

Premjeet Chahal

List of Publications by Year in descending order

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94
papers

889
citations

687363

13
h-index

642732

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g-index

94
all docs

94
docs citations

94
times ranked

821
citing authors

#	ARTICLE	IF	CITATIONS
1	Blockchain Inspired RFID-Based Information Architecture for Food Supply Chain. IEEE Internet of Things Journal, 2019, 6, 5803-5813.	8.7	208
2	Demonstration of RF and Microwave Passive Circuits Through 3-D Printing and Selective Metalization. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 463-471.	2.5	61
3	3-D Printed Air Substrates for the Design and Fabrication of RF Components. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 982-989.	2.5	42
4	Design of a Split-Ring Resonator Sensor for Near-Field Microwave Imaging. IEEE Sensors Journal, 2018, 18, 7066-7076.	4.7	41
5	Affordable terahertz components using 3D printing. , 2015, , .		29
6	A Passive Harmonic RFID Tag and Interrogator Development. IEEE Journal of Radio Frequency Identification, 2019, 3, 98-107.	2.3	27
7	CNTs and Graphene-Based Diodes for Microwave and Millimeter-Wave Circuits on Flexible Substrates. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 1766-1775.	2.5	23
8	A Chip-First Approach to Millimeter-Wave Circuit Packaging. IEEE Microwave and Wireless Components Letters, 2019, 29, 116-118.	3.2	22
9	Embedded Actives Using Additive Manufacturing for High-Density RF Circuits and Systems. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 1643-1651.	2.5	20
10	3D printed metalized-polymer UWB high-gain Vivaldi antennas. , 2016, , .		19
11	Harmonic RFID Communication Using Conventional UHF System. IEEE Journal of Radio Frequency Identification, 2019, 3, 227-235.	2.3	19
12	3D Printed High Frequency Coaxial Transmission Line Based Circuits. , 2017, , .		18
13	Wafer-level integration of micro-lens for THz focal plane array application. , 2013, , .		17
14	Embedded Passive RF Tags towards Intrinsically Locatable Buried Plastic Materials. , 2016, , .		16
15	A Wireless Passive pH Sensor With Clutter Rejection Scheme. IEEE Sensors Journal, 2019, 19, 3399-3407.	4.7	16
16	Wireless Biosensing Using Silver-Enhancement Based Self-Assembled Antennas in Passive Radio Frequency Identification (RFID) Tags. IEEE Sensors Journal, 2015, 15, 4442-4450.	4.7	15
17	AuNP-RF sensor: An innovative application of RF technology for sensing pathogens electrically in liquids (SPEL) within the food supply chain. Biosensors and Bioelectronics, 2018, 111, 152-158.	10.1	15
18	Recent Advances and Applications of Passive Harmonic RFID Systems: A Review. Micromachines, 2021, 12, 420.	2.9	15

#	ARTICLE	IF	CITATIONS
19	A Design Study of 5G Antennas Optimized Using Genetic Algorithms. , 2017, , .		14
20	Aerosol-Jet Printed Quasi-Optical Terahertz Filters. , 2017, , .		13
21	A novel 3D printed Vivaldi antenna utilizing a substrate integrated waveguide transition. , 2017, , .		12
22	Aerosol Jet Printed Quasi-Optical Terahertz Components. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 765-772.	3.1	12
23	3D Printed Out-of-Plane Antennas for Use on High Density Boards. , 2017, , .		10
24	Study of microwave circuits based on Metal-Insulator-Metal (MIM) diodes on flex substrates. , 2014, , .		9
25	3-D Printed Embedded Passive Harmonic Sensor Tag as Markers for Buried Assets Localization. , 2019, 3, 1-4.		9
26	Metamaterial-inspired miniaturized microwave sensing probes. , 2012, , .		8
27	RFID Compatible Sensor Tags for Remote Liquid Sample Interrogation. , 2016, , .		8
28	Aerosol Jet printed 24 GHz end-fire quasi-Yagi-Uda antenna on a 3-D printed cavity substrate. , 2017, , .		8
29	Capillary Condensation Based Wireless Volatile Molecular Sensor. , 2017, , .		8
30	Fully Additively Manufactured Broadband Low Loss High Frequency Interconnects. , 2018, , .		8
31	Reduced graphene oxide based Schottky diode on flex substrate for microwave circuit applications. , 2013, , .		7
32	A Hybrid Electrical-Mechanical Wireless Magnetoelastic Sensor for Liquid Sample Measurements. , 2016, , .		7
33	A novel 3D printed half-width microstrip leaky-wave antenna. , 2017, , .		7
34	Ultra-wideband hybrid substrate integrated ribbon waveguides using 3D printing. , 2016, , .		6
35	Flexible Chip-First Millimeter-Wave Packaging Using Multiple Dielectrics. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 682-691.	2.5	6
36	Plastic injection micromachining of millimeter and sub-millimeter rectangular waveguide filters. , 2011, , .		5

