

Alexis Chevalier

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Toward Ultracompact Multi-Materials Rectangular Waveguide Terminations. IEEE Transactions on Microwave Theory and Techniques, 2023, 71, 12-21.	2.9	1
2	Ultra-compact K-band microwave terminations. , 2022, , .		1
3	Manufacturing of a Magnetic Composite Flexible Filament and Optimization of a 3D Printed Wideband Electromagnetic Multilayer Absorber in X-Ku Frequency Bands. Materials, 2022, 15, 3320.	1.3	12
4	Three-Dimensional Printing of a Waveguide Termination for Millimeter Wave Applications. , 2022, , .		1
5	Three-Dimensional Printing of Honeycomb Microwave Absorbers: Feasibility and Innovative Multiscale Topologies. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 390-397.	1.4	19
6	Development of a high temperature printable composite for microwave absorption applications. AIMS Materials Science, 2021, 8, 739-747.	0.7	6
7	Ferrite Ceramics at Microwave Frequencies: Applications and Characterization. , 2021, , 183-205.		3
8	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
9	Tunable Magneto-Dielectric Material for Electrically Small and Reconfigurable Antenna Systems at Vhf Band. Ceramics, 2020, 3, 276-286.	1.0	5
10	Frequency reconfigurable antenna loaded with magneto dielectric materials at VHF band. , 2020, , .		0
11	Magnetic anisotropies in oblique columnar growth of FeCoB films. AIP Advances, 2020, 10, .	0.6	6
12	Characterization of ferrite tunability at microwave frequencies: Application to VHF tunable antennas. , 2019, , .		1
13	Moore's curve structuring of ferromagnetic composite PE-NiFe absorbers. Journal of Applied Physics, 2018, 123, .	1.1	7
14	Magnetic and dielectric properties in the UHF frequency band of half-dense Ni-Zn-Co ferrites ceramics with Fe-excess and Fe-deficiency. Journal of Magnetism and Magnetic Materials, 2018, 447, 9-14.	1.0	17
15	A simple process to obtain anisotropic self-biased magnets constituted of stacked barium ferrite single domain particles. Journal of Magnetism and Magnetic Materials, 2018, 451, 208-213.	1.0	16
16	Heat-Resistant 3D Printed Microwave Devices. , 2018, , .		5
17	X-Band Compact Microwave Terminations. , 2018, , .		6
18	Electromagnetic modeling of anisotropic ferrites Application to microstrip Y-junction circulator design. Journal of Applied Physics, 2018, 123, .	1.1	9

#	ARTICLE	IF	CITATIONS
19	3D printed ferromagnetic composites for microwave applications. Journal of Materials Science, 2017, 52, 4988-4996.	1.7	21
20	Composites-based microwave absorbers: Toward a unified model. , 2017, , .		3
21	Determination of Intrinsic and Induced Magnetic Anisotropies in Ni ²⁺ Zn and Ni ²⁺ Zn ²⁺ 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
22	Enhancement of magnetic properties of Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ nanoparticles prepared by the co-precipitation method. Ceramics International, 2016, 42, 10664-10670.	2.3	38
23	Modeling antennas printed on magnetized substrate: Application to the design of a tunable PIFA antenna. , 2015, , .		2
24	Dense and half-dense NiZnCo ferrite ceramics: Their respective relevance for antenna downsizing, according to their dielectric and magnetic properties at microwave frequencies. Journal of Applied Physics, 2015, 117, .	1.1	32
25	Experimental determination of magnetocrystalline anisotropy constants and saturation magnetostriction constants of NiZn and NiZnCo ferrites intended to be used for antennas miniaturization. Journal of Magnetism and Magnetic Materials, 2015, 374, 762-768.	1.0	38
26	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
27	Intercomparison of permittivity measurement techniques for ferroelectric thin layers. Journal of Applied Physics, 2014, 115, .	1.1	18
28	Broadband permeability measurement method for ferrites at any magnetization state: Experimental results. Journal of Applied Physics, 2013, 114, .	1.1	9
29	Asymmetrical stripline based method for retrieving the electromagnetic properties of metamaterials. Journal of Applied Physics, 2013, 113, 024912.	1.1	3
30	Metamaterials microwave measurement using an original adjustable height stripline. , 2013, , .		1
31	Miniature Reconfigurable Antenna with Magneto Dielectric Substrate for DVB-H Band. Microwave and Optical Technology Letters, 2013, 55, 2007-2011.	0.9	10
32	A New Magneto-Dielectric Material Loaded, Tunable UHF Antenna for Handheld Devices. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 951-954.	2.4	26
33	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
34	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
35	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
36	Low-loss spinel nanoferrite with matching permeability and permittivity in the ultrahigh frequency range. Journal of Applied Physics, 2010, 108, .	1.1	68

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37	Influential parameters on electromagnetic properties of nickel-zinc ferrites for antenna miniaturization. Journal of Applied Physics, 2010, 107, 09A518.	1.1	29
38	Antenna miniaturization and nanoferrite magneto-dielectric materials. , 2010, , .		14
39	Dynamic permeability in soft magnetic composite materials. Journal of Applied Physics, 2001, 90, 3462-3465.	1.1	50
40	Ferromagnetic resonance of isotropic heterogeneous magnetic materials: theory and experiments. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 66-68.	1.0	15
41	Gyroresonance in unsaturated composite bodies: Experiments and theory. Journal of Applied Physics, 2000, 87, 4975-4977.	1.1	16
42	The magnetic susceptibility in soft magnetic composite materials. European Physical Journal Special Topics, 1998, 08, Pr2-355-Pr2-358.	0.2	3
43	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
44	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
45	Modelling of composite magnetic materials in the quasistatic range. European Physical Journal Special Topics, 1998, 08, Pr2-615-Pr2-618.	0.2	0
46	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