

# Yupeng Zhang

## List of Publications by Year in descending order

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papers

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50276

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87  
docs citations

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times ranked

15441  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the dynamic structural changes of DNA using ultrafast laser pulse in graphene-based optofluidic device. <i>Informa Mater</i> , 2021, 3, 316-326.	17.3	4
2	Overcoming the Electroluminescence Efficiency Limitations in Quantum Dot Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2019, 7, 1900695.	7.3	26
3	Robust Above-Room-Temperature Ferromagnetism in Few-Layer Antimonene Triggered by Nonmagnetic Adatoms. <i>Advanced Functional Materials</i> , 2019, 29, 1808746.	14.9	38
4	Engineering ultrafast charge transfer in a bismuthene/perovskite nanohybrid. <i>Nanoscale</i> , 2019, 11, 2637-2643.	5.6	51
5	Emerging two-dimensional monoelemental materials (Xenes) for biomedical applications. <i>Chemical Society Reviews</i> , 2019, 48, 2891-2912.	38.1	482
6	Ferroelectric-Driven Exciton and Trion Modulation in Monolayer Molybdenum and Tungsten Diselenides. <i>ACS Nano</i> , 2019, 13, 5335-5343.	14.6	61
7	Superior Magnetoresistance Performance of Hybrid Graphene Foam/Metal Sulfide Nanocrystal Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 19397-19403.	8.0	26
8	Flexible photodetectors based on reticulated SWNT/perovskite quantum dot heterostructures with ultrahigh durability. <i>Nanoscale</i> , 2019, 11, 8020-8026.	5.6	30
9	Graphene Heterostructure Integrated Optical Fiber Bragg Grating for Light Motion Tracking and Ultrabroadband Photodetection from 400 nm to 10.768 $\mu\text{m}$ . <i>Advanced Functional Materials</i> , 2019, 29, 1807274.	14.9	26
10	Short-Chain Ligand-Passivated Stable $\text{CsPb}_3$ Quantum Dot for All-Inorganic Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1900991.	14.9	216
11	Photonics and optoelectronics using nano-structured hybrid perovskite media and their optical cavities. <i>Physics Reports</i> , 2019, 795, 1-51.	25.6	303
12	Structure optimization of perovskite quantum dot light-emitting diodes. <i>Nanoscale</i> , 2019, 11, 5021-5029.	5.6	48
13	Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. <i>Nature Communications</i> , 2019, 10, 28.	12.8	475
14	Ultrathin GeSe Nanosheets: From Systematic Synthesis to Studies of Carrier Dynamics and Applications for a High-Performance UV-Vis Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 4278-4287.	8.0	105
15	Strong Depletion in Hybrid Perovskite $\text{n}$ Junctions Induced by Local Electronic Doping. <i>Advanced Materials</i> , 2018, 30, e1705792.	21.0	141
16	Reliable Synthesis of Large-Area Monolayer $\text{WS}_2$ Single Crystals, Films, and Heterostructures with Extraordinary Photoluminescence Induced by Water Intercalation. <i>Advanced Optical Materials</i> , 2018, 6, 1701347.	7.3	28
17	Band Structure Engineering in 2D Materials for Optoelectronic Applications. <i>Advanced Materials Technologies</i> , 2018, 3, 1800072.	5.8	78
18	In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal. <i>Nature</i> , 2018, 562, 557-562.	27.8	506

