

Timothy A Sleasman

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,997
citations

304743

22
h-index

477307

29
g-index

38
all docs

38
docs citations

38
times ranked

1493
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Computational Imaging With Dynamic Metasurfaces: A Recipe for Simple and Low-Cost Microwave Imaging. IEEE Antennas and Propagation Magazine, 2022, 64, 123-134. | 1.4 | 8 |
| 2 | Implementation and Characterization of a Two-Dimensional Printed Circuit Dynamic Metasurface Aperture for Computational Microwave Imaging. IEEE Transactions on Antennas and Propagation, 2021, 69, 2151-2164. | 5.1 | 27 |
| 3 | Electronically steered metasurface antenna. Scientific Reports, 2021, 11, 4693. | 3.3 | 48 |
| 4 | Efficient Holographic Focusing Metasurface. Electronics (Switzerland), 2021, 10, 1837. | 3.1 | 3 |
| 5 | Review of Metasurface Antennas for Computational Microwave Imaging. IEEE Transactions on Antennas and Propagation, 2020, 68, 1860-1875. | 5.1 | 109 |
| 6 | Sub-Wavelength Focusing in Inhomogeneous Media with a Metasurface Near Field Plate. Sensors, 2019, 19, 4534. | 3.8 | 2 |
| 7 | Analytic Model of a Coax-Fed Planar Cavity-Backed Metasurface Antenna for Pattern Synthesis. IEEE Transactions on Antennas and Propagation, 2019, 67, 5853-5866. | 5.1 | 18 |
| 8 | Enhancing Capacity of Spatial Multiplexing Systems Using Reconfigurable Cavity-Backed Metasurface Antennas in Clustered MIMO Channels. IEEE Transactions on Communications, 2019, 67, 1070-1084. | 7.8 | 53 |
| 9 | Computational through-wall imaging using a dynamic metasurface antenna. OSA Continuum, 2019, 2, 3499. | 1.8 | 10 |
| 10 | Focusing Microwaves in the Fresnel Zone With a Cavity-Backed Holographic Metasurface. IEEE Access, 2018, 6, 12815-12824. | 4.2 | 18 |
| 11 | Dynamic Metasurface Aperture as Smart Around-the-Corner Motion Detector. Scientific Reports, 2018, 8, 6536. | 3.3 | 26 |
| 12 | Orthogonal Coded Active Illumination for Millimeter Wave, Massive-MIMO Computational Imaging With Metasurface Antennas. IEEE Transactions on Computational Imaging, 2018, 4, 184-193. | 4.4 | 39 |
| 13 | Two-Dimensional Dynamic Metasurface Apertures for Computational Microwave Imaging. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2299-2303. | 4.0 | 44 |
| 14 | Single-frequency 3D synthetic aperture imaging with dynamic metasurface antennas. Applied Optics, 2018, 57, 4123. | 1.8 | 30 |
| 15 | Phaseless computational ghost imaging at microwave frequencies using a dynamic metasurface aperture. Applied Optics, 2018, 57, 2142. | 1.8 | 46 |
| 16 | Phaseless coherent and incoherent microwave ghost imaging with dynamic metasurface apertures. Optica, 2018, 5, 1529. | 9.3 | 37 |
| 17 | Near-field SAR imaging with dynamic metasurface antennas using an adapted range migration algorithm. , 2018, , . | | 2 |
| 18 | Aperture synthesis with a monochromatic metasurface imaging system for 3D near-field imaging. , 2018, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Synthetic aperture radar with dynamic metasurface antennas: a conceptual development. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, A22. | 1.5 | 54 |
| 20 | Reconfigurable metasurface aperture for security screening and microwave imaging. , 2017, , . | | 1 |
| 21 | Alternative synthetic aperture radar (SAR) modalities using a 1D dynamic metasurface antenna. , 2017, , . | | 3 |
| 22 | Security screening via computational imaging using frequency-diverse metasurface apertures. , 2017, , . | | 4 |
| 23 | Adapting range migration techniques for imaging with metasurface antennas: analysis and limitations. , 2017, , . | | 0 |
| 24 | Single-frequency near-field MIMO imaging. , 2017, , . | | 15 |
| 25 | Near Field Scan Alignment Procedure for Electrically Large Apertures. IEEE Transactions on Antennas and Propagation, 2017, 65, 3257-3262. | 5.1 | 12 |
| 26 | Experimental Synthetic Aperture Radar With Dynamic Metasurfaces. IEEE Transactions on Antennas and Propagation, 2017, 65, 6864-6877. | 5.1 | 68 |
| 27 | Generalized range migration algorithm for synthetic aperture radar image reconstruction of metasurface antenna measurements. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2610. | 2.1 | 32 |
| 28 | Single-frequency microwave imaging with dynamic metasurface apertures. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1713. | 2.1 | 59 |
| 29 | Reconfigurable Metasurface Apertures for Computational Imaging. , 2017, , . | | 3 |
| 30 | Application of range migration algorithms to imaging with a dynamic metasurface antenna. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2082. | 2.1 | 54 |
| 31 | Efficient complementary metamaterial element for waveguide-fed metasurface antennas. Optics Express, 2016, 24, 28686. | 3.4 | 38 |
| 32 | Toward a tunable mode-mixing cavity for computational imaging. , 2016, , . | | 0 |
| 33 | Microwave Imaging Using a Disordered Cavity with a Dynamically Tunable Impedance Surface. Physical Review Applied, 2016, 6, . | 3.8 | 82 |
| 34 | Analytical modeling of printed metasurface cavities for computational imaging. Journal of Applied Physics, 2016, 120, . | 2.5 | 40 |
| 35 | Design considerations for a dynamic metamaterial aperture for computational imaging at microwave frequencies. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1098. | 2.1 | 99 |
| 36 | Waveguide-Fed Tunable Metamaterial Element for Dynamic Apertures. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 606-609. | 4.0 | 93 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Dynamic metamaterial aperture for microwave imaging. Applied Physics Letters, 2015, 107, . | 3.3 | 144 |
| 38 | Terahertz compressive imaging with metamaterial spatial light modulators. Nature Photonics, 2014, 8, 605-609. | 31.4 | 676 |