

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	Recent advances in processing and applications of microwave ferrites. Journal of Magnetism and Magnetic Materials, 2009, 321, 2035-2047.	2.3	696
2	Modern Microwave Ferrites. IEEE Transactions on Magnetics, 2012, 48, 1075-1104.	2.1	557
3	Oriented barium hexaferrite thick films with narrow ferromagnetic resonance linewidth. Applied Physics Letters, 2006, 88, 062516.	3.3	100
4	Ferromagnetism in pure wurtzite zinc oxide. Journal of Applied Physics, 2009, 105, .	2.5	88
5	Perpendicularly Oriented Polycrystalline BaFe _{11.1} Sc _{0.9} O ₁₉ Hexaferrite with Narrow FMR Linewidths. Journal of the American Ceramic Society, 2008, 91, 2952-2956.	3.8	79
6	Giant magnetoelectric coupling and E-field tunability in a laminated Ni ₂ MnGa/lead-magnesium-niobate-lead titanate multiferroic heterostructure. Applied Physics Letters, 2008, 93, 112502.	3.3	73
7	Self Biased Y-Junction Circulator at $\{m K\}_{m u}$ Band. IEEE Microwave and Wireless Components Letters, 2011, 21, 292-294.	3.2	64
8	Compact High-Efficiency Broadband Metamaterial Polarizing Reflector at Microwave Frequencies. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 606-614.	4.6	59
9	Crystal structure and enhanced microwave dielectric properties of Ta ⁵⁺ substituted Li ₃ Mg ₂ NbO ₆ ceramics. Journal of the American Ceramic Society, 2020, 103, 214-223.	3.8	58
10	Computational study of copper ferrite (CuFe ₂ O ₄). Journal of Applied Physics, 2006, 99, 08M909.	2.5	56
11	Giant enhancement in the magnetostrictive effect of FeGa alloys doped with low levels of terbium. Applied Physics Letters, 2013, 102, 222409.	3.3	53
12	Microwave and magnetic properties of self-biased barium hexaferrite screen printed thick films. Journal of Applied Physics, 2006, 99, 08M904.	2.5	51
13	Self-assembled magnetic nanowire arrays. Applied Physics Letters, 2007, 90, 103105.	3.3	50
14	The Self-Biased Circulator: Ferrite Materials Design and Process Considerations. Journal of Superconductivity and Novel Magnetism, 2019, 32, 97-108.	1.8	43
15	Low loss and tailored high-frequency performances of BaO-doped NiZnCo magneto-dielectric ferrites. Journal of the American Ceramic Society, 2020, 103, 1248-1257.	3.8	38
16	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
17	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
18	Crystallographically textured self-biased W-type hexaferrites for X-band microwave applications. Journal of Applied Physics, 2013, 113, .	2.5	31

