Vincent G Harris

List of Publications by Year
in descending order

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76 papers	2,903 citations	257450 24 h-index	175258 52 g-index
78 all docs	78 docs citations	78 times ranked	2652 citing authors

#	Article	IF	Citations
1	Dielectric Constant, Exchange Bias, and Magnetodielectric Effect in CrO2/Cr2O3 Nanostructures. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1719-1725.	1.8	1
2	Reviewâ€"Goodenough-Kanamori-Anderson Rules-Based Design of Modern Radio-Frequency Magnetoceramics for 5G Advanced Functionality. ECS Journal of Solid State Science and Technology, 2022, 11, 064001.	1.8	7
3	Electromagnetic shielding effectiveness of amorphous metallic spheroidal- and flake-based magnetodielectric composites. Journal of Materials Science and Technology, 2021, 83, 256-263.	10.7	13
4	Stoichiometry, phase, and texture evolution in PLD-Grown hexagonal barium ferrite films as a function of laser process parameters. Journal of Alloys and Compounds, 2020, 814, 152301.	5.5	32
5	Crystal structure and enhanced microwave dielectric properties of Ta⁵⁺ substituted Li₃Mg₂NbO₆ ceramics. Journal of the American Ceramic Society, 2020, 103, 214-223.	3.8	58
6	Low loss and tailored highâ€frequency performances of BaOâ€doped NiZnCo magnetoâ€dielectric ferrites. Journal of the American Ceramic Society, 2020, 103, 1248-1257.	3.8	38
7	Room-temperature magnetoelectric effect in Al-doped Sr3Co2(Fe1-xAlx)24O41 hexaferrites. Journal of Alloys and Compounds, 2020, 820, 153130.	5.5	9
8	Grain boundary engineering of power inductor cores for MHz applications. Journal of Alloys and Compounds, 2020, 832, 153131.	5.5	18
9	Cold Sintered Metalâ€"Ceramic Nanocomposites for Highâ€Frequency Inductors. Advanced Electronic Materials, 2020, 6, 2000868.	5.1	18
10	A Position-Independent Approach to Accurate Measurement of Broadband Electromagnetic Constitutive Parameters of Magnetodielectric Materials. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4940-4950.	4.6	10
11	Broadband free space impedance in Co2Z hexaferrites by substitution of high valency heavy transition metal ions for miniaturized RF devices. Applied Physics Letters, 2020, 116, .	3.3	10
12	Permeability spectra of planar Mâ€type barium hexaferrites with high Snoekâ€™s product by twoâ€step sintering. Journal of the American Ceramic Society, 2020, 103, 5076-5085.	3.8	18
13	Ironâ€depleted Biâ€YIG having enhanced gyromagnetic properties suitable for LTCC processing. Journal of the American Ceramic Society, 2019, 102, 1180-1191.	3.8	9
14	Clustering effect on permeability spectra of magneto-dielectric composites with conductive magnetic inclusions. Journal of Applied Physics, 2019, 125, .	2.5	10
15	Superior soft magnetic properties and mechanical strength in nanocomposites employing a double-percolating microstructure. Journal of Alloys and Compounds, 2019, 791, 1138-1145.	5.5	4
16	Crystallographically textured Zn2W-type barium hexaferrite for microwave and millimeter wave applications. Journal of Alloys and Compounds, 2019, 772, 1100-1104.	5.5	12
17	The Self-Biased Circulator: Ferrite Materials Design and Process Considerations. Journal of Superconductivity and Novel Magnetism, 2019, 32, 97-108.	1.8	43
18	Compact High-Efficiency Broadband Metamaterial Polarizing Reflector at Microwave Frequencies. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 606-614.	4.6	59

