oxide monolayers into boron carbonitride nanosheets by substitutional doping. 2012 , 8, 1384-91		87
191	Phonon and structural changes in deformed Bernal stacked bilayer graphene. 2012 , 12, 687-93		58
190	Band-gap engineering in chemically conjugated bilayer graphene: Ab initio calculations. 2012 , 85,		29
189	Fabrication of Graphene Nanomesh and Improved Chemical Enhancement for Raman Spectroscopy. 2012 , 116, 15741-15746		62
188	Engineering the electronic structure of graphene. 2012 , 24, 4055-69		99
187	The electrical properties of graphene modified by bromophenyl groups derived from a diazonium compound. 2012 , 50, 1517-1522		43
186	Towards new graphene materials: Doped graphene sheets and nanoribbons. 2012 , 78, 209-218		168
185	Single-gate bandgap opening of bilayer graphene by dual molecular doping. 2012 , 24, 407-11		212
184	Asymmetric effect of oxygen adsorption on electron and hole mobilities in bilayer graphene: long- and short-range scattering mechanisms. <i>ACS Nano</i> , 2013 , 7, 6597-604	16.7	28
183	Nitrogen-doped graphene sheets grown by chemical vapor deposition: synthesis and influence of nitrogen impurities on carrier transport. <i>ACS Nano</i> , 2013 , 7, 6522-32	16.7	229
182	Energetics and hierarchical interactions of metal-phthalocyanines adsorbed on graphene/Ir(111). 2013 , 29, 10440-7		41
181	Raman Spectroscopy. 2013 , 753-802		3
180	Tunable band gap in few-layer graphene by surface adsorption. 2013 , 3,		43
179	Structural Instability of Transferred Graphene Grown by Chemical Vapor Deposition against Heating. 2013 , 117, 22123-22130		21
178	Recent progress in organic molecule/graphene interfaces. 2013 , 8, 388-402		70
177	Evolution of physical and electronic structures of bilayer graphene upon chemical functionalization. 2013 , 135, 18866-75		39
176	Investigation of carbon-silicon schottky diodes and their use as chemical sensors. 2013 ,		4

175	Graphene-related nanomaterials: tuning properties by functionalization. 2013 , 5, 4541-83	524
174	Semiconducting graphene: converting graphene from semimetal to semiconductor. 2013 , 5, 1353-68	122
173	Local anodic oxidation kinetics of chemical vapor deposition graphene supported on a thin oxide buffered silicon template. 2013 , 54, 336-342	16
172	Molecular doping and band-gap opening of bilayer graphene. <i>ACS Nano</i> , 2013 , 7, 2790-9	16.7 105
171	Manipulating the electronic and chemical properties of graphene via molecular functionalization. 2013 , 88, 132-159	138
170	Chemically modulated graphene diodes. 2013 , 13, 2182-8	132
169	Bandgap Opening of Bilayer Graphene by Dual Doping from Organic Molecule and Substrate. 2013 , 117, 12873-12881	66
168	Molecular adsorption induces the transformation of rhombohedral- to Bernal-stacking order in trilayer graphene. 2013 , 4, 2074	26
167	Graphene-Induced Substrate Decoupling and Ideal Doping of a Self-Assembled Iron-phthalocyanine Single Layer. 2013 , 117, 3019-3027	66
166	First-principles study of graphene adsorbed on WS ₂ monolayer. 2013 , 114, 183709	21
165	Graphene-based non-Boolean logic circuits. 2013 , 114, 154310	47
164	Effect of MeV Electron Beam Irradiation on Graphene Grown by Thermal Chemical Vapor Deposition. 2013 , 52, 125104	1
163	P-Type Doping of Graphene Films by Hybridization with Nickel Nanoparticles. 2013 , 52, 075101	7
162	25th anniversary article: Chemically modified/doped carbon nanotubes & graphene for optimized nanostructures & nanodevices. 2014 , 26, 40-66	432
161	Direct growth of high-quality Al ₂ O ₃ dielectric on graphene layers by low-temperature H ₂ O-based ALD. 2014 , 47, 055106	26
160	Strain-engineering the anisotropic electrical conductance of few-layer black phosphorus. 2014 , 14, 2884-9	984
159	Band gap modulation of bilayer graphene by single and dual molecular doping: A van der Waals density-functional study. 2014 , 616-617, 75-80	11
