

# Xiao Zhang

## List of Publications by Year in descending order

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46  
papers

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citations

840776

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docs citations

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times ranked

329  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Compact Dual-Band Circularly Polarized Antenna With Wide Axial-Ratio Beamwidth for Vehicle GPS Satellite Navigation Application. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 8683-8692.	6.3	59
2	Wideband Differentially Fed Patch Antennas Under Dual High-Order Modes for Stable High Gain. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 508-513.	5.1	31
3	E $\uparrow$ H mode transition density and power in two types of inductively coupled plasma configuration. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	21
4	Design and construction of Keda Space Plasma Experiment (KSPEX) for the investigation of the boundary layer processes of ionospheric depletions. <i>Review of Scientific Instruments</i> , 2016, 87, 093504.	1.3	21
5	Design of Wideband and High-Gain Slotline Antenna Using Multi-Mode Radiator. <i>IEEE Access</i> , 2019, 7, 54252-54260.	4.2	18
6	Pressure dependence of an ion beam accelerating structure in an expanding helicon plasma. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	17
7	Coherent structure generated in the boundary layer of a laboratory-created ionospheric depletion. <i>Geophysical Research Letters</i> , 2014, 41, 1413-1419.	4.0	16
8	Laboratory generation of broadband ELF waves by inhomogeneous plasma flow. <i>Geophysical Research Letters</i> , 2017, 44, 1634-1640.	4.0	16
9	The transition mechanisms of the E to H mode and the H to E mode in an inductively coupled argon-mercury mixture discharge. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	15
10	Design of Notched-Wideband Bandpass Filters With Reconfigurable Bandwidth Based on Terminated Cross-Shaped Resonators. <i>IEEE Access</i> , 2020, 8, 37416-37427.	4.2	14
11	Laboratory plasma devices for space physics investigation. <i>Review of Scientific Instruments</i> , 2021, 92, 071101.	1.3	14
12	Compact Microstrip NWB/DWB BPFs With Controllable Isolation Bandwidth for Interference Rejection. <i>IEEE Access</i> , 2019, 7, 49169-49176.	4.2	11
13	Design of Equal-Ripple Dual-Wideband Bandpass Filter With Minimum Design Parameters Based on Cross-Shaped Resonator. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 1780-1784.	3.0	11
14	Analysis and Design of Stable-Performance Circularly-Polarized Antennas Based on Coupled Radiators for Smart Watches. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 5312-5323.	5.1	11
15	Laboratory investigation of the boundary layer processes of artificially created ionospheric depletion. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4134-4145.	2.4	10
16	The influence of gas pressure on E $\uparrow$ H mode transition in argon inductively coupled plasmas. <i>AIP Advances</i> , 2018, 8, .	1.3	9
17	Synthesis Design of Chebyshev Wideband Band-Pass Filters With Independently Reconfigurable Lower Passband Edge. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 2948-2952.	3.0	9
18	A High-Gain and Pattern-Reconfigurable Patch Antenna Under Operation of TM $\uparrow$ and TM $\downarrow$ Modes. <i>IEEE Open Journal of Antennas and Propagation</i> , 2021, 2, 646-653.	3.7	9

#	ARTICLE	IF	CITATIONS
19	Principle and Unified Design of Circularly Polarized Quadruple Inverted-F Antenna With Miniaturized Size and Enhanced Front-to-Back Ratio. IEEE Transactions on Antennas and Propagation, 2022, 70, 7735-7744.	5.1	9
20	A 3-D Printed Spherical Antenna With Bandwidth Enhancement Under Operation of Dual Resonance. IEEE Access, 2020, 8, 19345-19352.	4.2	8
21	Laboratory experiments in the argon plasma perturbed by injections of the electronegative gases. AIP Advances, 2016, 6, 075304.	1.3	6
22	The unstable ELM evolution modulated by lower hybrid waves on EAST. Plasma Physics and Controlled Fusion, 2020, 62, 095007.	2.1	6
23	A Self-Balanced Wideband Patch Antenna Fed With a U-Resonator for Stable Radiation Performance. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 661-665.	4.0	6
24	A Single-Layer Dual-Band Dual-Sense Circularly Polarized Patch Antenna Array With Small Frequency Ratio. IEEE Transactions on Antennas and Propagation, 2022, 70, 2668-2675.	5.1	6
25	Comparisons of the Characteristic on the Mode Transition in an Inductively Coupled Discharge by Exciting Coil Change. IEEE Transactions on Plasma Science, 2017, 45, 338-345.	1.3	5
26	Laboratory simulation of the formation of an ionospheric depletion using Keda Space Plasma Experiment (KSPEX). AIP Advances, 2017, 7, .	1.3	5
27	Compact dual-band printed quadrifilar helix antenna for practical handheld devices. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22384.	1.2	5
28	Double flush-mounted probe diagnostics and data analysis technique for argon glow discharge plasma. Review of Scientific Instruments, 2017, 88, 013502.	1.3	4
29	The factors determining the evolution of edge-localized modes in plasmas driven by lower hybrid currents. Plasma Physics and Controlled Fusion, 2020, 62, 125013.	2.1	4
30	Flush-mounted probe diagnostics for argon glow discharge plasma. Review of Scientific Instruments, 2014, 85, 093505.	1.3	3
31	A Travelling-Wave-Fed Slot Spiral Antenna With Wide Axial-Ratio Bandwidth and Beamwidth for GNSS Applications. IEEE Open Journal of Antennas and Propagation, 2021, 2, 578-584.	3.7	3
32	Dependence of mode transition points and hysteresis upon plasma pressure in a re-entrant configuration of inductively coupled plasma. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, 022601.	1.2	2
33	Slot Loading Effect on the Impedance and Radiation Performance of the TM <sub>03</sub> -Mode High-Gain Square Patch Antenna. , 2019, , .		2
34	Design and fabrication of a resonant-cavity electrode microwave discharge device and its performance in argon and xenon plasma. Review of Scientific Instruments, 2019, 90, .	1.3	2
35	Low-Profile Patch Antennas with Loading of Shorting Pins for Improved Functionalities: Invited Paper. , 2019, , .		2
36	EMI Radiation Suppression of Cables and Connectors for 5G Mobile Devices. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
37	Ion current collection by double flush-mounted probe in intermediate-pressure plasmas. AIP Advances, 2020, 10, .	1.3	1
38	Differentially-Fed Circular Patch Antenna under Dual High-order Modes for Enhanced Bandwidth and Stable High Gain. , 2020, , .		1
39	Linearly and circularly polarized filtering patch antennas with enhanced gain selectivity on a single-layer substrate. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	1.2	1
40	Sheared &lt;i>&lt;b>E&lt;/b>&lt;/i>— &lt;i>&lt;b>B&lt;/b>&lt;/i> flow encountered in space plasma excited from two controllable methods. , 2022, 52, 4.		1
41	An Improved Method for Extracting the Coupling Coefficient of Filtering Antennas within Complex Boundaries. , 2019, , .		0
42	A Differential-Fed Rectangular Microstrip Patch Antenna with Dual-Band High Gain under Operation of TM01 and TM03 Modes. , 2019, , .		0
43	A Quarter-Wavelength Wideband Bandpass Filter with Two notch Bands. , 2019, , .		0
44	Differentially-Fed Rectangular Patch Antenna under TM21 and TM03 Modes for Enhanced Bandwidth and Stable High Gain. , 2021, , .		0
45	Wideband Circularly Polarized Patch Antennas via Co-design of Feeding Networks. , 2020, , .		0
46	A Simple and Planar Notched-Wideband Bandpass Filter with Multipole Poles and Zeros. , 2020, , .		0