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19	Ab initio calculation on ferromagnetic reduced anatase TiO ₂ . Journal of Applied Physics, 2008, 103, 07B911.	2.5	29
20	Effects of boron addition to the atomic structure and soft magnetic properties of FeCoB films. Journal of Applied Physics, 2008, 103, .	2.5	29
21	Magneto-electric effects on Sr Z-type hexaferrite at room temperature. Journal of Applied Physics, 2012, 111, .	2.5	29
22	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
23	Ferromagnetic resonance induced large microwave magnetodielectric effect in cerium doped Y ₃ Fe ₅ O ₁₂ ferrites. Scientific Reports, 2016, 6, 28206.	3.3	28
24	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
25	Giant magnetoresistance due to magnetoelectric currents in Sr ₃ Co ₂ Fe ₂₄ O ₄₁ hexaferrites. Applied Physics Letters, 2014, 105, .	3.3	24
26	Epitaxially grown BaM hexaferrite films having uniaxial axis in the film plane for self-biased devices. Scientific Reports, 2017, 7, 44193.	3.3	24
27	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
28	Dynamic response of converse magnetoelectric effect in PMN-PT-based multiferroic heterostructure. Applied Physics A: Materials Science and Processing, 2010, 100, 1149-1155.	2.3	20
29	Magnetic properties of manganese ferrite films grown at atomic scale. Journal of Applied Physics, 2005, 97, 10G103.	2.5	19
30	Ab initio study on copper ferrite. Journal of Applied Physics, 2010, 107, .	2.5	19
31	Preparation and Characterization of Pure Phase Co ₂ Ferrite Powders via a Scalable Aqueous Coprecipitation Method. Journal of the American Ceramic Society, 2010, 93, 2994-2997.	3.8	18
32	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
33	Grain boundary engineering of power inductor cores for MHz applications. Journal of Alloys and Compounds, 2020, 832, 153131.	5.5	18
34	Cold Sintered Metal-Ceramic Nanocomposites for High-Frequency Inductors. Advanced Electronic Materials, 2020, 6, 2000868.	5.1	18
35	Permeability spectra of planar M-type barium hexaferrites with high Snoek's product by two-step sintering. Journal of the American Ceramic Society, 2020, 103, 5076-5085.	3.8	18
36	Low Bias Field Hexagonal Y-Type Ferrite Phase Shifters at K _U -Band. IEEE Transactions on Magnetics, 2009, 45, 4179-4182.	2.1	17

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37	Tunable fringe magnetic fields induced by converse magnetoelectric coupling in a FeGa/PMN-PT multiferroic heterostructure. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	16
38	Single-Point FMR Linewidth Measurement by TE ₁₀ Rectangular Transmission Cavity Perturbation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016, 64, 3772-3780.	4.6	14
39	Broadband ferromagnetic resonance linewidth measurement by a microstripline transmission resonator. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	14
40	Nanoscale-Driven Crystal Growth of Hexaferrite Heterostructures for Magnetoelectric Tuning of Microwave Semiconductor Integrated Devices. <i>ACS Nano</i> , 2014, 8, 11172-11180.	14.6	13
41	3D crystallographic alignment of alumina ceramics by application of low magnetic fields. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5257-5263.	5.7	13
42	Electromagnetic shielding effectiveness of amorphous metallic spheroidal- and flake-based magnetodielectric composites. <i>Journal of Materials Science and Technology</i> , 2021, 83, 256-263.	10.7	13
43	Enhanced Microwave Absorption of SiO ₂ -Coated Fe _{0.65} Co _{0.35} Flakes at a Wide Frequency Band (1–18 GHz). <i>Journal of Electronic Materials</i> , 2016, 45, 3640-3645.	2.2	12
44	Crystallographically textured Zn ₂ W-type barium hexaferrite for microwave and millimeter wave applications. <i>Journal of Alloys and Compounds</i> , 2019, 772, 1100-1104.	5.5	12
45	Epitaxial growth of 100-nm thick M-type hexaferrite crystals on wide bandgap semiconductor GaN/Al ₂ O ₃ substrates. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	11
46	Magnetic Properties of a Highly Textured Barium Hexa-Ferrite Quasi-Single Crystal and Its Application in Low-Field Biased Circulators. <i>Journal of Electronic Materials</i> , 2016, 45, 5069-5073.	2.2	11
47	Effect of cobalt substitution on magnetic properties of Ba ₄ Ni _{2-<i>x</i>} CoxFe ₃₆ O ₆₀ hexaferrite. <i>AIP Advances</i> , 2018, 8, .	1.3	11
48	Effects of intrinsic magnetostriction on tube-topology magnetoelectric sensors with high magnetic field sensitivity. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	10
49	Tailoring magnetic properties of self-biased hexaferrites using an alternative copolymer of isobutylene and maleic anhydride. <i>AIP Advances</i> , 2018, 8, .	1.3	10
50	Clustering effect on permeability spectra of magneto-dielectric composites with conductive magnetic inclusions. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	10
51	A Position-Independent Approach to Accurate Measurement of Broadband Electromagnetic Constitutive Parameters of Magnetodielectric Materials. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 4940-4950.	4.6	10
52	Broadband free space impedance in Co ₂ Z hexaferrites by substitution of high valency heavy transition metal ions for miniaturized RF devices. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	10
53	Effects of iron deficiency on anisotropy and ferromagnetic resonance linewidth in Bi-doped LiZn ferrite. <i>AIP Advances</i> , 2017, 7, .	1.3	9
54	Iron-depleted Bi ₂ YIG having enhanced gyromagnetic properties suitable for LTCC processing. <i>Journal of the American Ceramic Society</i> , 2019, 102, 1180-1191.	3.8	9

