# Sensong An

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9143580/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 39<br>papers | 1,722<br>citations | 471509<br>17<br>h-index | 477307<br>29<br>g-index |
| 41<br>all docs | 41<br>docs citations | 41<br>times ranked | 1303<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Electrically reconfigurable non-volatile metasurface using low-loss optical phase-change material. Nature Nanotechnology, 2021, 16, 661-666. | 31.5 | 298 |
| 2 | Reconfigurable all-dielectric metalens with diffraction-limited performance. Nature Communications, 2021, 12, 1225. | 12.8 | 221 |
| 3 | A Deep Learning Approach for Objective-Driven All-Dielectric Metasurface Design. ACS Photonics, 2019, 6, 3196-3207. | 6.6 | 212 |
| 4 | Ultra-thin high-efficiency mid-infrared transmissive Huygens meta-optics. Nature Communications, 2018, 9, 1481. | 12.8 | 126 |
| 5 | Single-Element Diffraction-Limited Fisheye Metalens. Nano Letters, 2020, 20, 7429-7437. | 9.1 | 104 |
| 6 | Multiwavelength Metasurfaces Based on Singleâ€Layer Dualâ€Wavelength Metaâ€Atoms: Toward Complete Phase and Amplitude Modulations at Two Wavelengths. Advanced Optical Materials, 2017, 5, 1700079. | 7.3 | 103 |
| 7 | Design for quality: reconfigurable flat optics based on active metasurfaces. Nanophotonics, 2020, 9, 3505-3534. | 6.0 | 87 |
| 8 | Multifunctional Metasurface Design with a Generative Adversarial Network. Advanced Optical Materials, 2021, 9, 2001433. | 7.3 | 78 |
| 9 | Simultaneous Realization of Anomalous Reflection and Transmission at Two Frequencies using Bi-functional Metasurfaces. Scientific Reports, 2018, 8, 1876. | 3.3 | 76 |
| 10 | Multiâ€Level Electroâ€Thermal Switching of Optical Phaseâ€Change Materials Using Graphene. Advanced Photonics Research, 2021, 2, 2000034. | 3.6 | 75 |
| 11 | Deep learning modeling approach for metasurfaces with high degrees of freedom. Optics Express, 2020, 28, 31932. | 3.4 | 73 |
| 12 | Full control of dual-band vortex beams using a high-efficiency single-layer bi-spectral 2-bit coding metasurface. Optics Express, 2020, 28, 17374. | 3.4 | 42 |
| 13 | Deep Convolutional Neural Networks to Predict Mutual Coupling Effects in Metasurfaces. Advanced Optical Materials, 2022, 10, 2102113. | 7.3 | 28 |
| 14 | Frequencyâ€Multiplexed Complexâ€Amplitude Metaâ€Devices Based on Bispectral 2â€Bit Coding Metaâ€Atoms. Advanced Optical Materials, 2020, 8, 2000919. | 7.3 | 27 |
| 15 | Dualâ€Band Terahertz Autoâ€Focusing Airy Beam Based on Singleâ€Layer Geometric Metasurfaces with Independent Complex Amplitude Modulation at Each Wavelength. Advanced Theory and Simulations, 2019, 2, 1900071. | 2.8 | 23 |
| 16 | Dual-Band High Efficiency Terahertz Meta-Devices Based on Reflective Geometric Metasurfaces. IEEE Access, 2019, 7, 58131-58138. | 4.2 | 22 |
| 17 | Design of broadband and wide field-of-view metalenses. Optics Letters, 2021, 46, 5735-5738. | 3.3 | 18 |
| 18 | Deep neural network enabled active metasurface embedded design. Nanophotonics, 2022, 11, 4149-4158. | 6.0 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Reconfigurable Parfocal Zoom Metalens. Advanced Optical Materials, 2022, 10, . | 7.3 | 18 |
| 20 | Multifunctional Geometric Metasurfaces Based on Triâ€Spectral Metaâ€Atoms with Completely Independent Phase Modulations at Three Wavelengths. Advanced Theory and Simulations, 2020, 3, 2000099. | 2.8 | 13 |
| 21 | Tunable Metasurface With Dynamic Amplitude and Phase Control. IEEE Access, 2021, 9, 104522-104529. | 4.2 | 12 |
| 22 | Large-area optical metasurface fabrication using nanostencil lithography. Optics Letters, 2021, 46, 2324. | 3.3 | 8 |
| 23 | Multichannel Highâ€Efficiency Metasurfaces Based on Triâ€Band Singleâ€Cell Metaâ€Atoms with Independent Complexâ€Amplitude Modulations. Advanced Photonics Research, 2021, 2, 2100088. | 3.6 | 6 |
| 24 | A Broadband High-Efficiency Dipole Array Based on Frequency Selective Surface and Integrated Feeding Structure. IEEE Open Journal of Antennas and Propagation, 2021, 2, 1087-1097. | 3.7 | 6 |
| 25 | Electrically-switchable foundry-processed phase change photonic devices. , 2021, , . | | 5 |
| 26 | Fourâ€Channel Kaleidoscopic Metasurfaces Enabled by a Singleâ€Layered Singleâ€Cell Quadâ€Band Metaâ€Atom. Advanced Theory and Simulations, 2022, 5, . | 2.8 | 4 |
| 27 | Electrically Tunable and Reconfigurable Topological Edge State Laser. Optics, 2022, 3, 107-116. | 1.2 | 3 |
| 28 | Generalized Analysis Method for a Class of Novel Wideband Loaded-Stub Phase Shifters. Radioengineering, 2015, 24, 927-931. | 0.6 | 2 |
| 29 | Quad-Wavelength Multi-Focusing Lenses with Dual-Wavelength Meta-Atoms. , 2017, , . | | 2 |
| 30 | Sandwiched PRS Fabry-Perot Structure for Achieving Compactness and Improved Aperture Efficieny. , 2018, , . | | 1 |
| 31 | Ultra-thin, high-efficiency mid-infrared Huygens metasurface optics. , 2018, , . | | 1 |
| 32 | A High Performance Terahertz Metalens. , 2019, , . | | 1 |
| 33 | Multifunctional Metasurface Design with a Generative Adversarial Network (Advanced Optical) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 7.3 | 1 |
| 34 | A Deep Learning Approach to Explore the Mutual Coupling Effects in Metasurfaces. , 2021, , . | | 1 |
| 35 | Wide Field-of-view Achromatic Metalenses. , 2021, , . | | 1 |
| 36 | A Deep Neural Network Near-Universal Dielectric Meta-Atom Generator. , 2021, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Electrically Reconfigurable Nonvolatile Metasurface based on Phase Change Materials. , 2021, , . | | 0 |
| 38 | Understanding wide field-of-view metalenses. , 2022, , . | | 0 |
| 39 | Spatial coherence filtering of normal incidence light through leaky mode engineering. AIP Advances, 2022, 12, 035033. | 1.3 | 0 |