

# Shiyu Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,240  
citations

430754

18  
h-index

414303

32  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1027  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D-printed planar graded index lenses. IET Microwaves, Antennas and Propagation, 2016, 10, 1411-1419.	0.7	101
2	Cold-Sintered Temperature Stable $\text{Na}_{0.5}\text{Bi}_{0.5}\text{MoO}_4\text{-Li}_2\text{MoO}_4$ Microwave Composite Ceramics. ACS Sustainable Chemistry and Engineering, 2018, 6, 2438-2444.	3.2	86
3	Effect of the fabrication parameters on the performance of embroidered antennas. IET Microwaves, Antennas and Propagation, 2013, 7, 1174-1181.	0.7	69
4	Novel 3D printed synthetic dielectric substrates. Microwave and Optical Technology Letters, 2015, 57, 2344-2346.	0.9	62
5	High quality factor cold sintered $\text{Li}_2\text{MoO}_4\text{BaFe}_{12}\text{O}_{19}$ composites for microwave applications. Acta Materialia, 2019, 166, 202-207.	3.8	58
6	Three-dimensional printed millimetre wave dielectric resonator reflectarray. IET Microwaves, Antennas and Propagation, 2017, 11, 2005-2009.	0.7	54
7	Direct Integration of Cold Sintered, Temperature-Stable $\text{Bi}_2\text{Mo}_2\text{O}_9\text{-K}_2\text{MoO}_4$ Ceramics on Printed Circuit Boards for Satellite Navigation Antennas. Journal of the European Ceramic Society, 2020, 40, 4029-4034.	2.8	52
8	Cold sintered $\text{CaTiO}_3\text{-K}_2\text{MoO}_4$ microwave dielectric ceramics for integrated microstrip patch antennas. Applied Materials Today, 2020, 18, 100519.	2.3	48
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	Embroidered Wire Dipole Antennas Using Novel Copper Yarns. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 638-641.	2.4	45
11	Embroidered wearable antennas using conductive threads with different stitch spacings. , 2012, , .		38
12	Cold sintered, temperature-stable $\text{CaSnSiO}_5\text{-K}_2\text{MoO}_4$ composite microwave ceramics and its prototype microstrip patch antenna. Journal of the European Ceramic Society, 2021, 41, 424-429.	2.8	36
13	The Impact of 3D Printing Process Parameters on the Dielectric Properties of High Permittivity Composites. Designs, 2019, 3, 50.	1.3	33
14	Fused filament fabrication of functionally graded polymer composites with variable relative permittivity for microwave devices. Materials and Design, 2020, 193, 108871.	3.3	33
15	Temperature Stable Cold Sintered $(\text{Bi}_{0.95}\text{Li}_{0.05})(\text{V}_{0.9}\text{Mo}_{0.1})\text{O}_4\text{-Na}_2\text{Mo}_2\text{O}_7$ Microwave Dielectric Composites. Materials, 2019, 12, 1370.	1.3	32
16	Multi-material additive manufacturing of low sintering temperature $\text{Bi}_2\text{Mo}_2\text{O}_9$ ceramics with Ag floating electrodes by selective laser burnout. Virtual and Physical Prototyping, 2020, 15, 133-147.	5.3	30
17	Additively manufactured ultra-low sintering temperature, low loss $\text{Ag}_2\text{Mo}_2\text{O}_7$ ceramic substrates. Journal of the European Ceramic Society, 2021, 41, 394-401.	2.8	29
18	Addressing the challenges of fabricating microwave antennas using conductive threads. , 2012, , .		22

