

Jun-Peng Lu

List of Publications by Citations

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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.

78
papers

1,959
citations

25
h-index

42
g-index

82
ext. papers

2,415
ext. citations

10.5
avg, IF

5.06
L-index

#	Paper	IF	Citations
78	Atomic healing of defects in transition metal dichalcogenides. <i>Nano Letters</i> , 2015 , 15, 3524-32	11.5	147
77	Bandgap Engineering of Phosphorene by Laser Oxidation toward Functional 2D Materials. <i>ACS Nano</i> , 2015 , 9, 10411-21	16.7	102
76	Microlandscaping of Au nanoparticles on few-layer MoS ₂ films for chemical sensing. <i>Small</i> , 2015 , 11, 1792-800	11	102
75	Improved photoelectrical properties of MoS ₂ films after laser micromachining. <i>ACS Nano</i> , 2014 , 8, 6334-6343	16.7	94
74	Defect Engineering for Modulating the Trap States in 2D Photoconductors. <i>Advanced Materials</i> , 2018 , 30, e1804332	24	90
73	Ultrafast Electrochemical Expansion of Black Phosphorus toward High-Yield Synthesis of Few-Layer Phosphorene. <i>Chemistry of Materials</i> , 2018 , 30, 2742-2749	9.6	89
72	Engineering Bandgaps of Monolayer MoS ₂ and WS ₂ on Fluoropolymer Substrates by Electrostatically Tuned Many-Body Effects. <i>Advanced Materials</i> , 2016 , 28, 6457-64	24	89
71	Light-Matter Interactions in Phosphorene. <i>Accounts of Chemical Research</i> , 2016 , 49, 1806-15	24.3	89
70	Hybrid Bilayer WSe ₂ -CH ₃ NH ₃ PbI ₃ Organolead Halide Perovskite as a High-Performance Photodetector. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11945-9	16.4	71
69	Fluorescence Concentric Triangles: A Case of Chemical Heterogeneity in WS ₂ Atomic Monolayer. <i>Nano Letters</i> , 2016 , 16, 5559-67	11.5	70
68	Metamaterials based on the phase transition of VO. <i>Nanotechnology</i> , 2018 , 29, 024002	3.4	57
67	Defect Activated Photoluminescence in WSe ₂ Monolayer. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12294-12299	3.8	53
66	Interactions between lasers and two-dimensional transition metal dichalcogenides. <i>Chemical Society Reviews</i> , 2016 , 45, 2494-515	58.5	49
65	Defect Engineering in 2D Materials: Precise Manipulation and Improved Functionalities. <i>Research</i> , 2019 , 2019, 4641739	7.8	46
64	High-performance position-sensitive detector based on graphene/silicon heterojunction. <i>Optica</i> , 2018 , 5, 27	8.6	43
63	Hybrid Bilayer WSe ₂ /CH ₃ NH ₃ PbI ₃ Organolead Halide Perovskite as a High-Performance Photodetector. <i>Angewandte Chemie</i> , 2016 , 128, 12124-12128	3.6	41
62	Highly sensitive and multispectral responsive phototransistor using tungsten-doped VO ₂ nanowires. <i>Nanoscale</i> , 2014 , 6, 7619-27	7.7	36

