

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3728093/shi-sheng-lin-publications-by-citations.pdf>  
**Version:** 2024-04-10

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.

97 papers	3,276 citations	34 h-index	54 g-index
99 ext. papers	3,776 ext. citations	7.1 avg, IF	5.42 L-index

#	Paper	IF	Citations
97	Light-Emitting Two-Dimensional Ultrathin Silicon Carbide. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 3951-3955	3.8	207
96	18.5% efficient graphene/GaAs van der Waals heterostructure solar cell. <i>Nano Energy</i> , <b>2015</b> , 16, 310-319	17.1	145
95	ZnO nanotube-based dye-sensitized solar cell and its application in self-powered devices. <i>Nanotechnology</i> , <b>2010</b> , 21, 405203	3.4	143
94	p-type behavior in Na-doped ZnO films and ZnO homojunction light-emitting diodes. <i>Solid State Communications</i> , <b>2008</b> , 148, 25-28	1.6	134
93	Triboelectrification-Induced Large Electric Power Generation from a Single Moving Droplet on Graphene/Polytetrafluoroethylene. <i>ACS Nano</i> , <b>2016</b> , 10, 7297-302	16.7	112
92	Ab initio study of electronic and optical behavior of two-dimensional silicon carbide. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 2131	7.1	111
91	Graphene-Piezoelectric Material Heterostructure for Harvesting Energy from Water Flow. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604226	15.6	89
90	Monolayer MoS <sub>2</sub> /GaAs heterostructure self-driven photodetector with extremely high detectivity. <i>Nano Energy</i> , <b>2016</b> , 23, 89-96	17.1	87
89	Interface designed MoS <sub>2</sub> /GaAs heterostructure solar cell with sandwich stacked hexagonal boron nitride. <i>Scientific Reports</i> , <b>2015</b> , 5, 15103	4.9	87
88	Graphene/h-BN/GaAs sandwich diode as solar cell and photodetector. <i>Optics Express</i> , <b>2016</b> , 24, 134-45	3.3	81
87	Quasi-Two-Dimensional SiC and SiC <sub>2</sub> : Interaction of Silicon and Carbon at Atomic Thin Lattice Plane. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 19772-19779	3.8	74
86	Gap-Mode Surface-Plasmon-Enhanced Photoluminescence and Photoresponse of MoS. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706527	24	74
85	Opening the band gap of graphene through silicon doping for the improved performance of graphene/GaAs heterojunction solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 226-32	7.7	70
84	High performance graphene/semiconductor van der Waals heterostructure optoelectronic devices. <i>Nano Energy</i> , <b>2017</b> , 40, 122-148	17.1	67
83	Silicene oxides: formation, structures and electronic properties. <i>Scientific Reports</i> , <b>2013</b> , 3, 3507	4.9	60
82	Phosphorus doped Zn(1-x)Mg(x)O nanowire arrays. <i>Nano Letters</i> , <b>2009</b> , 9, 3877-82	11.5	59
81	Enhanced performance of a graphene/GaAs self-driven near-infrared photodetector with upconversion nanoparticles. <i>Nanoscale</i> , <b>2018</b> , 10, 8023-8030	7.7	57

