Yang-Ki Hong

List of Publications by Year
in descending order

73	1,137	430874 18	434195 31
papers	citations	h-index	g-index

73	73	73	1576
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Performance Evaluation and Comparison of Three-Phase and Six-Phase Winding in Ultrahigh-Speed Machine for High-Power Application. IEEE Transactions on Industrial Electronics, 2023, 70, 4570-4582.	7.9	4
2	Design of High-Power Ultra-High-Speed Rotor for Portable Mechanical Antenna Drives. IEEE Transactions on Industrial Electronics, 2022, 69, 12610-12620.	7.9	5
3	Novel Design of Six-Phase Spoke-Type Ferrite Permanent Magnet Motor for Electric Truck Application. Energies, 2022, 15, 1997.	3.1	2
4	Intelligent Vehicle Network Routing With Adaptive 3D Beam Alignment for mmWave 5G-Based V2X Communications. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2706-2718.	8.0	40
5	Suppressing antiferromagnetic coupling in rare-earth free ferromagnetic MnBi-Cu permanent magnet. Journal of Applied Physics, 2021, 129, .	2.5	4
6	VHF/UHF Open-Sleeve Dipole Antenna Array for Airborne Ice Sounding and Imaging Radar. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 883-887.	4.0	4
7	Upper Limit of Carbon Concentration in Ferromagnetic L1â‚€-Ordered FePt-C for Tb/inÂ² Data Storage Density Heat-Assisted Magnetic Recording Media. IEEE Transactions on Magnetics, 2021, 57, 1-6.	2.1	0
8	Micromagnetic Simulation of Coercivity of Alnico Magnets. IEEE Magnetics Letters, 2021, 12, 1-5.	1.1	7
9	Low Torque Ripple Spoke-Type Permanent Magnet Motor for Electric Vehicle. , 2019, , .		5
10	Evaluation on Pseudo-Doppler Antenna Array using Software-Defined-Radio. , 2019, , .		0
11	Evaluation of Efficiency-Shifting Permanent Magnet Motor in Electric Vehicle. , 2019, , .		2
12	Developing a Direction-Finding System and Channel Sounder Using a Pseudo-Doppler Antenna Array [Education Corner]. IEEE Antennas and Propagation Magazine, 2019, 61, 84-89.	1.4	4
13	Dualâ€band (5G millimeterâ€wave and dedicated shortâ€range communication) stacked patch antenna for advanced telematics applications. Microwave and Optical Technology Letters, 2019, 61, 1381-1387.	1.4	8
14	Site preference and magnetic properties of Zn-Sn-substituted strontium hexaferrite. Journal of Applied Physics, 2019, 125, .	2.5	15
15	Lossy Ferrite Core-Dielectric Shell Structure for Miniature GHz Axial-Mode Helical Antenna. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 951-955.	4.0	7
16	Effects of Lightning on the Magnetic Properties of Volcanic Ash. Scientific Reports, 2019, 9, 4726.	3.3	6
17	X-Band Archimedean Spiral Antenna Array with Sloped-Wall Backing Cavity. , 2019, , .		2
18	A Glass-Integrated Ferrite FM Antenna for Vehicle Telematics. , 2019, , .		0

