

Alexis Chevalier

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1475139/publications.pdf>

Version: 2024-02-01

46
papers

530
citations

623188

14
h-index

676716

22
g-index

46
all docs

46
docs citations

46
times ranked

480
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-loss spinel nanoferrite with matching permeability and permittivity in the ultrahigh frequency range. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	68
2	Dynamic permeability in soft magnetic composite materials. <i>Journal of Applied Physics</i> , 2001, 90, 3462-3465.	1.1	50
3	Experimental determination of magnetocrystalline anisotropy constants and saturation magnetostriction constants of NiZn and NiZnCo ferrites intended to be used for antennas miniaturization. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 374, 762-768.	1.0	38
4	Enhancement of magnetic properties of Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ nanoparticles prepared by the co-precipitation method. <i>Ceramics International</i> , 2016, 42, 10664-10670.	2.3	38
5	Dense and half-dense NiZnCo ferrite ceramics: Their respective relevance for antenna downsizing, according to their dielectric and magnetic properties at microwave frequencies. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	32
6	Influential parameters on electromagnetic properties of nickel-zinc ferrites for antenna miniaturization. <i>Journal of Applied Physics</i> , 2010, 107, 09A518.	1.1	29
7	A New Magneto-Dielectric Material Loaded, Tunable UHF Antenna for Handheld Devices. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011, 10, 951-954.	2.4	26
8	3D printed ferromagnetic composites for microwave applications. <i>Journal of Materials Science</i> , 2017, 52, 4988-4996.	1.7	21
9	Three-Dimensional Printing of Honeycomb Microwave Absorbers: Feasibility and Innovative Multiscale Topologies. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021, 63, 390-397.	1.4	19
10	Intercomparison of permittivity measurement techniques for ferroelectric thin layers. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	18
11	Magnetic and dielectric properties in the UHF frequency band of half-dense Ni-Zn-Co ferrites ceramics with Fe-excess and Fe-deficiency. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 447, 9-14.	1.0	17
12	Gyroresonance in unsaturated composite bodies: Experiments and theory. <i>Journal of Applied Physics</i> , 2000, 87, 4975-4977.	1.1	16
13	A simple process to obtain anisotropic self-biased magnets constituted of stacked barium ferrite single domain particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 208-213.	1.0	16
14	Ferromagnetic resonance of isotropic heterogeneous magnetic materials: theory and experiments. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 215-216, 66-68.	1.0	15
15	Antenna miniaturization and nanoferrite magneto-dielectric materials. , 2010, , .		14
16	Manufacturing of a Magnetic Composite Flexible Filament and Optimization of a 3D Printed Wideband Electromagnetic Multilayer Absorber in X-Ku Frequency Bands. <i>Materials</i> , 2022, 15, 3320.	1.3	12
17	Miniature Reconfigurable Antenna with Magneto Dielectric Substrate for DVB-H Band. <i>Microwave and Optical Technology Letters</i> , 2013, 55, 2007-2011.	0.9	10
18	Broadband permeability measurement method for ferrites at any magnetization state: Experimental results. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	9

#	ARTICLE	IF	CITATIONS
19	Electromagnetic modeling of anisotropic ferrites Application to microstrip Y-junction circulator design. Journal of Applied Physics, 2018, 123, .	1.1	9
20	Moore's curve structuring of ferromagnetic composite PE-NiFe absorbers. Journal of Applied Physics, 2018, 123, .	1.1	7
21	Pressure Dependence of the Frequency Permeability Spectra of Soft Ferrite Composite Materials: A Method of Measuring the Natural Ferromagnetic Resonance Frequency. IEEE Transactions on Magnetics, 2011, 47, 4132-4134.	1.2	6
22	X-Band Compact Microwave Terminations. , 2018, , .		6
23	Magnetic anisotropies in oblique columnar growth of FeCoB films. AIP Advances, 2020, 10, .	0.6	6
24	Development of a high temperature printable composite for microwave absorption applications. AIMS Materials Science, 2021, 8, 739-747.	0.7	6
25	Heat-Resistant 3D Printed Microwave Devices. , 2018, , .		5
26	Tunable Magneto-Dielectric Material for Electrically Small and Reconfigurable Antenna Systems at Vhf Band. Ceramics, 2020, 3, 276-286.	1.0	5
27	Generalized Measurement Method for the Determination of the Dynamic Behavior of Magnetic Materials in Any Magnetization State. IEEE Transactions on Magnetics, 2010, 46, 1687-1690.	1.2	4
28	The magnetic susceptibility in soft magnetic composite materials. European Physical Journal Special Topics, 1998, 08, Pr2-355-Pr2-358.	0.2	3
29	Asymmetrical stripline based method for retrieving the electromagnetic properties of metamaterials. Journal of Applied Physics, 2013, 113, 024912.	1.1	3
30	Composites-based microwave absorbers: Toward a unified model. , 2017, , .		3
31	Determination of Intrinsic and Induced Magnetic Anisotropies in Ni Zn and Ni Zn Co Spinel Ferrites by Using Singular Point Detection Method and Their Comparison With FMR Method. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	3
32	Ferrite Ceramics at Microwave Frequencies: Applications and Characterization. , 2021, , 183-205.		3
33	Broadband permeability measurement method for ferrites at any magnetization state: direct problem. International Journal of Microwave and Wireless Technologies, 2011, 3, 289-294.	1.5	2
34	Modeling antennas printed on magnetized substrate: Application to the design of a tunable PIFA antenna. , 2015, , .		2
35	Application of an Effective Medium Theory to Composite Materials with Randomly Dispersed Particles of Specific Shapes. European Physical Journal Special Topics, 1997, 07, C1-547-C1-548.	0.2	2
36	Metamaterials microwave measurement using an original adjustable height stripline. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
37	Electromagnetic characterization of metamaterials in the centimetric frequency band using an original adjustable height stripline. Journal of Applied Physics, 2014, 116, 124901.	1.1	1
38	Characterization of ferrite tunability at microwave frequencies: Application to VHF tunable antennas. , 2019, , .		1
39	Detection and Imaging of Magnetic Field in the Low-Frequency Regime Using a Ferromagnetic Thin Film Coated With a Thermo-Fluorescent Layer. IEEE Transactions on Magnetics, 2021, 57, 1-6.	1.2	1
40	Ultra-compact K-band microwave terminations. , 2022, , .		1
41	Three-Dimensional Printing of a Waveguide Termination for Millimeter Wave Applications. , 2022, , .		1
42	Toward Ultracompact Multi-Materials Rectangular Waveguide Terminations. IEEE Transactions on Microwave Theory and Techniques, 2023, 71, 12-21.	2.9	1
43	Frequency reconfigurable antenna loaded with magneto dielectric materials at VHF band. , 2020, , .		0
44	Influence of the molding pressure on the magnetic properties of soft ferrite composite materials. European Physical Journal Special Topics, 1998, 08, Pr2-413-Pr2-416.	0.2	0
45	Spin resonance in soft magnetic composite materials : a surprising effect of the magnetic load. European Physical Journal Special Topics, 1998, 08, Pr2-417-Pr2-420.	0.2	0
46	Modelling of composite magnetic materials in the quasistatic range. European Physical Journal Special Topics, 1998, 08, Pr2-615-Pr2-618.	0.2	0