80	Broadband surface plasmon resonance enhanced self-powered graphene/GaAs photodetector with ultrahigh detectivity. <i>Nano Energy</i> , <b>2018</b> , 47, 140-149	17.1	51
79	A circuit method to integrate metamaterial and graphene in absorber design. <i>Optics Communications</i> , <b>2014</b> , 329, 76-80	2	51
78	The Interaction between Quantum Dots and Graphene: The Applications in Graphene-Based Solar Cells and Photodetectors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804712	15.6	50
77	A High Current Density Direct-Current Generator Based on a Moving van der Waals Schottky Diode. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804398	24	47
76	Na doping concentration tuned conductivity of ZnO films via pulsed laser deposition and electroluminescence from ZnO homojunction on silicon substrate. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 155114	3	45
75	Gate tunable monolayer MoS <sub>2</sub> /InP heterostructure solar cells. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 153904	3.4	44
74	Tunable graphene/indium phosphide heterostructure solar cells. <i>Nano Energy</i> , <b>2015</b> , 13, 509-517	17.1	43
73	Electrical tuning of surface plasmon polariton propagation in graphene-nanowire hybrid structure. <i>ACS Nano</i> , <b>2014</b> , 8, 2584-9	16.7	43
72	Co-harvesting Light and Mechanical Energy Based on Dynamic Metal/Perovskite Schottky Junction. <i>Matter</i> , <b>2019</b> , 1, 639-649	12.7	41
71	Graphene based two dimensional hybrid nanogenerator for concurrently harvesting energy from sunlight and water flow. <i>Carbon</i> , <b>2016</b> , 105, 199-204	10.4	41
70	Direct-Current Generator Based on Dynamic PN Junctions with the Designed Voltage Output. <i>IScience</i> , <b>2019</b> , 22, 58-69	6.1	41
69	Immunomodulatory properties of graphene oxide for osteogenesis and angiogenesis. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 5799-5810	7.3	41
68	Negative Thermal Quenching Behavior and Long Luminescence Lifetime of Surface-State Related Green Emission in ZnO Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 14262-14265	3.8	39
67	Graphene coated ZnO nanowire optical waveguides. <i>Optics Express</i> , <b>2014</b> , 22, 24276-85	3.3	37
66	Mechanism of Na-doped p-type ZnO films: Suppressing Na interstitials by codoping with H and Na of appropriate concentrations. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 093508	2.5	37
65	ZnO quantum dot-doped graphene/h-BN/GaN-heterostructure ultraviolet photodetector with extremely high responsivity. <i>Nanotechnology</i> , <b>2016</b> , 27, 48LT03	3.4	36
64	Identifying individual n- and p-type ZnO nanowires by the output voltage sign of piezoelectric nanogenerator. <i>Nanotechnology</i> , <b>2009</b> , 20, 365703	3.4	34
63	Tunable deep-subwavelength superscattering using graphene monolayers. <i>Optics Letters</i> , <b>2015</b> , 40, 1651-4	3.4	33

62	Single-Crystalline Sodium-Doped p-Type ZnO and ZnMgO Nanowires via Combination of Thin-Film and Nano Techniques. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 19018-19022	3.8	33
61	Stable 16.2% Efficient Surface Plasmon-Enhanced Graphene/GaAs Heterostructure Solar Cell. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600822	21.8	31
60	The influence of morphologies and doping of nanostructured ZnO on the field emission behaviors. <i>Solid-State Electronics</i> , <b>2009</b> , 53, 578-583	1.7	30
59	Temperature effect on the electrical, structural and optical properties of N-doped ZnO films by plasma-free metal organic chemical vapor deposition. <i>Applied Surface Science</i> , <b>2009</b> , 255, 6201-6204	6.7	29
58	Graphene/h-BN/ZnO van der Waals tunneling heterostructure based ultraviolet photodetector. <i>Optics Express</i> , <b>2015</b> , 23, 18864-71	3.3	28
57	Surface States Enhanced Dynamic Schottky Diode Generator with Extremely High Power Density Over 1000 W m. <i>Advanced Science</i> , <b>2019</b> , 6, 1901925	13.6	28
56	Two dimensional graphene nanogenerator by coulomb dragging: Moving van der Waals heterostructure. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 243903	3.4	26
55	Dynamic fatigue studies of ZnO nanowires by in-situ transmission electron microscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2009</b> , 3, 260-262	2.5	25
54	Temperature-dependent photoluminescence and photoluminescence excitation of aluminum monodoped and aluminum-indium dual-doped ZnO nanorods. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 114307	3.5	25
53	Surface plasmon enhanced graphene/p-GaN heterostructure light-emitting-diode by Ag nano-particles. <i>Nano Energy</i> , <b>2016</b> , 30, 362-367	17.1	24
52	A General Approach for Fabricating Arc-Shaped Composite Nanowire Arrays by Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 703-707	15.6	24
51	Enhanced monolayer MoS <sub>2</sub> /InP heterostructure solar cells by graphene quantum dots. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 163901	3.4	24
50	Quasi-industrially produced large-area microscale graphene flakes assembled film with extremely high thermoelectric power factor. <i>Nano Energy</i> , <b>2019</b> , 58, 63-68	17.1	23
49	Two-dimensional molybdenum disulfide (MoS <sub>2</sub> ) with gold nanoparticles for biosensing of explosives by optical spectroscopy. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 261, 279-287	8.5	22
48	Graphene induced mode bifurcation at low input power. <i>Carbon</i> , <b>2016</b> , 98, 463-467	10.4	21
47	Robust low resistivity p-type ZnO:Na films after ultraviolet illumination: The elimination of grain boundaries. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 122109	3.4	21
46	Synthesis of vertically aligned Al-doped ZnO nanorods array with controllable Al concentration. <i>Materials Letters</i> , <b>2008</b> , 62, 603-606	3.3	21
45	Electronic structures of multilayer two-dimensional silicon carbide with oriented misalignment. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 9057-9062	7.1	20

