

Vincent G Harris

List of Publications by Year in descending order

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82
papers

2,387
citations

218677

26
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223800

46
g-index

83
all docs

83
docs citations

83
times ranked

2568
citing authors

#	ARTICLE	IF	CITATIONS
1	Modern Microwave Ferrites. IEEE Transactions on Magnetics, 2012, 48, 1075-1104.	2.1	557
2	Small Ultra-Wideband (UWB) Bandpass Filter With Notched Band. IEEE Microwave and Wireless Components Letters, 2008, 18, 176-178.	3.2	132
3	Oriented barium hexaferrite thick films with narrow ferromagnetic resonance linewidth. Applied Physics Letters, 2006, 88, 062516.	3.3	100
4	Direct chemical synthesis of high coercivity air-stable SmCo nanoblades. Applied Physics Letters, 2008, 93, .	3.3	64
5	Electrically controlled magnetization switching in a multiferroic heterostructure. Applied Physics Letters, 2010, 97, 052502.	3.3	63
6	Improved Sensitivity and Noise in Magneto-Electric Magnetic Field Sensors by Use of Modulated AC Magnetostriction. IEEE Magnetics Letters, 2011, 2, 2500104-2500104.	1.1	62
7	Ferrite film growth on semiconductor substrates towards microwave and millimeter wave integrated circuits. Journal of Applied Physics, 2012, 112, .	2.5	60
8	Giant magnetodielectric effect and magnetic field tunable dielectric resonance in spinel MnZn ferrite. Applied Physics Letters, 2009, 94, .	3.3	53
9	Epitaxial growth of M-type Ba-hexaferrite films on MgO (111)-SiC (0001) with low ferromagnetic resonance linewidths. Applied Physics Letters, 2007, 91, .	3.3	51
10	Quasi-one-dimensional miniature multiferroic magnetic field sensor with high sensitivity at zero bias field. Applied Physics Letters, 2011, 99, .	3.3	48
11	Multiferroic heterostructure fringe field tuning of meander line microstrip ferrite phase shifter. Applied Physics Letters, 2010, 96, .	3.3	47
12	Large converse magnetoelectric coupling in FeCoV/lead zinc niobate-lead titanate heterostructure. Applied Physics Letters, 2009, 94, .	3.3	45
13	Electronic tuning of magnetic permeability in Co2Z hexaferrite toward high frequency electromagnetic device miniaturization. Applied Physics Letters, 2011, 98, .	3.3	43
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	Size dependent magnetic properties and cation inversion in chemically synthesized MnFe2O4 nanoparticles. Journal of Applied Physics, 2007, 101, 09M509.	2.5	40
16	Ultrawideband (UWB) Antennas With Multiresonant Split-Ring Loops. IEEE Transactions on Antennas and Propagation, 2009, 57, 256-260.	5.1	40
17	Cation-disorder-enhanced magnetization in pulsed-laser-deposited CuFe2O4 films. Applied Physics Letters, 2005, 86, 252510.	3.3	39
18	Structure, magnetic, and microwave properties of thick Ba-hexaferrite films epitaxially grown on GaN/Al2O3 substrates. Applied Physics Letters, 2010, 96, 242502.	3.3	38

