

Xianping Chen

List of Publications by Year in Descending Order

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

188
papers

4,030
citations

33
h-index

57
g-index

221
ext. papers

5,251
ext. citations

5.2
avg, IF

5.96
L-index

#	Paper	IF	Citations
188	Indium Selenide/Antimonene Heterostructure for Multifunctional Optoelectronics. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-7	2.9	1
187	High-Performance Flexible Heater with Command-Responding Function Attained by Direct Laser Writing on Nomex Paper. <i>IEEE Electron Device Letters</i> , 2022 , 1-1	4.4	1
186	Thermal Contact Resistance Optimization of Press-Pack IGBT Device Based on Liquid Metal Thermal Interface Material. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 5411-5421	7.2	2
185	Hydrogenated boron phosphide with the excellent tunability of electronic properties and Current-Voltage responses. <i>Applied Surface Science</i> , 2022 , 572, 151196	6.7	0
184	The promotion of sulfuric vacancy in two-dimensional molybdenum disulfide on the sensing performance of SF ₆ decomposition components. <i>Applied Surface Science</i> , 2022 , 571, 151377	6.7	2
183	Adsorption and gas-sensing properties of Aun (n=1-8) cluster doped MoTe ₂ for NH ₃ , NO ₂ , and SO ₂ gas molecules. <i>Surfaces and Interfaces</i> , 2022 , 30, 101883	4.1	3
182	Nomex paper-based double-sided laser-induced graphene for multifunctional human-machine interfaces. <i>Carbon</i> , 2022 , 193, 68-76	10.4	2
181	One-pot hydrothermal synthesis of Si-doped carbon quantum dots with up-conversion fluorescence as fluorescent probes for dual-readout detection of berberine hydrochloride.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 275, 121139	4.4	0
180	Metal Oxides/Carbon Felt Pressure Sensors with Ultra-Broad-Range High Sensitivity. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2101663	4.6	2
179	A DFT calculation:Gas sensitivity of defect GeSe to air decomposition products (CO, NO and NO ₂). <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	1
178	Polyaniline Modified Laser-Scribed Graphene for High-Performance Microsupercapacitors. <i>IEEE Electron Device Letters</i> , 2022 , 1-1	4.4	1
177	Laser In-Situ synthesis of metallic cobalt decorated porous graphene for flexible In-Plane microsupercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021 , 610, 775-775	9.3	2
176	Porous ZnO/rGO Nanosheet-Based NO ₂ Gas Sensor with High Sensitivity and ppb-Level Detection Limit at Room Temperature. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2101511	4.6	1
175	Novel Braceletlike BiSbX (X = S, Se) Monolayers with an In-Plane Negative Poisson's Ratio and Anisotropic Photoelectric Properties. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11353-11360	6.4	
174	Laser In Situ Preparation of S-doped Porous Graphene for Flexible Microsupercapacitors. <i>IEEE Electron Device Letters</i> , 2021 , 1-1	4.4	1
173	A highly sensitive dual-readout assay for perfluorinated compounds based CdTe quantum dots.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 269, 120753	4.4	0
172	Sc ₂ CF ₂ /Janus MoSSe heterostructure: A potential Z-scheme photocatalyst with ultra-high solar-to-hydrogen efficiency. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	4

