

Prakash Pitchappa

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.

54
papers

1,963
citations

25
h-index

43
g-index

82
ext. papers

2,569
ext. citations

7.7
avg, IF

5.28
L-index

#	Paper	IF	Citations
54	Terahertz topological photonics for on-chip communication. <i>Nature Photonics</i> , 2020 , 14, 446-451	33.9	174
53	Active Control of Electromagnetically Induced Transparency Analog in Terahertz MEMS Metamaterial. <i>Advanced Optical Materials</i> , 2016 , 4, 541-547	8.1	150
52	An intelligent skin based self-powered finger motion sensor integrated with triboelectric nanogenerator. <i>Nano Energy</i> , 2016 , 19, 532-540	17.1	147
51	Reconfigurable MEMS Fano metasurfaces with multiple-input-output states for logic operations at terahertz frequencies. <i>Nature Communications</i> , 2018 , 9, 4056	17.4	124
50	Chalcogenide Phase Change Material for Active Terahertz Photonics. <i>Advanced Materials</i> , 2019 , 31, e180157	15.7	95
49	Active Phase Transition via Loss Engineering in a Terahertz MEMS Metamaterial. <i>Advanced Materials</i> , 2017 , 29, 1700733	24	87
48	Active Multifunctional Microelectromechanical System Metadevices: Applications in Polarization Control, Wavefront Deflection, and Holograms. <i>Advanced Optical Materials</i> , 2017 , 5, 1600716	8.1	84
47	Nanofluidic terahertz metasensor for sensing in aqueous environment. <i>Applied Physics Letters</i> , 2018 , 113, 071105	3.4	63
46	Micro-electro-mechanically switchable near infrared complementary metamaterial absorber. <i>Applied Physics Letters</i> , 2014 , 104, 201114	3.4	63
45	A Superconducting Dual-Channel Photonic Switch. <i>Advanced Materials</i> , 2018 , 30, e1801257	24	62
44	Electrothermally actuated microelectromechanical systems based omega-ring terahertz metamaterial with polarization dependent characteristics. <i>Applied Physics Letters</i> , 2014 , 104, 161104	3.4	62
43	Microfluidic metamaterial sensor: Selective trapping and remote sensing of microparticles. <i>Journal of Applied Physics</i> , 2017 , 121, 023102	2.5	55
42	Dual band complementary metamaterial absorber in near infrared region. <i>Journal of Applied Physics</i> , 2014 , 115, 193109	2.5	53
41	Active control of near-field coupling in conductively coupled microelectromechanical system metamaterial devices. <i>Applied Physics Letters</i> , 2016 , 108, 111102	3.4	53
40	Reconfigurable Digital Metamaterial for Dynamic Switching of Terahertz Anisotropy. <i>Advanced Optical Materials</i> , 2016 , 4, 391-398	8.1	42
39	Active Control of Resonant Cloaking in a Terahertz MEMS Metamaterial. <i>Advanced Optical Materials</i> , 2018 , 6, 1800141	8.1	40
38	Microelectromechanically reconfigurable interpixelated metamaterial for independent tuning of multiple resonances at terahertz spectral region. <i>Optica</i> , 2015 , 2, 571	8.6	39

