Yang Xu

List of Publications by Citations

Source: https://exaly.com/author-pdf/8688386/yang-xu-publications-by-citations.pdf

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. 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.

66 4,761 38 115 h-index g-index citations papers 5.88 5,876 10.3 135 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
115	Contacts between Two- and Three-Dimensional Materials: Ohmic, Schottky, and p-n Heterojunctions. <i>ACS Nano</i> , 2016 , 10, 4895-919	16.7	257
114	Three-dimensional macro-structures of two-dimensional nanomaterials. <i>Chemical Society Reviews</i> , 2016 , 45, 5541-5588	58.5	231
113	Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. <i>Nature Communications</i> , 2017 , 8, 278	17.4	225
112	Ultrastiff and Strong Graphene Fibers via Full-Scale Synergetic Defect Engineering. <i>Advanced Materials</i> , 2016 , 28, 6449-56	24	217
111	Plasmonic Silicon Quantum Dots Enabled High-Sensitivity Ultrabroadband Photodetection of Graphene-Based Hybrid Phototransistors. <i>ACS Nano</i> , 2017 , 11, 9854-9862	16.7	209
110	Graphene Coupled with Silicon Quantum Dots for High-Performance Bulk-Silicon-Based Schottky-Junction Photodetectors. <i>Advanced Materials</i> , 2016 , 28, 4912-9	24	163
109	Catalyst-Free Thermoset Polyurethane with Permanent Shape Reconfigurability and Highly Tunable Triple-Shape Memory Performance. <i>ACS Macro Letters</i> , 2017 , 6, 326-330	6.6	154
108	Dynamic Covalent Polymer Networks: A Molecular Platform for Designing Functions beyond Chemical Recycling and Self-Healing. <i>Chemical Reviews</i> , 2021 , 121, 1716-1745	68.1	152
107	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	144
106	Fast response and high sensitivity ZnO/glass surface acoustic wave humidity sensors using graphene oxide sensing layer. <i>Scientific Reports</i> , 2014 , 4, 7206	4.9	115
105	Ab initio study of electronic and optical behavior of two-dimensional silicon carbide. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2131	7.1	111
104	Solar-Blind Photodetector with High Avalanche Gains and Bias-Tunable Detecting Functionality Based on Metastable Phase & GaO/ZnO Isotype Heterostructures. <i>ACS Applied Materials & ACS Applied Materials & Interfaces</i> , 2017 , 9, 36997-37005	9.5	106
103	Broadband optoelectronic synaptic devices based on silicon nanocrystals for neuromorphic computing. <i>Nano Energy</i> , 2018 , 52, 422-430	17.1	97
102	Flexible surface acoustic wave resonators built on disposable plastic film for electronics and lab-on-a-chip applications. <i>Scientific Reports</i> , 2013 , 3, 2140	4.9	94
101	Titania nanowires functionalized polyester fabrics with enhanced photocatalytic and antibacterial performances. <i>Journal of Hazardous Materials</i> , 2018 , 343, 285-297	12.8	92
100	Pushing the Performance Limit of Sub-100 nm Molybdenum Disulfide Transistors. <i>Nano Letters</i> , 2016 , 16, 6337-6342	11.5	91
99	Mechanical properties of nickel-graphene composites synthesized by electrochemical deposition. <i>Nanotechnology</i> , 2015 , 26, 065706	3.4	91

(2014-2018)