61	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. <i>Advanced Materials</i> , 2018 , 30, e1801931	24	35
60	Enhanced Photoresponse from Phosphorene-Phosphorene-Suboxide Junction Fashioned by Focused Laser Micromachining. <i>Advanced Materials</i> , 2016 , 28, 4090-6	24	35
59	Microsteganography on WS Monolayers Tailored by Direct Laser Painting. <i>ACS Nano</i> , 2017 , 11, 713-720	16.7	31
58	Ultrasensitive Phototransistor Based on K-Enriched MoO ₃ Single Nanowires. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22015-22020	3.8	31
57	The Role of Oxygen Atoms on Excitons at the Edges of Monolayer WS. <i>Nano Letters</i> , 2019 , 19, 4641-4650	11.5	28
56	Giant Emission Enhancement of Solid-State Gold Nanoclusters by Surface Engineering. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8270-8276	16.4	28
55	Fast Photoelectric Conversion in the Near-Infrared Enabled by Plasmon-Induced Hot-Electron Transfer. <i>Advanced Materials</i> , 2019 , 31, e1903829	24	26
54	Optical and electrical applications of ZnS(x)Se(1-x) nanowires-network with uniform and controllable stoichiometry. <i>Nanoscale</i> , 2012 , 4, 976-81	7.7	26
53	Graphene-Based Infrared Position-Sensitive Detector for Precise Measurements and High-Speed Trajectory Tracking. <i>Nano Letters</i> , 2019 , 19, 8132-8137	11.5	23
52	Direct laser pruning of CdS(x)Se1-x nanobelts en route to a multicolored pattern with controlled functionalities. <i>ACS Nano</i> , 2012 , 6, 8298-307	16.7	23
51	Gate-Tunable Polar Optical Phonon to Piezoelectric Scattering in Few-Layer Bi ₂ O ₃ Se for High-Performance Thermoelectrics. <i>Advanced Materials</i> , 2021 , 33, e2004786	24	23
50	Layer-number dependent and structural defect related optical properties of InSe. <i>RSC Advances</i> , 2017 , 7, 54964-54968	3.7	22
49	Sulfur-Mastery: Precise Synthesis of 2D Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019 , 29, 1809261	15.6	21
48	Composition-dependent ultra-high photoconductivity in ternary CdS _x Se _{1-x} nanobelts as measured by optical pump-terahertz probe spectroscopy. <i>Nano Research</i> , 2013 , 6, 808-821	10	21
47	Photocurrent Response in Multiwalled Carbon Nanotube Core/Molybdenum Disulfide Shell Heterostructures. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24588-24596	3.8	20
46	Defect Heterogeneity in Monolayer WS ₂ Unveiled by Work Function Variance. <i>Chemistry of Materials</i> , 2019 , 31, 7970-7978	9.6	19
45	Defect Engineering in CdS _x Se _{1-x} Nanobelts: An Insight into Carrier Relaxation Dynamics via Optical Pump-Terahertz Probe Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26036-26042	3.8	19
44	Transient Photoconductivity of Ternary CdSSe Nanobelts As Measured by Time-Resolved Terahertz Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12379-12384	3.8	17

43	Negative terahertz photoconductivity in 2D layered materials. <i>Nanotechnology</i> , 2017 , 28, 464001	3.4	16
42	How defects influence the photoluminescence of TMDCs. <i>Nano Research</i> , 2021 , 14, 29-39	10	15
41	One-dimensional nanostructures of II-VI ternary alloys: synthesis, optical properties, and applications. <i>Nanoscale</i> , 2018 , 10, 17456-17476	7.7	15
40	A critical review on the carrier dynamics in 2D layered materials investigated using THz spectroscopy. <i>Optics Communications</i> , 2018 , 406, 24-35	2	14
39	Thermal transport and energy dissipation in two-dimensional Bi ₂ O ₂ Se. <i>Applied Physics Letters</i> , 2019 , 115, 193103	3.4	13
38	Bi ₂ O ₂ Se/BP van der Waals heterojunction for high performance broadband photodetector. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	13
37	Ultrasensitive graphene-Si position-sensitive detector for motion tracking. <i>Information Materials</i> , 2020 , 2, 761-768	23.1	11
36	Ultra-high photoconductivity of bandgap-graded CdS _x Se _{1-x} nanowires probed by terahertz spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 27387	4.9	11
35	Exciton dynamics in tungsten dichalcogenide monolayers. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 17877-17882	3.6	10
34	High-Performance Graphene-Based Electrostatic Field Sensor. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1136-1138	4.4	10
33	Behavior and Modeling of Ultra-High Performance Concrete-Filled FRP Tubes Under Cyclic Axial Compression. <i>Journal of Composites for Construction</i> , 2020 , 24, 04020045	3.3	10
32	Temperature and composition dependence of photoluminescence dynamics in CdS _x Se _{1-x} (0 ≤ x ≤ 1) nanobelts. <i>Journal of Applied Physics</i> , 2012 , 111, 073112	2.5	9
31	Electrochemically Exfoliated Platinum Dichalcogenide Atomic Layers for High-Performance Air-Stable Infrared Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8518-8527	9.5	9
30	Composition-dependent electron transport in CdS(x)Se(1-x) nanobelts: a THz spectroscopy study. <i>Optics Letters</i> , 2014 , 39, 567-70	3	8
29	A Focused Laser Beam: A Useful and Versatile Tool for 1D Nanomaterials Research: A Review. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 616-629	9.1	7
28	Giant Emission Enhancement of Solid-State Gold Nanoclusters by Surface Engineering. <i>Angewandte Chemie</i> , 2020 , 132, 8347-8353	3.6	7
27	Laser modified ZnO/CdSSe core-shell nanowire arrays for Micro-Steganography and improved photoconduction. <i>Scientific Reports</i> , 2014 , 4, 6350	4.9	7
26	Interfacial charge transfer in WS ₂ monolayer/CsPbBr ₃ microplate heterostructure. <i>Frontiers of Physics</i> , 2018 , 13, 1	3.7	6