158	Scanning Tunneling Microscope and Photoemission Spectroscopy Investigations of Bismuth on Epitaxial Graphene on SiC(0001). 2014 , 118, 24995-24999	18

157	Toward high-performance digital logic technology with carbon nanotubes. <i>ACS Nano</i> , 2014 , 8, 8730-45	16.7	209
156	Chemical vapor deposition (CVD) growth of graphene films. 2014 , 27-49		10
155	Fabrication of free-standing Al ₂ O ₃ nanosheets for high mobility flexible graphene field effect transistors. 2014 , 2, 4759		4
154	Probing inhomogeneous doping in overlapped graphene grain boundaries by Raman spectroscopy. 2014 , 80, 513-522		15
153	Selective suspension of single layer graphene mechanochemically exfoliated from carbon nanofibres. 2014 , 7, 963-972		62
152	Semiconducting behavior of bilayer graphene synthesized by plasma-enhanced chemical vapor deposition and its application in field effect transistors. 2014 , 136, 103-106		3
151	Analytical study of the energy levels in bilayer graphene quantum dots. 2014 , 78, 392-400		29
150	Synthesis, characterization and morphology of reduced graphene oxide-metal/CNQ nanocomposites. 2014 , 2, 870-878		38
149	Physical adsorption and charge transfer of molecular Br ₂ on graphene. <i>ACS Nano</i> , 2014 , 8, 2943-50	16.7	54
148	Heterostructural bilayers of graphene and molybdenum disulfide: Configuration types, band opening and enhanced light response. 2014 , 68, 56-65		7
147	Can graphynes turn into graphene at room temperature?. 2014 , 73, 283-290		22
146	UV/O ₃ Generated Graphene Nanomesh: Formation Mechanism, Properties, and FET Studies. 2014 , 118, 725-731		42
145	Graphene for Electron Devices: The Panorama of a Decade. 2014 , 2, 77-104		13
144	Towards single-gate field effect transistor utilizing dual-doped bilayer graphene. 2014 , 77, 431-441		13
143	Optical properties of nitrogen-doped graphene thin films probed by spectroscopic ellipsometry. 2014 , 571, 675-679		14
142	Structural Characterization of Carbon Nanowalls and Their Potential Applications in Energy Devices. 2014 , 133-164		
141	Formation of Graphene P-N Junction Arrays Using Soft-Lithographic Patterning and Cross-Stacking. 2015 , 1098, 63-68		1
140	Negative terahertz conductivity in remotely doped graphene bilayer heterostructures. 2015 , 118, 183105		3

139	Effect of impurity doping in gapped bilayer graphene. 2015 , 107, 163104	4
138	Precisely Controlled Ultrastrong Photoinduced Doping at Graphene-Heterostructures Assisted by Trap-State-Mediated Charge Transfer. 2015 , 27, 7809-15	34
137	Enhancing the interlayer adhesive force in twisted multilayer MoS ₂ by thermal annealing treatment. 2015 , 26, 405708	15
136	Functionalized Graphene Superlattice as a Single-Sheet Solar Cell. 2015 , 25, 5199-5205	5
135	Properties of Carbon: An Overview. 2015 , 1-30	
134	Demonstration of distinct semiconducting transport characteristics of monolayer graphene functionalized via plasma activation of substrate surfaces. 2015 , 93, 353-360	5
133	Single-layer graphene doping through molecular interaction: field-effect transistor and atomic force microscopy investigations. 2015 , 1, 52-58	10
132	Electronic interaction between nitrogen atoms in doped graphene. <i>ACS Nano</i> , 2015 , 9, 670-8	16.7 55
131	Nanostructuring graphene for controlled and reproducible functionalization. 2015 , 7, 1566-85	95
130	Controllable n-type doping on CVD-grown single- and double-layer graphene mixture. 2015 , 27, 1619-23	38
129	Raman spectroscopy and in situ Raman spectroelectrochemistry of isotopically engineered graphene systems. 2015 , 48, 111-8	50
128	Graphene for nanoelectronics. 2015 , 54, 040102	26
127	Electronic transport properties of in-plane heterostructures constructed by MoS ₂ and WS ₂ nanoribbons. 2015 , 5, 66852-66860	27
126	Tunable Hybridization Between Electronic States of Graphene and Physisorbed Hexacene. 2015 , 119, 19526-19534	4