98	A high performance humidity sensor based on surface acoustic wave and graphene oxide on AlN/Si layered structure. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 2454-2461	8.5	83
97	High sensitivity flexible Lamb-wave humidity sensors with a graphene oxide sensing layer. <i>Nanoscale</i> , 2015 , 7, 7430-6	7.7	80
96	Experimental demonstration of a free-space cylindrical cloak without superluminal propagation. <i>Physical Review Letters</i> , 2012 , 109, 223903	7.4	79
95	High-performance silicon-graphene hybrid plasmonic waveguide photodetectors beyond 1.55 fb. <i>Light: Science and Applications</i> , 2020 , 9, 29	16.7	77
94	Multifunctional wearable smart device based on conductive reduced graphene oxide/polyester fabric. <i>Applied Surface Science</i> , 2018 , 454, 218-226	6.7	76
93	A Broadband Fluorographene Photodetector. <i>Advanced Materials</i> , 2017 , 29, 1700463	24	72
92	In-plane and tunneling pressure sensors based on graphene/hexagonal boron nitride heterostructures. <i>Applied Physics Letters</i> , 2011 , 99, 133109	3.4	65
91	Facile Synthesis of 🛭 n Se Nanoflowers toward High Performance Self-Powered Broadband 🗓 n Se /Si Heterojunction Photodiode. <i>Small</i> , 2017 , 13, 1604033	11	56
90	Interface coupling in graphene/fluorographene heterostructure for high-performance graphene/silicon solar cells. <i>Nano Energy</i> , 2016 , 28, 12-18	17.1	55
89	Graphene Hybrid Structures for Integrated and Flexible Optoelectronics. <i>Advanced Materials</i> , 2020 , 32, e1902039	24	53
88	Trap Assisted Bulk Silicon Photodetector with High Photoconductive Gain, Low Noise, and Fast Response by Ag Hyperdoping. <i>Advanced Optical Materials</i> , 2018 , 6, 1700638	8.1	49
87	Monolayer graphene/hexagonal boron nitride heterostructure. <i>Carbon</i> , 2013 , 54, 396-402	10.4	49
86	High-Speed and High-Responsivity Hybrid Silicon/Black-Phosphorus Waveguide Photodetectors at 2 IIm. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1900032	8.3	48
85	High quality graphene films with a clean surface prepared by an UV/ozone assisted transfer process. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1880-1884	7.1	47
84	Solvent-Based Soft-Patterning of Graphene Lateral Heterostructures for Broadband High-Speed MetalBemiconductorMetal Photodetectors. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600241	6.8	43
83	Low-chirp high-extinction-ratio modulator based on graphene-silicon waveguide. <i>Optics Letters</i> , 2013 , 38, 2512-5	3	43
82	Direct formation of wafer-scale single-layer graphene films on the rough surface substrate by PECVD. <i>Carbon</i> , 2018 , 129, 456-461	10.4	43
81	Local and nonlocal optically induced transparency effects in graphene-silicon hybrid nanophotonic integrated circuits. <i>ACS Nano</i> , 2014 , 8, 11386-93	16.7	42

80	Electromechanical robustness of monolayer graphene with extreme bending. <i>Applied Physics Letters</i> , 2010 , 97, 223102	3.4	42
79	Designing an Efficient Multimode Environmental Sensor Based on GrapheneBilicon Heterojunction. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600262	6.8	38
78	Highly Narrow-Band Polarization-Sensitive Solar-Blind Photodetectors Based on EGaO Single Crystals. <i>ACS Applied Materials & Acs Applied & Acs A</i>	9.5	38
77	Light-Driven WSe-ZnO Junction Field-Effect Transistors for High-Performance Photodetection. <i>Advanced Science</i> , 2020 , 7, 1901637	13.6	36
76	Ab initio optical study of graphene on hexagonal boron nitride and fluorographene substrates. Journal of Materials Chemistry C, 2013 , 1, 1618	7.1	35
75	A high-quality round-shaped monolayer MoS2 domain and its transformation. <i>Nanoscale</i> , 2016 , 8, 219-2	25 7.7	34
74	. IEEE Transactions on Electron Devices, 2019 , 66, 2276-2281	2.9	33
73	Unidirectional surface plasmons in nonreciprocal graphene. <i>New Journal of Physics</i> , 2013 , 15, 113003	2.9	33
72	Room-temperature valleytronic transistor. <i>Nature Nanotechnology</i> , 2020 , 15, 743-749	28.7	33
71	Tunable THz Multiband Frequency-Selective Surface Based on Hybrid Metal@raphene Structures. IEEE Nanotechnology Magazine, 2017, 16, 1132-1137	2.6	32
7°	Facile synthesis of hybrid nanorods with the Sb2Se3/AgSbSe2 heterojunction structure for high performance photodetectors. <i>Nanoscale</i> , 2016 , 8, 2277-83	7.7	32
69	Physical models for coupled electromechanical analysis of silicon nanoelectromechanical systems. Journal of Applied Physics, 2005, 97, 114304	2.5	31
68	Monolithic Full-Stokes Near-Infrared Polarimetry with Chiral Plasmonic Metasurface Integrated Graphene-Silicon Photodetector. <i>ACS Nano</i> , 2020 ,	16.7	30
67	Graphene interconnects fully encapsulated in layered insulator hexagonal boron nitride. Nanotechnology, 2013 , 24, 355202	3.4	28
66	Ultraviolet dielectric hyperlens with layered graphene and boron nitride. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15863		28
65	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges <i>Chemical Reviews</i> , 2022 ,	68.1	28
64	Improved Slow Light Capacity In Graphene-based Waveguide. Scientific Reports, 2015, 5, 15335	4.9	27
63	Defect symmetry influence on electronic transport of zigzag nanoribbons. <i>Nanoscale Research Letters</i> , 2011 , 6, 254	5	27

