

Shulabh Gupta

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

1,052
citations

17
h-index

31
g-index

90
ext. papers

1,379
ext. citations

3.3
avg, IF

4.75
L-index

#	Paper	IF	Citations
71	Group-Delay Engineered Noncommensurate Transmission Line All-Pass Network for Analog Signal Processing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 2392-2407	4.1	107
70	Analog Signal Processing: A Possible Alternative or Complement to Dominantly Digital Radio Schemes. <i>IEEE Microwave Magazine</i> , 2013 , 14, 87-103	1.2	93
69	Microwave Analog Real-Time Spectrum Analyzer (RTSA) Based on the Spectral Spatial Decomposition Property of Leaky-Wave Structures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 2989-2999	4.1	86
68	Nonreciprocal Nongyrotropic Magnetless Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 3589-3597	4.9	76
67	Compressive Receiver Using a CRLH-Based Dispersive Delay Line for Analog Signal Processing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 2617-2626	4.1	58
66	Chipless RFID System Based on Group Delay Engineered Dispersive Delay Structures. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 1366-1368	3.8	55
65	Synthesis of electromagnetic metasurfaces: principles and illustrations. <i>EPJ Applied Metamaterials</i> , 2015 , 2, 12	0.8	50
64	Synthesis of Narrowband Reflection-Type Phasers With Arbitrary Prescribed Group Delay. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 2394-2402	4.1	42
63	Increased Group-Delay Slope Loop System for Enhanced-Resolution Analog Signal Processing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011 , 59, 1622-1628	4.1	39
62	Experimental Demonstration and Characterization of a Tunable CRLH Delay Line System for Impulse/Continuous Wave. <i>IEEE Microwave and Wireless Components Letters</i> , 2007 , 17, 864-866	2.6	36
61	Finite-Difference Time-Domain Modeling of Space-Time-Modulated Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 281-292	4.9	33
60	Distortion-Less Real-Time Spectrum Sniffing Based on a Stepped Group-Delay Phaser. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 601-603	2.6	33
59	Dielectric Resonator Metasurface for Dispersion Engineering. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 673-680	4.9	28
58	Multilayer Broadside-Coupled Dispersive Delay Structures for Analog Signal Processing. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 1-3	2.6	23
57	CRLH-CRLH C-Section Dispersive Delay Structures With Enhanced Group-Delay Swing for Higher Analog Signal Processing Resolution. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 3939-3949	4.1	21
56	A Simple Picosecond Pulse Generator Based on a Pair of Step Recovery Diodes. <i>IEEE Microwave and Wireless Components Letters</i> , 2017 , 27, 467-469	2.6	19
55	Generalized Coupled-Line All-Pass Phasers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 1007-1018	4.1	19

54	All-pass dispersion synthesis using microwave C-sections. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 1228-1245	2	16
53	Finite-Difference Modeling of Broadband Huygens Metasurfaces Based on Generalized Sheet Transition Conditions. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2566-2577	4.9	13
52	Complete family of periodic Talbot filters for pulse repetition rate multiplication. <i>Optics Express</i> , 2006 , 14, 4270-9	3.3	13
51	High-Q all-dielectric thermal emitters for mid-infrared gas-sensing applications. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018 , 35, 119-124	1.8	11
50	Scattering Field Solutions of Metasurfaces Based on the Boundary Element Method for Interconnected Regions in 2-D. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 7487-7495	4.9	11
49	Bit-error-rate (BER) performance in dispersion code multiple access (DCMA) 2015 ,		10
48	Wave-Interference Explanation of Group-Delay Dispersion in Resonators [Education Column]. <i>IEEE Antennas and Propagation Magazine</i> , 2013 , 55, 212-227	1.7	9
47	Loss-Gain Equalized Reconfigurable C-Section Analog Signal Processor. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 555-564	4.1	9
46	Surface Impedance Engineered Low-Profile Dual-Band Grooved-Dielectric Choke Ring for GNSS Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 2008-2011	4.9	8
45	Enhancement of Time-Reversal Subwavelength Wireless Transmission Using Pulse Shaping. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 4169-4174	4.9	8
44	Schrödinger solitons in left-handed SiO ₂ /Ag/BiO ₂ and Ag/BiO ₂ /Ag plasmonic waveguides calculated with a nonlinear transmission line approach. <i>Journal of Applied Physics</i> , 2008 , 104, 124510	2.5	8
43	Enhanced Bandwidth and Diversity in Real-Time Analog Signal Processing (R-ASP) Using Nonuniform C-Section Phasers. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 663-665	2.6	8
42	. <i>IEEE Access</i> , 2020 , 8, 93408-93425	3.5	7
41	FDTD Simulation of Dispersive Metasurfaces With Lorentzian Surface Susceptibilities. <i>IEEE Access</i> , 2020 , 8, 83027-83040	3.5	6
40	Real-Time Dispersion Code Multiple Access for High-Speed Wireless Communications. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 266-281	9.6	6
39	Perfect Dispersive Medium for Real-Time Signal Processing. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 5299-5308	4.9	6
38	Floquet Analysis of Space-Time Modulated Metasurfaces with Lorentz Dispersion. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	6
37	Millimeter-Wave Slot Array Antenna Front-End for Amplitude-Only Direction Finding. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 5365-5374	4.9	5