171	Adsorption property of Co, Rh, and Pd-embedded g-C ₃ N ₄ monolayer to SO ₂ F ₂ gas. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 4790-4790	5.5	3
170	Sea urchin-like microstructure pressure sensors with an ultra-broad range and high sensitivity. <i>Nature Communications</i> , 2021 , 12, 1776	17.4	39
169	Au (n ₃ -n ₄) cluster doped MoSe ₂ nanosheet as a promising gas-sensing material for C ₂ H ₄ gas in oil-immersed transformer. <i>Applied Surface Science</i> , 2021 , 541, 148356	6.7	17
168	Adsorption property of CO, NO, and NO ₂ gas molecules on Co ₃ -MoSe ₂ monolayer. <i>Sensors and Actuators A: Physical</i> , 2021 , 319, 112547	3.9	4
167	Piezoelectricity of Janus Sb ₂ Se ₂ Te monolayers: A first-principles study. <i>Journal of Applied Physics</i> , 2021 , 129, 125109	2.5	8
166	Gas Sensor Based on Semihydrogenated and Semifluorinated h-BN for SF ₆ Decomposition Components Detection. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 1878-1885	2.9	6
165	. <i>IEEE Electron Device Letters</i> , 2021 , 42, 561-564	4.4	8
164	High sensitive and selective toxic gas sensor based on monolayer Tetra-MoN ₂ for sensing NO: A first-principles study. <i>Chemical Physics Letters</i> , 2021 , 769, 138359	2.5	0
163	Gas-sensing properties of Ptn-doped WSe ₂ to SF ₆ decomposition products. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 97, 452-459	6.3	24
162	A heterostructure of C ₃ N/h-BN with effectively regulated electronic properties by E-field and strain. <i>Chemical Physics Letters</i> , 2021 , 770, 138461	2.5	0
161	Optimal Cu paste thickness for large-area Cu-Cu joint. <i>Materials Letters</i> , 2021 , 291, 129533	3.3	1
160	Facile and Scalable Fabrication of High-Performance Microsupercapacitors Based on Laser-Scribed Heteroatom-Doped Porous Graphene. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22426-22437	9.5	11
159	Monolayer square-Ag ₂ X (X=Bi, Se): Excellent n-type thermoelectric materials with high power factors. <i>Applied Surface Science</i> , 2021 , 550, 149230	6.7	1
158	Gas-Sensing Properties of CuS-MoSe Nanosheets to NO and NH Gases. <i>ACS Omega</i> , 2021 , 6, 16517-16523	3.9	1
157	Adsorption properties of Ag ₂ O/MoSe ₂ towards SF ₆ decomposed products. <i>Vacuum</i> , 2021 , 189, 110248	3.7	10
156	Highly sensitive sensor based on ordered porous ZnO nanosheets for ethanol detecting application. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 128952	8.5	27
155	Graphene-based film heater fabricated by laser writing. <i>Materials Letters</i> , 2021 , 284, 128869	3.3	6
154	Monolayer h-BN/C ₃ B lateral heterostructures with promising electronic and optical properties: A first-principles study. <i>Chemical Physics</i> , 2021 , 541, 111042	2.3	0

153	Monolayer Janus TeSe-based gas sensor to detect SO and NO: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 1675-1683	3.6	6
152	Theoretical investigations of novel Janus PbSSe monolayer as a potential multifunctional material for piezoelectric, photovoltaic, and thermoelectric applications. <i>Nanoscale</i> , 2021 , 13, 15611-15623	7.7	5
151	Low-temperature Sintering of Cu/functionalized Multi-walled Carbon Nanotubes Composite Paste for Power Electronic Packaging. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	0
150	Effects of Defect and Temperature on the Mechanical Performance of WS ₂ : A Multiscale Analysis. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 2680-2690	3.8	3
149	A C ₂ N/ZnSe heterostructure with type-II band alignment and excellent photocatalytic water splitting performance. <i>New Journal of Chemistry</i> , 2021 , 45, 13571-13578	3.6	2
148	An Integrated Luminescent Information Encryption/Decryption and Anticounterfeiting Chip Based on Laser Induced Graphene. <i>Advanced Functional Materials</i> , 2021 , 31, 2103255	15.6	5
147	One-step laser fabrication of phosphorus-doped porous graphene electrodes for high-performance flexible microsupercapacitor. <i>Carbon</i> , 2021 , 180, 56-66	10.4	19
146	Co, Rh decorated GaNNTs for online monitoring of characteristic decomposition products in oil-immersed transformer. <i>Applied Surface Science</i> , 2021 , 561, 150072	6.7	2
145	Adsorption and gas sensing properties of CuO modified MoSe ₂ to C ₃ F ₇ CN decomposition products. <i>Materials Today Communications</i> , 2021 , 28, 102677	2.5	1
144	Adsorption and gas-sensing properties of C ₂ H ₄ , CH ₄ , H ₂ , H ₂ O on metal oxides (CuO, NiO) modified SnS ₂ monolayer: A DFT study. <i>Results in Physics</i> , 2021 , 28, 104680	3.7	4
143	Type-II AsP/Sc ₂ CO ₂ van der Waals heterostructure: an excellent photocatalyst for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 32882-32892	6.7	2
142	A DFT study of As doped WSe ₂ : A NO ₂ sensing material with ultra-high selectivity in the atmospheric environment. <i>Materials Today Communications</i> , 2021 , 28, 102654	2.5	2
141	Adsorption and sensing performances of ZnO-g-C ₃ N ₄ monolayer toward SF ₆ decomposition products. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 134, 114909	3	2
140	A novel Hf ₂ CO ₂ /WS ₂ van der Waals heterostructure as a potential candidate for overall water splitting photocatalyst. <i>Materials Science in Semiconductor Processing</i> , 2021 , 133, 105947	4.3	6
139	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 6329-6343	5.6	2
138	Electronic properties of Pt _n (n=14, 13, 15) nanoclusters decorated MoSe ₂ monolayer and its effect on C ₂ H ₂ adsorption: First principles study. <i>Applied Surface Science</i> , 2021 , 563, 150375	6.7	4
137	PbSnSeBased Gas Sensor to Detect SF ₆ Decompositions: DFT and NEGF Calculations. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 5322-5325	2.9	7
136	SWCNT-bridged laser-induced graphene fibers decorated with MnO ₂ nanoparticles for high-performance flexible micro-supercapacitors. <i>Carbon</i> , 2021 , 183, 128-137	10.4	11