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37	A novel terahertz power meter using metamaterial-inspired thin-film absorber. , 2011, , .		5
38	Planar surface plasmonic structures for terahertz circuits and sensors. , 2012, , .		5
39	Surface plasmon-assisted terahertz imaging array. , 2012, , .		5
40	A lego-like reconfigurable cavity using 3-D Polyjet technology. , 2017, , .		5
41	THz ribbon waveguides using polymer-ceramic nanocomposites. , 2012, , .		4
42	A Bi-material Fully Aerosol Jet printed W-band Quasi-Yagi-Uda Antenna. , 2018, , .		4
43	3D Printed Hybrid Rigid-Flex Coaxial-Like Transmission Line Structures. , 2018, , .		4
44	Wireless EAS Sensor Tags for Volatile Profiling in Food Packages. , 2018, , .		4
45	Embedded actives for terahertz circuit applications: Imaging array. , 2012, , .		3
46	Embedded diodes for microwave and millimeter wave circuits. , 2014, , .		3
47	Metamaterial-Inspired Sensor on Porous Substrate for Detection of Volatile Organic Compounds in Air. , 2016, , .		3
48	Low-loss RF filter through a combination of additive manufacturing and thin-film process. , 2017, , .		3
49	Multi-band Harmonic RF Tags for Barcode Applications in a Cluttered Environment. , 2017, , .		3
50	A 3D Printed Cavity Backed 2 nd Slotted Waveguide Antenna Array. , 2018, , .		3
51	Additively Manufactured Frequency Selective Structures on Curved Surfaces. , 2018, , .		3
52	A Design Study of 3D Printed Reduced Height Waveguide Structures. , 2018, , .		3
53	A Multiuse Fully 3-D Printed Cavity Sensor for Liquid Profiling. , 2019, 3, 1-4.		3
54	Demonstration of Substrate Integrated Ribbon Waveguide Using 3-D Printing. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 146-155.	2.5	3