44	Design of Ultracompact Graphene-Based Superscatterers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2017</b> , 23, 130-137	3.8	19
43	Large-Scale Far-Infrared Invisibility Cloak Hiding Object from Thermal Detection. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 1738-1742	8.1	19
42	Atomically thin spherical shell-shaped superscatterers based on a Bohr model. <i>Nanotechnology</i> , <b>2015</b> , 26, 505201	3.4	19
41	Tunable Dynamic Black Phosphorus/Insulator/Si Heterojunction Direct-Current Generator Based on the Hot Electron Transport. <i>Research</i> , <b>2019</b> , 2019, 5832382	7.8	19
40	Ab initio study of energy-band modulation in graphene-based two-dimensional layered superlattices. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23821		17
39	Negative thermal quenching of photoluminescence in zinc oxide nanowire-core/graphene-shell complexes. <i>Optics Express</i> , <b>2012</b> , 20 Suppl 5, A706-12	3.3	16
38	Development of flexible ZnO thin film surface acoustic wave strain sensors on ultrathin glass substrates. <i>Journal of Micromechanics and Microengineering</i> , <b>2015</b> , 25, 115005	2	15
37	Graphene/p-AlGaIn/p-GaN electron tunnelling light emitting diodes with high external quantum efficiency. <i>Nano Energy</i> , <b>2019</b> , 60, 836-840	17.1	14
36	. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 3760-3766	2.9	14
35	Graphene/CdTe heterostructure solar cell and its enhancement with photo-induced doping. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 191106	3.4	14
34	Interfacial Built-In Electric Field-Driven Direct Current Generator Based on Dynamic Silicon Homo Junction. <i>Research</i> , <b>2020</b> , 2020, 5714754	7.8	14
33	Polarized Water Driven Dynamic PN Junction-Based Direct-Current Generator. <i>Research</i> , <b>2021</b> , 2021, 7505638	7.8	14
32	Realization of deep subwavelength resolution with singular media. <i>Scientific Reports</i> , <b>2014</b> , 4, 5212	4.9	13
31	Vertically aligned smooth ZnO nanorod films for planar device applications. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 2525	7.1	13
30	Unintentional doping induced splitting of G peak in bilayer graphene. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 233110	3.4	13
29	Determination of the free exciton energy in ZnO nanorods from photoluminescence excitation spectroscopy. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 013511	2.5	13
28	Catalyst-free synthesis of vertically aligned screw-shape InZnO nanorods array. <i>Journal of Crystal Growth</i> , <b>2007</b> , 306, 339-343	1.6	11
27	Multi-type quantum dots photo-induced doping enhanced graphene/semiconductor solar cell. <i>RSC Advances</i> , <b>2017</b> , 7, 33413-33418	3.7	11

