

Timothy A Sleasman

List of Publications by Year in descending order

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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	Terahertz compressive imaging with metamaterial spatial light modulators. <i>Nature Photonics</i> , 2014, 8, 605-609.	31.4	676
2	Dynamic metamaterial aperture for microwave imaging. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	144
3	Review of Metasurface Antennas for Computational Microwave Imaging. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 1860-1875.	5.1	109
4	Design considerations for a dynamic metamaterial aperture for computational imaging at microwave frequencies. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 1098.	2.1	99
5	Waveguide-Fed Tunable Metamaterial Element for Dynamic Apertures. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016, 15, 606-609.	4.0	93
6	Microwave Imaging Using a Disordered Cavity with a Dynamically Tunable Impedance Surface. <i>Physical Review Applied</i> , 2016, 6, .	3.8	82
7	Experimental Synthetic Aperture Radar With Dynamic Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 6864-6877.	5.1	68
8	Single-frequency microwave imaging with dynamic metasurface apertures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1713.	2.1	59
9	Application of range migration algorithms to imaging with a dynamic metasurface antenna. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 2082.	2.1	54
10	Synthetic aperture radar with dynamic metasurface antennas: a conceptual development. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017, 34, A22.	1.5	54
11	Enhancing Capacity of Spatial Multiplexing Systems Using Reconfigurable Cavity-Backed Metasurface Antennas in Clustered MIMO Channels. <i>IEEE Transactions on Communications</i> , 2019, 67, 1070-1084.	7.8	53
12	Electronically steered metasurface antenna. <i>Scientific Reports</i> , 2021, 11, 4693.	3.3	48
13	Phaseless computational ghost imaging at microwave frequencies using a dynamic metasurface aperture. <i>Applied Optics</i> , 2018, 57, 2142.	1.8	46
14	Two-Dimensional Dynamic Metasurface Apertures for Computational Microwave Imaging. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 2299-2303.	4.0	44
15	Analytical modeling of printed metasurface cavities for computational imaging. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	40
16	Orthogonal Coded Active Illumination for Millimeter Wave, Massive-MIMO Computational Imaging With Metasurface Antennas. <i>IEEE Transactions on Computational Imaging</i> , 2018, 4, 184-193.	4.4	39
17	Efficient complementary metamaterial element for waveguide-fed metasurface antennas. <i>Optics Express</i> , 2016, 24, 28686.	3.4	38
18	Phaseless coherent and incoherent microwave ghost imaging with dynamic metasurface apertures. <i>Optica</i> , 2018, 5, 1529.	9.3	37

#	ARTICLE	IF	CITATIONS
19	Generalized range migration algorithm for synthetic aperture radar image reconstruction of metasurface antenna measurements. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2610.	2.1	32
20	Single-frequency 3D synthetic aperture imaging with dynamic metasurface antennas. <i>Applied Optics</i> , 2018, 57, 4123.	1.8	30
21	Implementation and Characterization of a Two-Dimensional Printed Circuit Dynamic Metasurface Aperture for Computational Microwave Imaging. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 2151-2164.	5.1	27
22	Dynamic Metasurface Aperture as Smart Around-the-Corner Motion Detector. <i>Scientific Reports</i> , 2018, 8, 6536.	3.3	26
23	Focusing Microwaves in the Fresnel Zone With a Cavity-Backed Holographic Metasurface. <i>IEEE Access</i> , 2018, 6, 12815-12824.	4.2	18
24	Analytic Model of a Coax-Fed Planar Cavity-Backed Metasurface Antenna for Pattern Synthesis. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 5853-5866.	5.1	18
25	Single-frequency near-field MIMO imaging. , 2017, , .		15
26	Near Field Scan Alignment Procedure for Electrically Large Apertures. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 3257-3262.	5.1	12
27	Computational through-wall imaging using a dynamic metasurface antenna. <i>OSA Continuum</i> , 2019, 2, 3499.	1.8	10
28	Computational Imaging With Dynamic Metasurfaces: A Recipe for Simple and Low-Cost Microwave Imaging. <i>IEEE Antennas and Propagation Magazine</i> , 2022, 64, 123-134.	1.4	8
29	Security screening via computational imaging using frequency-diverse metasurface apertures. , 2017, , .		4
30	Alternative synthetic aperture radar (SAR) modalities using a 1D dynamic metasurface antenna. , 2017, , .		3
31	Efficient Holographic Focusing Metasurface. <i>Electronics (Switzerland)</i> , 2021, 10, 1837.	3.1	3
32	Reconfigurable Metasurface Apertures for Computational Imaging. , 2017, , .		3
33	Sub-Wavelength Focusing in Inhomogeneous Media with a Metasurface Near Field Plate. <i>Sensors</i> , 2019, 19, 4534.	3.8	2
34	Near-field SAR imaging with dynamic metasurface antennas using an adapted range migration algorithm. , 2018, , .		2
35	Reconfigurable metasurface aperture for security screening and microwave imaging. , 2017, , .		1
36	Toward a tunable mode-mixing cavity for computational imaging. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Adapting range migration techniques for imaging with metasurface antennas: analysis and limitations. , 2017, , .		0
38	Aperture synthesis with a monochromatic metasurface imaging system for 3D near-field imaging. , 2018, , .		0