

# Vincent G Harris

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9559926/publications.pdf>

Version: 2024-02-01

82  
papers

2,387  
citations

218677

26  
h-index

223800

46  
g-index

83  
all docs

83  
docs citations

83  
times ranked

2568  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed Solvent-Based Low Temperature Synthesis of Functionalized Cubic FeCo Theranostic Nanoparticles. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	0
2	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
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	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
5	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
6	BaFe <sub>12</sub> O <sub>19</sub> magnetoplumbite films grown on SiO <sub>2</sub> /Si substrates for widescale magnetic film semiconductor systems integration. Scripta Materialia, 2020, 188, 190-194.	5.2	6
7	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
8	High-Performance Metallic Amorphous Magnetic Flake-Based Magnetodielectric Inductors. IEEE Magnetics Letters, 2020, 11, 1-5.	1.1	6
9	The Self-Biased Circulator: Ferrite Materials Design and Process Considerations. Journal of Superconductivity and Novel Magnetism, 2019, 32, 97-108.	1.8	43
10	Tailoring magnetic properties of self-biased hexaferrites using an alternative copolymer of isobutylene and maleic anhydride. AIP Advances, 2018, 8, .	1.3	10
11	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
12	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
13	Broadband ferromagnetic resonance linewidth measurement by a microstripline transmission resonator. Applied Physics Letters, 2016, 108, .	3.3	14
14	Direct observation of symmetry-specific precession in a ferrimagnet. Physical Review B, 2015, 92, .	3.2	7
15	Influence of particle size on dynamic magnetic properties of tape-casting NiCuZn ferrite sheets. , 2015, , .		0
16	Fe <sub>3</sub> O <sub>4</sub> cladding enhanced magnetic natural resonance and microwave absorption properties of Fe <sub>0.65</sub> Co <sub>0.35</sub> alloy flakes. Journal of Alloys and Compounds, 2015, 646, 345-350.	5.5	34
17	Nanoscale-Driven Crystal Growth of Hexaferrite Heterostructures for Magnetoelectric Tuning of Microwave Semiconductor Integrated Devices. ACS Nano, 2014, 8, 11172-11180.	14.6	13
18	Improved texture of polycrystalline hexaferrites using gluconic acid dispersant. Journal of Applied Physics, 2014, 115, 17A708.	2.5	2

#	ARTICLE	IF	CITATIONS
19	Enhanced Jahn-Teller response induced by low-dose 10 <sup>16</sup> MeV I <sup>+</sup> irradiation of La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> films. Applied Physics Letters, 2014, 104, 212404.	3.3	1
20	Crystallographic Texture and Magnetic Anisotropy and Their Influence Upon Microwave Devices. Jom, 2013, 65, 883-889.	1.9	5
21	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
22	Piezoelectric properties of epitaxial Pb(Zr <sub>0.525</sub> , Ti <sub>0.475</sub> )O <sub>3</sub> films on amorphous magnetic metal substrates. Journal of Applied Physics, 2012, 111, 07D916.	2.5	8
23	Epitaxial growth of Pb(Zr <sub>0.53</sub> Ti <sub>0.47</sub> )O <sub>3</sub> films on Pt coated magnetostrictive amorphous metallic substrates toward next generation multiferroic heterostructures. Journal of Applied Physics, 2012, 111, 064104.	2.5	8
24	Large-scale synthesis of high moment FeCo nanoparticles using modified polyol synthesis. Journal of Applied Physics, 2012, 111, .	2.5	24
25	Ferrite film growth on semiconductor substrates towards microwave and millimeter wave integrated circuits. Journal of Applied Physics, 2012, 112, .	2.5	60
26	Domain rotation induced strain effect on the magnetic and magneto-electric response in CoFe <sub>2</sub> O <sub>4</sub> /Pb(Mg,Nb)O <sub>3</sub> -PbTiO <sub>3</sub> heterostructures. Journal of Applied Physics, 2012, 111, 034108.	2.5	34
27	Tuning the cation distribution and magnetic properties of single phase nanocrystalline Dy <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> garnet. Journal of Applied Physics, 2012, 111, 07A517.	2.5	16
28	Phase-controlled epitaxial growth of iron oxide thin films on MgO(001) and LaAlO <sub>3</sub> (001) substrates. Physica Status Solidi - Rapid Research Letters, 2012, 6, 89-91.	2.4	2
29	Tunable magnetic anisotropy of CoFe <sub>2</sub> O <sub>4</sub> nanopillar arrays released from BiFeO <sub>3</sub> matrix. Physica Status Solidi - Rapid Research Letters, 2012, 6, 92-94.	2.4	9
30	Modern Microwave Ferrites. IEEE Transactions on Magnetics, 2012, 48, 1075-1104.	2.1	557
31	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
32	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
33	Electronic tuning of magnetic permeability in Co <sub>2</sub> Z hexaferrite toward high frequency electromagnetic device miniaturization. Applied Physics Letters, 2011, 98, .	3.3	43
34	Quasi-one-dimensional miniature multiferroic magnetic field sensor with high sensitivity at zero bias field. Applied Physics Letters, 2011, 99, .	3.3	48
35	Magnetolectric effect in crystallographically textured BaTiO <sub>3</sub> films deposited on ferromagnetic metallic glass foils. Journal of Applied Physics, 2011, 109, .	2.5	24
36	Microwave magnetolectric coupling and ferromagnetic resonance frequency tuning of a Co <sub>2</sub> MnSb/GaAs/PZN-PT heterostructure. Physical Review B, 2011, 83, .	3.2	26

