Ick-Jae Yoon

List of Publications by Year
in descending order

51 papers	602 citations	687220 13 h-index	642610 23 g-index
51 all docs	51 docs citations	51 times ranked	697 citing authors

#	Article	IF	Citations
1	A Wideband Monoconical Antenna for Airborne Applications With a Null-Filled Radiation Pattern. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1158-1162.	2.4	4
2	A Deionized Water-Infilled Dual-Layer Insulator-Applied Brain-Implanted UWB Antenna for Wireless Biotelemetry Applications. IEEE Transactions on Antennas and Propagation, 2022, 70, 6469-6478.	3.1	9
3	Polyvinylidene Fluoride Coreâ€“Shell Nanofiber Membranes with Highly Conductive Shells for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2021, 13, 25428-25437.	4.0	25
4	Analytical Study and Comparison of Electromagnetic Characteristics of 8-Pole 9-Slot and 8-Pole 12-Slot Permanent Magnet Synchronous Machines Considering Rotor Eccentricity. Electronics (Switzerland), 2021, 10, 2036.	1.8	3
5	A Compact Triple-Band Antenna With a Broadside Radiation Characteristic for Head-Implantable Wireless Communications. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 958-962.	2.4	27
6	Recent Advancements in Quasi-Isotropic Antennas: A Review. IEEE Access, 2021, 9, 146296-146317.	2.6	5
7	Polarization and Incidence Angle Independent Low-Profile Wideband Metamaterial Electromagnetic Absorber Using Indium Tin Oxide (ITO) Film. Applied Sciences (Switzerland), 2021, 11, 9315.	1.3	9
8	Deionized Water Insulator Loaded Brain-Implanted UWB Antenna. , 2021, , .		0
9	Investigation on Insulated, Brain-Implanted Antenna for Highly Reliable Biotelemetry Communication in MICS and ISM Bands. Sensors, 2020, 20, 242.	2.1	11
10	Design of an Electrically Small, Planar Quasi-Isotropic Antenna for Enhancement of Wireless Link Reliability under NLOS Channels. Applied Sciences (Switzerland), 2020, 10, 6204.	1.3	12
11	Sustaining the Radiation Properties of a 900-MHz-Band Planar LoRa Antenna Using a 2-by-2 Thin EBG Ground Plane. IEEE Access, 2020, 8, 145586-145592.	2.6	6
12	Design and Verification of an Electrically Small, Extremely Thin Dual-Band Quasi-Isotropic Antenna. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2482-2486.	2.4	20
13	Experimentally Verifying the Generation Characteristics of a Double-Sided Linear Permanent Magnet Synchronous Generator for Ocean Wave Energy Conversion. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.1	5
14	Realization of Electrically Small, Low-Profile Quasi-Isotropic Antenna Using 3D Printing Technology. IEEE Access, 2020, 8, 27067-27073.	2.6	16
15	Experimental and comparative study of mechanical and electromagnetic aspects of a high-speed permanent magnetic motor with two different magnetic materials. AIP Advances, 2020, 10, .	0.6	1
16	Self-Aligning Limited-Angle Rotary Torque PM Motor for Control Valve: Design and Experimental Verification. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	5
17	Electrically Equivalent Model Design of a Ku-Band Helical Antenna Matching Section for Ease of 3D Printing Technology Use. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2020, 31, 599-606.	0.0	1
18	Low-Profile, Electrically Small Planar Huygens Source Antenna With an Endfire Radiation Characteristic. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 412-416.	2.4	16

