

Yong-Jin Yoon

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

3,873
citations

257450

24
h-index

128289

60
g-index

109
all docs

109
docs citations

109
times ranked

6818
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-stretchable and skin-mountable strain sensors using carbon nanotubes/Ecoflex nanocomposites. <i>Nanotechnology</i> , 2015, 26, 375501.	2.6	646
2	3D printed microfluidics for biological applications. <i>Lab on A Chip</i> , 2015, 15, 3627-3637.	6.0	574
3	Polymeric Biomaterials for Medical Implants and Devices. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 454-472.	5.2	524
4	Application of 3D printing technology for designing light-weight unmanned aerial vehicle wing structures. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2014, 1, 223-228.	4.9	199
5	Highly sensitive Mach-Zehnder interferometer biosensor based on silicon nitride slot waveguide. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 681-688.	7.8	196
6	3D Printed Polycaprolactone Carbon Nanotube Composite Scaffolds for Cardiac Tissue Engineering. <i>Macromolecular Bioscience</i> , 2017, 17, 1600250.	4.1	144
7	A review on 3D printed bioimplants. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 1035-1046.	2.2	135
8	Feed-Forward and Feed-Backward Amplification Model from Cochlear Cytoarchitecture: An Interspecies Comparison. <i>Biophysical Journal</i> , 2011, 100, 1-10.	0.5	127
9	Volatile chemical spoilage indexes of raw Atlantic salmon (<i>Salmo salar</i>) stored under aerobic condition in relation to microbiological and sensory shelf lives. <i>Food Microbiology</i> , 2016, 53, 182-191.	4.2	77
10	A circular membrane for nano thin film micro solid oxide fuel cells with enhanced mechanical stability. <i>Energy and Environmental Science</i> , 2015, 8, 3374-3380.	30.8	46
11	How the saline water intrusion has reshaped the agricultural landscape of the Vietnamese Mekong Delta, a review. <i>Science of the Total Environment</i> , 2021, 794, 148651.	8.0	45
12	Intracochlear pressure and derived quantities from a three-dimensional model. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 952-966.	1.1	43
13	Lowering the potential barrier of a bistable energy harvester with mechanically rectified motion of an auxiliary magnet oscillator. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	40
14	LoMA-B: a simple and versatile lab-on-a-chip system based on single-channel bisulfite conversion for DNA methylation analysis. <i>Lab on A Chip</i> , 2015, 15, 3530-3539.	6.0	38
15	Effect of Electrolyte Thickness on Electrochemical Reactions and Thermo-Fluidic Characteristics inside a SOFC Unit Cell. <i>Energies</i> , 2018, 11, 473.	3.1	38
16	Microfluidics biosensor chip with integrated screen-printed electrodes for amperometric detection of nerve agent. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 233-238.	7.8	37
17	Novel graphene/polyaniline/MnO ₂ 3D-hydrogels obtained by controlled morphology of MnO ₂ in the graphene/polyaniline matrix for high performance binder-free supercapacitor electrodes. <i>RSC Advances</i> , 2015, 5, 94388-94396.	3.6	36
18	Detection of volatile organic compounds as markers of chicken breast spoilage using HS-SPME-GC/MS-FASST. <i>Food Science and Biotechnology</i> , 2015, 24, 361-372.	2.6	35