26	Donor/acceptor doping and electrical tailoring in ZnO quantum dots. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 112110	3.4	10
25	The fabrication of Na doped p-type Zn <sub>1-x</sub> Mg <sub>x</sub> O films by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 106, 191-196	2.6	9
24	Broadband subwavelength imaging using non-resonant metamaterials. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 073502	3.4	9
23	Room-temperature electroluminescence of p-Zn <sub>x</sub> Mg <sub>1-x</sub> O:Na/n-ZnO p <i>n</i> junction light emitting diode. <i>Journal of Semiconductors</i> , <b>2009</b> , 30, 081001	2.3	9
22	Photoluminescence properties of ZnO nanoneedles grown by metal organic chemical vapor deposition. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 064311	2.5	9
21	Graphene/Semiconductor Heterostructure Wireless Energy Harvester through Hot Electron Excitation. <i>Research</i> , <b>2020</b> , 2020, 3850389	7.8	8
20	Green light-emitting diode based on graphene-ZnO nanowire van der Waals heterostructure. <i>Frontiers of Optoelectronics</i> , <b>2016</b> , 9, 87-92	2.8	7
19	Zero-dimensional field emitter based on ZnO quantum dots. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 143102	3.4	7
18	Unexpected optical response of single ZnO nanowires probed using controllable electrical contacts. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 6931-5	3.6	7
17	Fabrication and post-anneal activation of p-type ZnMgO:Li film using dc reactive magnetron sputtering. <i>Materials Letters</i> , <b>2008</b> , 62, 2554-2556	3.3	7
16	Gate tunable surface plasmon resonance enhanced graphene/Ag nanoparticles-polymethyl methacrylate/graphene/p-GaN heterostructure light-emitting diodes. <i>Optics Express</i> , <b>2018</b> , 26, 25257-25264	3.3	7
15	Free-space carpet cloak using transformation optics and graphene. <i>Optics Letters</i> , <b>2014</b> , 39, 6739-42	3	6
14	A synergetic enhancement of localized surface plasmon resonance and photo-induced effect for graphene/GaAs photodetector. <i>Nanotechnology</i> , <b>2019</b> , 31, 105204	3.4	6
13	Direct Current Electricity Generation from Dynamic Polarized Water/Semiconductor Interface. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 14180-14187	3.8	6
12	A meta-substrate to enhance the bandwidth of metamaterials. <i>Scientific Reports</i> , <b>2014</b> , 4, 5264	4.9	5
11	THREE-DIMENSIONAL POLYHEDRAL INVISIBLE CLOAK CONSISTING OF HOMOGENEOUS MATERIALS. <i>Progress in Electromagnetics Research</i> , <b>2013</b> , 142, 31-40	3.8	5
10	Dynamic Schottky Diode Direct-Current Generator under Extremely Low Temperature. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2105325	15.6	5
9	Ab initio electronic transport study of two-dimensional silicon carbide-based p <i>n</i> junctions. <i>Journal of Semiconductors</i> , <b>2017</b> , 38, 033002	2.3	4

8	Dynamics and physical process of hot carriers in optoelectronic devices. <i>Nano Energy</i> , <b>2022</b> , 95, 106977	17.1	4
7	Photonic transport in a graphene van der Waals homojunction. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10879-10885	7.1	3
6	Wind driven semiconductor electricity generator with high direct current output based on a dynamic Schottky junction.. <i>RSC Advances</i> , <b>2021</b> , 11, 19106-19112	3.7	3
5	Hot Carrier Transport and Carrier Multiplication Induced High Performance Vertical Graphene/Silicon Dynamic Diode Generator. <i>Advanced Science</i> , 2200642	13.6	2
4	MAGNETIZED PLASMA AS A VERSATILE PLATFORM FOR SWITCHING. <i>Progress in Electromagnetics Research</i> , <b>2015</b> , 151, 119-125	3.8	1
3	Van der Waals contacted MoO staked ZnO/GaN vertical heterostructured ultraviolet light emitting diodes. <i>Optics Express</i> , <b>2020</b> , 28, 31603-31610	3.3	1
2	Van der Waals Integrated Silicon/Graphene/AlGaIn Based Vertical Heterostructured Hot Electron Light Emitting Diodes. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	1
1	High-Performance Graphene/GaInP Solar Cell Prepared by Interfacial Chemical Modification with Poly(3,4-Ethylenedioxythiophene):Poly(styrenesulfonate). <i>Energy Technology</i> , <b>2021</b> , 9, 2100122	3.5	1