135	Adsorption characteristics of H ₂ S, SO ₂ , SO ₂ F ₂ , SOF ₂ , and N ₂ on NiO/MoSe ₂ monolayer for gas-sensing applications. <i>Vacuum</i> , 2021 , 193, 110506	3.7	4
134	Laser synthesis of superhydrophilic O/S co-doped porous graphene derived from sodium lignosulfonate for enhanced microsupercapacitors. <i>Journal of Power Sources</i> , 2021 , 513, 230558	8.9	6
133	2D Tellurene: Increase sensitivity toward toxic cyanide molecules. <i>Vacuum</i> , 2021 , 194, 110619	3.7	1
132	Facile fabrication of rGO/LIG-based temperature sensor with high sensitivity. <i>Materials Letters</i> , 2021 , 304, 130637	3.3	4
131	Properties-enhanced gas sensor based on Cu-doped tellurene monolayer to detect acetone molecule: a first-principles study. <i>Molecular Physics</i> , 2021 , 119, e1864490	1.7	6
130	An investigation of the positive effects of doping an Al atom on the adsorption of CO on BN nanosheets: a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9368-9374	3.6	8
129	Highly Selective Adsorption on SiSe Monolayer and Effect of Strain Engineering: A DFT Study. <i>Sensors</i> , 2020 , 20,	3.8	2
128	Promoting Crystal Distribution Uniformity Based on the CVD Method with the Aid of Finite Element Methods. <i>Crystal Growth and Design</i> , 2020 , 20, 777-782	3.5	0
127	Improved Performance of Flexible Graphene Heater Based on Repeated Laser Writing. <i>IEEE Electron Device Letters</i> , 2020 , 41, 501-504	4.4	16
126	A theoretical study of TiMoSe ₂ as a noninvasive type-1 diabetes diagnosis material for detecting acetone from exhaled breath. <i>Vacuum</i> , 2020 , 182, 109729	3.7	5
125	A transcriptomic study of selenium against liver injury induced by beta-cypermethrin in mice by RNA-seq. <i>Functional and Integrative Genomics</i> , 2020 , 20, 343-353	3.8	2
124	Graphene oxide humidity sensor with laser-induced graphene porous electrodes. <i>Sensors and Actuators B: Chemical</i> , 2020 , 325, 128790	8.5	24
123	Tellurene Nanoflake-Based NO Sensors with Superior Sensitivity and a Sub-Parts-per-Billion Detection Limit. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47704-47713	9.5	24
122	A Monolayer Composite of h-BN Doped by a Nano Graphene Domain: As Sensitive Material for SO ₂ Gas Detection. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1404-1407	4.4	8
121	Controlling information duration on rewritable luminescent paper based on hybrid antimony (III) chloride/small-molecule absorbates. <i>Science Advances</i> , 2020 , 6,	14.3	21
120	The inactivation mechanism of chemical disinfection against SARS-CoV-2: from MD and DFT perspectives.. <i>RSC Advances</i> , 2020 , 10, 40480-40488	3.7	2
119	Integrated Sensing and Warning Multifunctional Devices Based on the Combined Mechanical and Thermal Effect of Porous Graphene. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53049-53057	9.5	5
118	Capacitance creep and recovery behavior of magnetorheological elastomers. <i>Journal of Intelligent Material Systems and Structures</i> , 2020 , 1045389X2096991	2.3	1

