

David Schurig

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3353581/publications.pdf>

Version: 2024-02-01

31
papers

2,165
citations

840776

11
h-index

794594

19
g-index

32
all docs

32
docs citations

32
times ranked

1694
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | One path to acoustic cloaking. <i>New Journal of Physics</i> , 2007, 9, 45-45. | 2.9 | 882 |
| 2 | Limitations on subdiffraction imaging with a negative refractive index slab. <i>Applied Physics Letters</i> , 2003, 82, 1506-1508. | 3.3 | 477 |
| 3 | Partial focusing of radiation by a slab of indefinite media. <i>Applied Physics Letters</i> , 2004, 84, 2244-2246. | 3.3 | 221 |
| 4 | Spatial mapping of the internal and external electromagnetic fields of negative index metamaterials. <i>Optics Express</i> , 2006, 14, 8694. | 3.4 | 105 |
| 5 | Improving Power Transfer Efficiency of a Short-Range Telemetry System Using Compact Metamaterials. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014, 62, 947-955. | 4.6 | 97 |
| 6 | Compact Low-Frequency Metamaterial Design for Wireless Power Transfer Efficiency Enhancement. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016, 64, 1644-1654. | 4.6 | 82 |
| 7 | Material parameters and vector scaling in transformation acoustics. <i>New Journal of Physics</i> , 2008, 10, 115025. | 2.9 | 81 |
| 8 | Experimental Realization of a Metamaterial Detector Focal Plane Array. <i>Physical Review Letters</i> , 2012, 109, 177401. | 7.8 | 72 |
| 9 | POWDER. , 2020, , . | | 40 |
| 10 | Powder: Platform for Open Wireless Data-driven Experimental Research. <i>Computer Networks</i> , 2021, 197, 108281. | 5.1 | 24 |
| 11 | Interferometric direction finding with a metamaterial detector. <i>Applied Physics Letters</i> , 2013, 103, . | 3.3 | 15 |
| 12 | Analytical Phasing of Arbitrarily Oriented Arrays Using a Fast, Analytical Far-Field Calculation Method. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 2911-2922. | 5.1 | 11 |
| 13 | Optimization of a Sparse Aperture Configuration for Millimeter-Wave Computational Imaging. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 1107-1117. | 5.1 | 11 |
| 14 | Effective Conductivity of Additive-Manufactured Metals for Microwave Feed Components. <i>IEEE Access</i> , 2021, 9, 59979-59986. | 4.2 | 10 |
| 15 | Computationally fast EM field propagation through axi-symmetric media using cylindrical harmonic decomposition. <i>Optics Express</i> , 2016, 24, 29246. | 3.4 | 7 |
| 16 | Spatial imaging using a communication system's channel state information. , 2016, , . | | 7 |
| 17 | Comparison of Passive 2-D and 3-D Ring Arrays for Medical Telemetry Focusing. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 1189-1193. | 4.0 | 7 |
| 18 | Performance Analysis of a Helmet-Based Radar System for Impact Prediction. <i>IEEE Access</i> , 2018, 6, 75124-75131. | 4.2 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Field Focusing with Novel Implantable Lens Designs using 3D Printing. , 2018, , . | | 3 |
| 20 | Transformation optics design of a planar near field magnifier for sub-diffraction imaging. Optics Express, 2019, 27, 4694. | 3.4 | 3 |
| 21 | Using signal estimation for near-field plate optimization. , 2015, , . | | 1 |
| 22 | Analysis of a helmet-based FMCW radar for impact prediction. , 2017, , . | | 1 |
| 23 | Field Focusing for Implanted Medical Devices. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, 4, 273-278. | 3.4 | 1 |
| 24 | Guest Editorial: Special Cluster on Metamaterials. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1476-1479. | 4.0 | 0 |
| 25 | Improving power transfer efficiency in bio-telemetry systems using negative permeability metamaterials. , 2013, , . | | 0 |
| 26 | Receiver/transmitter configuration optimization for compressed computational millimeter-wave imaging. , 2015, , . | | 0 |
| 27 | Terahertz waveguide with a negative effective index of refraction measured using time domain techniques. , 2016, , . | | 0 |
| 28 | Analytical far-field calculation of arbitrarily oriented antenna arrays. , 2017, , . | | 0 |
| 29 | Constructive Analytical Phasing (CAP) for Arbitrarily Oriented Arrays of Linearly Polarized Elements. , 2018, , . | | 0 |
| 30 | Fast Beamforming for Dynamic, Randomly Configured Antenna Arrays and Metamaterials. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2087-2091. | 4.0 | 0 |
| 31 | Additive-Manufactured, Highly-Conductive Metasurfaces, With Application Enabling Secondary Properties, for Microwave Waveguide Components. IEEE Access, 2022, 10, 58921-58929. | 4.2 | 0 |