125	Enhanced photovoltaic performances of graphene/Si solar cells by insertion of a MoS ₂ thin film. 2015 , 7, 14476-82	93
124	Graphene-Induced Magnetic Anisotropy of a Two-Dimensional Iron Phthalocyanine Network. 2015 , 6, 1690-5	21
123	Molecular template growth and its applications in organic electronics and optoelectronics. 2015 , 115, 5570-603	159
122	First-principles prediction of graphene/SnO ₂ heterostructure as a promising candidate for FET. 2015 , 5, 35377-35383	5

121	Noncovalent Molecular Doping of Two-Dimensional Materials. 2015 , 1, 542-557	35
120	Two-dimensional transition metal dichalcogenide alloys: preparation, characterization and applications. 2015 , 7, 18392-401	157
119	Chemically Modulated Band Gap in Bilayer Graphene Memory Transistors with High On/Off Ratio. <i>ACS Nano</i> , 2015 , 9, 9034-42	16.7 46
118	Electronic structure and ultrafast charge transfer dynamics of phosphorous doped graphene layers on a copper substrate: a combined spectroscopic study. 2015 , 5, 74189-74197	17
117	Silicene transistors—A review. 2015 , 24, 088105	12
116	Competition between electron doping and short-range scattering in hydrogenated bilayer graphene on hexagonal boron nitride. 2015 , 5, 103276-103279	5
115	Electronic and optical properties in graphane. 2015 , 95, 2717-2730	3
114	Bandgap-opened bilayer graphene approached by asymmetrical intercalation of trilayer graphene. 2015 , 11, 1177-82	16
113	Direct growth of graphene nanopatches on graphene sheets for highly conductive thin film applications. 2015 , 3, 725-728	7
112	Ultrahigh-gain photodetectors based on atomically thin graphene-MoS ₂ heterostructures. 2014 , 4, 3826	678
111	Towards a Graphene-Based Low Intensity Photon Counting Photodetector. 2016 , 16,	3
110	First-Principles Study of the Electron Transport Properties of Graphene-Like 2D Materials. 2016 ,	1
109	Gate-independent energy gap in noncovalently intercalated bilayer graphene on SiC(0001). 2016 , 94,	2
108	Manipulation of electrical properties in CVD-grown twisted bilayer graphene induced by dissociative hydrogen adsorption. 2016 , 16, 1637-1641	4
107	Growth and characterization of 7,7,8,8-tetracyano-quinodimethane crystals on chemical vapor deposition graphene. 2016 , 453, 1-6	6
106	Edge or interface effect on bandgap openings in graphene nanostructures: A thermodynamic approach. 2016 , 326, 1-33	15
105	Surface Charge Transfer Doping of Low-Dimensional Nanostructures toward High-Performance Nanodevices. 2016 , 28, 10409-10442	105
104	Structure and electronic properties of bilayer graphene functionalized with half-sandwiched transition metal-cyclopentadienyl complexes. 2016 , 18, 22390-8	3

103	Heat-Initiated Chemical Functionalization of Graphene. 2016 , 6, 20034	53
102	Organic doping of rotated double layer graphene. 2016 ,	0
101	Extremely Low Contact Resistance on Graphene through n-Type Doping and Edge Contact Design. 2016 , 28, 864-70	58
100	Bandgap engineering of graphene decorated with randomly distributed ZnO nano-seed. 2016 ,	
99	Gate-Tunable Dirac Point of Molecular Doped Graphene. <i>ACS Nano</i> , 2016 , 10, 2930-9	16.7 38
98	The Synthesis, Properties, and Applications of Heteroatom-Doped Graphenes. 2016 , 103-133	3
97	Graphene nanoribbons: fabrication, properties and devices. 2016 , 49, 143001	132
96	Fine tuning of optical transition energy of twisted bilayer graphene via interlayer distance modulation. 2017 , 95,	11
95	Band gap opening of bilayer graphene by graphene oxide support doping. 2017 , 7, 9862-9871	24
94	Facile production of graphene nanosheets comprising nitrogen-doping through in situ cathodic plasma formation during electrochemical exfoliation. 2017 , 5, 2597-2602	25
93	Creation of quasi-Dirac points in the Floquet band structure of bilayer graphene. 2017 , 29, 215503	2
92	Molecular doping of graphene across ultra-thin molybdenum disulphide spacers. 2017 , 254, 1600521	1