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19	Photonics and Optoelectronics of 2D Metal-Halide Perovskites. <i>Small</i> , 2018, 14, e1800682.	10.0	168
20	Ytterbium-doped fiber laser passively mode locked by evanescent field interaction with $\text{CH}_3\text{NH}_3\text{SnI}_3$ perovskite saturable absorber. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 375106.	2.8	25
21	Room temperature in-plane ferroelectricity in van der Waals $\text{In}_2\text{Se}_3$ . <i>Science Advances</i> , 2018, 4, eaar7720.	10.3	224
22	Role of Surface Recombination in Halide Perovskite Nanoplatelets. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31586-31593.	8.0	41
23	Degradation of Two-Dimensional $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite and $\text{CH}_3\text{NH}_3\text{PbI}_3$ /Graphene Heterostructure. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 24258-24265.	8.0	40
24	Direct Observation of 2D Electrostatics and Ohmic Contacts in Template-Grown Graphene/ $\text{WS}_2$ Heterostructures. <i>ACS Nano</i> , 2017, 11, 2785-2793.	14.6	74
25	The Light-Induced Field-Effect Solar Cell Concept – Perovskite Nanoparticle Coating Introduces Polarization Enhancing Silicon Cell Efficiency. <i>Advanced Materials</i> , 2017, 29, 1606370.	21.0	35
26	Near-Infrared Photodetectors Based on $\text{MoTe}_2$ /Graphene Heterostructure with High Responsivity and Flexibility. <i>Small</i> , 2017, 13, 1700268.	10.0	200
27	Present Perspectives of Advanced Characterization Techniques in $\text{TiO}_2$ -Based Photocatalysts. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 23265-23286.	8.0	112
28	Light-Emitting Diodes: Solution-Processed Extremely Efficient Multicolor Perovskite Light-Emitting Diodes Utilizing Doped Electron Transport Layer (Adv. Funct. Mater. 21/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	0
29	Controlled Growth of Monocrystalline Organo-Lead Halide Perovskite and Its Application in Photonic Devices. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12486-12491.	13.8	54
30	Solution-Processed Extremely Efficient Multicolor Perovskite Light-Emitting Diodes Utilizing Doped Electron Transport Layer. <i>Advanced Functional Materials</i> , 2017, 27, 1606874.	14.9	96
31	Two-Dimensional $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Nanosheets for Ultrafast Pulsed Fiber Lasers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12759-12765.	8.0	296
32	Highly Efficient and Air-Stable Infrared Photodetector Based on 2D Layered Graphene-Black Phosphorus Heterostructure. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36137-36145.	8.0	185
33	Infrared Nanoimaging Reveals the Surface Metallic Plasmons in Topological Insulator. <i>ACS Photonics</i> , 2017, 4, 3055-3062.	6.6	27
34	Dipole-field-assisted charge extraction in metal-perovskite-metal back-contact solar cells. <i>Nature Communications</i> , 2017, 8, 613.	12.8	66
35	Synthesis of Ultrathin Composition Graded Doped Lateral $\text{WSe}_2/\text{WS}_2$ Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34204-34212.	8.0	22
36	Flexible Broadband Graphene Photodetectors Enhanced by Plasmonic $\text{Cu}_3\text{Sn}_2\text{P}$ Colloidal Nanocrystals. <i>Small</i> , 2017, 13, 1701881.	10.0	63

