

Yong-Kyu Yoon

List of Publications by Year in descending order

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72
papers

509
citations

840728

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docs citations

72
times ranked

505
citing authors

#	ARTICLE	IF	CITATIONS
1	A Compact Omnidirectional Self-Packaged Patch Antenna With Complementary Split-Ring Resonator Loading for Wireless Endoscope Applications. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1532-1535.	4.0	70
2	A reduced intermodulation distortion tunable ferroelectric capacitor-architecture and demonstration. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 2568-2576.	4.6	45
3	Wireless Power Transfer Systems Using Metamaterials: A Review. IEEE Access, 2020, 8, 147930-147947.	4.2	43
4	Electrically Tunable Evanescent Mode Half-Mode Substrate-Integrated-Waveguide Resonators. IEEE Microwave and Wireless Components Letters, 2012, 22, 123-125.	3.2	30
5	Tunable Metamaterial Slab for Efficiency Improvement in Misaligned Wireless Power Transfer. IEEE Microwave and Wireless Components Letters, 2020, 30, 912-915.	3.2	23
6	Hybrid Electrospun Polycaprolactone Mats Consisting of Nanofibers and Microbeads for Extended Release of Dexamethasone. Pharmaceutical Research, 2016, 33, 1509-1516.	3.5	22
7	Study on Cu/Ni Nano Superlattice Conductors for Reduced RF Loss. IEEE Microwave and Wireless Components Letters, 2016, 26, 258-260.	3.2	22
8	A surface micromachined broadband millimeter-wave filter using quarter-mode substrate integrated waveguide loaded with complementary split ring resonator. , 2014, , .		18
9	Room temperature multiferroic properties of (Fex, Sr1-x)TiO3 thin films. Applied Physics Letters, 2014, 105, .	3.3	16
10	35-GHz Barium Hexaferrite/PDMS Composite-Based Millimeter-Wave Circulators for 5G Applications. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 5065-5071.	4.6	16
11	Microwave characteristics of sol-gel based Ag-doped (Ba0.6Sr0.4)TiO3 thin films. Thin Solid Films, 2014, 565, 172-178.	1.8	15
12	Airbrushing and surface modification for fabricating flexible electronics on polydimethylsiloxane. Journal of Micromechanics and Microengineering, 2018, 28, 125014.	2.6	14
13	Bridged Composite Right/Left Handed Unit Cell With All-Pass and Triple Band Response. IEEE Microwave and Wireless Components Letters, 2012, 22, 568-570.	3.2	10
14	Preparation of a ZnO Nanostructure as the Anode Material Using RF Magnetron Sputtering System. Nanomaterials, 2022, 12, 215.	4.1	10
15	Glass interposer integrated dual-band millimeter wave TGV antenna for inter-/intra chip and board communications. , 2016, , .		9
16	Metamaterial-Integrated High-Gain Rectenna for RF Sensing and Energy Harvesting Applications. Sensors, 2021, 21, 6580.	3.8	9
17	Integrated low loss RF passive components on glass interposer technology. , 2015, , .		8
18	High Efficiency Metamaterial-based Multi-scale Wireless Power Transfer for Smart Home Applications. , 2021, , .		8

#	ARTICLE	IF	CITATIONS
19	Airbrushed Dipole RF Strain Sensor Antenna on a Stretchable Polyurethane Substrate. , 2018, , .		7
20	A Silicon Optical Bench-Based Forward-View Two-Axis Scanner for Microendoscopy Applications. Micromachines, 2020, 11, 1051.	2.9	7
21	Flexible Liquid Crystal Polymer based complementary split ring resonator loaded quarter mode substrate integrated waveguide filters for compact and wearable broadband RF applications. , 2014, , .		6
22	High-Q K-band integrated inductors using Cu/Ni nano-superlattice conductors. , 2015, , .		6
23	Patterning of thick electroplated CoPt magnets using SUâ€micromoulds. Micro and Nano Letters, 2019, 14, 1393-1396.	1.3	6
24	A surface micromachined high directivity GPS patch antenna with a four-leaf clover shape metamaterial slab. , 2012, , .		5
25	Compact frequency and bandwidth tunable stopband filters using split ring resonators and varactors coupled transmission line. AEU - International Journal of Electronics and Communications, 2012, 66, 865-870.	2.9	5
26	A low ohmic loss radial superlattice conductor at 15 GHz using eddy current canceling effect. , 2013, , .		5
27	Magnetically tunable nano-superlattice metaconductors for RF applications. , 2016, , .		5
28	Investigation of Ferromagnetic Resonance Shift in Screen-Printed Barium Ferrite/Samarium Cobalt Composites. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3230-3236.	4.6	5
29	High-Radiation Efficiency in Array Antennas Using Cu/Co Metaconductors. IEEE Transactions on Antennas and Propagation, 2021, 69, 7993-7998.	5.1	5
30	High Efficiency Multiscale Wireless Power Transfer System Using Metasurface Slabs. IEEE Access, 2022, 10, 46214-46223.	4.2	5
31	A compact self-packaged patch antenna with non-planar complimentary split ring resonator loading. , 2011, , .		4
32	Spherical super wideband (SWB) monopole antenna with micromachined tapered feeding line. , 2013, , .		4
33	Millimeterâ€wave bandpass filter on LCP using CSRRâ€loaded triangularâ€shape quarterâ€mode substrate integrated waveguide. Microwave and Optical Technology Letters, 2015, 57, 1782-1784.	1.4	4
34	Development of a Spatially Resolved ^3He Quasi-Particle Detector. Journal of Low Temperature Physics, 2016, 183, 307-312.	1.4	4
35	Screen-Printable, Self-Biased SrM/PDMS Composites for Integrated Magnetic Microwave Devices. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	4
36	Growth Properties of Carbon Nanowalls on Nickel and Titanium Interlayers. Molecules, 2022, 27, 406.	3.8	4