117	Tellurene based biosensor for detecting DNA/RNA nucleobases and amino acids: A theoretical insight. <i>Applied Surface Science</i> , 2020 , 532, 147451	6.7	13
116	High sensitivity gas sensor to detect SF6 decomposition components based on monolayer antimonide phosphorus. <i>Chemical Physics Letters</i> , 2020 , 756, 137868	2.5	9
115	Two-dimensional penta-SiAs ₂ : a potential metal-free photocatalyst for overall water splitting. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11980-11987	7.1	10
114	Recent advances in 2D/nanostructured metal sulfide-based gas sensors: mechanisms, applications, and perspectives. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24943-24976	13	33
113	Health Monitoring and Automatic Notification Device Based on Laser-Induced Graphene. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 4488-4492	2.9	2
112	High-performance humidity sensor using Schottky-contacted SnS nanoflakes for noncontact healthcare monitoring. <i>Nanotechnology</i> , 2020 , 31, 055501	3.4	19
111	Ultra-High Sensitive NO Gas Sensor Based on Tunable Polarity Transport in CVD-WS/IGZO p-N Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40850-40859	9.5	55
110	Design of 400 V Miniature DC Solid State Circuit Breaker with SiC MOSFET. <i>Micromachines</i> , 2019 , 10,	3.3	4
109	Excellent carrier mobility and opto/electronics performance material prediction: Focusing on single layer X ₂ Te ₃ (X = Sb, Bi). <i>Applied Surface Science</i> , 2019 , 491, 690-697	6.7	
108	Tunable electronic and optical properties of the WS/IGZO heterostructure via an external electric field and strain: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 14713-14721	3.6	3
107	SiAs ₂ /GeP ₂ heterostructure for solar cell: A first-principles calculation. <i>Chemical Physics Letters</i> , 2019 , 729, 65-68	2.5	3
106	ZnO/WSe ₂ vdW heterostructure for photocatalytic water splitting. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7104-7113	7.1	57
105	Hybrid Chloroantimonates(III): Thermally Induced Triple-Mode Reversible Luminescent Switching and Laser-Printable Rewritable Luminescent Paper. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9974-9978	16.4	81
104	Investigations of SiC VDMOSFET With Floating Island Structure Based on TCAD. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 2295-2300	2.9	2
103	SnSe monolayer: A promising candidate of SO ₂ sensor with high adsorption quantity. <i>Applied Surface Science</i> , 2019 , 484, 33-38	6.7	18
102	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 1154-1162	2.3	3
101	Monolayer Tellurene-Based Gas Sensor to Detect SF ₆ Decompositions: A First-Principles Study. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1522-1525	4.4	25
100	A DFT study of In doped Ti ₂ O: a superior NO ₂ gas sensor with selective adsorption and distinct optical response. <i>Applied Surface Science</i> , 2019 , 494, 162-169	6.7	15

