Yanqi Ge

List of Publications by Year in descending order

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51 papers	4,562 citations	136950 32 h-index	175258 52 g-index
52 all docs	52 docs citations	52 times ranked	4194 citing authors

#	Article	IF	Citations
1	Broadband Nonlinear Photonics in Fewâ€Layer MXene Ti₃C₂T_x (T =) Tj ETQq1 1 0.784314 rgB	8.7	550
2	2D Vâ€V Binary Materials: Status and Challenges. Advanced Materials, 2019, 31, e1902352.	21.0	303
3	Fewâ€Layer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2017, 7, 1700396.	19.5	301
4	Broadband Nonlinear Photoresponse of 2D TiS₂ for Ultrashort Pulse Generation and Allâ€Optical Thresholding Devices. Advanced Optical Materials, 2018, 6, 1701166.	7.3	248
5	Ultrasmall Bismuth Quantum Dots: Facile Liquid-Phase Exfoliation, Characterization, and Application in High-Performance UVâ€“Vis Photodetector. ACS Photonics, 2018, 5, 621-629.	6.6	230
6	Fewâ€Layer Tin Sulfide: A Promising Blackâ€Phosphorusâ€Analogue 2D Material with Exceptionally Large Nonlinear Optical Response, High Stability, and Applications in Allâ€Optical Switching and Wavelength Conversion. Advanced Optical Materials, 2018, 6, 1700985.	7.3	212
7	Allâ€Optical Phosphorene Phase Modulator with Enhanced Stability Under Ambient Conditions. Laser and Photonics Reviews, 2018, 12, 1800016.	8.7	155
8	Black-phosphorus-analogue tin monosulfide: an emerging optoelectronic two-dimensional material for high-performance photodetection with improved stability under ambient/harsh conditions. Journal of Materials Chemistry C, 2018, 6, 9582-9593.	5.5	153
9	Size-dependent nonlinear optical properties of black phosphorus nanosheets and their applications in ultrafast photonics. Journal of Materials Chemistry C, 2017, 5, 3007-3013.	5.5	150
10	Stabilization of Black Phosphorous Quantum Dots in PMMA Nanofiber Film and Broadband Nonlinear Optics and Ultrafast Photonics Application. Advanced Functional Materials, 2017, 27, 1702437.	14.9	136
11	An Allâ€Optical, Actively Qâ€Switched Fiber Laser by an Antimoneneâ€Based Optical Modulator. Laser and Photonics Reviews, 2019, 13, 1800313.	8.7	122
12	Enhanced Photodetection Properties of Tellurium@Selenium Rollâ€toâ€Roll Nanotube Heterojunctions. Small, 2019, 15, e1900902.	10.0	120
13	MXene Ti₃C₂T_x: A Promising Photothermal Conversion Material and Application in Allâ€Optical Modulation and Allâ€Optical Information Loading. Advanced Optical Materials, 2019, 7, 1900060.	7.3	115
14	Few-layer selenium-doped black phosphorus: synthesis, nonlinear optical properties and ultrafast photonics applications. Journal of Materials Chemistry C, 2017, 5, 6129-6135.	5.5	109
15	Midâ€Infrared Photonics Using 2D Materials: Status and Challenges. Laser and Photonics Reviews, 2020, 14, 1900098.	8.7	106
16	Chemistry, Functionalization, and Applications of Recent Monoelemental Two-Dimensional Materials and Their Heterostructures. Chemical Reviews, 2022, 122, 1127-1207.	47.7	103
17	Graphdiyneâ€Polymer Nanocomposite as a Broadband and Robust Saturable Absorber for Ultrafast Photonics. Laser and Photonics Reviews, 2020, 14, 1900367.	8.7	99
18	Nonlinear Fewâ€Layer Antimoneneâ€Based Allâ€Optical Signal Processing: Ultrafast Optical Switching and Highâ€Speed Wavelength Conversion. Advanced Optical Materials, 2018, 6, 1701287.	7.3	97