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37	Phase Segregation Enhanced Ion Movement in Efficient Inorganic CsPbIBr <sub>2</sub> Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700946.	19.5	318
38	Edge-riched graphene nanoribbon for high capacity electrode materials. <i>Electrochimica Acta</i> , 2017, 250, 84-90.	5.2	34
39	Directing nucleation and growth kinetics in solution-processed hybrid perovskite thin-films. <i>Science China Materials</i> , 2017, 60, 617-628.	6.3	64
40	The Roadmap of Graphene-Based Optical Biochemical Sensors. <i>Advanced Functional Materials</i> , 2017, 27, 1603918.	14.9	68
41	Photocatalytic mechanism of high-activity anatase TiO <sub>2</sub> with exposed (001) facets from molecular-atomic scale: HRTEM and Raman studies. <i>Frontiers of Materials Science</i> , 2017, 11, 358-365.	2.2	2
42	Large-scale Production of Bismuth Chalcogenide and Graphene Heterostructure and Its Application for Flexible Broadband Photodetector. <i>Advanced Electronic Materials</i> , 2016, 2, 1600077.	5.1	33
43	Reversible Structural Swell-Shrink and Recoverable Optical Properties in Hybrid Inorganic-Organic Perovskite. <i>ACS Nano</i> , 2016, 10, 7031-7038.	14.6	68
44	Design of high-performance memristor cell using W-implanted SiO <sub>2</sub> films. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	21
45	Enhanced quantum efficiency from a mosaic of two dimensional MoS <sub>2</sub> formed onto aminosilane functionalised substrates. <i>Nanoscale</i> , 2016, 8, 12258-12266.	5.6	18
46	Synthesis, properties, and optical applications of low-dimensional perovskites. <i>Chemical Communications</i> , 2016, 52, 13637-13655.	4.1	252
47	Atomically thin lateral p-n junction photodetector with large effective detection area. <i>2D Materials</i> , 2016, 3, 041001.	4.4	78
48	Rational design of an ITO/CuS nanosheet network composite film as a counter electrode for flexible dye sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8130-8134.	5.5	17
49	Efficient Excitation of Multiple Plasmonic Modes on Three-Dimensional Graphene: An Unexplored Dimension. <i>ACS Photonics</i> , 2016, 3, 1986-1992.	6.6	42
50	Photonics and optoelectronics of two-dimensional materials beyond graphene. <i>Nanotechnology</i> , 2016, 27, 462001.	2.6	259
51	Strain Relaxation of Monolayer WS <sub>2</sub> on Plastic Substrate. <i>Advanced Functional Materials</i> , 2016, 26, 8707-8714.	14.9	97
52	Scalable Production of a Few-Layer MoS <sub>2</sub> /WS <sub>2</sub> Vertical Heterojunction Array and Its Application for Photodetectors. <i>ACS Nano</i> , 2016, 10, 573-580.	14.6	362
53	Two-Dimensional CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite: Synthesis and Optoelectronic Application. <i>ACS Nano</i> , 2016, 10, 3536-3542.	14.6	359
54	Wavelength-tunable waveguides based on polycrystalline organic-inorganic perovskite microwires. <i>Nanoscale</i> , 2016, 8, 6258-6264.	5.6	76

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55	Effect of Interlayer Coupling on Ultrafast Charge Transfer from Semiconducting Molecules to Mono- and Bilayer Graphene. <i>Physical Review Applied</i> , 2015, 4, .	3.8	19
56	Facile Synthesis of Carbon Nanosphere/NiCo <sub>2</sub> O <sub>4</sub> Core-shell Sub-microspheres for High Performance Supercapacitor. <i>Scientific Reports</i> , 2015, 5, 12903.	3.3	115
57	Lattice distortion mechanism study of TiO <sub>2</sub> nanoparticles during photocatalysis degradation and reactivation. <i>AIP Advances</i> , 2015, 5, .	1.3	13
58	Hybrid Graphene-Perovskite Phototransistors with Ultrahigh Responsivity and Gain. <i>Advanced Optical Materials</i> , 2015, 3, 1389-1396.	7.3	240
59	Monolayer graphene on nanostructured Ag for enhancement of surface-enhanced Raman scattering stable platform. <i>Nanotechnology</i> , 2015, 26, 125603.	2.6	23
60	Enhanced Performance of nano-Bi <sub>2</sub> WO <sub>6</sub> -Graphene as Pseudocapacitor Electrodes by Charge Transfer Channel. <i>Scientific Reports</i> , 2015, 5, 8624.	3.3	22
61	Synthesis and Transfer of Large-Area Monolayer WS <sub>2</sub> Crystals: Moving Toward the Recyclable Use of Sapphire Substrates. <i>ACS Nano</i> , 2015, 9, 6178-6187.	14.6	200
62	Surface doping of La ions into ZnO nanocrystals to lower the optimal working temperature for HCHO sensing properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27437-27445.	2.8	61
63	Controlled synthesis of graphene nanoribbons for field effect transistors. <i>Journal of Alloys and Compounds</i> , 2015, 649, 933-938.	5.5	7
64	A high energy output nanogenerator based on reduced graphene oxide. <i>Nanoscale</i> , 2015, 7, 18147-18151.	5.6	23
65	Synthesis of nitrogen doped graphene from graphene oxide within an ammonia flame for high performance supercapacitors. <i>RSC Advances</i> , 2014, 4, 55394-55399.	3.6	77
66	Preparation of ZnO/graphene heterojunction via high temperature and its photocatalytic property. <i>Journal of Materials Science</i> , 2014, 49, 1854-1860.	3.7	23
67	Preparation of porous micro-nano-structure NiO/ZnO heterojunction and its photocatalytic property. <i>RSC Advances</i> , 2014, 4, 3090-3095.	3.6	97
68	Preparation of a ZnO/TiO <sub>2</sub> vertical-nanoneedle-on-film heterojunction and its photocatalytic properties. <i>RSC Advances</i> , 2014, 4, 18186.	3.6	23
69	Unusual electroluminescence from n-ZnO@i-MgO core-shell nanowire color-tunable light-emitting diode at reverse bias. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9302-9308.	2.8	18
70	Mechanical property enhancement of PVDF/graphene composite based on a high-quality graphene. <i>Journal of Materials Science</i> , 2014, 49, 8311-8316.	3.7	32
71	In situ synthesis of CdS decorated titanate nanosheets with highly efficient visible-light-induced photoactivity. <i>Applied Surface Science</i> , 2014, 305, 459-465.	6.1	10
72	Near-ultraviolet light-emitting diodes realized from n-ZnO nanorod/p-GaN direct-bonding heterostructures. <i>Journal of Luminescence</i> , 2013, 137, 116-120.	3.1	30