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19	A study of piezoelectric harvesters for low-level vibrations in wireless sensor networks. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1257-1262.	2.2	32
20	Femtosecond-Laser-Based 3D Printing for Tissue Engineering and Cell Biology Applications. ACS Biomaterials Science and Engineering, 2017, 3, 2198-2214.	5.2	32
21	Label-free, PCR-free chip-based detection of telomerase activity in bladder cancer cells. Biosensors and Bioelectronics, 2013, 45, 152-157.	10.1	28
22	A continuous flow micro filtration device for plasma/blood separation using submicron vertical pillar gap structures. Journal of Micromechanics and Microengineering, 2014, 24, 087001.	2.6	27
23	3D printing as an efficient way for comparative study of biomimetic structures " trabecular bone and honeycomb. Journal of Mechanical Science and Technology, 2014, 28, 4635-4640.	1.5	26
24	Nonlinear dynamic analyses on a magnetopiezoelectric energy harvester with reversible hysteresis. Nonlinear Dynamics, 2016, 83, 1823-1854.	5.2	26
25	Identification and Quantification of Volatile Chemical Spoilage Indexes Associated with Bacterial Growth Dynamics in Aerobically Stored Chicken. Journal of Food Science, 2016, 81, M2006-14.	3.1	25
26	Molecular Dynamics Simulation of Oxygen Ion Diffusion in Yttria Stabilized Zirconia Single Crystals and Bicrystals. Fuel Cells, 2014, 14, 574-580.	2.4	24
27	Phase-dependent dynamic potential of magnetically coupled two-degree-of-freedom bistable energy harvester. Scientific Reports, 2016, 6, 34411.	3.3	24
28	A Novel Control Technique to Reduce the Effects of Torsional Interaction in Wind Turbine System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2090-2105.	5.4	24
29	Polyaniline-Coated Hollow Fe ₂ O ₃ Nanoellipsoids as an Anode Material for High-Performance Lithium-Ion Batteries. ChemElectroChem, 2015, 2, 503-507.	3.4	22
30	Silicon-based optoelectronic integrated circuit for label-free bio/chemical sensor. Optics Express, 2013, 21, 17931.	3.4	21
31	A novel checker-patterned AlN MEMS resonator as gravimetric sensor. Sensors and Actuators A: Physical, 2013, 189, 298-306.	4.1	19
32	Simulation of train induced forced wind draft for generating electrical power from Vertical Axis Wind Turbine (VAWT). International Journal of Precision Engineering and Manufacturing, 2012, 13, 1177-1181.	2.2	18
33	Analysis of oxide (Al ₂ O ₃ , CuO, and ZnO) and CNT nanoparticles disaggregation effect on the thermal conductivity and the viscosity of nanofluids. International Journal of Precision Engineering and Manufacturing, 2014, 15, 703-710.	2.2	18
34	Self-powered switch-controlled nucleic acid extraction system. Lab on A Chip, 2016, 16, 132-141.	6.0	18
35	Impact of Fine Particulate Matter on Visibility at Incheon International Airport, South Korea. Aerosol and Air Quality Research, 2020, , 1048-1061.	2.1	18
36	Intracochlear Pressure and Organ of Corti Impedance from a Linear Active Three-Dimensional Model. Orl, 2006, 68, 365-372.	1.1	17

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37	Micro-ultrasonic welding using thermoplastic-elastomeric composite film. Journal of Materials Processing Technology, 2016, 236, 183-188.	6.3	17
38	UV-LEDs for the Disinfection and Bio-Sensing Applications. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1901-1915.	2.2	17
39	Enhanced Broadband Performance of Magnetically Coupled 2-DOF Bistable Energy Harvester with Secondary Intrawell Resonances. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 521-530.	4.9	17
40	High sensitive dielectric filled Lamé mode mass sensor. Sensors and Actuators A: Physical, 2012, 188, 82-88.	4.1	16
41	A disposable lab-on-a-chip platform for highly efficient RNA isolation. Sensors and Actuators B: Chemical, 2018, 255, 1491-1499.	7.8	16
42	Mitigation of Resonance Vibration Effects in Marine Propulsion. IEEE Transactions on Industrial Electronics, 2019, 66, 6159-6169.	7.9	16
43	The Effect of Backpack Load Carriage on the Kinetics and Kinematics of Ankle and Knee Joints During Uphill Walking. Journal of Applied Biomechanics, 2017, 33, 397-405.	0.8	15
44	TiO ₂ Nanorods and Pt Nanoparticles under a UV-LED for an NO ₂ Gas Sensor at Room Temperature. Sensors, 2021, 21, 1826.	3.8	15
45	Service reliability improvement in manufacturing and operating systems. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1401-1406.	2.2	14
46	Nano-patterned dual-layer ITO electrode of high brightness blue light emitting diodes using maskless wet etching. Optics Express, 2013, 21, A970.	3.4	14
47	Halide-Assisted Synthesis of Different Fe ₂ O ₃ Hollow Structures and Their Lithium Storage Properties. ChemPlusChem, 2015, 80, 522-528.	2.8	14
48	Hygroscopic properties of particulate matter and effects of their interactions with weather on visibility. Scientific Reports, 2021, 11, 16401.	3.3	13
49	Rapid and label-free amplification and detection assay for genotyping of cancer biomarker. Biosensors and Bioelectronics, 2015, 68, 107-114.	10.1	12
50	Modeling and Control of Marine Diesel Generator System With Active Protection. IEEE Transactions on Transportation Electrification, 2018, 4, 249-271.	7.8	12
51	The kinematic/kinetic differences of the knee and ankle joint during single-leg landing between shod and barefoot condition. International Journal of Precision Engineering and Manufacturing, 2014, 15, 2193-2197.	2.2	11
52	Real-time precision pedestrian navigation solution using Inertial Navigation System and Global Positioning System. Advances in Mechanical Engineering, 2015, 7, 168781401456850.	1.6	11
53	Silicon nanowire-based ring-shaped tri-axial force sensor for smart integration on guidewire. Journal of Micromechanics and Microengineering, 2014, 24, 065002.	2.6	10
54	Low-cost, disposable microfluidics device for blood plasma extraction using continuously alternating paramagnetic and diamagnetic capture modes. Biomicrofluidics, 2016, 10, 024110.	2.4	10