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19	Perovskite CsPbX₃: A Promising Nonlinear Optical Material and Its Applications for Ambient Allâ€Optical Switching with Enhanced Stability. Advanced Optical Materials, 2018, 6, 1800400.	7.3	90
20	Inkjet-printed MXene micro-scale devices for integrated broadband ultrafast photonics. Npj 2D Materials and Applications, 2019, 3, .	7.9	87
21	Nonlinear Fewâ€Layer MXeneâ€Assisted Allâ€Optical Wavelength Conversion at Telecommunication Band. Advanced Optical Materials, 2019, 7, 1801777.	7.3	86
22	2D GeP as a Novel Broadband Nonlinear Optical Material for Ultrafast Photonics. Laser and Photonics Reviews, 2019, 13, 1900123.	8.7	76
23	Refractive Index Sensors Based on Ti₃C₂T_x MXene Fibers. ACS Applied Nano Materials, 2020, 3, 303-311.	5.0	74
24	A self-powered photodetector based on two-dimensional boron nanosheets. Nanoscale, 2020, 12, 5313-5323.	5.6	60
25	Nonlinear Photonics Using Lowâ€Dimensional Metalâ€Halide Perovskites: Recent Advances and Future Challenges. Advanced Materials, 2021, 33, e2004446.	21.0	58
26	Graphdiyne as a Promising Midâ€Infrared Nonlinear Optical Material for Ultrafast Photonics. Advanced Optical Materials, 2020, 8, 2000067.	7.3	57
27	Two-Dimensional Black Arsenic Phosphorus for Ultrafast Photonics in Near- and Mid-Infrared Regimes. ACS Applied Materials & Interfaces, 2020, 12, 46509-46518.	8.0	47
28	MXene (Ti2NTx): Synthesis, characteristics and application as a thermo-optical switcher for all-optical wavelength tuning laser. Science China Materials, 2021, 64, 259-265.	6.3	40
29	Ti₃C₂T_x MXene Quantum Dots with Enhanced Stability for Ultrafast Photonics. ACS Applied Nano Materials, 2020, 3, 11850-11860.	5.0	38
30	A Robust 2D Photoâ€Electrochemical Detector Based on NiPS₃ Flakes. Advanced Electronic Materials, 2019, 5, 1900726.	5.1	36
31	Present advances and perspectives of broadband photo-detectors based on emerging 2D-Xenes beyond graphene. Nano Research, 2020, 13, 891-918.	10.4	36
32	Recent Advances of Spatial Selfâ€Phase Modulation in 2D Materials and Passive Photonic Device Applications. Small, 2020, 16, e2002252.	10.0	35
33	Recent advances in 0D nanostructure-functionalized low-dimensional nanomaterials for chemiresistive gas sensors. Journal of Materials Chemistry C, 2020, 8, 7272-7299.	5.5	35
34	Defect Engineering in Ultrathin SnSe Nanosheets for High-Performance Optoelectronic Applications. ACS Applied Materials & Interfaces, 2021, 13, 33226-33236.	8.0	35
35	Recent advances in real-time spectrum measurement of soliton dynamics by dispersive Fourier transformation. Reports on Progress in Physics, 2020, 83, 116401.	20.1	35
36	Beta-lead oxide quantum dot (Î²-PbO QD)/polystyrene (PS) composite films and their applications in ultrafast photonics. Nanoscale, 2019, 11, 6828-6837.	5.6	33

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37	Two-dimensional porous coordination polymers and nano-composites for electrocatalysis and electrically conductive applications. Journal of Materials Chemistry A, 2020, 8, 14356-14383.	10.3	33
38	Few-layer hexagonal bismuth telluride (Bi₂Te₃) nanoplates with high-performance UV-Vis photodetection. Nanoscale Advances, 2020, 2, 1333-1339.	4.6	33
39	Recent advances in mode-locked fiber lasers based on two-dimensional materials. Nanophotonics, 2020, 9, 2315-2340.	6.0	32
40	2D Materials for Nonlinear Photonics and Electroâ€Optical Applications. Advanced Materials Interfaces, 2021, 8, 2100367.	3.7	30
41	MXene Ti₃C₂T_x saturable absorber for passively Q-switched mid-infrared laser operation of femtosecond-laserâ€“inscribed Er:Y₂O₃ ceramic channel waveguide. Nanophotonics, 2020, 9, 2495-2503.	6.0	29
42	A self-encapsulated broadband phototransistor based on a hybrid of graphene and black phosphorus nanosheets. Nanoscale Advances, 2020, 2, 1059-1065.	4.6	22
43	Two-dimensional nanomaterials for FÃ¶rster resonance energy transferâ€“based sensing applications. Nanophotonics, 2020, 9, 1855-1875.	6.0	19
44	Photodetectors: Enhanced Photodetection Properties of Tellurium@Selenium Rollâ€toâ€Roll Nanotube Heterojunctions (Small 23/2019). Small, 2019, 15, 1970125.	10.0	14
45	Graphdiyne Saturable Absorber for Passively Q-Switched Ho3+-Doped Laser. Nanomaterials, 2020, 10, 1848.	4.1	14
46	Broadband nonlinear optical response of graphdiyne for mid-infrared solid-state lasers. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	14
47	Synergistic Photothermal and Chemical Therapy by Smart Dualâ€Functional Graphdiyne Nanosheets for Treatment of Parkinson's Disease. Advanced Therapeutics, 2021, 4, 2100082.	3.2	13
48	Multifunctional VIâ€“VI binary heterostructure-based self-powered pH-sensitive photo-detector. Journal of Materials Chemistry C, 2020, 8, 5991-6000.	5.5	8
49	Twoâ€dimensional graphdiyne for passively Qâ€switched Yb³⁺:Sc₂SiO₅ laser. Microwave and Optical Technology Letters, 2021, 63, 2292-2296.	1.4	7
50	Characterization of Dark Soliton Sidebands in All-Normal-Dispersion Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-7.	2.9	6
51	Quantum Dots: Stabilization of Black Phosphorous Quantum Dots in PMMA Nanofiber Film and Broadband Nonlinear Optics and Ultrafast Photonics Application (Adv. Funct. Mater. 32/2017). Advanced Functional Materials, 2017, 27, .	14.9	1