(2018-2012)

Exploring carrier transport phenomena in a CVD-assembled graphene FET on hexagonal boron nitride. <i>Nanotechnology</i> , 2012 , 23, 125706	3.4	24	
Nanoplasmonically Enhanced High-Performance Metastable Phase EGaO Solar-Blind Photodetectors. <i>ACS Applied Materials & Discreta (Materials & Materials & Materials</i>	9.5	21	
Enhancement of charge photo-generation and transport via an internal network of Sb2Se3/Cu2GeSe3 heterojunctions. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17099-17106	13	21	
Electronic structures of multilayer two-dimensional silicon carbide with oriented misalignment. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9057-9062	7.1	20	
Flexible Dielectric Nanocomposites with Ultrawide Zero-Temperature Coefficient Windows for Electrical Energy Storage and Conversion under Extreme Conditions. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 7591-7600	9.5	19	
Plasmon Excited Ultrahot Carriers and Negative Differential Photoresponse in a Vertical Graphene van der Waals Heterostructure. <i>Nano Letters</i> , 2019 , 19, 3295-3304	11.5	19	
Bendable ZnO thin film surface acoustic wave devices on polyethylene terephthalate substrate. <i>Applied Physics Letters</i> , 2014 , 104, 213504	3.4	18	
Interference coordination strategy based on Nash bargaining for small-cell networks. <i>IET Communications</i> , 2015 , 9, 1583-1590	1.3	17	
Ab initio study of energy-band modulation in graphene-based two-dimensional layered superlattices. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23821		17	
Single-electron transport in graphene-like nanostructures. <i>Physics Reports</i> , 2017 , 669, 1-42	27.7	16	
Illumination-Induced Hole Doping for Performance Improvement of Graphene/n-Silicon Solar Cells with P3HT Interlayer. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600516	6.4	15	
Identifying the stacking order of multilayer graphene grown by chemical vapor deposition via Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 46-53	2.3	15	
High-performance, flexible graphene/ultra-thin silicon ultra-violet image sensor 2017,		15	
Development of flexible ZnO thin film surface acoustic wave strain sensors on ultrathin glass substrates. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 115005	2	15	
Approaching the Collection Limit in Hot Electron Transistors with Ambipolar Hot Carrier Transport. <i>ACS Nano</i> , 2019 , 13, 14191-14197	16.7	15	
All-Two-Dimensional-Material Hot Electron Transistor. <i>IEEE Electron Device Letters</i> , 2018 , 39, 634-637	4.4	14	
Transition of photoconductive and photovoltaic operation modes in amorphous Ga 2 O 3 -based solar-blind detectors tuned by oxygen vacancies. <i>Chinese Physics B</i> , 2019 , 28, 028501	1.2	13	
A high performance broadband photodetector based on (SnxSb1\)2Se3 nanorods with enhanced electrical conductivity. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11078-11085	7.1	13	
	nitride. Nanotechnology, 2012, 23, 125706 Nanoplasmonically Enhanced High-Performance Metastable Phase ICaO Solar-Blind Photodetectors. ACS Applied Materials & Amp; Interfaces, 2019, 11, 40283-40289 Enhancement of charge photo-generation and transport via an internal network of Sb25e3/Cu2GeSe3 heterojunctions. Journal of Materials Chemistry A, 2014, 2, 17099-17106 Electronic structures of multilayer two-dimensional silicon carbide with oriented misalignment. Journal of Materials Chemistry C, 2015, 3, 9057-9062 Flexible Dielectric Nanocomposites with Ultrawide Zero-Temperature Coefficient Windows for Electrical Energy Storage and Conversion under Extreme Conditions. ACS Applied Materials & Amp; Interfaces, 2017, 9, 7591-7600 Plasmon Excited Ultrahot Carriers and Negative Differential Photoresponse in a Vertical Graphene van der Waals Heterostructure. Nano Letters, 2019, 19, 3295-3304 Bendable ZnO thin film surface acoustic wave devices on polyethylene terephthalate substrate. Applied Physics Letters, 2014, 104, 213504 Interference coordination strategy based on Nash bargaining for small-cell networks. IET Communications, 2015, 9, 1583-1590 Ab initio study of energy-band modulation in graphene-based two-dimensional layered superlattices. Journal of Materials Chemistry, 2012, 22, 23821 Single-electron transport in graphene-like nanostructures. Physics Reports, 2017, 669, 1-42 Illumination-Induced Hole Doping for Performance Improvement of Graphene/n-Silicon Solar Cells with P3HT Interlayer. Advanced Electronic Materials, 2017, 3, 1600516 Identifying the stacking order