

Rui Chen

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

523
citations

687363

13
h-index

677142

22
g-index

27
all docs

27
docs citations

27
times ranked

541
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Imaging using cylindrical vector beams in a high-numerical-aperture microscopy system. Optics Letters, 2013, 38, 3111. | 3.3 | 114 |
| 2 | Modulation of photonic nanojets generated by microspheres decorated with concentric rings. Optics Express, 2015, 23, 20096. | 3.4 | 60 |
| 3 | High focusing efficiency in subdiffraction focusing metalens. Nanophotonics, 2019, 8, 1279-1289. | 6.0 | 44 |
| 4 | Super-focusing of center-covered engineered microsphere. Scientific Reports, 2016, 6, 31637. | 3.3 | 43 |
| 5 | Creation of a longitudinally polarized photonic nanojet via an engineered microsphere. Optics Letters, 2017, 42, 1444. | 3.3 | 30 |
| 6 | Interpretation of the optical transfer function: Significance for image scanning microscopy. Optics Express, 2016, 24, 27280. | 3.4 | 28 |
| 7 | Meta-objective with sub-micrometer resolution for microendoscopes. Photonics Research, 2021, 9, 106. | 7.0 | 22 |
| 8 | Quantitative Theory for Probe-Sample Interaction With Inhomogeneous Perturbation in Near-Field Scanning Microwave Microscopy. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 1402-1408. | 4.6 | 20 |
| 9 | Dyadic Green's function for aplanatic solid immersion lens based sub-surface microscopy. Optics Express, 2011, 19, 19280. | 3.4 | 18 |
| 10 | Imaging three-dimensional anisotropic scatterers in multilayered medium by multiple signal classification method with enhanced resolution. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1900. | 1.5 | 17 |
| 11 | TWO FFT SUBSPACE-BASED OPTIMIZATION METHODS FOR ELECTRICAL IMPEDANCE TOMOGRAPHY. Progress in Electromagnetics Research, 2016, 157, 111-120. | 4.4 | 15 |
| 12 | Signal-subspace method approach to the intensity-only electromagnetic inverse scattering problem. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2018. | 1.5 | 14 |
| 13 | A complete and computationally efficient numerical model of aplanatic solid immersion lens scanning microscope. Optics Express, 2013, 21, 14316. | 3.4 | 14 |
| 14 | Focus shaping of high numerical aperture lens using physics-assisted artificial neural networks. Optics Express, 2021, 29, 13011. | 3.4 | 14 |
| 15 | Complete modeling of subsurface microscopy system based on aplanatic solid immersion lens. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2350. | 1.5 | 13 |
| 16 | Superresolution microscopy imaging based on full-wave modeling and image reconstruction. Optica, 2016, 3, 1339. | 9.3 | 12 |
| 17 | Resolution of aplanatic solid immersion lens based microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1059. | 1.5 | 11 |
| 18 | Narrow-frequency sharp-angular filters using all-dielectric cascaded meta-gratings. Nanophotonics, 2020, 9, 3443-3450. | 6.0 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Three dimensional through-wall imaging: Inverse scattering problems with an inhomogeneous background medium. , 2015, , . | | 9 |
| 20 | Nonlinear Reconstruction of Multilayer Media in Scanning Microwave Microscopy. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 197-205. | 4.7 | 7 |
| 21 | Feature-based filter design for resolution enhancement of known features in microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2610. | 1.5 | 3 |
| 22 | Crossing the Resolution Limit in Near-Infrared Imaging of Silicon Chips: Targeting 10-nm Node Technology. Physical Review X, 2015, 5, . | 8.9 | 3 |
| 23 | Analysis of tip-sample interaction in microwave impedance microscopy by lumped element model. , 2015, , . | | 1 |
| 24 | Numerical modeling of two-photon focal modulation microscopy with a sinusoidal phase filter. Journal of Biomedical Optics, 2018, 23, 1. | 2.6 | 1 |
| 25 | Meta-objective with sub-micrometer resolution for microendoscopes. , 2021, , . | | 0 |
| 26 | Meta-objective with sub-micrometer resolution for microendoscopes. , 2021, , . | | 0 |
| 27 | Meta-objective with sub-micrometer resolution for microendoscopes. , 2021, , . | | 0 |