

Shiyu Zhang

List of Publications by Year in descending order

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61
papers

1,240
citations

430754

18
h-index

414303

32
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61
all docs

61
docs citations

61
times ranked

1027
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Fabrication of 3-D-Printed High-Gain Broadband Fresnel Zone Lens Using Hybrid Groove-Perforation Method for Millimeter-Wave Applications. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 34-38.	2.4	7
2	Dual Circularly Polarized 3-D Printed Broadband Dielectric Reflectarray With a Linearly Polarized Feed. IEEE Transactions on Antennas and Propagation, 2022, 70, 5393-5403.	3.1	17
3	Optimization and experimental validation of a bi-focal lens in the microwave domain. AIP Advances, 2022, 12, 025103.	0.6	1
4	Additively manufactured ultra-low sintering temperature, low loss Ag ₂ Mo ₂ O ₇ ceramic substrates. Journal of the European Ceramic Society, 2021, 41, 394-401.	2.8	29
5	Cold sintered, temperature-stable CaSnSiO ₅ -K ₂ MoO ₄ composite microwave ceramics and its prototype microstrip patch antenna. Journal of the European Ceramic Society, 2021, 41, 424-429.	2.8	36
6	Direct ink writing of bismuth molybdate microwave dielectric ceramics. Ceramics International, 2021, 47, 7625-7631.	2.3	5
7	Dark Mode Excitation in Three-Dimensional Interlaced Metallic Meshes. ACS Photonics, 2021, 8, 841-846.	3.2	11
8	3D conformal bandpass millimeter-wave frequency selective surface with improved fields of view. Scientific Reports, 2021, 11, 12846.	1.6	10
9	Ultra-Wideband Flat Metamaterial GRIN Lenses Assisted With Additive Manufacturing Technique. IEEE Transactions on Antennas and Propagation, 2021, 69, 3788-3799.	3.1	48
10	Online Sequential Task Assignment With Execution Uncertainties for Multiple Robot Manipulators. IEEE Robotics and Automation Letters, 2021, 6, 6993-7000.	3.3	8
11	The Use of a Pair of 3D-Printed Near Field Superstructures to Steer an Antenna Beam in Elevation and Azimuth. IEEE Access, 2021, 9, 153995-154010.	2.6	13
12	Real-time trajectory planning based on joint-decoupled optimization in human-robot interaction. Mechanism and Machine Theory, 2020, 144, 103664.	2.7	17
13	Cold sintered CaTiO ₃ -K ₂ MoO ₄ microwave dielectric ceramics for integrated microstrip patch antennas. Applied Materials Today, 2020, 18, 100519.	2.3	48
14	Microstructure and microwave dielectric properties of 3D printed low loss Bi ₂ Mo ₂ O ₉ ceramics for LTCC applications. Applied Materials Today, 2020, 21, 100862.	2.3	12
15	Fused filament fabrication of functionally graded polymer composites with variable relative permittivity for microwave devices. Materials and Design, 2020, 193, 108871.	3.3	33
16	Fabrication of Artificial Dielectrics via Stereolithography Based 3D-Printing. , 2020, , .		2
17	Low-Cost Ultrawideband High-Gain Compact Resonant Cavity Antenna. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1271-1275.	2.4	17
18	X Wave Radiator Implemented With 3-D Printed Metamaterials. IEEE Transactions on Antennas and Propagation, 2020, 68, 5478-5486.	3.1	15

