

# Song Gao

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,681  
citations

331670

21  
h-index

330143

37  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1454  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric Polarization-Filtering Metasurface Doublet for Trifunctional Control of Full-Space Visible Light. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	11
2	Nanostructured perovskites for nonvolatile memory devices. <i>Chemical Society Reviews</i> , 2022, 51, 3341-3379.	38.1	71
3	A high-accuracy, real-time, intelligent material perception system with a machine-learning-motivated pressure-sensitive electronic skin. <i>Matter</i> , 2022, 5, 1481-1501.	10.0	104
4	A waterproof and breathable Cotton/rGO/CNT composite for constructing a layer-by-layer structured multifunctional flexible sensor. <i>Nano Research</i> , 2022, 15, 9341-9351.	10.4	26
5	A Digital-Analog Integrated Memristor Based on a ZnO NPs/CuO NWs Heterostructure for Neuromorphic Computing. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3525-3534.	4.3	18
6	Efficient All-Dielectric Diatomic Metasurface for Linear Polarization Generation and 1-Bit Phase Control. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14497-14506.	8.0	20
7	All-Dielectric Fiber Meta-Tip Enabling Vortex Generation and Beam Collimation for Optical Interconnect. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000581.	8.7	21
8	Artificial Optoelectronic Synapses Based on TiN <sub>x</sub> /O <sub>2</sub> /MoS <sub>2</sub> Heterojunction for Neuromorphic Computing and Visual System. <i>Advanced Functional Materials</i> , 2021, 31, 2101201.	14.9	92
9	Ultrafast-response/recovery capacitive humidity sensor based on arc-shaped hollow structure with nanocone arrays for human physiological signals monitoring. <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129637.	7.8	58
10	Multifunctional Optoelectronic Random Access Memory Device Based on Surface-Plasma-Treated Inorganic Halide Perovskite. <i>Advanced Electronic Materials</i> , 2021, 7, 2100366.	5.1	15
11	Micro-Nano Processing of Active Layers in Flexible Tactile Sensors via Template Methods: A Review. <i>Small</i> , 2021, 17, e2100804.	10.0	82
12	Recent Advances in Carbon Material-Based Multifunctional Sensors and Their Applications in Electronic Skin Systems. <i>Advanced Functional Materials</i> , 2021, 31, 2104288.	14.9	116
13	Carbon-based nanomaterials for the detection of volatile organic compounds: A review. <i>Carbon</i> , 2021, 180, 274-297.	10.3	67
14	Highly Morphology-Controllable and Highly Sensitive Capacitive Tactile Sensor Based on Epidermis-Inspired Interlocked Asymmetric Nanocone Arrays for Detection of Tiny Pressure. <i>Small</i> , 2020, 16, e1904774.	10.0	166
15	Study on Multilevel Resistive Switching Behavior With Tunable ON/OFF Ratio Capability in Forming-Free ZnO QDs-Based RRAM. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 4884-4890.	3.0	24
16	Metasurface Doublet: Multifunctional Beam Manipulation at Telecommunication Wavelengths Enabled by an All-Dielectric Metasurface Doublet (Advanced Optical Materials 15/2020). <i>Advanced Optical Materials</i> , 2020, 8, 2070062.	7.3	0
17	Multifunctional Beam Manipulation at Telecommunication Wavelengths Enabled by an All-Dielectric Metasurface Doublet. <i>Advanced Optical Materials</i> , 2020, 8, 2000645.	7.3	10
18	Sn <sub>3</sub> O <sub>4</sub> /rGO heterostructure as a material for formaldehyde gas sensor with a wide detecting range and low operating temperature. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127954.	7.8	85