91	The role of contact resistance in graphene field-effect devices. 2017 , 92, 143-175	130
90	Band Gap Opening Induced by the Structural Periodicity in Epitaxial Graphene Buffer Layer. 2017 , 17, 2681-2689	27
89	An electricity-fluorescence double-checking biosensor based on graphene for detection of binding kinetics of DNA hybridization. 2017 , 7, 44559-44567	16
88	Insights from first principles graphene/g-C ₂ N bilayer: gap opening, enhanced visible light response and electrical field tuning band structure. 2017 , 123, 1	15
87	Fano-shaped impurity spectral density, electric-field-induced in-gap state, and local magnetic moment of an adatom on trilayer graphene. 2017 , 96,	1
86	van der Waals Layered Materials: Opportunities and Challenges. <i>ACS Nano</i> , 2017 , 11, 11803-11830	16.7 258

85	Recent Advances in the Study of Phosphorene and its Nanostructures. 2017 , 42, 1-82	113
84	High Voltage Gain Inverters From Artificially Stacked Bilayer CVD Graphene FETs. 2017 , 38, 1747-1750	4
83	Interfacial engineering in graphene bandgap. 2018 , 47, 3059-3099	94
82	Modulating electronic and optical properties of black phosphorous carbide monolayers by molecular doping. 2018 , 448, 270-280	9
81	Van der Waals graphene/g-GaSe heterostructure: Tuning the electronic properties and Schottky barrier by interlayer coupling, biaxial strain, and electric gating. 2018 , 750, 765-773	45
80	Controlled Pore Sizes in Monolayer C ₂ N Act as Ultrasensitive Probes for Detection of Gaseous Pollutants (HF, HCN, and H ₂ S). 2018 , 122, 2248-2258	33
79	Tuning the Electronic and Optical Properties of Two-Dimensional Graphene-like (hbox {C}_2hbox {N}) Nanosheet by Strain Engineering. 2018 , 47, 4594-4603	11
78	Carbon-Based Metal-Free Electrocatalysis for Energy Conversion, Energy Storage, and Environmental Protection. 2018 , 1, 84-112	109
77	Combined molecular and periodic DFT analysis of the adsorption of co macrocycles on graphene. 2018 , 39, 130-138	4
76	The role of the intrinsic Se and In vacancies in the interaction of O ₂ and H ₂ O molecules with the InSe monolayer. 2018 , 434, 215-227	20
75	Long-term air-stable Au doping of graphene by layer-by-layer assembly with graphene oxide for flexible transparent electrodes. 2018 , 126, 241-246	16
74	Characterizing self-assembled molecular layers on weakly interacting substrates: the role of van der Waals and the chemical interactions. 2018 , 2, 045002	2
73	Enhanced capacitance properties of nitrogen doped reduced graphene oxide obtained by simultaneous reduction and nitrogen doping. 2018 , 11, 24-31	20
72	Bilayer graphenes with antidots: structures, properties and applications. 2018 , 1092, 012018	2
71	Water-Based High Shear Exfoliated Graphene-Based Semi-Transparent Stable Dye-Sensitized Solar Cells for Solar Power Window Application. 2018 , 8, 1252-1258	11
70	. 2018 , 65, 4548-4554	6
69	Reversible sulfuric acid doping of graphene probed by in-situ multi-wavelength Raman spectroscopy. 2018 , 138, 257-263	5
68	Interlayer coupling and electric field tunable electronic properties and Schottky barrier in a graphene/bilayer-GaSe van der Waals heterostructure. 2018 , 20, 17899-17908	76

67	Superflexible C68-graphyne as a promising anode material for lithium-ion batteries. 2019 , 7, 17357-17365	14
66	Nitrogenated holey graphene (C2N) surface as highly selective electrochemical sensor for ammonia. 2019 , 296, 111929	39
65	Effect of Doping Temperatures and Nitrogen Precursors on the Physicochemical, Optical, and Electrical Conductivity Properties of Nitrogen-Doped Reduced Graphene Oxide. 2019 , 12,	37
64	Proximity Engineering of the van der Waals Interaction in Multilayered Graphene. 2019 , 11, 42528-42533	7
63	Using Different Ions to Tune Graphene Stack Structures from Sheet- to Onion-Like During Plasma Exfoliation, with Supercapacitor Applications. 2019 , 14, 141	10