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19	Domain rotation induced strain effect on the magnetic and magneto-electric response in CoFe ₂ O ₄ /Pb(Mg,Nb)O ₃ -PbTiO ₃ heterostructures. Journal of Applied Physics, 2012, 111, 034108.	2.5	34
20	Fe ₃ O ₄ cladding enhanced magnetic natural resonance and microwave absorption properties of Fe _{0.65} Co _{0.35} alloy flakes. Journal of Alloys and Compounds, 2015, 646, 345-350.	5.5	34
21	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
22	Core-loss analysis of an (Fe, Co, Ni)-based nanocrystalline soft magnetic alloy. Journal of Applied Physics, 2005, 97, 10F502.	2.5	29
23	Large tunability of Néel temperature by growth-rate-induced cation inversion in Mn-ferrite nanoparticles. Applied Physics Letters, 2009, 94, 113109.	3.3	29
24	Time domain analyses of the converse magnetoelectric effect in a multiferroic metallic glass-relaxor ferroelectric heterostructure. Applied Physics Letters, 2009, 95, 182501.	3.3	28
25	A quantitative model for the nonlinear response of fluxgate magnetometers. Journal of Applied Physics, 2006, 99, 08B316.	2.5	27
26	Microwave magnetoelectric coupling and ferromagnetic resonance frequency tuning of a Co $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{MnSb/GaAs/PZN-PT}$ heterostructure. Physical Review B, 2011, 83, .	3.2	26
27	Magnetocrystalline Anisotropy and FMR Linewidth of Zr and Zn-Doped Ba-Hexaferrite Films Grown on MgO (111). IEEE Transactions on Magnetics, 2013, 49, 4234-4237.	2.1	26
28	Magnetoelectric effect in crystallographically textured BaTiO ₃ films deposited on ferromagnetic metallic glass foils. Journal of Applied Physics, 2011, 109, .	2.5	24
29	Large-scale synthesis of high moment FeCo nanoparticles using modified polyol synthesis. Journal of Applied Physics, 2012, 111, .	2.5	24
30	Realization of hexagonal barium ferrite thick films on Si substrates using a screen printing technique. Journal Physics D: Applied Physics, 2008, 41, 095006.	2.8	23
31	Microwave tunability in a GaAs-based multiferroic heterostructure: Co ₂ MnAl/GaAs/PMN-PT. Journal of Applied Physics, 2009, 105, .	2.5	23
32	BaFe ₁₂ O ₁₉ thin films grown at the atomic scale from BaFe ₂ O ₄ and $\hat{1}\pm$ -Fe ₂ O ₃ targets. Applied Physics Letters, 2007, 91, 162510.	3.3	21
33	Magnetic and microwave properties of basal-plane oriented BaFe ₁₁ In ₁ O ₁₉ ferrite thick films processed by screen printing. Journal of Applied Physics, 2008, 103, 07F710.	2.5	21
34	Cation engineering of Cu-ferrite films deposited by alternating target laser ablation deposition. Journal of Applied Physics, 2008, 103, .	2.5	21
35	Epitaxial growth of barium hexaferrite film on wide bandgap semiconductor 6H $\hat{1}\pm$ SiC by molecular beam epitaxy. Journal Physics D: Applied Physics, 2010, 43, 095002.	2.8	21
36	Element- and site-specific oxidation state and cation distribution in manganese ferrite films by diffraction anomalous fine structure. Applied Physics Letters, 2008, 93, 052504.	3.3	20

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37	Magnetic and atomic structure parameters of Sc-doped barium hexagonal ferrites. Journal of Applied Physics, 2008, 103, .	2.5	20
38	High-rate reactive ion etching of barium hexaferrite films using optimal CHF ₃ /SF ₆ gas mixtures. Applied Physics Letters, 2009, 94, 112505.	3.3	19
39	A microstrip tunable negative refractive index metamaterial and phase shifter. Applied Physics Letters, 2008, 93, 193505.	3.3	18
40	Site-specific local structure of Mn in artificial manganese ferrite films. Physical Review B, 2006, 74, .	3.2	17
41	Active tuning of a microstrip hairpin-line microwave bandpass filter on a polycrystalline yttrium iron garnet substrate using small magnetic fields. Journal of Applied Physics, 2011, 109, .	2.5	17
42	Tuning the cation distribution and magnetic properties of single phase nanocrystalline Dy ₃ Fe ₅ O ₁₂ garnet. Journal of Applied Physics, 2012, 111, 07A517.	2.5	16
43	Microwave-accelerated rapid synthesis of high-quality yttrium iron garnet nano powders with improved magnetic properties. Materials Research Letters, 2018, 6, 36-40.	8.7	16
44	Magnetic and structural properties of pulsed laser deposited CuFe ₂ O ₄ films. Journal of Applied Physics, 2005, 97, 10G107.	2.5	14
45	Broadband ferromagnetic resonance linewidth measurement by a microstripline transmission resonator. Applied Physics Letters, 2016, 108, .	3.3	14
46	Nanoscale-Driven Crystal Growth of Hexaferrite Heterostructures for Magnetoelectric Tuning of Microwave Semiconductor Integrated Devices. ACS Nano, 2014, 8, 11172-11180.	14.6	13
47	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
48	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
49	Element-specific magnetic properties of Co ₂ MnSi thin films. Journal of Applied Physics, 2005, 97, 10C302.	2.5	12
50	Magnetic anisotropy and crystalline texture in BaO(Fe ₂ O ₃) ₆ thin films deposited on GaN~Al ₂ O ₃ . Journal of Applied Physics, 2007, 101, 09M521.	2.5	12
51	Numerical simulation of wave propagation in Y- and Z-type hexaferrites for high frequency applications. Journal of Applied Physics, 2010, 107, 09A515.	2.5	12
52	High Performance Compact Microstripline Phase Shifter at C-Band Using Yttrium Iron Garnet. IEEE Transactions on Magnetics, 2009, 45, 4176-4178.	2.1	11
53	Ferrite-Coupled Line Circulator Simulations For Application at X-Band Frequency. IEEE Transactions on Magnetics, 2007, 43, 2639-2641.	2.1	10
54	Tailoring magnetic properties of self-biased hexaferrites using an alternative copolymer of isobutylene and maleic anhydride. AIP Advances, 2018, 8, .	1.3	10

