

# Song Gao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2112443/publications.pdf>

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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  | 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       |
| 2  | 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       |
| 3  | 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       |
| 4  | 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       |
| 5  | Structural Color Filters Enabled by a Dielectric Metasurface Incorporating Hydrogenated Amorphous Silicon Nanodisks. <i>Scientific Reports</i> , 2017, 7, 2556.  | 3.3  | 101       |
| 6  | Artificial Optoelectronic Synapses Based on TiN <sub>x</sub> /O <sub>2</sub> -Ti <sub>x</sub> /MoS <sub>2</sub> Heterojunction for Neuromorphic Computing and Visual System. <i>Advanced Functional Materials</i> , 2021, 31, 2101201. | 14.9 | 92        |
| 7  | 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        |
| 8  | Micro-Nano Processing of Active Layers in Flexible Tactile Sensors via Template Methods: A Review. <i>Small</i> , 2021, 17, e2100804.  | 10.0 | 82        |
| 9  | 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        |
| 10 | Nanostructured perovskites for nonvolatile memory devices. <i>Chemical Society Reviews</i> , 2022, 51, 3341-3379.  | 38.1 | 71        |
| 11 | Carbon-based nanomaterials for the detection of volatile organic compounds: A review. <i>Carbon</i> , 2021, 180, 274-297.  | 10.3 | 67        |
| 12 | 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        |
| 13 | Twofold Polarization-Selective All-Dielectric Trifoci Metalens for Linearly Polarized Visible Light. <i>Advanced Optical Materials</i> , 2019, 7, 1900883.   | 7.3  | 55        |
| 14 | 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        |
| 15 | 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        |
| 16 | All-dielectric metasurfaces for simultaneously realizing polarization rotation and wavefront shaping of visible light. <i>Nanoscale</i> , 2019, 11, 4083-4090.   | 5.6  | 40        |
| 17 | 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        |
| 18 | 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        |

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|----|---|------|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | 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        |
| 22 | 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        |
| 23 | 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        |
| 24 | 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        |
| 25 | Angle-tolerant linear variable color filter based on a tapered etalon. <i>Optics Express</i> , 2017, 25, 2153.  | 3.4  | 17        |
| 26 | Polarization-encrypted high-resolution full-color images exploiting hydrogenated amorphous silicon nanogratings. <i>Nanophotonics</i> , 2020, 9, 875-884.   | 6.0  | 15        |
| 27 | 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        |
| 28 | 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        |
| 29 | 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        |
| 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 | All Dielectric Transmissive Structural Multicolor Pixel Incorporating a Resonant Grating in Hydrogenated Amorphous Silicon. <i>Scientific Reports</i> , 2017, 7, 13574.   | 3.3  | 12        |
| 32 | Dielectric Polarization-Filtering Metasurface Doublet for Trifunctional Control of Full-Space Visible Light. <i>Laser and Photonics Reviews</i> , 2022, 16, .   | 8.7  | 11        |
| 33 | Multifunctional Beam Manipulation at Telecommunication Wavelengths Enabled by an All-Dielectric Metasurface Doublet. <i>Advanced Optical Materials</i> , 2020, 8, 2000645.                                      | 7.3  | 10        |
| 34 | 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         |
| 35 | 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         |
| 36 | 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         |

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|----|--|-----|-----------|
| 37 | Design of Broadband LNA and RFVGA for DVB Receiver Tuner using CMOS $0.18\text{-}\mu\text{m}$ Process., 2019, , .  |     | 1         |
| 38 | Multifunctional Metasurfaces: Twofold Polarization-Selective All-Dielectric Trifoci Metalens for Linearly Polarized Visible Light (Advanced Optical Materials 21/2019). Advanced Optical Materials, 2019, 7, 1970082.        | 7.3 | 0         |
| 39 | Metasurface Doublet: Multifunctional Beam Manipulation at Telecommunication Wavelengths Enabled by an All-Dielectric Metasurface Doublet (Advanced Optical Materials 15/2020). Advanced Optical Materials, 2020, 8, 2070062. | 7.3 | 0         |