99	A Dual-Functional Graphene-Based Self-Alarm Health-Monitoring E-Skin. <i>Advanced Functional Materials</i> , 2019 , 29, 1904706	15.6	51
98	Adsorption Behavior of Nucleobases on Doped MoS ₂ Monolayer: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30949-30957	3.8	17
97	Electronic structure and transport properties of 2D RhTeCl: a NEGF-DFT study. <i>Nanoscale</i> , 2019 , 11, 20461-20466	6.1	66
96	Reduced graphene-oxide transducers for biosensing applications beyond the Debye-screening limit. <i>Biosensors and Bioelectronics</i> , 2019 , 130, 352-359	11.8	10
95	Photothermal effects induced by surface plasmon resonance at graphene/gold nanointerfaces: A multiscale modeling study. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 470-477	11.8	10
94	Highly selective fluorescent visual detection of perfluorooctane sulfonate via blue fluorescent carbon dots and berberine chloride hydrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 207, 262-269	4.4	21
93	Superior Selectivity and Sensitivity of C ₃ N Sensor in Probing Toxic Gases NO ₂ and SO ₂ . <i>IEEE Electron Device Letters</i> , 2018 , 39, 284-287	4.4	77
92	Intriguing electronic insensitivity and high carrier mobility in monolayer hexagonal YN. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4943-4951	7.1	20
91	Two-dimensional penta-SnH monolayer for nanoelectronics and photocatalytic water splitting: a first-principles study.. <i>RSC Advances</i> , 2018 , 8, 11799-11806	3.7	3
90	Piezo-capacitive behavior of a magnetically structured particle-based conductive polymer with high sensitivity and a wide working range. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5401-5411	7.1	9
89	Tunable electronic properties of silicene/GaP heterobilayer: Effects of electric field or biaxial tensile strain. <i>Chemical Physics Letters</i> , 2018 , 700, 114-121	2.5	6
88	High Selective Gas Detection for small molecules based on Germanium selenide monolayer. <i>Applied Surface Science</i> , 2018 , 433, 575-581	6.7	37
87	Selective gas adsorption and I _V response of monolayer boron phosphide introduced by dopants: A first-principle study. <i>Applied Surface Science</i> , 2018 , 427, 176-188	6.7	29
86	Promoting sensitivity and selectivity of HCHO sensor based on strained InP ₃ monolayer: A DFT study. <i>Applied Surface Science</i> , 2018 , 459, 554-561	6.7	19
85	Novel GaN-based nanocomposites: Effective band structure and optical property tuning by tensile strain or external field. <i>Applied Surface Science</i> , 2018 , 427, 554-562	6.7	7
84	Design and Simulation of 1800V 40A 4H-SiC SBD Using TCAD 2018 ,		1
83	SiC MOSFET Threshold-Voltage Instability Under High Temperature Aging 2018 ,		3
82	Paper Title The Breakdown Voltage of AlGa _N /Ga _N HEMT is Restricted to The Structure Parameters of The Device: A Study Based on TCAD 2018 ,		1

81	Novel electronic structures and enhanced optical properties of boron phosphide/blue phosphorene and F4TCNQ/blue phosphorene heterostructures: a DFT + NEGF study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 28777-28785	3.6	9
80	Two dimensional XAs (X = Si, Ge, Sn) monolayers as promising photocatalysts for water splitting hydrogen production with high carrier mobility. <i>Applied Materials Today</i> , 2018 , 13, 276-284	6.6	32
79	Germanene on single-layer ZnSe substrate: novel electronic and optical properties. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16067-16076	3.6	13
78	One-Pot Hydrothermal Synthesis of Carbon Dots with Efficient Up- and Down-Converted Photoluminescence for the Sensitive Detection of Morin in a Dual-Readout Assay. <i>Langmuir</i> , 2017 , 33, 1043-1050	4	110
77	First-principles approach to design and evaluation of graphene as methane sensors. <i>Materials and Design</i> , 2017 , 119, 397-405	8.1	23
76	Adsorption of gas molecules on graphene-like InN monolayer: A first-principle study. <i>Applied Surface Science</i> , 2017 , 404, 291-299	6.7	94
75	Hybrid Plasmonics Slot THz Waveguide for Subwavelength Field Confinement and Crosstalk Between Two Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-5	3.8	7
74	Fluorosilicene/chlorosilicene bilayer semiconductor with tunable electronic and optical properties. <i>Journal of Applied Physics</i> , 2017 , 121, 055701	2.5	1
73	Adsorption of gases on monolayer GeSe: A first principle study 2017 ,		1
72	Preparation of magnetic molecularly imprinted polymers for the rapid and selective separation and enrichment of perfluorooctane sulfonate. <i>Journal of Separation Science</i> , 2017 , 40, 2819-2826	3.4	14
71	SnS monolayer as gas sensors: Insights from a first-principles investigation 2017 ,		3
70	Nitrogen Dioxide Gas Sensor Based on Monolayer SnS: A First-Principle Study. <i>IEEE Electron Device Letters</i> , 2017 , 38, 983-986	4.4	29
69	Sulfur Dioxide and Nitrogen Dioxide Gas Sensor Based on Arsenene: A First-Principle Study. <i>IEEE Electron Device Letters</i> , 2017 , 38, 661-664	4.4	55
68	Exploration of new ferromagnetic, semiconducting and biocompatible NbX (X = Cl, Br or I) monolayers with considerable visible and infrared light absorption. <i>Nanoscale</i> , 2017 , 9, 2992-3001	7.7	48
67	Color Shift Modeling of Light-Emitting Diode Lamps in Step-Loaded Stress Testing. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-14	1.8	5
66	AlN/BP Heterostructure Photocatalyst for Water Splitting. <i>IEEE Electron Device Letters</i> , 2017 , 38, 145-148	4.4	48
65	The intriguing electronic and optical properties modulation of hydrogen and fluorine codecorated silicene layers. <i>Applied Surface Science</i> , 2017 , 398, 73-80	6.7	9
64	First Principles Investigation of Small Molecules Adsorption on Antimonene. <i>IEEE Electron Device Letters</i> , 2017 , 38, 134-137	4.4	80