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19	Polarization-encrypted high-resolution full-color images exploiting hydrogenated amorphous silicon nanogratings. <i>Nanophotonics</i> , 2020, 9, 875-884.	6.0	15
20	Reusable, Non-Invasive, and Ultrafast Radio Frequency Biosensor Based on Optimized Integrated Passive Device Fabrication Process for Quantitative Detection of Glucose Levels. <i>Sensors</i> , 2020, 20, 1565.	3.8	13
21	High-Performance Formaldehyde Gas Sensor Based on Cu-Doped Sn <sub>3</sub> O <sub>4</sub> Hierarchical Nanoflowers. <i>IEEE Sensors Journal</i> , 2020, 20, 6945-6953.	4.7	31
22	Twofold Polarization-Selective All-Dielectric Trifoci Metalens for Linearly Polarized Visible Light. <i>Advanced Optical Materials</i> , 2019, 7, 1900883.	7.3	55
23	Multifunctional Metasurfaces: Twofold Polarization-Selective All-Dielectric Trifoci Metalens for Linearly Polarized Visible Light ( <i>Advanced Optical Materials</i> 21/2019). <i>Advanced Optical Materials</i> , 2019, 7, 1970082.	7.3	0
24	Structural color filters based on an all-dielectric metasurface exploiting silicon-rich silicon nitride nanodisks. <i>Optics Express</i> , 2019, 27, 667.	3.4	49
25	High-performance and self-rectifying resistive random access memory based on SnO <sub>2</sub> nanorod array: ZnO nanoparticle structure. <i>Applied Physics Express</i> , 2019, 12, 121002.	2.4	6
26	All-dielectric metasurfaces for simultaneously realizing polarization rotation and wavefront shaping of visible light. <i>Nanoscale</i> , 2019, 11, 4083-4090.	5.6	40
27	A Highly Efficient Bifunctional Dielectric Metasurface Enabling Polarization-Tuned Focusing and Deflection for Visible Light. <i>Advanced Optical Materials</i> , 2019, 7, 1801337.	7.3	29
28	Design of Broadband LNA and RFVGA for DVB Receiver Tuner using CMOS $0.18\text{-}\mu\text{m}$ Process. , 2019, , .		1
29	Anodized Aluminum Oxide-Assisted Low-Cost Flexible Capacitive Pressure Sensors Based on Double-Sided Nanopillars by a Facile Fabrication Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 48594-48603.	8.0	130
30	Dielectric metasurfaces based on a rectangular lattice of a-Si:H nanodisks for color pixels with high saturation and stability. <i>Optics Express</i> , 2019, 27, 35027.	3.4	13
31	Vertically integrated visible and near-infrared metasurfaces enabling an ultra-broadband and highly angle-resolved anomalous reflection. <i>Nanoscale</i> , 2018, 10, 12453-12460.	5.6	14
32	Structural Color Filters Enabled by a Dielectric Metasurface Incorporating Hydrogenated Amorphous Silicon Nanodisks. <i>Scientific Reports</i> , 2017, 7, 2556.	3.3	101
33	Highly reflective subtractive color filters capitalizing on a silicon metasurface integrated with nanostructured aluminum mirrors. <i>Laser and Photonics Reviews</i> , 2017, 11, 1600285.	8.7	74
34	Aluminum Plasmonic Metasurface Enabling a Wavelength-Insensitive Phase Gradient for Linearly Polarized Visible Light. <i>ACS Photonics</i> , 2017, 4, 322-328.	6.6	29
35	All Dielectric Transmissive Structural Multicolor Pixel Incorporating a Resonant Grating in Hydrogenated Amorphous Silicon. <i>Scientific Reports</i> , 2017, 7, 13574.	3.3	12
36	Linear variable filter enabling an enhanced wavelength gradient based on shadow-mask sputtering. <i>Microwave and Optical Technology Letters</i> , 2017, 59, 3142-3146.	1.4	4

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37	Angle-tolerant linear variable color filter based on a tapered etalon. <i>Optics Express</i> , 2017, 25, 2153.	3.4	17
38	Subtractive Color Filters Based on a Silicon-Aluminum Hybrid-Nanodisk Metasurface Enabling Enhanced Color Purity. <i>Scientific Reports</i> , 2016, 6, 29756.	3.3	53
39	Prediction of Glucose Concentration in a Glucose-Lactose Mixture Based on the Reflective Optical Power at Dual Probe Wavelengths. <i>Journal of the Optical Society of Korea</i> , 2016, 20, 199-203.	0.6	2