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55	High performance fuzzy-Pad ^Å controllers: Introduction and comparison to fuzzy controllers. <i>Nonlinear Dynamics</i> , 2013, 71, 141-157.	5.2	9
56	Dynamic study of electromechanical interaction in marine propulsion. , 2016, , .		9
57	Fabrication of Plasmon-Active Polymer-Nanoparticle Composites for Biosensing Applications. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 945-954.	4.9	9
58	Sputtered Nanoporous PtNi Thin Film Cathodes with Improved Thermal Stability for Low Temperature Solid Oxide Fuel Cells. <i>Electrochimica Acta</i> , 2017, 247, 558-563.	5.2	8
59	A rotationally focused flow (RFF) microfluidic biosensor by density difference for early-stage detectable diagnosis. <i>Scientific Reports</i> , 2021, 11, 9277.	3.3	8
60	Continuously varied infill pattern (ConVIP): improvement of mechanical properties and printing speed of fused filament fabrication (FFF) 3D printing. <i>Journal of Materials Research and Technology</i> , 2022, 18, 1055-1069.	5.8	8
61	Harmonic balance analysis of magnetically coupled two-degree-of-freedom bistable energy harvesters. <i>Scientific Reports</i> , 2022, 12, 6221.	3.3	8
62	Biotin-Streptavidin Binding Interactions of Dielectric Filled Silicon Bulk Acoustic Resonators for Smart Label-Free Biochemical Sensor Applications. <i>Sensors</i> , 2014, 14, 4585-4598.	3.8	7
63	Nonlinear analysis of 2D flexible flapping wings. <i>Nonlinear Dynamics</i> , 2015, 81, 299-310.	5.2	7
64	Effects of basilar membrane arch and radial tension on the travelling wave in gerbil cochlea. <i>Hearing Research</i> , 2015, 327, 136-142.	2.0	7
65	Numerical Study on Electrochemical Performance of Low-Temperature Micro-Solid Oxide Fuel Cells with Submicron Platinum Electrodes. <i>Energies</i> , 2018, 11, 1204.	3.1	7
66	Inkjet-printed Ag@SDC core-shell nanoparticles as a high-performance cathode for low-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30853-30860.	7.1	7
67	Influence of dispersant concentration toward enhancing printing precision and surface quality of vat photopolymerization 3D printed ceramics. <i>Additive Manufacturing</i> , 2022, 52, 102659.	3.0	7
68	Piezoelectric MEMS resonant gas sensor for defence applications. , 2011, , .		6
69	Analysis and design of a high performance and low cost bio-mass sensor based on the radial contour mode disk resonator. <i>Microelectronic Engineering</i> , 2011, 88, 1730-1732.	2.4	6
70	Estimation of the free energy of hard-sphere crystals via a free-volume approach. <i>Molecular Simulation</i> , 2012, 38, 16-22.	2.0	6
71	Estimation of Singapore ^Å ™s hourly solar radiation using hybrid-Markov transition matrices method. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 323-327.	2.2	6
72	Machine learning-assisted optimization of TBBPA-bis-(2,3-dibromopropyl ether) extraction process from ABS polymer. <i>Chemosphere</i> , 2022, 287, 132128.	8.2	6