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55	Room-temperature magnetoelectric effect in Al-doped Sr ₃ Co ₂ (Fe _{1-x} Al _x) ₂₄ O ₄₁ hexaferrites. Journal of Alloys and Compounds, 2020, 820, 153130.	5.5	9
56	Effect of Ambient Aging on Heat-Treated Mechanically Alloyed Mn-Al-C Powders. IEEE Transactions on Magnetics, 2013, 49, 3372-3374.	2.1	8
57	Large area Germanium Tin nanometer optical film coatings on highly flexible aluminum substrates. Scientific Reports, 2016, 6, 34030.	3.3	8
58	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
59	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
60	Review of 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
61	Pulsed laser ablation deposition of nanocrystalline exchange-coupled Ni ₁₁ Co ₁₁ Fe ₆₇ ~xZr ₇ B ₄ C _x (x=0,1) films for planar inductor applications. Journal of Applied Physics, 2007, 101, 09M519.	2.5	6
62	Millimeter wave transmittance/absorption measurements on micro and nano hexaferrites. AIP Advances, 2017, 7, .	1.3	6
63	Tunable ferromagnetic resonance in La-Co substituted barium hexaferrites at millimeter wave frequencies. AIP Advances, 2018, 8, 056440.	1.3	6
64	Low-loss Z-type barium hexaferrite composites from nanoscale ZnAl ₂ O ₄ addition for high-frequency applications. AIP Advances, 2018, 8, .	1.3	6
65	Ab Initio Study on Manganese Doped Cadmium Ferrite $(\text{hbox{Cd}}_{1-x}\text{hbox{Mn}}_x\text{hbox{Fe}}_2\text{hbox{O}}_4)$. IEEE Transactions on Magnetics, 2011, 47, 324-332.	2.1	5
66	Enhanced Coercivity of CaLaCo-Doped SrM Hexaferrites by Microwave Calcination Technique. Journal of the American Ceramic Society, 2014, 97, 1873-1877.	3.8	5
67	Magnetic spectra and Richter aftereffect relaxation in CexY3~xFe5O12 ferrites. AIP Advances, 2016, 6, 055918.	1.3	5
68	Control of Room-Temperature Magnetoelectric Effect via the Initial Electric Phase State in Sr $\text{Co}_2\text{Fe}_{24}\text{O}_{41}$ Hexaferrite. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	5
69	Inductive measurements of magnetic properties of ribbon materials. Review of Scientific Instruments, 2004, 75, 2817-2821.	1.3	4
70	Realization of Far From Equilibrium Cation Distributions in Ferrites. IEEE Transactions on Magnetics, 2009, 45, 666-669.	2.1	4
71	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
72	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

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73	Equilibrium Chemical Disorder at the Surface of a Single-Crystal NiMnSb Half-Heusler Alloy: Implications for Spintronics. IEEE Magnetics Letters, 2015, 6, 1-4.	1.1	2
74	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
75	Dielectric Constant, Exchange Bias, and Magnetodielectric Effect in $\text{CrO}_2/\text{Cr}_2\text{O}_3$ Nanostructures. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1719-1725.	1.8	1
76	Novel microwave devices using tunable negative index metamaterials and ferrites. , 2009, , .		0