25	Chemical Vapor Deposition Growth of Large-Areas Two-Dimensional Materials: Approaches and Mechanisms. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021 , 0-0	0.6	5
24	Defect-related dynamics of photoexcited carriers in 2D transition metal dichalcogenides. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 8222-8235	3.6	5
23	Enriched Fluorescence Emission from WS ₂ Monoflake Empowered by Au Nanoexplorers. <i>Advanced Optical Materials</i> , 2017 , 5, 1700156	8.1	4
22	Controllable n-type doping in WSe ₂ monolayer via construction of anion vacancies. <i>Chinese Chemical Letters</i> , 2021 , 32, 3118-3118	8.1	4
21	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS ₂ Monolayers. <i>Advanced Functional Materials</i> , 2021 , 31, 2103140	15.6	4
20	Direct visualization of irreducible ferrielectricity in crystals. <i>Npj Quantum Materials</i> , 2020 , 5,	5	3
19	Competition between Oxygen Curing and Ion Migration in MAPbI ₃ Induced by Irradiation Exposure. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8477-8482	6.4	3
18	Multispectral photodetectors based on 2D material/CsBiI ₂ heterostructures with high detectivity. <i>Nanotechnology</i> , 2021 , 32,	3.4	3
17	Phosphorene: Enhanced Photoresponse from Phosphorene-Phosphorene-Suboxide Junction Fashioned by Focused Laser Micromachining (Adv. Mater. 21/2016). <i>Advanced Materials</i> , 2016 , 28, 4164	24	3
16	Ultrasensitive graphene position-sensitive detector induced by synergistic effects of charge injection and interfacial gating. <i>Nanophotonics</i> , 2020 , 9, 2531-2536	6.3	2
15	Excitonic Emission in Atomically Thin Electroluminescent Devices. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000587	8.3	2
14	Modulation of THz radiation via enhanced Dirac plasmon-dual phonon interaction. <i>Applied Physics Letters</i> , 2019 , 115, 251109	3.4	2
13	Position-sensitive detectors based on two-dimensional materials. <i>Nano Research</i> , 2021 , 14, 1889-1900	10	2
12	Highly Sensitive Mid-Infrared Photodetector Enabled by Plasmonic Hot Carriers in the First Atmospheric Window. <i>Chinese Physics Letters</i> , 2022 , 39, 058501	1.8	2
11	Photoluminescence enhancement at a high generation rate induced by exciton localization. <i>Optics Letters</i> , 2021 , 46, 2774-2777	3	1
10	Tunable self-trapped excitons in 2D layered rubrene. <i>Applied Physics Letters</i> , 2021 , 118, 253103	3.4	1
9	Tuning photoresponse of graphene-black phosphorus heterostructure by electrostatic gating and photo-induced doping. <i>Chinese Chemical Letters</i> , 2021 , 33, 368-368	8.1	1
8	Spectroscopic Perception of Trap States on the Performance of Methylammonium and Formamidinium Lead Iodide Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2102241	24	1

7	Potassium Iodide Doping Strategy for High-Efficiency Perovskite Solar Cells Revealed by Ultrafast Spectroscopy.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 711-717	6.4	o
6	Thermoelectric Materials: Gate-Tunable Polar Optical Phonon to Piezoelectric Scattering in Few-Layer Bi ₂ O ₂ Se for High-Performance Thermoelectrics (Adv. Mater. 4/2021). <i>Advanced Materials</i> , 2021 , 33, 2170023	24	o
5	Correlated Dynamics of Free and Self-Trapped Excitons and Broadband Photodetection in BEA 2 PbBr 4 Layered Crystals. <i>Advanced Optical Materials</i> , 2200223	8.1	o
4	Resonance Raman scattering on graded-composition W _x Mo _{1-x} S ₂ alloy with tunable excitons. <i>Applied Physics Letters</i> , 2022 , 120, 172104	3.4	o
3	Black Phosphorus: Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization (Adv. Mater. 43/2018). <i>Advanced Materials</i> , 2018 , 30, 1870325	24	
2	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS ₂ Monolayers (Adv. Funct. Mater. 36/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170267	15.6	
1	Aggregation-Dependent Dielectric Permittivity in 2D Molecular Crystals.. <i>Small Methods</i> , 2022 , e2101198	2.8	