of multilayer graphene grown by chemical vapor deposition via Raman spectroscopy. Journal of Raman Spectroscopy, 2018, 49, 46-53 High-performance, flexible graphene/ultra-thin silicon ultra-violet image sensor 2017, Development of flexible ZnO thin film surface acoustic wave strain sensors on ultrathin glass substrates. Journal of Microenchanics and Microengineering, 2015, 25, 115005 Abjornal of Physics Letters, 2018, 39, 634-637 Trans	Nanoplasmonically Enhanced High-Performance Metastable Phase Bao Solar-Blind Photodetectors. ACS Applied Materials & Amps; Interfaces, 2019, 11, 40283-40289 9.5 Enhancement of charge photo-generation and transport via an internal network of Sb2Se3/Cu2GeSe3 heterojunctions. Journal of Materials Chemistry A, 2014, 2, 17099-17106 13 Electronic structures of multilayer two-dimensional silicon carbide with oriented misalignment. Journal of Materials Chemistry G, 2015, 3, 9057-9062 7.1 Flexible Dielectric Nanocomposites with Ultrawide Zero-Temperature Coefficient Windows for Electrical Energy Storage and Conversion under Extreme Conditions. ACS Applied Materials & Amp; Interfaces, 2017, 9, 7591-7600 9.5 Plasmon Excited Ultrahot Carriers and Negative Differential Photoresponse in a Vertical Graphene van der Waals Heterostructure. Nano Letters, 2019, 19, 3295-3304 11.5 Bendable ZnO thin Film surface acoustic wave devices on polyethylene terephthalate substrate. Applied Physics Letters, 2014, 104, 213504 3.4 Interference coordination strategy based on Nash bargaining for small-cell networks. IET Communications, 2015, 9, 1583-1590 1.3 Ab initio study of energy-band modulation in graphene-based two-dimensional layered superlattices. Journal of Materials Chemistry, 2012, 22, 23821 1.3 Single-electron transport in graphene-like nanostructures. Physics Reports, 2017, 669, 1-42 27.7 Illumination-Induced Hole Doping for Performance Improvement of Graphene/n-Silicon Solar Cells with P3HT Interlayer. Advanced Electronic Materials, 2017, 3, 1600516 6.4 Identifying the stacking order of multilayer graphene grown by chemical vapor deposition via Raman spectroscopy. Journal of Materials Chemistry, 2012, 2018, 49, 46-53 1.5 High-performance, flexible graphene/ultra-thin silicon ultra-violet image sensor 2017, Development of flexible ZnO thin film surface acoustic wave strain sensors on ultrathin glass substrates. Journal of Micromechanics and Microengineering, 2015, 25, 115005 2.3 Approaching the Collection Limit in Hot E	Nanoplasmonically Enhanced High-Performance Metastable Phase ETaO Solar-Blind Photodetectors. ACS Applied Materials Ramp; Interfaces, 2019, 14, 140283-40289 9.5 21 Enhancement of charge photo-generation and transport via an internal network of Sb25e3/Cu2GeSe3 heterojunctions. Journal of Materials Chemistry A, 2014, 2, 17099-17106 13 27 Electronic structures of multilayer two-dimensional silicon carbide with oriented misalignment. Journal of Materials Chemistry C, 2015, 3, 9057-9062 Flexible Dielectric Nanocomposites with Ultrawide Zero-Temperature Coefficient Windows for Electrical Energy Storage and Conversion under Extreme Conditions. ACS Applied Materials Ramp; Interfaces, 2017, 9, 7591-7600 Plasmon Excited Ultrahot Carriers and Negative Differential Photoresponse in a Vertical Graphene van der Waals Heterostructure. Nano Letters, 2019, 19, 3295-3304 Bendable ZnO thin film surface acoustic wave devices on polyethylene terephthalate substrate. Applied Physics Letters, 2014, 104, 213504 Interference coordination strategy based on Nash bargaining for small-cell networks. IET Communications, 2015, 9, 1583-1590 Ab initio study of energy-band modulation in graphene-based two-dimensional layered superlattices. Journal of Materials Chemistry, 2012, 22, 23821 Single-electron transport in graphene-like nanostructures. Physics Reports, 2017, 669, 1-42 27, 16 Identifying the stacking order of multilayer graphene grown by chemical vapor deposition via Raman spectroscopy. Journal of Raman Spectroscopy, 2018, 49, 46-53 Approaching the Stacking order of multilayer graphene grown by chemical vapor deposition via Raman spectroscopy. Journal of Raman Spectroscopy, 2018, 49, 46-53 Approaching the Collection Limit in Hot Electron Transistors with Ambipolar Hot Carrier Transport. ACS Nano, 2019, 13, 14191-14197 All-Two-Dimensional-Material Hot Electron Transistors with Ambipolar Hot Carrier Transport. ACS Nano, 2019, 13, 14191-14197 All-Two-Dimensional-Material Hot Electron Transistors. IEEE Electron Device Letters,