#	Article	IF	Citations
19	Robust Wireless Sensor and Actuator Networks for Networked Control Systems. Sensors, 2019, 19, 1535.	2.1	12
20	Torque Characteristic Analysis and Measurement of Magnetic Rackâ€“Pinion Gear Based on Analytical Method. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	7
21	Lightâ€Permeable Air Filter with Selfâ€Polarized Nylonâ€11 Nanofibers for Enhanced Trapping of Particulate Matters. Advanced Materials Interfaces, 2019, 6, 1801832.	1.9	22
22	Reusable Polybenzimidazole Nanofiber Membrane Filter for Highly Breathable PM_{2.5} Dust Proof Mask. ACS Applied Materials & Interfaces, 2019, 11, 2750-2757.	4.0	98
23	Comparison of Electromagnetic and Dynamic Characteristics of Linear Oscillating Actuators With Rare-Earth and Ferrite Magnets. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	12
24	Ferroelectric nanoparticle-embedded sponge structure triboelectric generators. Nanotechnology, 2018, 29, 185402.	1.3	15
25	Investigation of 3-D Printed, Electrically Small, and Thin Magnetic Dipole Antenna. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 654-657.	2.4	10
26	Transmission Scheduling Schemes of Industrial Wireless Sensors for Heterogeneous Multiple Control Systems. Sensors, 2018, 18, 4284.	2.1	5
27	The Problem of CAN Bus Resonance When Performing CISPR25 Conducted Emissions Testing and Proposed Solutions to the Problem. , 2018, , .		0
28	Gain Characteristic Maintained, Miniaturized LPDA Antenna Using Partially Applied Folded Planar Helix Dipoles. IEEE Access, 2018, 6, 25874-25880.	2.6	14
29	A 3D printed low profile magnetic dipole antenna. , 2017, , .		2
30	An electrically small, 3D printed folded spherical meander antenna. , 2017, , .		3
31	Size reduction of log-periodic dipole array antenna using folded planar helix elements. , 2017, , .		0
32	Investigation of 3D Printed Electrically Small Folded Spherical Meander Wire Antenna. Journal of the Korean Institute of Electromagnetic Engineering and Science, 2017, 17, 228-232.	2.9	15
33	Electrically small, copper strip made folded spherical helix antennas realized by 3D printing technology. , 2016, , .		1
34	Wireless power transfer in the radiating near-field region. , 2015, , .		3
35	Design of an electrically small circularly polarised turnstile antenna and its application to nearâ€field wireless power transfer. IET Microwaves, Antennas and Propagation, 2014, 8, 308-314.	0.7	5
36	Errata to â€œInvestigation of Near-Field Wireless Power Transfer in the Presence of Lossy Dielectric Materialsâ€•[Jan 13 482-488]. IEEE Transactions on Antennas and Propagation, 2013, 61, 1016-1016.	3.1	0

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37	Investigation of Near-Field Wireless Power Transfer in the Presence of Lossy Dielectric Materials. IEEE Transactions on Antennas and Propagation, 2013, 61, 482-488.	3.1	27
38	Investigation of material effects on near-field wireless power transfer. , 2012, , .		2
39	Investigation of Near-Field Wireless Power Transfer Under Multiple Transmitters. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 662-665.	2.4	80
40	An electrically small Yagi antenna with enhanced bandwidth characteristics using folded cylindrical helix dipoles. Microwave and Optical Technology Letters, 2011, 53, 1231-1233.	0.9	3
41	Near-field coupling between small folded cylindrical helix dipoles. , 2010, , .		0
42	Realizing Efficient Wireless Power Transfer Using Small Folded Cylindrical Helix Dipoles. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 846-849.	2.4	47
43	Electrically small antenna with frequency tuning circuit for wideband applications. Microwave and Optical Technology Letters, 2008, 50, 244-247.	0.9	3
44	Frequency tunable antenna for mobile TV signal reception. , 2007, , .		1
45	Internal antenna design of 900 MHz-band mobile radio frequency identification system. Microwave and Optical Technology Letters, 2007, 49, 2079-2082.	0.9	3
46	Read range measurement and estimation of 900-MHz-band mobile radiofrequency identification (mRFID) system. Microwave and Optical Technology Letters, 2007, 49, 2753-2755.	0.9	5
47	Active integrated antenna for mobile TV signal reception. Microwave and Optical Technology Letters, 2007, 49, 2998-3001.	0.9	4
48	UWB RF receiver front-end with band-notch characteristic of 5 GHz WLAN. , 2006, , .		3
49	Inverted-F and Whip Antenna Combination for Terrestrial Digital Multimedia Broadcasting (T-DMB) Communication with Notebook Computer. , 2006, , .		1
50	A novel fully integrated transmitter front-end with high power-added efficiency. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 3206-3214.	2.9	24
51	A novel fully integrated active antenna. , 0, , .		0