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19	Concurrent Core Loss Suppression and High Permeability by Introduction of Highly Insulating Intergranular Magnetic Inclusions to MnZn Ferrite. IEEE Magnetics Letters, 2018, 9, 1-5.	1.1	18
20	Tunable ferromagnetic resonance in La-Co substituted barium hexaferrites at millimeter wave frequencies. AIP Advances, 2018, 8, 056440.	1.3	6
21	Low-loss Z-type barium hexaferrite composites from nanoscale ZnAl2O4 addition for high-frequency applications. AIP Advances, 2018, 8, .	1.3	6
22	Tailoring magnetic properties of self-biased hexaferrites using an alternative copolymer of isobutylene and maleic anhydride. AIP Advances, 2018, 8, .	1.3	10
23	Particle-size distribution modified effective medium theory and validation by magneto-dielectric Co-Ti substituted BaM ferrite composites. Journal of Magnetism and Magnetic Materials, 2018, 453, 44-47.	2.3	28
24	Effect of cobalt substitution on magnetic properties of Ba4Ni2â^'xCoxFe36O60 hexaferrite. AIP Advances, 2018, 8, .	1.3	11
25	3D crystallographic alignment of alumina ceramics by application of low magnetic fields. Journal of the European Ceramic Society, 2018, 38, 5257-5263.	5.7	13
26	Control of Room-Temperature Magnetoelectric Effect via the Initial Electric Phase State in Sr $_{3}$Co $_{2}$Fe$_{24}$ O$_{41}$ Hexaferrite. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	5
27	Epitaxially grown BaM hexaferrite films having uniaxial axis in the film plane for self-biased devices. Scientific Reports, 2017, 7, 44193.	3.3	24
28	Low-loss NiZnCo ferrite processed at low sintering temperature with matching permeability and permittivity for miniaturization of VHF-UHF antennas. Journal of Applied Physics, 2017, 121, .	2.5	37
29	Effects of iron deficiency on anisotropy and ferromagnetic resonance linewidth in Bi-doped LiZn ferrite. AIP Advances, 2017, 7, .	1.3	9
30	Millimeter wave transmittance/absorption measurements on micro and nano hexaferrites. AIP Advances, 2017, 7, .	1.3	6
31	Single-Point FMR Linewidth Measurement by TE₁₀Rectangular Transmission Cavity Perturbation. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3772-3780.	4.6	14
32	Large area Germanium Tin nanometer optical film coatings on highly flexible aluminum substrates. Scientific Reports, 2016, 6, 34030.	3.3	8
33	Broadband ferromagnetic resonance linewidth measurement by a microstripline transmission resonator. Applied Physics Letters, 2016, 108, .	3.3	14
34	Magnetic spectra and Richter aftereffect relaxation in CexY3â^'xFe5O12 ferrites. AIP Advances, 2016, 6, 055918.	1.3	5
35	Recent Advances in Numerical Simulation of Propagation of EM Waves in the Earth's Ionosphere. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1433-1437.	3.1	2
36	Ferromagnetic resonance induced large microwave magnetodielectric effect in cerium doped Y3Fe5O12 ferrites. Scientific Reports, 2016, 6, 28206.	3.3	28

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37	LTCC processed CoTi substituted M-type barium ferrite composite with BBSZ glass powder additives for microwave device applications. AIP Advances, 2016, 6, 056410.	1.3	8
38	Magnetic Properties of a Highly Textured Barium Hexa-Ferrite Quasi-Single Crystal and Its Application in Low-Field Biased Circulators. Journal of Electronic Materials, 2016, 45, 5069-5073.	2.2	11
39	Enhanced Microwave Absorption of SiO2-Coated Fe0.65Co0.35 Flakes at a Wide Frequency Band (1â€“18ÂGHz). Journal of Electronic Materials, 2016, 45, 3640-3645.	2.2	12
40	Effect of NiZn Ferrite Nanoparticles upon the Structure and Magnetic and Gyromagnetic Properties of Low-Temperature Processed LiZnTi Ferrites. Journal of Physical Chemistry C, 2015, 119, 13207-13214.	3.1	28
41	Equilibrium Chemical Disorder at the Surface of a Single-Crystal ${m C1}_{b}$ NiMnSb Half-Heusler Alloy: Implications for Spintronics. IEEE Magnetics Letters, 2015, 6, 1-4.	1.1	2
42	Giant magnetoresistance due to magnetoelectric currents in Sr3Co2Fe24O41 hexaferrites. Applied Physics Letters, 2014, 105, .	3.3	24
43	Nanoscale-Driven Crystal Growth of Hexaferrite Heterostructures for Magnetoelectric Tuning of Microwave Semiconductor Integrated Devices. ACS Nano, 2014, 8, 11172-11180.	14.6	13
44	Magnetic and microwave properties of U-type hexaferrite films with high remanence and low ferromagnetic resonance linewidth. Journal of Applied Physics, 2014, 115, 17A504.	2.5	23
45	Epitaxial growth of 100-Î¼m thick M-type hexaferrite crystals on wide bandgap semiconductor GaN/Al2O3 substrates. Journal of Applied Physics, 2014, 115, .	2.5	11
46	High quality Y-type hexaferrite thick films for microwave applications by an economical and environmentally benign crystal growth technique. Applied Physics Letters, 2014, 104, 072411.	3.3	4
47	Effects of intrinsic magnetostriction on tube-topology magnetoelectric sensors with high magnetic field sensitivity. Journal of Applied Physics, 2014, 115, .	2.5	10
48	Enhanced Coercivity of CaLaCoâ€Doped SrM Hexaferrites by Microwaveâ€Calcination Technique. Journal of the American Ceramic Society, 2014, 97, 1873-1877.	3.8	5
49	Effect of Ambient Aging on Heat-Treated Mechanically Alloyed Mn-Al-C Powders. IEEE Transactions on Magnetics, 2013, 49, 3372-3374.	2.1	8
50	Crystallographically textured self-biased W-type hexaferrites for X-band microwave applications. Journal of Applied Physics, 2013, 113, .	2.5	31
51	Giant enhancement in the magnetostrictive effect of FeGa alloys doped with low levels of terbium. Applied Physics Letters, 2013, 102, 222409.	3.3	53
52	Magneto-electric effects on Sr Z-type hexaferrite at room temperature. Journal of Applied Physics, 2012, 111, .	2.5	29
53	Modern Microwave Ferrites. IEEE Transactions on Magnetics, 2012, 48, 1075-1104.	2.1	557
54	Tunable fringe magnetic fields induced by converse magnetoelectric coupling in a FeGa/PMN-PT multiferroic heterostructure. Journal of Applied Physics, 2011, 110, .	2.5	16

