

# Xiao-Yang Zhang

## List of Publications by Year in descending order

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25  
papers

725  
citations

687363

13  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1172  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembly of Large-Scale and Ultrathin Silver Nanoplate Films with Tunable Plasmon Resonance Properties. ACS Nano, 2011, 5, 9082-9092.	14.6	180
2	Numerical Analysis of Deep sub-wavelength integrated plasmonic devices based on Semiconductor-Insulator-Metal strip waveguides. Optics Express, 2010, 18, 18945.	3.4	87
3	Synthesis of Silver Nanostructures by Multistep Methods. Sensors, 2014, 14, 5860-5889.	3.8	67
4	High quantum-yield luminescent MoS <sub>2</sub> quantum dots with variable light emission created via direct ultrasonic exfoliation of MoS <sub>2</sub> nanosheets. RSC Advances, 2015, 5, 95178-95182.	3.6	63
5	Investigation of simultaneously existed Raman scattering enhancement and inhibiting fluorescence using surface modified gold nanostars as SERS probes. Scientific Reports, 2017, 7, 6813.	3.3	44
6	Silver nanoplate aggregation based multifunctional black metal absorbers for localization, photothermic harnessing enhancement and omnidirectional light antireflection. Journal of Materials Chemistry C, 2018, 6, 989-999.	5.5	32
7	Integrated optical gyroscope using active Long-range surface plasmon-polariton waveguide resonator. Scientific Reports, 2014, 4, 3855.	3.3	29
8	Subwavelength plasmonic waveguides based on ZnO nanowires and nanotubes: A theoretical study of thermo-optical properties. Applied Physics Letters, 2010, 96, .	3.3	27
9	Seeds triggered massive synthesis and multi-step room temperature post-processing of silver nanoplate application for paper electronics. RSC Advances, 2017, 7, 8-19.	3.6	26
10	Controllable plasmonic antennas with ultra narrow bandwidth based on silver nano-flags. Applied Physics Letters, 2012, 101, .	3.3	23
11	Synthesis and characterization of cross-linkable fluorinated polyimide for optical waveguide. Applied Physics A: Materials Science and Processing, 2015, 118, 655-664.	2.3	20
12	Low-loss planar optical waveguides fabricated from polycarbonate. Polymer Engineering and Science, 2009, 49, 2015-2019.	3.1	18
13	Fabrication and spectroscopic investigation of branched silver nanowires and nanomeshworks. Nanoscale Research Letters, 2012, 7, 596.	5.7	15
14	Seeds screening aqueous synthesis, multiphase interfacial separation and <i>in situ</i> optical characterization of invisible ultrathin silver nanowires. Nanoscale, 2018, 10, 15468-15484.	5.6	13
15	Tunable Microring Resonator Based on Dielectric-Loaded Surface Plasmon Polariton Waveguides. Journal of Nanoscience and Nanotechnology, 2011, 11, 10520-10524.	0.9	12
16	Recent progress on nanostructure-based broadband absorbers and their solar energy thermal utilization. Frontiers of Chemical Science and Engineering, 2021, 15, 35-48.	4.4	12
17	Progress in the Utilization Efficiency Improvement of Hot Carriers in Plasmon-Mediated Heterostructure Photocatalysis. Applied Sciences (Switzerland), 2019, 9, 2093.	2.5	10
18	Real-Time Electro-Optical Tunable Hyperlens Under Subwavelength Scale. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	9

#	ARTICLE	IF	CITATIONS
19	Electrospinning Ag-TiO <sub>2</sub> Nanorod-Loaded Air Treatment Filters and Their Applications in Air Purification. <i>Molecules</i> , 2020, 25, 3369.	3.8	8
20	Synthesis of silver nanoplate based two-dimension plasmonic platform from 25 nm to 40 $\mu$ m: growth mechanism and optical characteristic investigation <i>in situ</i> . <i>RSC Advances</i> , 2017, 7, 55680-55690.	3.6	7
21	Hybrid fiber resonator employing LRSPP waveguide coupler for gyroscope. <i>Scientific Reports</i> , 2017, 7, 41146.	3.3	6
22	Recent progress in 2D material van der Waals heterostructure-based luminescence devices towards the infrared wavelength range. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7352-7367.	5.5	6
23	Low-Loss Polymer-Based Ring Resonator for Resonant Integrated Optical Gyroscopes. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-6.	2.7	5
24	Plasmonic enhanced mid-infrared InAs/GaSb superlattice photodetectors with the hybrid mode for wavelength-selective detection. <i>AIP Advances</i> , 2019, 9, 085121.	1.3	4
25	66.3: Design of Color Backlight for High Efficiency Display using Optical Waveguide Gratings. <i>Digest of Technical Papers SID International Symposium</i> , 2012, 43, 901-904.	0.3	2