Jun-Peng Lu

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.

78	1,959	25	42
papers	citations	h-index	g-index
82	2,415	10.5	5.06
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
78	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
77	Aggregation-Dependent Dielectric Permittivity in 2D Molecular Crystals Small Methods, 2022, e21011	982.8	
76	Resonance Raman scattering on graded-composition WxMo1\(\mathbb{\text{IS}}\)22 alloy with tunable excitons. <i>Applied Physics Letters</i> , 2022 , 120, 172104	3.4	O
75	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
74	Controllable n-type doping in WSe2 monolayer via construction of anion vacancies. <i>Chinese Chemical Letters</i> , 2021 , 32, 3118-3118	8.1	4
73	Bi2O2Se/BP van der Waals heterojunction for high performance broadband photodetector. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	13
72	Photoluminescence enhancement at a high generation rate induced by exciton localization. <i>Optics Letters</i> , 2021 , 46, 2774-2777	3	1
71	Excitonic Emission in Atomically Thin Electroluminescent Devices. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000587	8.3	2
70	Tunable self-trapped excitons in 2D layered rubrene. <i>Applied Physics Letters</i> , 2021 , 118, 253103	3.4	1
69	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS2 Monolayers. <i>Advanced Functional Materials</i> , 2021 , 31, 2103140	15.6	4
68	Multispectral photodetectors based on 2D material/CsBilheterostructures with high detectivity. <i>Nanotechnology</i> , 2021 , 32,	3.4	3
67	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
66	Position-sensitive detectors based on two-dimensional materials. <i>Nano Research</i> , 2021 , 14, 1889-1900	10	2
65	Gate-Tunable Polar Optical Phonon to Piezoelectric Scattering in Few-Layer Bi O Se for High-Performance Thermoelectrics. <i>Advanced Materials</i> , 2021 , 33, e2004786	24	23
64	How defects influence the photoluminescence of TMDCs. <i>Nano Research</i> , 2021 , 14, 29-39	10	15
63	Thermoelectric Materials: Gate-Tunable Polar Optical Phonon to Piezoelectric Scattering in Few-Layer Bi2O2Se for High-Performance Thermoelectrics (Adv. Mater. 4/2021). <i>Advanced Materials</i> , 2021 , 33, 2170023	24	О
62	Chemical Vapor Deposition Growth of Large-Areas Two-Dimensional Materials: Approaches and Mechanisms. Wuli Xuebao/Acta Physica Sinica, 2021, 0-0	0.6	5

61	Electrochemically Exfoliated Platinum Dichalcogenide Atomic Layers for High-Performance Air-Stable Infrared Photodetectors. <i>ACS Applied Materials & District Amplied Materials & District & District & District & District & District & District & Dist</i>	9.5	9
60	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
59	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS2 Monolayers (Adv. Funct. Mater. 36/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170267	15.6	
58	Defect-related dynamics of photoexcited carriers in 2D transition metal dichalcogenides. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 8222-8235	3.6	5
57	Ultrasensitive graphene-Si position-sensitive detector for motion tracking. <i>Informa</i> Materilly, 2020 , 2, 761-768	23.1	11
56	Giant Emission Enhancement of Solid-State Gold Nanoclusters by Surface Engineering. <i>Angewandte Chemie</i> , 2020 , 132, 8347-8353	3.6	7
55	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
54	Direct visualization of irreducible ferrielectricity in crystals. <i>Npj Quantum Materials</i> , 2020 , 5,	5	3
53	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
52	Competition between Oxygen Curing and Ion Migration in MAPbI Induced by Irradiation Exposure. Journal of Physical Chemistry Letters, 2020 , 11, 8477-8482	6.4	3
51	Giant Emission Enhancement of Solid-State Gold Nanoclusters by Surface Engineering. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8270-8276	16.4	28
50	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
49	The Role of Oxygen Atoms on Excitons at the Edges of Monolayer WS. <i>Nano Letters</i> , 2019 , 19, 4641-465	Q 1.5	28
48	Sulfur-Mastery: Precise Synthesis of 2D Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019 , 29, 1809261	15.6	21
47	Defect Heterogeneity in Monolayer WS2 Unveiled by Work Function Variance. <i>Chemistry of Materials</i> , 2019 , 31, 7970-7978	9.6	19
46	Thermal transport and energy dissipation in two-dimensional Bi2O2Se. <i>Applied Physics Letters</i> , 2019 , 115, 193103	3.4	13
45	Fast Photoelectric Conversion in the Near-Infrared Enabled by Plasmon-Induced Hot-Electron Transfer. <i>Advanced Materials</i> , 2019 , 31, e1903829	24	26
44	Defect Engineering in 2D Materials: Precise Manipulation and Improved Functionalities. <i>Research</i> , 2019 , 2019, 4641739	7.8	46