62	Realization of larger band gap opening of graphene and type-I band alignment with BN intercalation layer in graphene/MX2 heterojunctions. 2019 , 100,	6
61	Tailoring electrical conductivity of two dimensional nanomaterials using plasma for edge electronics: A mini review. 2019 , 13, 427-443	0
60	Advance in Close-Edged Graphene Nanoribbon: Property Investigation and Structure Fabrication. 2019 , 15, e1804473	16
59	Complementary Dual-Channel Gas Sensor Devices Based on a Role-Allocated ZnO/Graphene Hybrid Heterostructure. 2019 , 11, 16830-16837	25
58	Electronic structure and transport properties of bilayer graphene adsorbed by LiF ₂ super-halogen clusters and Li ₃ O super-alkali clusters. 2019 , 52, 245302	1
57	Graphene/g-GeC bilayer heterostructure: Modulated electronic properties and interface contact via external vertical strains and electric fields. 2019 , 146, 337-347	48
56	Ab-initio study of electronic properties of Si(C) honeycomb structures. 2019 , 57, 479-489	4
55	Atomic Properties and Electronic Structure. 2019 , 23-66	2
54	Review and assessment of photovoltaic performance of graphene/Si heterojunction solar cells. 2019 , 54, 911-948	21
53	Influence of a substrate on ultrafast interfacial charge transfer and dynamical interlayer excitons in monolayer WSe/graphene heterostructures. 2020 , 12, 2498-2506	10
52	Interlayer interaction controlling the properties of AB- and AA-stacked bilayer graphene-like BC14n and si2c14. 2020 , 21, 100740	9
51	High-mobility junction field-effect transistor via graphene/MoS heterointerface. 2020 , 10, 13101	11
50	Investigation on the mechanical properties and fracture phenomenon of silicon doped graphene by molecular dynamics simulation.. 2020 , 10, 31318-31332	11

49	Bismuth Oxychalcogenide Nanosheet: Facile Synthesis, Characterization, and Photodetector Application. 2020 , 5, 2000180	14
48	Tuning the binding energy of excitons in the MoS monolayer by molecular functionalization and defective engineering. 2020 , 22, 11936-11942	2
47	Sizable Band Gap in Epitaxial Bilayer Graphene Induced by Silicene Intercalation. 2020 , 20, 2674-2680	14
46	On the Edge of Bilayered Graphene: Unexpected Atomic Geometry and Specific Electronic Properties. 2020 , 11, 5871-5876	3
45	Distinguishing strain, charge and molecular orbital induced effects on the electronic structure: graphene/ammonia system. 2020 , 32, 455501	1
44	First principles study of sarin nerve gas adsorption on graphene nanoribbon with single molecule resolution. 2020 , 28, 1985-1989	
43	Growth, morphology and electronic properties of epitaxial graphene on vicinal Ir(332) surface. 2020 , 31, 285601	3
42	Tailoring of electrical properties of TiO ₂ decorated CVD grown single-layer graphene by HNO ₃ molecular doping. 2020 , 264, 116389	4
41	Study the metal-insulator transitions of bilayer graphene: Abelian group schemes approach. 2020 , 142, 106498	
40	Surface charge transfer doping for two-dimensional semiconductor-based electronic and optoelectronic devices. 2021 , 14, 1682-1697	21
39	Emerging field of few-layered intercalated 2D materials. 2021 , 3, 963-982	6
38	Chemical vapor deposition (CVD) growth of graphene films. 2021 , 199-222	0
37	Two-step colloidal synthesis of micron-scale Bi ₂ O ₂ Se nanosheets and their electrostatic assembly for thin-film photodetectors with fast response. 2021 , 32, 3099-3099	3
36	Practical Route for the Low-Temperature Growth of Large-Area Bilayer Graphene on Polycrystalline Nickel by Cold-Wall Chemical Vapor Deposition. 2021 , 6, 12143-12154	3
35	Two-dimensional nanomaterials with engineered bandgap: Synthesis, properties, applications. 2021 , 37, 101059	24
34	Charge carrier modulation in dual-gated graphene field effect transistor using honey as polar organic gate dielectric. 2021 , 127, 1	1
33	Graphene-Based Hybrid Functional Materials. 2021 , 17, e2100514	8
32	Novel graphene-based OPFET for optoelectronic applications. 2021 ,	1

