

Jonah N Gollub

List of Publications by Year in descending order

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45
papers

1,681
citations

257450

24
h-index

345221

36
g-index

45
all docs

45
docs citations

45
times ranked

958
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic metamaterial aperture for microwave imaging. Applied Physics Letters, 2015, 107, .	3.3	144
2	Computational imaging using a mode-mixing cavity at microwave frequencies. Applied Physics Letters, 2015, 106, .	3.3	143
3	Review of Metasurface Antennas for Computational Microwave Imaging. IEEE Transactions on Antennas and Propagation, 2020, 68, 1860-1875.	5.1	109
4	Printed Aperiodic Cavity for Computational and Microwave Imaging. IEEE Microwave and Wireless Components Letters, 2016, 26, 367-369.	3.2	95
5	RESOLUTION OF THE FREQUENCY DIVERSE METAMATERIAL APERTURE IMAGER. Progress in Electromagnetics Research, 2015, 150, 97-107.	4.4	93
6	Frequency-diverse microwave imaging using planar Mills-Cross cavity apertures. Optics Express, 2016, 24, 8907.	3.4	91
7	Calculation and measurement of bianisotropy in a split ring resonator metamaterial. Journal of Applied Physics, 2006, 100, 024507.	2.5	85
8	Experimental characterization of magnetic surface plasmons on metamaterials with negative permeability. Physical Review B, 2005, 71, .	3.2	81
9	Characterization of complementary electric field coupled resonant surfaces. Applied Physics Letters, 2008, 93, .	3.3	63
10	Design and Analysis of a Reconfigurable Holographic Metasurface Aperture for Dynamic Focusing in the Fresnel Zone. IEEE Access, 2017, 5, 15055-15065.	4.2	59
11	Design and Simulation of a Frequency-Diverse Aperture for Imaging of Human-Scale Targets. IEEE Access, 2016, 4, 5436-5451.	4.2	58
12	Characterizing the effects of disorder in metamaterial structures. Applied Physics Letters, 2007, 91, 162907.	3.3	50
13	Electronically steered metasurface antenna. Scientific Reports, 2021, 11, 4693.	3.3	48
14	Computational microwave imaging using 3D printed conductive polymer frequency-diverse metasurface antennas. IET Microwaves, Antennas and Propagation, 2017, 11, 1962-1969.	1.4	47
15	Computational polarimetric microwave imaging. Optics Express, 2017, 25, 27488.	3.4	46
16	Multistatic microwave imaging with arrays of planar cavities. IET Microwaves, Antennas and Propagation, 2016, 10, 1174-1181.	1.4	42
17	An efficient broadband metamaterial wave retarder. Optics Express, 2009, 17, 7640.	3.4	40
18	Analytical modeling of printed metasurface cavities for computational imaging. Journal of Applied Physics, 2016, 120, .	2.5	40

#	ARTICLE	IF	CITATIONS
19	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
20	Software Calibration of a Frequency-Diverse, Multistatic, Computational Imaging System. IEEE Access, 2016, 4, 2488-2497.	4.2	35
21	Design and Analysis of a W-Band Metasurface-Based Computational Imaging System. IEEE Access, 2017, 5, 9911-9918.	4.2	31
22	Phaseless computational imaging with a radiating metasurface. Optics Express, 2016, 24, 16760.	3.4	28
23	Hybrid resonant phenomena in a SRR/YIG metamaterial structure. Optics Express, 2009, 17, 2122.	3.4	27
24	Dynamic Metasurface Aperture as Smart Around-the-Corner Motion Detector. Scientific Reports, 2018, 8, 6536.	3.3	26
25	Millimeter-wave spotlight imager using dynamic holographic metasurface antennas. Optics Express, 2017, 25, 18230.	3.4	25
26	Light localization, photon sorting, and enhanced absorption in subwavelength cavity arrays. Optics Express, 2012, 20, 24226.	3.4	21
27	Frequency-Diverse Computational Microwave Phaseless Imaging. IEEE Antennas and Wireless Propagation Letters, 2017, , 1-1.	4.0	21
28	W-Band Sparse Imaging System Using Frequency Diverse Cavity-Fed Metasurface Antennas. IEEE Access, 2018, 6, 73659-73668.	4.2	17
29	Single-frequency near-field MIMO imaging. , 2017, , .		15
30	INVESTIGATION OF ALIGNMENT ERRORS ON MULTI-STATIC MICROWAVE IMAGING BASED ON FREQUENCY-DIVERSE METAMATERIAL APERTURES. Progress in Electromagnetics Research B, 2016, 70, 101-112.	1.0	10
31	Photon sorting in the near field using subwavelength cavity arrays in the near-infrared. Applied Physics Letters, 2013, 103, .	3.3	9
32	Detecting Motion in a Room Using a Dynamic Metasurface Antenna. IEEE Access, 2020, 8, 222496-222505.	4.2	7
33	Symphonic Multiplexing Medium at Microwave Frequencies. Physical Review Applied, 2020, 13, .	3.8	6
34	Generating Information-Diverse Microwave Speckle Patterns Inside a Room at a Single Frequency With a Dynamic Metasurface Aperture. IEEE Access, 2020, 8, 36829-36835.	4.2	5
35	Alignment correction for antenna scans in imaging. , 2017, , .		4
36	Field repeatability in frequency diverse imaging. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
37	Metallization of a 3D printed cavity for imaging. , 2016, , .		3
38	Optimization of frequency-diverse antennas for computational imaging at microwave frequencies. , 2017, , .		3
39	Computational polarimetric localization with a radiating metasurface. , 2017, , .		3
40	Babinet's principle and saturation of the resonance frequency of scaled-down complementary metasurfaces. Applied Physics Letters, 2021, 118, .	3.3	3
41	Measurement of Photon Sorting at Microwave Frequencies in a Cavity Array Metasurface. IEEE Transactions on Antennas and Propagation, 2015, 63, 4521-4524.	5.1	2
42	2D Ray Tracing Analysis of a Dynamic Metasurface Antenna as a Smart Motion Detector. IEEE Access, 2019, 7, 159674-159687.	4.2	2
43	Computational frequency-diverse microwave imaging using an air-filled cavity-backed antenna. , 2017, , .		1
44	Synthesizing a frequency-diverse aperture for security-screening applications. , 2017, , .		1
45	Toward a tunable mode-mixing cavity for computational imaging. , 2016, , .		0