43	Modulation of THz radiation via enhanced Dirac plasmon-dual phonon interaction. <i>Applied Physics Letters</i> , 2019 , 115, 251109	3.4	2
42	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
41	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
40	High-performance position-sensitive detector based on grapheneBilicon heterojunction. <i>Optica</i> , 2018 , 5, 27	8.6	43
39	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. <i>Advanced Materials</i> , 2018 , 30, e1801931	24	35
38	Interfacial charge transfer in WS2 monolayer/CsPbBr3 microplate heterostructure. <i>Frontiers of Physics</i> , 2018 , 13, 1	3.7	6
37	Metamaterials based on the phase transition of VO. <i>Nanotechnology</i> , 2018 , 29, 024002	3.4	57
36	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	
35	One-dimensional nanostructures of II-VI ternary alloys: synthesis, optical properties, and applications. <i>Nanoscale</i> , 2018 , 10, 17456-17476	7.7	15
34	Defect Engineering for Modulating the Trap States in 2D Photoconductors. <i>Advanced Materials</i> , 2018 , 30, e1804332	24	90
34			
	2018 , 30, e1804332		
33	2018, 30, e1804332 Microsteganography on WS Monolayers Tailored by Direct Laser Painting. ACS Nano, 2017, 11, 713-720 Defect Activated Photoluminescence in WSe2 Monolayer. Journal of Physical Chemistry C, 2017,	16.7	31
33	2018, 30, e1804332 Microsteganography on WS Monolayers Tailored by Direct Laser Painting. ACS Nano, 2017, 11, 713-720 Defect Activated Photoluminescence in WSe2 Monolayer. Journal of Physical Chemistry C, 2017, 121, 12294-12299 Enriched Fluorescence Emission from WS2 Monoflake Empowered by Au Nanoexplorers. Advanced	16.7 3.8	31 53
33 32 31	Microsteganography on WS Monolayers Tailored by Direct Laser Painting. ACS Nano, 2017, 11, 713-720 Defect Activated Photoluminescence in WSe2 Monolayer. Journal of Physical Chemistry C, 2017, 121, 12294-12299 Enriched Fluorescence Emission from WS2 Monoflake Empowered by Au Nanoexplorers. Advanced Optical Materials, 2017, 5, 1700156	16.7 3.8 8.1	31534
33 32 31 30	Microsteganography on WS Monolayers Tailored by Direct Laser Painting. ACS Nano, 2017, 11, 713-720 Defect Activated Photoluminescence in WSe2 Monolayer. Journal of Physical Chemistry C, 2017, 121, 12294-12299 Enriched Fluorescence Emission from WS2 Monoflake Empowered by Au Nanoexplorers. Advanced Optical Materials, 2017, 5, 1700156 Negative terahertz photoconductivity in 2D layered materials. Nanotechnology, 2017, 28, 464001 Exciton dynamics in tungsten dichalcogenide monolayers. Physical Chemistry Chemical Physics, 2017	16.7 3.8 8.1	3153416
33 32 31 30 29	Microsteganography on WS Monolayers Tailored by Direct Laser Painting. ACS Nano, 2017, 11, 713-720 Defect Activated Photoluminescence in WSe2 Monolayer. Journal of Physical Chemistry C, 2017, 121, 12294-12299 Enriched Fluorescence Emission from WS2 Monoflake Empowered by Au Nanoexplorers. Advanced Optical Materials, 2017, 5, 1700156 Negative terahertz photoconductivity in 2D layered materials. Nanotechnology, 2017, 28, 464001 Exciton dynamics in tungsten dichalcogenide monolayers. Physical Chemistry Chemical Physics, 2017, 19, 17877-17882 High-Performance Graphene-Based Electrostatic Field Sensor. IEEE Electron Device Letters, 2017,	16.7 3.8 8.1 3.4 3.6	31 53 4 16