37	Active control of electromagnetically induced transparency with dual dark mode excitation pathways using MEMS based tri-atomic metamolecules. <i>Applied Physics Letters</i> , 2016 , 109, 211103	3.4	38
36	Novel CMOS-Compatible Mo ₃ AlN ₃ Mo Platform for Metamaterial-Based Mid-IR Absorber. <i>ACS Photonics</i> , 2017 , 4, 302-315	6.3	34
35	Shaping High-Q Planar Fano Resonant Metamaterials toward Futuristic Technologies. <i>Advanced Optical Materials</i> , 2018 , 6, 1800502	8.1	34
34	Microelectromechanically tunable multiband metamaterial with preserved isotropy. <i>Scientific Reports</i> , 2015 , 5, 11678	4.9	31
33	Active MEMS metamaterials for THz bandwidth control. <i>Applied Physics Letters</i> , 2017 , 110, 161108	3.4	30
32	Micro-electro-mechanically tunable metamaterial with enhanced electro-optic performance. <i>Applied Physics Letters</i> , 2014 , 104, 151104	3.4	27
31	Periodic Array of Subwavelength MEMS Cantilevers for Dynamic Manipulation of Terahertz Waves. <i>Journal of Microelectromechanical Systems</i> , 2015 , 24, 525-527	2.5	26
30	Bidirectional reconfiguration and thermal tuning of microcantilever metamaterial device operating from 77 K to 400 K. <i>Applied Physics Letters</i> , 2017 , 111, 261101	3.4	25
29	Electrically Programmable Terahertz Diatomic Metamolecules for Chiral Optical Control. <i>Research</i> , 2019 , 2019, 7084251	7.8	25
28	Guided-Mode Resonances in All-Dielectric Terahertz Metasurfaces. <i>Advanced Optical Materials</i> , 2020 , 8, 1900959	8.1	25
27	Extended Bound States in the Continuum with Symmetry-Broken Terahertz Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2021 , 9, 2002001	8.1	24
26	Frequency-Agile Temporal Terahertz Metamaterials. <i>Advanced Optical Materials</i> , 2020 , 8, 2000101	8.1	20
25	Digitally reconfigurable binary coded terahertz metamaterial with output analogous to NOR and AND. <i>Journal of Applied Physics</i> , 2016 , 119, 153104	2.5	19
24	Volatile Ultrafast Switching at Multilevel Nonvolatile States of Phase Change Material for Active Flexible Terahertz Metadevices. <i>Advanced Functional Materials</i> , 2021 , 31, 2100200	15.6	19
23	Polarization controllable multispectral symmetry-breaking absorber in mid-infrared. <i>Journal of Applied Physics</i> , 2016 , 120, 063105	2.5	18
22	Dipolar Resonance Enhancement and Magnetic Resonance in Cross-Coupled Bow-Tie Nanoantenna Array by Plasmonic Cavity. <i>ACS Photonics</i> , 2015 , 2, 890-898	6.3	16
21	Two-dimensional photonic-crystal-based Fabry-Perot etalon. <i>Optics Letters</i> , 2015 , 40, 2743-6	3	15
20	. <i>IEEE Electron Device Letters</i> , 2013 , 34, 987-989	4.4	15

19	A multiband flexible terahertz metamaterial with curvature sensing functionality. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 075101	1.7	15
18	Thermoplasmonic Study of a Triple Band Optical Nanoantenna Strongly Coupled to Mid IR Molecular Mode. <i>Scientific Reports</i> , 2016 , 6, 22227	4.9	14
17	Suspended 2-D photonic crystal aluminum nitride membrane reflector. <i>Optics Express</i> , 2015 , 23, 10598-603	9.3	13
16	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 94-100	3.8	11
15	High Temperature Coupling of IR Inactive C?C Mode in Complementary Metal Oxide Semiconductor Metamaterial Structure. <i>Advanced Optical Materials</i> , 2017 , 5, 1600778	8.1	10
14	Characterization of polycrystalline silicon-based photonic crystal-suspended membrane for high temperature applications. <i>Journal of Nanophotonics</i> , 2014 , 8, 084096	1.1	10
13	Terahertz MEMS metadevices. <i>Journal of Micromechanics and Microengineering</i> , 2021 , 31, 113001	2	9
12	Spectral imaging and spectral LIDAR systems: moving toward compact nanophotonics-based sensing. <i>Nanophotonics</i> , 2021 , 10, 1437-1467	6.3	8
11	On-Chip Active Control of Ultra-High-Q Terahertz Photonic Topological Cavities.. <i>Advanced Materials</i> , 2022 , e2202370	24	6
10	Terahertz Reconfigurable Intelligent Surfaces (RISs) for 6G Communication Links.. <i>Micromachines</i> , 2022 , 13,	3.3	4
9	Space-Time Wave Packets from Smith-Purcell Radiation. <i>Advanced Science</i> , 2021 , 8, e2100925	13.6	4
8	Electrically Programmable Terahertz Diatomic Metamolecules for Chiral Optical Control. <i>Research</i> , 2019 , 2019, 1-11	7.8	3
7	Electromechanically Tunable Frequency-agile Metamaterial Bandpass Filters for Terahertz Waves. <i>Advanced Optical Materials</i> , 2101544	8.1	3
6	Metamaterials: Active Control of Electromagnetically Induced Transparency Analog in Terahertz MEMS Metamaterial (Advanced Optical Materials 4/2016). <i>Advanced Optical Materials</i> , 2016 , 4, 540-540	8.1	3
5	Digitally reconfigurable binary coded terahertz metamaterial with output analogous to NOR and AND 2016 ,		2
4	Enhanced controllability in MEMS metamaterial 2015 ,		1
3	Electrostatically switchable MEMS terahertz metamaterial with polarization-insensitive characteristics 2015 ,		1
2	Packaging Technology for Devices in Autonomous Sensor Networks. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2012 , 265-305	2	

- 1 Terahertz MEMS metamaterials **2017**, 321-344