#	ARTICLE	IF	CITATIONS
37	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
38	Electrically controlled magnetization switching in a multiferroic heterostructure. Applied Physics Letters, 2010, 97, 052502.	3.3	63
39	Structure, magnetic, and microwave properties of thick Ba-hexaferrite films epitaxially grown on GaN/Al <sub>2</sub> O <sub>3</sub> substrates. Applied Physics Letters, 2010, 96, 242502.	3.3	38
40	Epitaxial growth of barium hexaferrite film on wide bandgap semiconductor 6H- $\alpha$ -SiC by molecular beam epitaxy. Journal Physics D: Applied Physics, 2010, 43, 095002.	2.8	21
41	Multiferroic heterostructure fringe field tuning of meander line microstrip ferrite phase shifter. Applied Physics Letters, 2010, 96, .	3.3	47
42	Large tunability of Néel temperature by growth-rate-induced cation inversion in Mn-ferrite nanoparticles. Applied Physics Letters, 2009, 94, 113109.	3.3	29
43	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
44	Large converse magnetoelectric coupling in FeCoV/lead zinc niobate-lead titanate heterostructure. Applied Physics Letters, 2009, 94, .	3.3	45
45	Giant magnetodielectric effect and magnetic field tunable dielectric resonance in spinel MnZn ferrite. Applied Physics Letters, 2009, 94, .	3.3	53
46	Microwave tunability in a GaAs-based multiferroic heterostructure: Co <sub>2</sub> MnAl/GaAs/PMN-PT. Journal of Applied Physics, 2009, 105, .	2.5	23
47	High-rate reactive ion etching of barium hexaferrite films using optimal CHF <sub>3</sub> /SF <sub>6</sub> gas mixtures. Applied Physics Letters, 2009, 94, 112505.	3.3	19
48	Analysis of Grain Shape and Orientation in BaFe <sub>12</sub> O <sub>19</sub> -Ferrites Using Electron Backscatter Diffraction (EBSD). IEEE Transactions on Magnetics, 2009, 45, 4219-4222.	2.1	4
49	High Performance Compact Microstripline Phase Shifter at C-Band Using Yttrium Iron Garnet. IEEE Transactions on Magnetics, 2009, 45, 4176-4178.	2.1	11
50	Ultrawideband (UWB) Antennas With Multiresonant Split-Ring Loops. IEEE Transactions on Antennas and Propagation, 2009, 57, 256-260.	5.1	40
51	Miniature, tunable, and power efficient ferrite phase shifter devices. , 2009, , .		1
52	Magnetoelectric effects in composite of nanogranular Fe $\cdot$ TiO $\hat{2}$ films. Applied Physics Letters, 2008, 92, 042508.	3.3	8
53	Direct chemical synthesis of high coercivity air-stable SmCo nanoblades. Applied Physics Letters, 2008, 93, .	3.3	64
54	Small Ultra-Wideband (UWB) Bandpass Filter With Notched Band. IEEE Microwave and Wireless Components Letters, 2008, 18, 176-178.	3.2	132

