

Bernard Bayard

List of Publications by Year in descending order

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232
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#	ARTICLE	IF	CITATIONS
1	Magnetic properties of sputtered barium ferrite thick films. Journal of Applied Physics, 2003, 93, 9898-9901.	2.5	37
2	Barium ferrite thick films for microwave applications. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1805-E1806.	2.3	28
3	Feasibility of an Integrated Self Biased Coplanar Isolator With Barium Ferrite Films. IEEE Transactions on Components and Packaging Technologies, 2007, 30, 411-415.	1.3	28
4	A new broad-band method for magnetic thin-film characterization in the microwave range. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 1174-1180.	4.6	26
5	The effects of deposition and annealing conditions on crystallographic properties of sputtered barium ferrite thick films. Sensors and Actuators A: Physical, 2002, 99, 207-212.	4.1	25
6	Electromagnetic study of a ferrite coplanar isolator suitable for integration. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 1809-1814.	4.6	25
7	Universal behavior for electromagnetic interference shielding effectiveness of polymer based composite materials. Composites Science and Technology, 2022, 221, 109351.	7.8	25
8	Properties of barium ferrite sputtered films. Sensors and Actuators A: Physical, 2004, 113, 382-386.	4.1	15
9	Single and Dual Photonic Jets and Corresponding Backscattering Enhancement With Tipped Waveguides: Direct Observation at Microwave Frequencies. IEEE Transactions on Antennas and Propagation, 2015, 63, 5612-5618.	5.1	13
10	Simulation of the contribution of magnetic films on planar inductors characteristics. Journal of Magnetism and Magnetic Materials, 2005, 288, 121-129.	2.3	11
11	Exploration of a thin YIG film-based coplanar isolator. Microwave and Optical Technology Letters, 2004, 42, 470-471.	1.4	8
12	MODELLING RESONANCE FREQUENCIES OF A MULTI-TURN SPIRAL FOR METAMATERIAL APPLICATIONS. Progress in Electromagnetics Research C, 2011, 20, 31-42.	0.9	8
13	MODELING AND MEASUREMENT OF A ZERO-ORDER RESONATOR AND A COMPOSITE RIGHT-LEFT-HANDED TRANSMISSION LINE IN COPLANAR TECHNOLOGY. Progress in Electromagnetics Research C, 2010, 14, 33-43.	0.9	7
14	Low-Frequency Relation Between Transfer Impedance and Shielding Effectiveness of Braided Cables and Grid Shields. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2423-2430.	2.2	7
15	Experimental verification of tunable property of a zeroth-order resonator on ferrite substrate. Microwave and Optical Technology Letters, 2014, 56, 2805-2809.	1.4	6
16	Putting Reusability First: A Paradigm Switch in Remote Laboratories Engineering. International Journal of Online and Biomedical Engineering, 2009, 5, 16.	1.4	6
17	X-band characterization of anisotropic magnetic materials: application to ferrofluids. IEEE Transactions on Magnetics, 1999, 35, 568-572.	2.1	5
18	Magnetic DC field and temperature dependence on complex microwave magnetic permeability of ferrofluids: effect of constituent elements of substituted Mn ferrite. Journal of Magnetism and Magnetic Materials, 2003, 260, 42-47.	2.3	5