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19	Multi-material additive manufacturing of low sintering temperature Bi ₂ Mo ₂ O ₉ ceramics with Ag floating electrodes by selective laser burnout. Virtual and Physical Prototyping, 2020, 15, 133-147.	5.3	30
20	Complex Permittivity Measurement System for Solid Materials Using Complementary Frequency Selective Surfaces. IEEE Access, 2020, 8, 7628-7640.	2.6	8
21	Trajectory planning based on non-convex global optimization for serial manipulators. Applied Mathematical Modelling, 2020, 84, 89-105.	2.2	15
22	Direct Integration of Cold Sintered, Temperature-Stable Bi ₂ Mo ₂ O ₉ -K ₂ MoO ₄ Ceramics on Printed Circuit Boards for Satellite Navigation Antennas. Journal of the European Ceramic Society, 2020, 40, 4029-4034.	2.8	52
23	Evaluation of Microwave Characterization Methods for Additively Manufactured Materials. Designs, 2019, 3, 47.	1.3	22
24	The Impact of 3D Printing Process Parameters on the Dielectric Properties of High Permittivity Composites. Designs, 2019, 3, 50.	1.3	33
25	3D Antennas, Metamaterials, and Additive Manufacturing. , 2019, , .		4
26	Additive Manufacturing for High Performance Antennas and RF Components. , 2019, , .		4
27	Real-time kinematical optimal trajectory planning for haptic feedback manipulators. Simulation, 2019, 95, 621-635.	1.1	1
28	Temperature Stable Cold Sintered (Bi _{0.95} Li _{0.05})(V _{0.9} Mo _{0.1})O ₄ -Na ₂ Mo ₂ O ₇ Microwave Dielectric Composites. Materials, 2019, 12, 1370.	1.3	32
29	Wearable and meshed wideband monopole antennas and their interactions with the human body. IET Microwaves, Antennas and Propagation, 2019, 13, 2412-2418.	0.7	1
30	Enabling Additive Manufacturing for Microwave and Mm-wave Components Fabrication. , 2019, , .		3
31	High quality factor cold sintered Li ₂ MoO ₄ BaFe ₁₂ O ₁₉ composites for microwave applications. Acta Materialia, 2019, 166, 202-207.	3.8	58
32	Workspace analysis for haptic feedback manipulator in virtual cockpit system. Virtual Reality, 2018, 22, 321-338.	4.1	1
33	Cold-Sintered Temperature Stable Na _{0.5} Bi _{0.5} MoO ₄ “Li ₂ MoO ₄ Microwave Composite Ceramics. ACS Sustainable Chemistry and Engineering, 2018, 6, 2438-2444.	3.2	86
34	Offset-fed Metal-only Reflectarray Antenna Design Using 3D-Cross Elements. , 2018, , .		0
35	Additively Manufactured Profiled Conical Horn Antenna With Dielectric Loading. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2128-2132.	2.4	22
36	Real-Time Trajectory Generation for Haptic Feedback Manipulators in Virtual Cockpit Systems. Journal of Computing and Information Science in Engineering, 2018, 18, .	1.7	4

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37	3D-printed millimeter wave lens antenna. , 2017, , .		0
38	Non-uniform mesh for embroidered microstrip antennas. IET Microwaves, Antennas and Propagation, 2017, 11, 1086-1091.	0.7	15
39	Three-dimensional printed millimetre wave dielectric resonator reflectarray. IET Microwaves, Antennas and Propagation, 2017, 11, 2005-2009.	0.7	54
40	Additively manufactured artificial materials with metallic meta-atoms. IET Microwaves, Antennas and Propagation, 2017, 11, 1955-1961.	0.7	19
41	3D-printed lens antenna. , 2017, , .		4
42	3D-printed planar graded index lenses. IET Microwaves, Antennas and Propagation, 2016, 10, 1411-1419.	0.7	101
43	3D printed substrates with graded dielectric properties and their application to patch antennas. , 2016, , .		12
44	Broadband embroidered spiral antenna for off-body communications. IET Microwaves, Antennas and Propagation, 2016, 10, 1395-1401.	0.7	9
45	3D printed dielectric Fresnel lens. , 2016, , .		6
46	Novel 3D printed synthetic dielectric substrates. Microwave and Optical Technology Letters, 2015, 57, 2344-2346.	0.9	62
47	Embroidered Wire Dipole Antennas Using Novel Copper Yarns. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 638-641.	2.4	45
48	On-body measurements of embroidered spiral antenna. , 2015, , .		7
49	Novel additive manufactured synthetic dielectric substrates. , 2015, , .		1
50	3D-printed flat lens for microwave applications. , 2015, , .		21
51	Open-Waveguide dielectric measurements using complementary frequency selective surfaces (CFSS). , 2015, , .		0
52	3D printed flat lenses using synthetic artificial dielectrics. , 2015, , .		1
53	Textile manufacturing techniques in RF devices. , 2014, , .		6
54	Non-uniform meshed embroidered patch antennas. , 2014, , .		0

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55	Embroidered Frequency Selective Surfaces on textiles for wearable applications. , 2013, , .		19
56	Effect of the fabrication parameters on the performance of embroidered antennas. IET Microwaves, Antennas and Propagation, 2013, 7, 1174-1181.	0.7	69
57	Fully fabric knitted antennas for wearable electronics. , 2013, , .		5
58	Repeatability of embroidered patch antennas. , 2013, , .		6
59	Embroidered wearable antennas using conductive threads with different stitch spacings. , 2012, , .		38
60	Addressing the challenges of fabricating microwave antennas using conductive threads. , 2012, , .		22
61	High performance flexible fabric electronics for megahertz frequency communications. , 2011, , .		13