#	Article	IF	Citations
19	Figure of merit of <scp>X</scp>â€type hexaferrite (<scp>B</scp>a₂<scp>C</scp>o₂<scp>F</scp>e₂₈<scp>O</scp>₄₆) for mobile antenna applications. Microwave and Optical Technology Letters, 2018, 60, 795-799.		7
20	Ferrite-Cored Patch Antenna With Suppressed Harmonic Radiation. IEEE Transactions on Antennas and Propagation, 2018, 66, 3154-3159.	5.1	13
21	Cavity-Backed Archimedean Spiral Antenna with Conical Perturbations for 3U CubeSat Applications [Education Corner]. IEEE Antennas and Propagation Magazine, 2018, 60, 102-109.	1.4	2
22	Iron oxide-carbon core-shell nanoparticles for dual-modal imaging-guided photothermal therapy. Journal of Controlled Release, 2018, 289, 70-78.	9.9	55
23	Method for Computing Frequency Response and Radiation Pattern of Magnetized Cylindrical Ferrite Resonator Antenna. IEEE Transactions on Antennas and Propagation, 2018, 66, 4415-4425.	5.1	3
24	A Simple Wireless Power Charging Antenna System: Evaluation of Ferrite Sheet. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	20
25	A Simple Analytical Model for Magnetization and Coercivity of Hard/Soft Nanocomposite Magnets. Scientific Reports, 2017, 7, 4960.	3.3	9
26	Effect of ionic substitutions on the magnetic properties of strontium hexaferrite: A first principles study. AIP Advances, 2017, 7, 115209.	1.3	15
27	Figure of Merit of W-Type BaCo1.4Zn0.6Fe16O27 Hexaferrite for Gigahertz Device Applications. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	6
28	Electronic structures of nanocrystalline Fe90-xCuxSi10-yBy soft magnets. AIP Advances, 2016, 6, .	1.3	0
29	Electronic structures of MnB soft magnet. AIP Advances, 2016, 6, .	1.3	6
30	Low-loss Z-type hexaferrite (Ba3Co2Fe24O41) for GHz antenna applications. Journal of Magnetism and Magnetic Materials, 2016, 414, 194-197.	2.3	36
31	Implantable ferrite antenna for biomedical applications. Microwave and Optical Technology Letters, 2016, 58, 2745-2749.	1.4	5
32	Electronic Structure of Laâ€“Co Substituted Strontium Hexaferrite (Sr_{1 -) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (x}La Magnetics Letters, 2016, 7, 1-3.	1.1	7
33	Electronic Structure and Magnetic Properties of Mn-Substituted Feâ€“Pt. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	1
34	Thermomagnetic stability of M-type strontium ferrite (SrFe12O19) particles with different shapes. Electronic Materials Letters, 2016, 12, 100-106.	2.2	2
35	Coercivity of SrFe₁₂O₁₉ Hexaferrite Platelets Near Single Domain Size. IEEE Magnetics Letters, 2015, 6, 1-3.	1.1	27
36	Exchange coupled SrFe12O19/Fe-Co core/shell particles with different shell thickness. Electronic Materials Letters, 2015, 11, 1021-1027.	2.2	19

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37	Electronic Structure and Maximum Energy Product of MnBi. Metals, 2014, 4, 455-464.	2.3	59
38	Electrically small ferrite antenna gain with dc magnetic field for mobile device application. Microwave and Optical Technology Letters, 2014, 56, 1531-1534.	1.4	0
39	Maximum energy product at elevated temperatures for hexagonal strontium ferrite (SrFe12O19) magnet. Journal of Magnetism and Magnetic Materials, 2014, 355, 1-6.	2.3	50
40	Microwave-Assisted Magnetization Reversal of Exchange-Coupled Composite Nanopillar With Large Gilbert Damping Constant. IEEE Transactions on Magnetics, 2014, 50, 1-3.	2.1	4
41	Thermoelectric properties of Mn-doped Mgâ€“Sb single crystals. Journal of Materials Chemistry A, 2014, 2, 12311-12316.	10.3	78
42	Miniature Hexaferrite Axial-Mode Helical Antenna for Unmanned Aerial Vehicle Applications. IEEE Transactions on Magnetics, 2013, 49, 4265-4268.	2.1	29
43	Definition of Magnetic Exchange Length. IEEE Transactions on Magnetics, 2013, 49, 4937-4939.	2.1	162
44	Magnetic properties of MnBi based alloys: First-principles calculations for MnBi-Co and MnBi-Co-Fe cases. AIP Advances, 2013, 3, .	1.3	23
45	Control of magnetic loss tangent of hexaferrite for advanced radio frequency antenna applications. Journal of Applied Physics, 2013, 113, .	2.5	18
46	Micromagnetic Study of Microwave-Assisted Magnetization Reversals of Exchange-Coupled Composite Nanopillars. IEEE Transactions on Magnetics, 2013, 49, 562-566.	2.1	14
47	Hexaferrite slant and slot MIMO antenna element for mobile devices. Microwave and Optical Technology Letters, 2013, 55, 551-554.	1.4	2
48	Dual-Polarized Hexaferrite Antenna for Unmanned Aerial Vehicle (UAV) Applications. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 765-768.	4.0	22
49	Characteristic study of vector-controlled permanent magnet synchronous motor in electric drive vehicles. , 2012, , .		4
50	Effects of mechanical contact stress on magnetic properties of ferromagnetic film. Journal of Applied Physics, 2012, 112, 084901.	2.5	9
51	Micromagnetic Computer Simulated Scaling Effect of S-Shaped Permalloy Nano-Element on Operating Fields for and or or Logic. IEEE Transactions on Magnetics, 2012, 48, 1851-1855.	2.1	9
52	High ferromagnetic resonance and thermal stability spinel Ni0.7Mn0.3â^'xCoxFe2O4 ferrite for ultra high frequency devices. Journal of Applied Physics, 2012, 111, .	2.5	3
53	Soft M-type hexaferrite for very high frequency miniature antenna applications. Journal of Applied Physics, 2012, 111, .	2.5	46
54	High-efficiency ferrite meander antenna (HEMA) for LTE applications. , 2012, , .		1