63	DFT coupled with NEGF study of ultra-sensitive HCN and HNC gases detection and distinct I-V response based on phosphorene. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 30852-30860	3.6	19
62	A Novel Ultra-Sensitive Nitrogen Dioxide Sensor Based on Germanium Monosulfide Monolayer. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1590-1593	4.4	16
61	Film-mulched maize production: response to controlled-release urea fertilization. <i>Journal of Agricultural Science</i> , 2017 , 155, 1299-1310	1	7
60	Considering the spin-orbit coupling effect on the photocatalytic performance of AlN/MX2 nanocomposites. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9412-9420	7.1	19
59	Overdriving reliability of chip scale packaged LEDs: Quantitatively analyzing the impact of component. <i>Microelectronics Reliability</i> , 2017 , 78, 197-204	1.2	2
58	Monolayer ZnS as a Promising Candidate for NH3 Sensor: A First-Principle Study. <i>IEEE Sensors Journal</i> , 2017 , 17, 6515-6521	4	8
57	Adsorption of Gas Molecules on Graphene-Like ZnO Nanosheets: The Roles of Gas Concentration, Layer Number, and Heterolayer. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700647	4.6	25
56	Arsenic Phosphorus Monolayer: A Promising Candidate for H2S Sensor and NO Degradation With High Sensitivity and Selectivity. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1321-1324	4.4	14
55	Numerical Thermal Analysis and Optimization of Multi-Chip LED Module Using Response Surface Methodology and Genetic Algorithm. <i>IEEE Access</i> , 2017 , 5, 16459-16468	3.5	8
54	A two-dimensional van der Waals CdS/germanene heterojunction with promising electronic and optoelectronic properties: DFT + NEGF investigations. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18330-18337	3.6	20
53	First-Principles Study of Nitric Oxide Sensor Based on Blue Phosphorus Monolayer. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1139-1142	4.4	18
52	Modelling for electric devices: Adsorption of polluted gases on g-ZnO monolayer 2017 ,		2
51	A promising two-dimensional channel material: monolayer antimonide phosphorus. <i>Science China Materials</i> , 2016 , 59, 648-656	7.1	22
50	Electrical and Optical Properties of Germanene on Single-Layer BeO Substrate. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20350-20356	3.8	39
49	Effects of stress-loading test methods on the degradation of light-emitting diode modules. <i>Microelectronics Reliability</i> , 2016 , 64, 635-639	1.2	2
48	Thermal degradation kinetics of LED lamps in step-up-stress and step-down-stress accelerated degradation testing. <i>Applied Thermal Engineering</i> , 2016 , 107, 918-926	5.8	15
47	Design of graphene-like gallium nitride and WS2/WSe2 nanocomposites for photocatalyst applications. <i>Science China Materials</i> , 2016 , 59, 1027-1036	7.1	53
46	Highly sensitive and selective detection of perfluorooctane sulfonate based on the Janus Green B resonance light scattering method. <i>Analytical Methods</i> , 2016 , 8, 8042-8048	3.2	16

45	2016,			1
44	Effect of multilayer structure, stacking order and external electric field on the electrical properties of few-layer boron-phosphide. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16229-36	3.6		53
43	Tuning the electronic properties and work functions of graphane/fully hydrogenated h-BN heterobilayers via heteronuclear dihydrogen bonding and electric field control. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16386-95	3.6		36
42	Ab Initio Study of the Adsorption of Small Molecules on Stanene. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13987-13994	3.8		113
41	A CMOS-Compatible Hybrid Plasmonic Slot Waveguide With Enhanced Field Confinement. <i>IEEE Electron Device Letters</i> , 2016 , 37, 456-458	4.4		13
40	A simple and highly sensitive assay of perfluorooctanoic acid based on resonance light scattering technique. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 159, 7-12	4.4		12
39	A hybrid prediction method on luminous flux maintenance of high-power LED lamps. <i>Applied Thermal Engineering</i> , 2016 , 95, 482-490	5.8		18
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