#	ARTICLE	IF	CITATIONS
19	Crystallographic properties of magnetron sputtered barium ferrite films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 112, 19-24.	3.5	5
20	New Method for Computing Transmission Coefficient of Integrated Ferrite Coplanar Isolator. , 2001, , .		3
21	Microwave characterization of magnetic thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3744-3747.	0.8	3
22	Exploration of the integration of a passive coplanar isolator based on thin magnetic films. Microwave and Optical Technology Letters, 2005, 46, 435-437.	1.4	3
23	Characterization of material anisotropy using microwave ellipsometry. Microwave and Optical Technology Letters, 2011, 53, 1996-1998.	1.4	3
24	Analysis and detection of an incorrect profile shape in a classical scatterometric process. EPJ Applied Physics, 2016, 76, 31001.	0.7	3
25	Automatic inspection of a residual resist layer by means of self-organizing map. Optical Engineering, 2016, 55, 054106.	1.0	2
26	Asymmetric Coplanar Ring Resonator (ACPWR) for Microwave Characterization of Silver Composite Conductors. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2139-2144.	4.6	2
27	Ferrite Isolators. , 0, , .		2
28	Ãlaboration de couches minces YIG par pulvÃrisation cathodique RF pour la rÃalisation de composants hyperfrÃquences intÃgrÃs. European Physical Journal Special Topics, 2005, 124, 159-163.	0.2	2
29	Reconstruction of a complex profile shape by weighting basic characterization results for nanometrology. Applied Optics, 2019, 58, 6118.	1.8	2
30	Passive coplanar isolator with barium ferrite thin films. , 2004, , .		1
31	Remote laboratories: Proposed guidelines. , 2007, , .		1
32	MICROWAVE CHARACTERIZATION OF ELECTRICAL CONDUCTIVITY OF COMPOSITE CONDUCTORS BY HALF-WAVELENGTH COPLANAR RESONATOR. Progress in Electromagnetics Research Letters, 2016, 60, 73-80.	0.7	1
33	A new criterion to quantify the DC and RF electrical response of an electrical contact subject to fretting wear. Wear, 2018, 412-413, 82-91.	3.1	1
34	Experimental identification of a grating profile using neural network classifiers in optical scatterometry. Applied Optics, 2021, 60, 7929.	1.8	1
35	Travaux pratiques distants et collaboratifs: quelles rÃpercussions ?. J3eA, 2006, 5, 012.	0.0	1
36	MICROWAVE ELLIPSOMETRY CHARACTERIZATION OF ISOTROPIC MATERIALS USING SIMULATED ANNEALING COMBINED WITH LEVENBERG-MARQUARDT ALGORITHM.. International Journal of Advanced Research, 2019, 7, 994-1001.	0.0	1

#	ARTICLE	IF	CITATIONS
37	Additive manufacturing of magnetic materials using selective laser melting. , 2020, , .		1
38	Passive Isolators Based On Barium Ferrite Sputtered Films. Materials Research Society Symposia Proceedings, 2003, 783, 381.	0.1	0
39	Optimization of Passive Isolator Based On Barium Ferrite Sputtered Films. Materials Research Society Symposia Proceedings, 2004, 833, 158.	0.1	0
40	Characterization of ferrimagnetic and dielectric materials with a rectangular waveguide method, limits of validity. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 90-93.	2.3	0
41	Réalisation de couches minces magnétiques d'hexaferrite de baryum en vue de concevoir un isolateur coplanaire passif. European Physical Journal Special Topics, 2005, 124, 165-170.	0.2	0
42	Reusability in practice for Remote Laboratories. , 2008, , .		0
43	Numerical model for ultra thin electrical coils with magnetic fluid core. International Journal of Applied Electromagnetics and Mechanics, 2008, 28, 371-378.	0.6	0
44	Microstrip Bandpass Sensor Based on Distributed Capacitors. Advanced Materials Research, 2011, 324, 445-448.	0.3	0
45	COPLANAR METAMATERIAL MICRO-RESONATOR. Progress in Electromagnetics Research M, 2011, 20, 73-80.	0.9	0
46	Measurement of refraction index of thick and nontransparent isotropic material using transmission microwave ellipsometry. Microwave and Optical Technology Letters, 2015, 57, 1006-1013.	1.4	0
47	A Wide Frequency Range Relationship Between Transfer Impedance of Braided Cables and Shielding Effectiveness of Corresponding Plate Shields. IEEE Transactions on Electromagnetic Compatibility, 2021, , 1-7.	2.2	0
48	Méthode de caractérisation en hyperfréquences de matériaux magnétiques et diélectriques. European Physical Journal Special Topics, 2005, 124, 153-157.	0.2	0