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55	Miniature Long-Term Evolution (LTE) MIMO Ferrite Antenna. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 603-606.	4.0	42
56	Ferrimagnetic Sr<formula formulatype="inline"><tex Notation="TeX">$_{1.5}$</tex></formula>Ba<formula formulatype="inline"><tex Notation="TeX"> $_{0.5}$</tex></formula>Zn<formula formulatype="inline"><tex Notation="TeX">$_2$</tex></formula>Fe<formula formulatype="inline"><tex Notation="TeX"> $_{12}$</tex> </formula>O<formula formulatype="inline"><tex Notation="TeX">$_{22}$</tex> </formula>. IEEE Magnetics Letters, 2011, 2, 5000104-5000104.	1.1	5
57	Integrated Ferrite Film Inductor for Power System-on-Chip (PowerSoC) Smart Phone Applications. IEEE Transactions on Magnetics, 2011, 47, 304-307.	2.1	15
58	Magnetic and microwave properties of ferrimagnetic Zr-substituted Ba2Zn2Fe12O22 (Zn-Y) single crystals. Journal of Applied Physics, 2011, 109, 07A509.	2.5	15
59	Broadband bluetooth antenna based on Co₂Z hexaferriteâ€glass composite. Microwave and Optical Technology Letters, 2011, 53, 1222-1225.	1.4	12
60	Investigation of maximum wind power extraction using adaptive virtual lookup-table approach. International Journal of Energy Research, 2011, 35, 964-978.	4.5	10
61	Low loss Co2Z (Ba3Co2Fe24O41)â€“glass composite for gigahertz antenna application. Journal of Applied Physics, 2011, 109, .	2.5	35
62	High-Quality Factor Ni-Zn Ferrite Planar Inductor. IEEE Transactions on Magnetics, 2010, 46, 2417-2420.	2.1	17
63	Miniaturized annular ring patch antenna for MIMO communications. , 2010, , .		0
64	Miniaturized Broadband Ferrite T-DMB Antenna for Mobile-Phone Applications. IEEE Transactions on Magnetics, 2010, 46, 2361-2364.	2.1	33
65	Integrating electrical and aerodynamic characteristics for DFIG wind energy extraction and control study. International Journal of Energy Research, 2010, 34, 1052-1070.	4.5	6
66	Conversion of Worm-Shaped Antiferromagnetic Hematite to Ferrimagnetic Spherical Barium-Ferrite Nanoparticles for Particulate Recording Media. IEEE Magnetics Letters, 2010, 1, 4500204-4500204.	1.1	12
67	Miniaturized circular antennas for MIMO communication systems — pattern diversity. , 2010, , .		7
68	Miniaturized Multimode Circular Patch Antennas for MIMO Communications. , 2009, , .		7
69	Spin-Polarized Current Switching of Co/Cu/Py Elongated Pac-Man Spin-Valve. IEEE Transactions on Magnetics, 2009, 45, 2367-2370.	2.1	2
70	Co$_{2}$Z Hexaferrite T-DMB Antenna for Mobile Phone Applications. IEEE Transactions on Magnetics, 2009, 45, 4199-4202.	2.1	14
71	Conversion of Nano-Sized Spherical Magnetite to Spherical Barium Ferrite Nanoparticles for High Density Particulate Recording Media. IEEE Transactions on Magnetics, 2009, 45, 3590-3593.	2.1	10
72	Broadband Ni$_{m x}$Zn$_{0.8 - {m x}}$Cu$_{0.2}$Fe$_{2}$O$_{4}$ Electromagnetic Absorber for 1 GHz Application. IEEE Transactions on Magnetics, 2009, 45, 4230-4233.	2.1	1

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73	Growth and characterization of 144â€‚Î¼m thick barium ferrite single crystalline film for microwave device application. Journal of Applied Physics, 2009, 105, 07A511.	2.5	13