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73	Generalized metamaterials: Definitions and taxonomy. Journal of the Acoustical Society of America, 2016, 139, 3412-3418.	1.1	5
74	An optical MEMS accelerometer fabricated using double-sided deep reactive ion etching on silicon-on-insulator wafer. Journal of Micromechanics and Microengineering, 2017, 27, 067001.	2.6	5
75	Design optimization for an SOI MOEMS accelerometer. Microsystem Technologies, 2018, 24, 465-472.	2.0	5
76	Understanding Interdependencies between Mechanical Velocity and Electrical Voltage in Electromagnetic Micromixers. Micromachines, 2020, 11, 636.	2.9	5
77	Developing High Sensitivity Biomass Sensor Using Lamã© Mode Square Resonator. Advanced Materials Research, 0, 254, 46-49.	0.3	4
78	Simulation Based Design of Disk Resonator Biosensors Under Fabrication Uncertainty. Journal of Mechanical Design, Transactions of the ASME, 2012, 134, .	2.9	4
79	Dimers of human Î²-defensins and their interactions with the POPG membrane. Molecular Simulation, 2013, 39, 849-859.	2.0	4
80	Mechanical model of an arched basilar membrane in the gerbil cochlea. Hearing Research, 2017, 345, 1-9.	2.0	4
81	Modelling and Control to Mitigate Dynamic Effects of Unbalanced Masses in Wind Turbine Systems. , 2018, , .		4
82	Exploring the Formation of Exercise Habits with the Latent Growth Model. Perceptual and Motor Skills, 2019, 126, 843-861.	1.3	4
83	Load Resistance Optimization of a Magnetically Coupled Two-Degree-of-Freedom Bistable Energy Harvester Considering Third-Harmonic Distortion in Forced Oscillation. Sensors, 2021, 21, 2668.	3.8	4
84	A sensorized surgical needle with miniaturized MEMS tri-axial force sensor for robotic assisted minimally invasive surgery. , 2012, , .		3
85	Optimizing present power distribution system and novel renewable energy sources for Tamil Nadu in India using HOMER. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1695-1701.	2.2	3
86	Reduction of control signal overhead for electric vehicle charging operation in smart grid system. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 191-197.	4.9	3
87	An Acoustic Micromixer Using Low-Powered Voice Coil Actuation. Journal of Microelectromechanical Systems, 2018, 27, 171-178.	2.5	3
88	Mechanical Effects of Cochlear Implant on Acoustic Hearing. IEEE Transactions on Biomedical Engineering, 2019, 66, 1609-1617.	4.2	3
89	Printing of Woodpile Scaffold Using Fresnel Lens for Tissue Engineering. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 507-522.	4.9	3
90	Ultrasensitive dielectric filled Lamé mode biomass sensor. , 2011, , .		2

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91	Estimation of optimal insertion angle in a mammalian outer hair cell stereocilium. Journal of Biomechanics, 2012, 45, 1823-1827.	2.1	2
92	Intracochlear fluid pressure and cochlear input impedance from push-pull amplification model. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1689-1695.	2.2	2
93	On the freezing and structure of hard spheres under spherical confinement. Molecular Physics, 2013, 111, 3283-3288.	1.7	2
94	Empirical and biophysical estimations of human cochlea's psychophysical tuning curve sharpness. AIP Advances, 2016, 6, 015205.	1.3	2
95	Highly sensitive optical motion detector. , 2016, , .		2
96	Acoustic energy distribution in microfluidics chip via a secondary channel. Sensors and Actuators B: Chemical, 2017, 252, 359-366.	7.8	2
97	Direct Drive Propeller System Modelling and Active Protection. , 2018, , .		2
98	Mechanism of bone-conducted hearing: mathematical approach. Biomechanics and Modeling in Mechanobiology, 2018, 17, 1731-1740.	2.8	2
99	Two-Wavelength, Photo-Initiation and Photo-Inhibition Competing for Selective Photo-Patterning of Hydrogel Porous Microstructures. International Journal of Precision Engineering and Manufacturing, 2018, 19, 729-735.	2.2	2
100	Specific heat measurements of CNT nanofluids. International Journal of Nanotechnology, 2019, 16, 289.	0.2	2
101	Detection of thiocholine ions with cobalt phthalocyanine mediated screen printed electrode. International Journal of Precision Engineering and Manufacturing, 2014, 15, 2573-2579.	2.2	1
102	Human stapedial annular ligament mechanical and geometrical property analysis using a bi-layer tapered beam model. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1623-1630.	2.2	1
103	Threshold-Based Random Charging Scheme for Decentralized PEV Charging Operation in a Smart Grid. Sensors, 2017, 17, 39.	3.8	1
104	Optical and Electrical Properties of Multilayer Grid Electrodes for Highly Durable Transparent Conductive Electrodes. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 501-508.	4.9	1
105	Structural and Electrical Properties of Atomic Layer Deposited PtRu Bimetallic Alloy Thin Films. Coatings, 2022, 12, 101.	2.6	1
106	Enhancement of nanoelectronic sensor performance with microfluidic device. , 2013, , .		0
107	Computational efficiency of meshfree methods with local-coordinates algorithm. International Journal of Precision Engineering and Manufacturing, 2015, 16, 547-556.	2.2	0
108	Dynamic analysis of diesel generator set under cylinder deactivation. , 2017, , .		0

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109	Sensor placement analysis for torsional vibration suppression on marine electric propulsion. , 2017, , .		0