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55	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
56	Tunable magnetic anisotropy of CoFe_2O_4 nanopillar arrays released from BiFeO_3 matrix. Physica Status Solidi - Rapid Research Letters, 2012, 6, 92-94.	2.4	9
57	Magnetoelectric effects in composite of nanogranular $\text{Fe}^{\sim}\text{TiO}_2^{\sim}$ films. Applied Physics Letters, 2008, 92, 042508.	3.3	8
58	Piezoelectric properties of epitaxial $\text{Pb}(\text{Zr}_{0.525}, \text{Ti}_{0.475})\text{O}_3$ films on amorphous magnetic metal substrates. Journal of Applied Physics, 2012, 111, 07D916.	2.5	8
59	Epitaxial growth of $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3$ films on Pt coated magnetostrictive amorphous metallic substrates toward next generation multiferroic heterostructures. Journal of Applied Physics, 2012, 111, 064104.	2.5	8
60	Interface-engineered barium magnetoplumbite wide-bandgap semiconductor integration enabling 5G system-on-wafer solutions for full-duplexing phased arrays. Applied Physics Letters, 2021, 119, 051906.	3.3	8
61	Correlation between texture, anisotropy, and vector magnetization processes investigated by two-dimensional vector vibrating sample magnetometry in $\text{BaO}(\text{Fe}_2\text{O}_3)_6$ thin film. Journal of Applied Physics, 2008, 103, .	2.5	7
62	Direct observation of symmetry-specific precession in a ferrimagnet. Physical Review B, 2015, 92, .	3.2	7
63	Review 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
64	Single crystal Fe films grown on Ge (001) substrates by magnetron sputtering. Applied Physics Letters, 2006, 89, 112501.	3.3	6
65	$\text{BaFe}_{12}\text{O}_{19}$ magnetoplumbite films grown on SiO_2/Si substrates for widescale magnetic film semiconductor systems integration. Scripta Materialia, 2020, 188, 190-194.	5.2	6
66	High-Performance Metallic Amorphous Magnetic Flake-Based Magnetodielectric Inductors. IEEE Magnetics Letters, 2020, 11, 1-5.	1.1	6
67	Synthesis and Magnetic Properties of $\text{Co}_{1-x}\text{Ir}_x$ Alloy Nanoparticles for High-Frequency Applications. IEEE Transactions on Magnetics, 2007, 43, 3112-3114.	2.1	5
68	Large-scale chemical synthesis of shape and size controlled $\text{BaFe}_{12}\text{xScxO}_{19}$ platelets for in-plane oriented thick screen printed films. Journal of Applied Physics, 2008, 103, 07E515.	2.5	5
69	Crystallographic Texture and Magnetic Anisotropy and Their Influence Upon Microwave Devices. Jom, 2013, 65, 883-889.	1.9	5
70	Beam parameter effects on magnetic properties of sputtered amorphous $\text{Fe}_{40}\text{Ni}_{40}\text{B}_{15}\text{Si}_5$ and $\text{Fe}_{40}\text{Co}_{40}\text{B}_{15}\text{Si}_5$ films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1990, 8, 1325-1329.	2.1	4
71	The effects of room temperature aging upon the magnetic properties of Ba-hexaferrite films grown on 6H-SiC substrates. Journal of Applied Physics, 2008, 103, 07E513.	2.5	4
72	Alternating target laser ablation deposition of high quality barium hexaferrite thin films from barium monoferrite and hematite targets. Journal of Applied Physics, 2008, 103, 07B914.	2.5	4

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73	Analysis of Grain Shape and Orientation in BaFe ₁₂ O ₁₉ -Ferrites Using Electron Backscatter Diffraction (EBSD). IEEE Transactions on Magnetics, 2009, 45, 4219-4222.	2.1	4
74	Phase-controlled epitaxial growth of iron oxide thin films on MgO(001) and LaAlO ₃ (001) substrates. Physica Status Solidi - Rapid Research Letters, 2012, 6, 89-91.	2.4	2
75	Improved texture of polycrystalline hexaferrites using gluconic acid dispersant. Journal of Applied Physics, 2014, 115, 17A708.	2.5	2
76	Magnetostriction measurements on thin films by a slot-line ferromagnetic resonance technique (abstract). Journal of Applied Physics, 1990, 67, 5019-5019.	2.5	1
77	Tunable negative refractive index metamaterial phase shifter. , 2007, , .		1
78	Miniature, tunable, and power efficient ferrite phase shifter devices. , 2009, , .		1
79	Enhanced Jahn-Teller response induced by low-dose 10 ¹⁶ MeV I ⁺ irradiation of La _{0.7} Ca _{0.3} MnO ₃ films. Applied Physics Letters, 2014, 104, 212404.	3.3	1
80	Magnetism, structure and cation distribution in MnFe ₂ O ₄ films processing by conventional and alternating target laser ablation deposition. , 2006, , .		0
81	Influence of particle size on dynamic magnetic properties of tape-casting NiCuZn ferrite sheets. , 2015, , .		0
82	Mixed Solvent-Based Low Temperature Synthesis of Functionalized Cubic FeCo Theranostic Nanoparticles. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	0