#	ARTICLE	IF	CITATIONS
55	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
56	A microstrip tunable negative refractive index metamaterial and phase shifter. Applied Physics Letters, 2008, 93, 193505.	3.3	18
57	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
58	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
59	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
60	Magnetic and microwave properties of basal-plane oriented BaFe <sub>11</sub> In <sub>1</sub> O <sub>19</sub> ferrite thick films processed by screen printing. Journal of Applied Physics, 2008, 103, 07F710.	2.5	21
61	Cation engineering of Cu-ferrite films deposited by alternating target laser ablation deposition. Journal of Applied Physics, 2008, 103, .	2.5	21
62	Magnetic and atomic structure parameters of Sc-doped barium hexagonal ferrites. Journal of Applied Physics, 2008, 103, .	2.5	20
63	Correlation between texture, anisotropy, and vector magnetization processes investigated by two-dimensional vector vibrating sample magnetometry in BaO(Fe <sub>2</sub> O <sub>3</sub> ) <sub>6</sub> thin film. Journal of Applied Physics, 2008, 103, .	2.5	7
64	Large-scale chemical synthesis of shape and size controlled BaFe <sub>12</sub> ~xScxO <sub>19</sub> platelets for in-plane oriented thick screen printed films. Journal of Applied Physics, 2008, 103, 07E515.	2.5	5
65	Size dependent magnetic properties and cation inversion in chemically synthesized MnFe <sub>2</sub> O <sub>4</sub> nanoparticles. Journal of Applied Physics, 2007, 101, 09M509.	2.5	40
66	Magnetic anisotropy and crystalline texture in BaO(Fe <sub>2</sub> O <sub>3</sub> ) <sub>6</sub> thin films deposited on GaN~Al <sub>2</sub> O <sub>3</sub> . Journal of Applied Physics, 2007, 101, 09M521.	2.5	12
67	Tunable negative refractive index metamaterial phase shifter. , 2007, , .		1
68	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
69	BaFe <sub>12</sub> O <sub>19</sub> thin films grown at the atomic scale from BaFe <sub>2</sub> O <sub>4</sub> and $\hat{1}\pm$ -Fe <sub>2</sub> O <sub>3</sub> targets. Applied Physics Letters, 2007, 91, 162510.	3.3	21
70	Ferrite-Coupled Line Circulator Simulations For Application at X-Band Frequency. IEEE Transactions on Magnetics, 2007, 43, 2639-2641.	2.1	10
71	Synthesis and Magnetic Properties of Co <sub>{1- {x}}</sub> Ir <sub>{x}</sub> Alloy Nanoparticles for High-Frequency Applications. IEEE Transactions on Magnetics, 2007, 43, 3112-3114.	2.1	5
72	Oriented barium hexaferrite thick films with narrow ferromagnetic resonance linewidth. Applied Physics Letters, 2006, 88, 062516.	3.3	100

#	ARTICLE	IF	CITATIONS
73	Single crystal Fe films grown on Ge (001) substrates by magnetron sputtering. Applied Physics Letters, 2006, 89, 112501.	3.3	6
74	Magnetism, structure and cation distribution in MnFe <sub>2</sub> O <sub>4</sub> films processing by conventional and alternating target laser ablation deposition. , 2006, , .		0
75	A quantitative model for the nonlinear response of fluxgate magnetometers. Journal of Applied Physics, 2006, 99, 08B316.	2.5	27
76	Site-specific local structure of Mn in artificial manganese ferrite films. Physical Review B, 2006, 74, .	3.2	17
77	Magnetic and structural properties of pulsed laser deposited CuFe <sub>2</sub> O <sub>4</sub> films. Journal of Applied Physics, 2005, 97, 10G107.	2.5	14
78	Cation-disorder-enhanced magnetization in pulsed-laser-deposited CuFe <sub>2</sub> O <sub>4</sub> films. Applied Physics Letters, 2005, 86, 252510.	3.3	39
79	Element-specific magnetic properties of Co <sub>2</sub> MnSi thin films. Journal of Applied Physics, 2005, 97, 10C302.	2.5	12
80	Core-loss analysis of an (Fe, Co, Ni)-based nanocrystalline soft magnetic alloy. Journal of Applied Physics, 2005, 97, 10F502.	2.5	29
81	Beam parameter effects on magnetic properties of sputtered amorphous Fe <sub>40</sub> Ni <sub>40</sub> B <sub>15</sub> Si <sub>5</sub> and Fe <sub>40</sub> Co <sub>40</sub> B <sub>15</sub> Si <sub>5</sub> films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1990, 8, 1325-1329.	2.1	4
82	Magnetostriction measurements on thin films by a slotâ€line ferromagnetic resonance technique (abstract). Journal of Applied Physics, 1990, 67, 5019-5019.	2.5	1