(2013-2016)

25	Hybrid Bilayer WSe2th3NH3PbI3 Organolead Halide Perovskite as a High-Performance Photodetector. <i>Angewandte Chemie</i> , 2016 , 128, 12124-12128	3.6	41
24	Engineering Bandgaps of Monolayer MoS2 and WS2 on Fluoropolymer Substrates by Electrostatically Tuned Many-Body Effects. <i>Advanced Materials</i> , 2016 , 28, 6457-64	24	89
23	Interactions between lasers and two-dimensional transition metal dichalcogenides. <i>Chemical Society Reviews</i> , 2016 , 45, 2494-515	58.5	49
22	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
21	Enhanced Photoresponse from Phosphorene-Phosphorene-Suboxide Junction Fashioned by Focused Laser Micromachining. <i>Advanced Materials</i> , 2016 , 28, 4090-6	24	35
20	Light-Matter Interactions in Phosphorene. Accounts of Chemical Research, 2016, 49, 1806-15	24.3	89
19	Hybrid Bilayer WSe2 -CH3 NH3 PbI3 Organolead Halide Perovskite as a High-Performance Photodetector. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11945-9	16.4	71
18	Fluorescence Concentric Triangles: A Case of Chemical Heterogeneity in WS2 Atomic Monolayer. <i>Nano Letters</i> , 2016 , 16, 5559-67	11.5	70
17	Atomic healing of defects in transition metal dichalcogenides. <i>Nano Letters</i> , 2015 , 15, 3524-32	11.5	147
16	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
15	Photocurrent Response in Multiwalled Carbon Nanotube CoreMolybdenum Disulfide Shell Heterostructures. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24588-24596	3.8	20
14	Bandgap Engineering of Phosphorene by Laser Oxidation toward Functional 2D Materials. <i>ACS Nano</i> , 2015 , 9, 10411-21	16.7	102
13	Microlandscaping of Au nanoparticles on few-layer MoS2 films for chemical sensing. <i>Small</i> , 2015 , 11, 1792-800	11	102
12	Highly sensitive and multispectral responsive phototransistor using tungsten-doped VO2 nanowires. <i>Nanoscale</i> , 2014 , 6, 7619-27	7.7	36
11	Improved photoelectrical properties of MoS(2) films after laser micromachining. ACS Nano, 2014, 8, 633	4 : 	94
10	Laser modified ZnO/CdSSe core-shell nanowire arrays for Micro-Steganography and improved photoconduction. <i>Scientific Reports</i> , 2014 , 4, 6350	4.9	7
9	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
8	Composition-dependent ultra-high photoconductivity in ternary CdS x Se1 I nanobelts as measured by optical pump-terahertz probe spectroscopy. <i>Nano Research</i> , 2013 , 6, 808-821	10	21

7	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	
6	Defect Engineering in CdSxSe1 Nanobelts: An Insight into Carrier Relaxation Dynamics via Optical Pump Perahertz Probe Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26036-26042	3.8	19	
5	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	
4	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	
3	Ultrasensitive Phototransistor Based on K-Enriched MoO3 Single Nanowires. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22015-22020	3.8	31	
2	Temperature and composition dependence of photoluminescence dynamics in CdSxSe1团 (0 ៤ 回) nanobelts. <i>Journal of Applied Physics</i> , 2012 , 111, 073112	2.5	9	
1	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	О	