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73	CNTs/TiO <sub>2</sub> composites and its electrochemical properties after UV light irradiation. Progress in Natural Science: Materials International, 2013, 23, 164-169.	4.4	32
74	Strain induced chemical potential difference between monolayer graphene sheets. Nanoscale, 2013, 5, 2616.	5.6	16
75	High quality graphene sheets from graphene oxide by hot-pressing. Carbon, 2013, 54, 143-148.	10.3	82
76	A novel route to ZnO/TiO <sub>2</sub> heterojunction composite fibers. Journal of Materials Research, 2013, 28, 507-512.	2.6	32
77	Improved and orange emission from an n-ZnO/p-Si heterojunction light emitting device with NiO as the intermediate layer. Applied Physics Letters, 2012, 101, .	3.3	24
78	High-voltage electric-field-induced growth of aligned "cow-nipple-like" submicro-nano carbon isomeric structure via chemical vapor deposition. Journal of Applied Physics, 2012, 112, 114310.	2.5	5
79	Raman Spectroscopy: A New Approach to Measure the Percentage of Anatase TiO <sub>2</sub> Exposed (001) Facets. Journal of Physical Chemistry C, 2012, 116, 7515-7519.	3.1	672
80	The production of nitrogen-doped graphene from mixed amine plus ethanol flames. Thin Solid Films, 2012, 520, 6850-6855.	1.8	36
81	Characterization of Oxygen Vacancy Associates within Hydrogenated TiO <sub>2</sub> : A Positron Annihilation Study. Journal of Physical Chemistry C, 2012, 116, 22619-22624.	3.1	487
82	Measurements of mechanical properties and number of layers of graphene from nano-indentation. Diamond and Related Materials, 2012, 24, 1-5.	3.9	149
83	Ni-Codoped Anatase TiO <sub>2</sub> Nanocrystals with Exposed {001} Facets Through Two-Step Hydrothermal Route. Journal of the American Ceramic Society, 2012, 95, 2951-2956.	3.8	35
84	Photocatalytic and degradation mechanisms of anatase TiO <sub>2</sub> : a HRTEM study. Catalysis Science and Technology, 2011, 1, 273.	4.1	89
85	Engineering Nanostructured Bi <sub>2</sub> WO <sub>6</sub> "TiO <sub>2</sub> " Toward Effective Utilization of Natural Light in Photocatalysis. Journal of the American Ceramic Society, 2011, 94, 4157-4161.	3.8	68
86	TiO <sub>2</sub> /graphene composite from thermal reaction of graphene oxide and its photocatalytic activity in visible light. Journal of Materials Science, 2011, 46, 2622-2626.	3.7	333
87	Direct synthesis of high concentration N-doped coiled carbon nanofibers from amine flames and its electrochemical properties. Journal of Power Sources, 2011, 196, 7868-7873.	7.8	45