#	ARTICLE	IF	CITATIONS
55	Direct Printing of Antennas on Large 3D Printed Plastic Structures. , 2020, , .		3
56	Wireless Battery-Free Harmonic Communication System for Pressure Sensing. Micromachines, 2020, 11, 1043.	2.9	3
57	UV Flash Sintering of Aerosol Jet Printed Silver Conductors for Microwave Circuit Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 342-350.	2.5	3
58	Hybrid RFID Based Batteryless Seat Sensor With Discontinuous RF Transmission. IEEE Transactions on Vehicular Technology, 2022, 71, 2305-2318.	6.3	3
59	Planar terahertz circuits using thin dielectric waveguides. , 2011, , .		2
60	Miniaturization of microstrip band stop filter using a novel periodic structure. , 2012, , .		2
61	Metamaterial-inspired miniaturized microwave edge coupled surface scanning probe. , 2013, , .		2
62	Implementation of semiconducting nanowires for the design of THz detectors. , 2013, , .		2
63	Millimeter wave and terahertz dielectric probe microfluidic sensors. , 2014, , .		2
64	Investigation of modulation-capable silicon waveguides for efficient on-wafer terahertz interconnects. , 2015, , .		2
65	3D Printed Integrated Microfluidic Cooling for High Power RF Applications. International Symposium on Microelectronics, 2017, 2017, 000675-000680.	0.0	2
66	A terahertz photonic crystal structure for sensing applications. , 2012, , .		1
67	Metamaterial transmission line based reconfigurable X-band phase shifter design. , 2012, , .		1
68	A multi-layered metamaterial inspired dynamically tunable antenna. , 2013, , .		1
69	Integration of piezoelectric energy harvesting and antenna elements on a common substrate. , 2013, , .		1
70	Enhanced bandwidth “bull's eye” antenna using corrugated metalized plastic. , 2013, , .		1
71	Selective Fabrication of SiC/Si Heterojunction Diodes by Local Laser Annealing Process for Microwave Circuit Applications. IEEE Journal of the Electron Devices Society, 2017, 5, 291-298.	2.1	1
72	A polyjet 3D printed alternative for package to RFIC interconnects. , 2017, , .		1

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73	A Novel Rigid-Flex Aperture Coupled Patch Antenna Array. , 2018, , .		1
74	A Triaxial Applicator for the Measurement of the Electromagnetic Properties of Materials. Sensors, 2018, 18, 383.	3.8	1
75	Broad-Band Dielectric Probes for On-Wafer Characterization of Terahertz Devices. , 2018, , .		1
76	3D Printed Substrates for the Design of Compact RF Systems. , 2019, , .		1
77	A PSK Modulation Scheme for Sensor Integrated RFIDs. , 2019, , .		1
78	A Semi-Hemispherical High Q-Factor Resonators Fabricated using a Hybrid Rigid-Flex Process. , 2020, , .		1
79	A Pen-Writable Electroless Plating Method for Large-Area RF Circuit Applications. , 2020, , .		1
80	Millimeter-Wave Circuits Using 3D Printed Suspended Lines Technology For Automotive Applications. , 2021, , .		1
81	Thin-film based passive RFID sensor tag for detection of packaged food volatiles. International Symposium on Microelectronics, 2019, 2019, 000599-000602.	0.0	1
82	A Substrate-less Process for Heterogeneous Integration of mm-Wave Circuits. , 2021, 2021, 000224-000227.		1
83	A metamaterial-inspired high-Q X-band oscillator. , 2012, , .		0
84	A modified split ring resonator loaded miniaturized reconfigurable antenna. , 2012, , .		0
85	Plasmonic waveguide coupling at terahertz frequencies. , 2012, , .		0
86	Nondestructive millimeter wave imaging and spectroscopy using dielectric focusing probes. , 2014, , .		0
87	Ultra-Miniaturized Planar Absorbing Metamaterial Structures for Millimeter Wave and Terahertz Imaging Array. , 2016, , .		0
88	Implementation of a Partial Overlay Technique for the Characterization of the Electromagnetic Properties of Conductor-Backed Materials. , 2018, , .		0
89	A Volatile Molecular Sensor Using Terahertz Resonators on Porous Substrates. , 2018, , .		0
90	A broadband (10â€“20 GHz) lightweight receive module on multilayer LCP technology for radar applications. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
91	A Compact Wireless Passive Breath Analyzer for Health Monitoring. , 2020, , .		0
92	A Reusable 3D Printed Cavity Resonator for Liquid Sample Characterization. International Symposium on Microelectronics, 2018, 2018, 000389-000392.	0.0	0
93	Design and Fabrication of 3D Printed Reconfigurable Metamaterial-inspired Structures. International Symposium on Microelectronics, 2019, 2019, 000595-000598.	0.0	0
94	X-band Passive Circuits Using 3-D Printed Hollow Substrate Integrated Waveguides. , 2022, , .		0