

Prakash Pitchappa

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5347892/prakash-pitchappa-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 Reconfigurable Intelligent Surfaces (RISs) for 6G Communication Links.. <i>Micromachines</i> , 2022 , 13,	3.3	4
53	On-Chip Active Control of Ultra-High-Q Terahertz Photonic Topological Cavities.. <i>Advanced Materials</i> , 2022 , e2202370	24	6
52	Space-Time Wave Packets from Smith-Purcell Radiation. <i>Advanced Science</i> , 2021 , 8, e2100925	13.6	4
51	Extended Bound States in the Continuum with Symmetry-Broken Terahertz Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2021 , 9, 2002001	8.1	24
50	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
49	Spectral imaging and spectral LIDAR systems: moving toward compact nanophotonics-based sensing. <i>Nanophotonics</i> , 2021 , 10, 1437-1467	6.3	8
48	Terahertz MEMS metadevices. <i>Journal of Micromechanics and Microengineering</i> , 2021 , 31, 113001	2	9
47	Frequency-Agile Temporal Terahertz Metamaterials. <i>Advanced Optical Materials</i> , 2020 , 8, 2000101	8.1	20
46	Terahertz topological photonics for on-chip communication. <i>Nature Photonics</i> , 2020 , 14, 446-451	33.9	174
45	Guided-Mode Resonances in All-Dielectric Terahertz Metasurfaces. <i>Advanced Optical Materials</i> , 2020 , 8, 1900959	8.1	25
44	Chalcogenide Phase Change Material for Active Terahertz Photonics. <i>Advanced Materials</i> , 2019 , 31, e1808157	24.157	95
43	Electrically Programmable Terahertz Diatomic Metamolecules for Chiral Optical Control. <i>Research</i> , 2019 , 2019, 1-11	7.8	3
42	Electrically Programmable Terahertz Diatomic Metamolecules for Chiral Optical Control. <i>Research</i> , 2019 , 2019, 7084251	7.8	25
41	Shaping High-Q Planar Fano Resonant Metamaterials toward Futuristic Technologies. <i>Advanced Optical Materials</i> , 2018 , 6, 1800502	8.1	34
40	Nanofluidic terahertz metasensor for sensing in aqueous environment. <i>Applied Physics Letters</i> , 2018 , 113, 071105	3.4	63
39	A Superconducting Dual-Channel Photonic Switch. <i>Advanced Materials</i> , 2018 , 30, e1801257	24	62
38	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

37	Active Control of Resonant Cloaking in a Terahertz MEMS Metamaterial. <i>Advanced Optical Materials</i> , 2018 , 6, 1800141	8.1	40
36	Novel CMOS-Compatible Mo ₂ AlN ₃ Mo Platform for Metamaterial-Based Mid-IR Absorber. <i>ACS Photonics</i> , 2017 , 4, 302-315	6.3	34
35	High Temperature Coupling of IR Inactive C ₂ C Mode in Complementary Metal Oxide Semiconductor Metamaterial Structure. <i>Advanced Optical Materials</i> , 2017 , 5, 1600778	8.1	10
34	Microfluidic metamaterial sensor: Selective trapping and remote sensing of microparticles. <i>Journal of Applied Physics</i> , 2017 , 121, 023102	2.5	55
33	Active MEMS metamaterials for THz bandwidth control. <i>Applied Physics Letters</i> , 2017 , 110, 161108	3.4	30
32	Active Phase Transition via Loss Engineering in a Terahertz MEMS Metamaterial. <i>Advanced Materials</i> , 2017 , 29, 1700733	24	87
31	Active Multifunctional Microelectromechanical System Metadevices: Applications in Polarization Control, Wavefront Deflection, and Holograms. <i>Advanced Optical Materials</i> , 2017 , 5, 1600716	8.1	84
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	Terahertz MEMS metamaterials 2017 , 321-344		
28	An intelligent skin based self-powered finger motion sensor integrated with triboelectric nanogenerator. <i>Nano Energy</i> , 2016 , 19, 532-540	17.1	147
27	Digitally reconfigurable binary coded terahertz metamaterial with output analogous to NOR and AND 2016 ,		2
26	Reconfigurable Digital Metamaterial for Dynamic Switching of Terahertz Anisotropy. <i>Advanced Optical Materials</i> , 2016 , 4, 391-398	8.1	42
25	Active Control of Electromagnetically Induced Transparency Analog in Terahertz MEMS Metamaterial. <i>Advanced Optical Materials</i> , 2016 , 4, 541-547	8.1	150
24	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
23	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
22	Polarization controllable multispectral symmetry-breaking absorber in mid-infrared. <i>Journal of Applied Physics</i> , 2016 , 120, 063105	2.5	18
21	Active control of near-field coupling in conductively coupled microelectromechanical system metamaterial devices. <i>Applied Physics Letters</i> , 2016 , 108, 111102	3.4	53
20	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

19	A multiband flexible terahertz metamaterial with curvature sensing functionality. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 075101	1.7	15
18	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
17	Microelectromechanically tunable multiband metamaterial with preserved isotropy. <i>Scientific Reports</i> , 2015 , 5, 11678	4.9	31
16	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
15	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
14	Enhanced controllability in MEMS metamaterial 2015 ,		1
13	Microelectromechanically reconfigurable interpixelated metamaterial for independent tuning of multiple resonances at terahertz spectral region. <i>Optica</i> , 2015 , 2, 571	8.6	39
12	Suspended 2-D photonic crystal aluminum nitride membrane reflector. <i>Optics Express</i> , 2015 , 23, 10598-603	6.3	13
11	Two-dimensional photonic-crystal-based Fabry-Perot etalon. <i>Optics Letters</i> , 2015 , 40, 2743-6	3	15
10	Electrostatically switchable MEMS terahertz metamaterial with polarization-insensitive characteristics 2015 ,		1
9	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 94-100	3.8	11
8	Electrothermally actuated microelectromechanical systems based omega-ring terahertz metamaterial with polarization dependent characteristics. <i>Applied Physics Letters</i> , 2014 , 104, 161104	3.4	62
7	Micro-electro-mechanically tunable metamaterial with enhanced electro-optic performance. <i>Applied Physics Letters</i> , 2014 , 104, 151104	3.4	27
6	Dual band complementary metamaterial absorber in near infrared region. <i>Journal of Applied Physics</i> , 2014 , 115, 193109	2.5	53
5	Micro-electro-mechanically switchable near infrared complementary metamaterial absorber. <i>Applied Physics Letters</i> , 2014 , 104, 201114	3.4	63
4	Characterization of polycrystalline silicon-based photonic crystal-suspended membrane for high temperature applications. <i>Journal of Nanophotonics</i> , 2014 , 8, 084096	1.1	10
3	. <i>IEEE Electron Device Letters</i> , 2013 , 34, 987-989	4.4	15
2	Packaging Technology for Devices in Autonomous Sensor Networks. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2012 , 265-305	2	

- 1 Electromechanically Tunable Frequency-agile Metamaterial Bandpass Filters for Terahertz Waves. 8.1 3
Advanced Optical Materials, 2101544