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55	Self Biased Y-Junction Circulator at ${m K}_{m u}$ Band. IEEE Microwave and Wireless Components Letters, 2011, 21, 292-294.	3.2	64
56	Ab Initio Study on Manganese Doped Cadmium Ferrite $(hbox{Cd}_{1-x}hbox{Mn}_{x}hbox{Fe}_{2}hbox{O}_{4})$. IEEE Transactions on Magnetics, 2011, 47, 324-332.	2.1	5
57	Dynamic response of converse magnetoelectric effect inÂaÂPMN-PT-based multiferroic heterostructure. Applied Physics A: Materials Science and Processing, 2010, 100, 1149-1155.	2.3	20
58	Preparation and Characterization of Pureâ€Phase Co₂Y Ferrite Powders via a Scalable Aqueous Coprecipitation Method. Journal of the American Ceramic Society, 2010, 93, 2994-2997.	3.8	18
59	Ab initio study on copper ferrite. Journal of Applied Physics, 2010, 107, .	2.5	19
60	The effect of boron addition on the atomic structure and microwave magnetic properties of FeGaB thin films. Journal of Applied Physics, 2009, 105, 07A323.	2.5	7
61	Low Bias Field Hexagonal Y-Type Ferrite Phase Shifters at ${K}_{U}$-Band. IEEE Transactions on Magnetics, 2009, 45, 4179-4182.	2.1	17
62	Recent advances in processing and applications of microwave ferrites. Journal of Magnetism and Magnetic Materials, 2009, 321, 2035-2047.	2.3	696
63	Ferromagnetism in pure wurtzite zinc oxide. Journal of Applied Physics, 2009, 105, .	2.5	88
64	Novel microwave devices using tunable negative index metamaterials and ferrites. , 2009, , .		0
65	Realization of Far From Equilibrium Cation Distributions in Ferrites. IEEE Transactions on Magnetics, 2009, 45, 666-669.	2.1	4
66	Perpendicularly Oriented Polycrystalline BaFe_{11.1}Sc_{0.9}O₁₉ Hexaferrite with Narrow FMR Linewidths. Journal of the American Ceramic Society, 2008, 91, 2952-2956.	3.8	79
67	Ab initio calculation on ferromagnetic reduced anatase TiO2â˜Î´. Journal of Applied Physics, 2008, 103, 07B911.	2.5	29
68	Effects of boron addition to the atomic structure and soft magnetic properties of FeCoB films. Journal of Applied Physics, 2008, 103, .	2.5	29
69	Giant magnetoelectric coupling and E-field tunability in a laminated Ni2MnGa/lead-magnesium-niobate-lead titanate multiferroic heterostructure. Applied Physics Letters, 2008, 93, 112502.	3.3	73
70	Pulsed laser ablation deposition of nanocrystalline exchange-coupled Ni11Co11Fe67â˜'xZr7B4Cux (x=0,1) films for planar inductor applications. Journal of Applied Physics, 2007, 101, 09M519.	2.5	6
71	Self-assembled magnetic nanowire arrays. Applied Physics Letters, 2007, 90, 103105.	3.3	50
72	Oriented barium hexaferrite thick films with narrow ferromagnetic resonance linewidth. Applied Physics Letters, 2006, 88, 062516.	3.3	100

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73	Microwave and magnetic properties of self-biased barium hexaferrite screen printed thick films. Journal of Applied Physics, 2006, 99, 08M904.	2.5	51
74	Computational study of copper ferrite (CuFe2O4). Journal of Applied Physics, 2006, 99, 08M909.	2.5	56
75	Magnetic properties of manganese ferrite films grown at atomic scale. Journal of Applied Physics, 2005, 97, 10G103.	2.5	19
76	Inductive measurements of magnetic properties of ribbon materials. Review of Scientific Instruments, 2004, 75, 2817-2821.	1.3	4