#	ARTICLE	IF	CITATIONS
37	Double-side exposure UV-LED CNC lithography for fine 3D microfabrication. , 2017, , .		3
38	Metamaterial-inspired dual-function loop antenna for wireless power transfer and wireless communications. , 2020, , .		3
39	Rollable metamaterial screen for magnetic resonance coupling-based high-efficiency wireless power transfer. International Journal of Microwave and Wireless Technologies, 2021, 13, 365-373.	1.9	3
40	Ultra-High Q-factor Through Fused-silica Via (TFV) Integrated 3D Solenoid Inductor for Millimeter Wave Applications. , 2021, , .		3
41	Optical Transmittance and Reflectance of Lanthanum Nickelate at Telecommunication Frequencies. , 2018, , .		2
42	Thermal Stability of Cu/Co Metaconductor and Its Millimeter Wave Applications. , 2018, , .		2
43	Experimental demonstration of multi-watt wireless power transmission to ferrite-core receivers at 6.78 MHz. Wireless Power Transfer, 2019, 6, 17-25.	1.1	2
44	Reconfigurable split ring resonator array loaded waveguide for insitu tuning. , 2011, , .		1
45	Compact self-packaged active folded patch antenna with omni-directional radiation pattern. , 2011, , .		1
46	Compact 3D integrable SU8 embedded microwave bandpass filters using complementary split ring resonator loaded half mode substrate integrated waveguide. , 2011, , .		1
47	Corrugated substrate integrated waveguide with dual band non-Bragg resonance. , 2011, , .		1
48	Highly compact surface micromachined metamaterial circuits using multilayers of low-loss Benzocyclobutene for microwave and millimeter wave applications. , 2012, , .		1
49	Micromachined Air-Lifted Pillar Arrays for Terahertz Devices. IEEE Electron Device Letters, 2014, 35, 470-472.	3.9	1
50	High Q-factor Ku band inductor using Cylindrical Radial Superlattice conductor and air-lifted architecture. , 2014, , .		1
51	Guest Editorial: RF and Communication Technologies for Wireless IMPLANTS. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 899-900.	6.3	1
52	Hybrid cylindrical radial superlattice conductor-based air-lifted RF inductors with ultra-high quality factor for UWB and K-bands. , 2016, , .		1
53	Atmospheric HF vapor based silicon etching with Pt catalyst for high fidelity through silicon via (TSV) fabrication. , 2022, , .		1
54	Flexible metamaterial lens for magnetic field and signal-to-noise ratio improvements in 1.5 T and 3 T magnetic resonance imaging. , 2022, , .		1

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55	Metaconductor Based Highly Energy Efficient Differential Striplines for 112 Gbps Data Bus With Sub 0.1 dB/mm Package Insertion Loss. , 2022, , .		1
56	Wirelessly actuated microvalve system using induction heating and its thermal effect on the microfluidic system. , 2011, , .		0
57	Hybrid mode radiation in patch antenna loaded with corrugated electric via arrays. , 2011, , .		0
58	A compact self-packaged patch antenna folded in rectangular waveguide shape. , 2011, , .		0
59	A compact 100 MHz to 7 GHz frequency equalizer based on distributed passive circuits. , 2012, , .		0
60	Self-packaged wrappable patch antenna and circuit system for a universal wireless endoscope platform. , 2012, , .		0
61	Dual band antenna using the substrate integrated waveguide as an Epsilon Negative transmission line. , 2012, , .		0
62	Fabrication of Self-Packaged Seamless Nanoporous SU-8 Microchannels. Journal of Microelectromechanical Systems, 2015, 24, 256-258.	2.5	0
63	Fabrication of three-dimensional millimeter-height structures using direct ultraviolet lithography on liquid-state photoresist for simple and fast manufacturing. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2015, 14, 033504.	0.9	0
64	Fabrication of high-aspect-ratio nanoporous high-k MTiO_3 ($M = \text{Ba, Sr, or Tj}$) $\text{ETQqO}_0\text{O}_0\text{rgBT}$ /Overlock 10 Tf 50 38 2017, , .		0
65	Erratum to "œ passive wireless microelectromechanical pressure sensor for harsh environments" [feb 18 73-85]. Journal of Microelectromechanical Systems, 2018, 27, 375-375.	2.5	0
66	Solely Calcine Controlled Ferroelectricity and Resistivity of Barium Titanate Thin Films and Their Advanced Memory Applications. , 2018, , .		0
67	Multilayer Decoupling Capacitor using Stacked Layers of BST and LNO. , 2019, , .		0
68	Quintuple Band Lambda/4 Stub by using Unbalanced Bridged CRLH Transmission Lines. , 2019, , .		0
69	Characterization of the Current Mechanisms and Improved Leakage Current in Silver Doped Barium Strontium Titanate. , 2019, , .		0
70	Emerging Nanotechnology for Strain Gauge Sensor. , 2016, , 435-472.		0
71	Demonstration of Substrate-Embedded Nonreciprocal Millimeter-Wave Circulators For System-In-Packaging. , 2022, , .		0
72	Compact frequency reconfigurable array antenna based on diagonally placed meander-line decouplers and PIN diodes for multi-range wireless communications. , 2022, , .		0