#	ARTICLE	IF	CITATIONS
19	Additively Manufactured Profiled Conical Horn Antenna With Dielectric Loading. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2128-2132.	2.4	22
20	Evaluation of Microwave Characterization Methods for Additively Manufactured Materials. Designs, 2019, 3, 47.	1.3	22
21	3D-printed flat lens for microwave applications. , 2015, , .		21
22	Embroidered Frequency Selective Surfaces on textiles for wearable applications. , 2013, , .		19
23	Additively manufactured artificial materials with metallic meta-atoms. IET Microwaves, Antennas and Propagation, 2017, 11, 1955-1961.	0.7	19
24	Real-time trajectory planning based on joint-decoupled optimization in human-robot interaction. Mechanism and Machine Theory, 2020, 144, 103664.	2.7	17
25	Low-Cost Ultrawideband High-Gain Compact Resonant Cavity Antenna. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1271-1275.	2.4	17
26	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
27	Non-uniform mesh for embroidered microstrip antennas. IET Microwaves, Antennas and Propagation, 2017, 11, 1086-1091.	0.7	15
28	X Wave Radiator Implemented With 3-D Printed Metamaterials. IEEE Transactions on Antennas and Propagation, 2020, 68, 5478-5486.	3.1	15
29	Trajectory planning based on non-convex global optimization for serial manipulators. Applied Mathematical Modelling, 2020, 84, 89-105.	2.2	15
30	High performance flexible fabric electronics for megahertz frequency communications. , 2011, , .		13
31	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
32	3D printed substrates with graded dielectric properties and their application to patch antennas. , 2016, , .		12
33	Microstructure and microwave dielectric properties of 3D printed low loss Bi <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> ceramics for LTCC applications. Applied Materials Today, 2020, 21, 100862.	2.3	12
34	Dark Mode Excitation in Three-Dimensional Interlaced Metallic Meshes. ACS Photonics, 2021, 8, 841-846.	3.2	11
35	3D conformal bandpass millimeter-wave frequency selective surface with improved fields of view. Scientific Reports, 2021, 11, 12846.	1.6	10
36	Broadband embroidered spiral antenna for off-body communications. IET Microwaves, Antennas and Propagation, 2016, 10, 1395-1401.	0.7	9

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37	Complex Permittivity Measurement System for Solid Materials Using Complementary Frequency Selective Surfaces. IEEE Access, 2020, 8, 7628-7640.	2.6	8
38	Online Sequential Task Assignment With Execution Uncertainties for Multiple Robot Manipulators. IEEE Robotics and Automation Letters, 2021, 6, 6993-7000.	3.3	8
39	On-body measurements of embroidered spiral antenna. , 2015, , .		7
40	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
41	Repeatability of embroidered patch antennas. , 2013, , .		6
42	Textile manufacturing techniques in RF devices. , 2014, , .		6
43	3D printed dielectric Fresnel lens. , 2016, , .		6
44	Fully fabric knitted antennas for wearable electronics. , 2013, , .		5
45	Direct ink writing of bismuth molybdate microwave dielectric ceramics. Ceramics International, 2021, 47, 7625-7631.	2.3	5
46	3D-printed lens antenna. , 2017, , .		4
47	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
48	3D Antennas, Metamaterials, and Additive Manufacturing. , 2019, , .		4
49	Additive Manufacturing for High Performance Antennas and RF Components. , 2019, , .		4
50	Enabling Additive Manufacturing for Microwave and Mm-wave Components Fabrication. , 2019, , .		3
51	Fabrication of Artificial Dielectrics via Stereolithography Based 3D-Printing. , 2020, , .		2
52	Novel additive manufactured synthetic dielectric substrates. , 2015, , .		1
53	3D printed flat lenses using synthetic artificial dielectrics. , 2015, , .		1
54	Workspace analysis for haptic feedback manipulator in virtual cockpit system. Virtual Reality, 2018, 22, 321-338.	4.1	1

#	ARTICLE	IF	CITATIONS
55	Real-time kinematical optimal trajectory planning for haptic feedback manipulators. Simulation, 2019, 95, 621-635.	1.1	1
56	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
57	Optimization and experimental validation of a bi-focal lens in the microwave domain. AIP Advances, 2022, 12, 025103.	0.6	1
58	Non-uniform meshed embroidered patch antennas. , 2014, , .		0
59	Open-Waveguide dielectric measurements using complementary frequency selective surfaces (CFSS). , 2015, , .		0
60	3D-printed millimeter wave lens antenna. , 2017, , .		0
61	Offset-fed Metal-only Reflectarray Antenna Design Using 3D-Cross Elements. , 2018, , .		0