36	Reconfigurable phaser using gain-loss C-sections for radio analog signal processing (R-ASP) 2015 ,		5
35	. <i>IEEE Access</i> , 2020 , 8, 226866-226886	3.5	5
34	All-Dielectric Fabry-Pérot-Based Compound Huygens Structure for Millimeter-Wave Beamforming. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 273-285	4.9	5
33	All-pass metasurfaces based on interconnected dielectric resonators as a spatial phaser for real-time analog signal processing 2015 ,		4
32	Analog signal processing (ASP) for high-speed microwave and millimeter-wave systems 2012 ,		4
31	Millimeter-Wave Huygens Transmit Arrays Based on Coupled Metallic Resonators. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 2686-2696	4.9	4
30	Group delay swing enhancement in transmission-line all-pass networks using coupling and dispersion boosting ferrimagnetic substrate. <i>Microwave and Optical Technology Letters</i> , 2012 , 54, 589-593 ^{1,2}		3
29	General Formulation of the Boundary Element Method (BEM) for Curvilinear Metasurfaces in the Presence of Multiple Scattering Objects 2020 ,		3
28	A Low-cost Light-weight 3D-printed Choke Ring for Multipath Mitigation for GNSS Antennas 2019 ,		3
27	Integrated Multiport Leaky-Wave Antenna Multiplexer/Demultiplexer System for Millimeter-Wave Communication. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5244-5256	4.9	3
26	Millimeter-Wave Integrated Side-Fire Leaky-Wave Antenna and Its Application as a Spectrum Analyzer. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5401-5412	4.9	3
25	Modified Explicit Finite-Difference Time-Domain Method for Nonparaxial Wave Scattering From Electromagnetic Metasurfaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 1238-1242	3.8	2
24	Hybrid-cascade coupled-line phasers for high-resolution radio-analog signal processing. <i>Microwave and Optical Technology Letters</i> , 2014 , 56, 2502-2504	1.2	2
23	CRLH leaky-wave antenna based frequency division duplexing transceiver yes 2009 ,		2
22	Metasurface Modeling of Periodic Diffraction Gratings based on Generalized Sheet Transition Conditions (GSTCs) 2020 ,		2
21	Multi-Port Leaky-Wave Antennas as Real-Time Analog Spectral Decomposers 2020 ,		2
20	All-Dielectric Huygens Metasurface Pair for mm-Wave Circularly-Polarized Beam-Forming 2020 ,		2
19	Active micro-ring resonators as compact perfect dispersive devices 2016 ,		2

18	Reflection-Cancelling Dielectric Huygens-Metasurface Pair for Wideband Millimeter-Wave Beam-Forming 2019 ,		2
17	Experimental demonstration of active phasers based on codirectional coupling for real-time analog signal processing. <i>Microwave and Optical Technology Letters</i> , 2019 , 61, 1778-1782	1.2	1
16	Direct thermal emission testing of aperiodic dielectric stack for narrowband thermal emission at mid-IR. <i>Journal of Applied Physics</i> , 2020 , 127, 114502	2.5	1
15	Conductor-backed dielectric metasurface thermal emitters for mid-infrared spectroscopy. <i>Journal of Applied Physics</i> , 2020 , 127, 033105	2.5	1
14	Real-Time Electromagnetic Signal Processing: Principles and Illustrations 2017 ,		1
13	Amplitude-equalized microwave phasers 2018 ,		1
12	Chipless RFID tags based on multiple band-rejected planar log-periodic antennas 2013 ,		1
11	Low-Cost Analog Pulse Compression Technique Based on Mixing With an Auxiliary Pulse. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 150-152	2.6	1
10	IE-GSTC Metasurface Field Solver using Surface Susceptibility Tensors with Normal Polarizabilities. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	1
9	Laser-Drilled All-Dielectric Huygens-Transmit-Arrays as 120 GHz Band Beamformers. <i>IEEE Access</i> , 2020 , 8, 153815-153825	3.5	1
8	Fabry-Pérot-Based Compound All-Dielectric Huygens-Structure for Circularly Polarized Millimeter-Wave Beamforming. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 1784-1788	3.8	1
7	Relation between Complex Propagation Constant and Complex Eigenmodes in Lossy Traveling-Wave Structures 2019 ,		1
6	Ray-Optical Evaluation of Scattering from Electrically Large Metasurfaces Characterized by Locally Periodic Surface Susceptibilities. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	1
5	Active Phasers based on Co-directional Couplers for Millimeter-wave Analog Signal Processing 2018 ,		1
4	Complex Eigenmodes and Eigenfrequencies in Electromagnetics. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 4644-4656	4.9	1
3	Generalized spatial Talbot effect based on all-dielectric metasurfaces. <i>Optics Communications</i> , 2017 , 384, 25-29	2	
2	Unveiling Magnetic Dipole Radiation in Phase-Reversal Leaky-Wave Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014 , 13, 786-789	3.8	
1	Metasurface Near-Field Measurements with Incident Field Reconstruction Using a Single Horn Antenna. <i>IEEE Instrumentation and Measurement Magazine</i> , 2022 , 25, 69-75	1.4	