44	3-D graphene aerogel sphere-based flexible sensors for healthcare applications. <i>Sensors and Actuators A: Physical</i> , 2020 , 312, 112144	3.9	12
43	Multiscale electrostatic analysis of silicon nanoelectromechanical systems (NEMS) via heterogeneous quantum models. <i>Physical Review B</i> , 2008 , 77,	3.3	12
42	Carbon nanotube screening effects on the water-ion channels. <i>Applied Physics Letters</i> , 2008 , 93, 43122	3.4	12
41	A non-contact graphene surface scattering rate characterization method at microwave frequency by combining Raman spectroscopy and coaxial connectors measurement. <i>Carbon</i> , 2014 , 77, 53-58	10.4	10
40	Layered insulator hexagonal boron nitride for surface passivation in quantum dot solar cell. <i>Applied Physics Letters</i> , 2013 , 103, 243904	3.4	10
39	Hybrid Structure of Silicon Nanocrystals and 2D WSe2 for Broadband Optoelectronic Synaptic Devices 2018 ,		10
38	Bidirectional mid-infrared communications between two identical macroscopic graphene fibres. <i>Nature Communications</i> , 2020 , 11, 6368	17.4	9
37	Logic Inverter Implemented with CVD-Assembled Graphene FET on Hexagonal Boron Nitride. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 619-623	2.6	9
36	Electronic transport in monolayer graphene with extreme physical deformation: ab initio density functional calculation. <i>Nanotechnology</i> , 2011 , 22, 365202	3.4	8
35	Ultrafast Digital Fabrication of Designable Architectured Liquid Crystalline Elastomer. <i>Advanced Materials</i> , 2021 , 33, e2105597	24	8
34	On-Chip Measurement of Photoluminescence with High Sensitivity Monolithic Spectrometer. <i>Advanced Optical Materials</i> , 2020 , 8, 2000191	8.1	7
33	Flexible and Transparent Surface Acoustic Wave Microsensors and Microfluidics. <i>Procedia Engineering</i> , 2015 , 120, 717-720		7
32	Adaptive biasing scheme for load balancing in backhaul constrained small cell networks. <i>IET Communications</i> , 2015 , 9, 999-1005	1.3	7
31	Carbon-based interconnect: Performance, scaling and reliability of 3D stacked multilayer graphene system 2011 ,		7
30	Micron-Scale Photodetectors Based on One-Dimensional Single-Crystalline Sb2\(\mathbb{B}\)SnxSe3 Microrods: Simultaneously Improving Responsivity and Extending Spectral Response Region. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 810-816	3.8	7
29	Anion Engineering Enhanced Response Speed and Tunable Spectral Responsivity in Gallium-Oxynitrides-Based Ultraviolet Photodetectors. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 808-81	64	6
28	A novel fabrication method of silicon nano-needles using MEMS TMAH etching techniques. <i>Nanotechnology</i> , 2011 , 22, 125301	3.4	6
27	Detection of defective DNA in carbon nanotubes by combined molecular dynamics/tight-binding technique. <i>Applied Physics Letters</i> , 2009 , 95, 113116	3.4	6