31	Outstanding performance of Si-bilayer graphene using first-principle computation: Significant effects of Si atoms configuration. 2021 , 620, 413273	5
30	Near-Unity Molecular Doping Efficiency in Monolayer MoS ₂ . 2021 , 7, 2000873	9
29	Wave-Packet Dynamics Study of the Transport Characteristics of Perforated Bilayer Graphene Nanoribbons. 2020 , 112, 305-309	4
28	Highly Aligned Polymeric Nanowire Etch-Mask Lithography Enabling the Integration of Graphene Nanoribbon Transistors. 2020 , 11,	2
27	Recent progress of electrocatalysts for hydrogen proton exchange membrane fuel cells. 2021 ,	2
26	Tunable contacts and device performances in graphene/group-III monochalcogenides MX (M = In, Ga; X = S, Se) van der Waals heterostructures. 2021 , 130, 144303	2
25	Impact of nitrogen doping on the linear and nonlinear terahertz response of graphene. 2021 , 104,	0
24	Characteristic Variations of Graphene Field-Effect Transistors Induced by CF ₄ Gas. 2012 , 51, 081301	
23	Stability and electronic structure of hydrogenated two-dimensional transition metal dichalcogenides: First-principles study. 2019 , 68, 037102	3
22	From graphene to graphene ribbons: atomically precise cutting via hydrogenation pseudo-crack. 2020 , 31, 415705	1
21	Tribological characteristics of atomic-scale niobium diselenide grown via chemical vapor deposition. 2020 , 13, 105004	1
20	Construction of novel two-dimensional materials and heterostructures in ultra-high vacuum. 2022 ,	
19	Electric-Field-Tunable Bandgaps in the Inverse-Designed Nanoporous Graphene/Graphene Heterobilayers. 2200252	
18	Revising quantum optical phenomena in adatoms coupled to graphene nanoantennas. 2022 , 11, 3281-3298	2
17	Band gap formation of 2D material in graphene: Future prospect and challenges. 2022 , 100474	1
16	Surface plasma-induced tunable nitrogen doping through precursors provides 1T-2H MoSe ₂ /graphene sheet composites as electrocatalysts for the hydrogen evolution reaction. 2022 , 140767	1
15	Nanohybrids with tunable band gap and low electron effective mass: Graphenes doped by multiple boron nitrogen domains. 2022 , 600, 154182	
14	RPA Plasmons in Graphene Nanoribbons: Influence of a VO ₂ Substrate. 2022 , 12, 2861	1

- 13 Fermi Level Depinning in Two-Dimensional Materials Using a Fluorinated Bilayer Graphene Barrier. **2022**, 4, 3955-3961
- 12 Thermoelectric properties of bilayer graphene structures with bandgap opening. **2022**, 144, 115432 ○
- 11 Incorporation of single-atom copper into nitrogen-doped graphene for acetaminophen electrocatalytic degradation. **2022**, 604, 154561 ○
- 10 Electrochemical aptasensor for Salmonella detection using Nafion-doped reduced graphene oxide. ○
- 9 Klein Tunneling through Triple Barrier in AB Bilayer Graphene. 2200308 ○
- 8 Recent development of graphene-based composite for multifunctional applications: energy, environmental and biomedical sciences. 1-69 1
- 7 A review on carbon materials production from plastic wastes. **2023**, 453, 139725 ○
- 6 Tunable Schottky contact at the graphene/Janus SMOsSiN₂ interface for high-efficiency electronic devices. **2023**, 56, 045306 ○
- 5 Effects of external electric field on the structural and electronic properties of SeZrS/SeHfS van der Waals heterostructure: A first-principles study. **2023**, 767, 139675 ○
- 4 Self-Powered and Broadband Bismuth Oxyselenide/p-Silicon Heterojunction Photodetectors with Low Dark Current and Fast Response. **2023**, 15, 5411-5419 1
- 3 Covalent Triazine Framework C₆N₆ as an Electrochemical Sensor for Hydrogen-Containing Industrial Pollutants. A DFT Study. **2023**, 13, 1121 ○
- 2 Transverse Magnetic Surface Plasmons in Graphene Nanoribbon Qubits: The Influence of a VO₂ Substrate. **2023**, 13, 718 ○
- 1 Dual-cathode plasma-induced exfoliated WSe₂/graphene nanosheet composite mediating an efficient hydrogen evolution reaction. **2023**, 448, 142169 ○