(2012-2009)

26	Pull-in/out analysis of nano/microelectromechanical switches with defective oxide layers. <i>Applied Physics Letters</i> , 2009 , 95, 073112	3.4	6
25	Combined semiclassical and effective-mass Schrdinger approach for multiscale analysis of semiconductor nanostructures. <i>Physical Review B</i> , 2007 , 76,	3.3	6
24	Transparent origami glass. <i>Nature Communications</i> , 2021 , 12, 4261	17.4	6
23	Light-induced negative differential resistance in gate-controlled graphene-silicon photodiode. <i>Applied Physics Letters</i> , 2018 , 112, 201109	3.4	6
22	Silicon-graphene photonic devices. <i>Journal of Semiconductors</i> , 2018 , 39, 061009	2.3	5
21	Reconfigurable Parallel Plasmonic Transmission Lines With Nanometer Light Localization and Long Propagation Distance. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 4601809-460180	o∂ ^{.8}	5
20	Graphene/silicon-quantum-dots/Si Schottky-PN cascade heterojunction for short-wavelength infrared photodetection 2017 ,		5
19	Fluorinated graphene and hexagonal boron nitride as ALD seed layers for graphene-based van der Waals heterostructures. <i>Nanotechnology</i> , 2014 , 25, 355202	3.4	5
18	Electronic transport anisotropy of buckling graphene under uniaxial compressive strain: Ab initio study. <i>Applied Physics Letters</i> , 2012 , 100, 052111	3.4	5
17	Ab initioelectronic transport study of two-dimensional silicon carbide-based pl junctions. <i>Journal of Semiconductors</i> , 2017 , 38, 033002	2.3	4
16	Visible-NIR Photodetectors Based on Low-Dimensional GeSe Micro-Crystals: Designed Morphology and Improved Photoresponsivity. <i>ChemPhysChem</i> , 2020 , 21, 397-405	3.2	4
15	Tailoring atomic structure to control the electronic transport in zigzag graphene nanoribbon. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 3277-3280	2.3	3
14	Quantum-squeezing effects of strained multilayer graphene NEMS. <i>Nanoscale Research Letters</i> , 2011 , 6, 355	5	3
13	Broadband Graphene Field-Effect Coupled Detectors: from Soft X-ray to Near-Infrared. <i>IEEE Electron Device Letters</i> , 2022 , 1-1	4.4	3
12	Photodetectors: Solvent-Based Soft-Patterning of Graphene Lateral Heterostructures for Broadband High-Speed MetalBemiconductorMetal Photodetectors (Adv. Mater. Technol. 2/2017). Advanced Materials Technologies, 2017, 2,	6.8	2
11	2015,		2
10	A design of SPDT switch using graphene device 2015 ,		2
9	Linear and Nonlinear Optical Absorption of on-chip Silicon-on-insulator Nanowires with Graphene 2012 ,		2

8	2018,		2	
7	Photodetectors: A Broadband Fluorographene Photodetector (Adv. Mater. 22/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1	
6	Quantum and thermo-mechanical noise squeezing in nanoresonators: A comparative study. <i>Applied Physics Letters</i> , 2012 , 100, 023105	3.4	1	
5	UV curable micro-structured shape memory epoxy with tunable performance. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51319	2.9	1	
4	Sharp Silicon Nano-Needles Based on Boron Etch-Stop in TMAH Solutions. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1301, 225			
3	CVD-Graphene Complementary Logic on Ultra-thin Multilayer Hexagonal Boron Nitride. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1407, 151			
2	Twist angle dependent absorption feature induced by interlayer rotations in CVD bilayer graphene. <i>Nanophotonics</i> , 2021 , 10, 2695-2703	6.3		
1	Graphene photonic crystal fiber with large modulation depth. <i>Science China Chemistry</i> , 2020 , 63, 5-6	7.9		