

Yong-Jin Yoon

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4256116/publications.pdf>

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	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
2	Machine learning-assisted optimization of TBBPA-bis-(2,3-dibromopropyl ether) extraction process from ABS polymer. Chemosphere, 2022, 287, 132128.	8.2	6
3	Structural and Electrical Properties of Atomic Layer Deposited PtRu Bimetallic Alloy Thin Films. Coatings, 2022, 12, 101.	2.6	1
4	Influence of dispersant concentration toward enhancing printing precision and surface quality of vat photopolymerization 3D printed ceramics. Additive Manufacturing, 2022, 52, 102659.	3.0	7
5	Continuously varied infill pattern (ConVIP): improvement of mechanical properties and printing speed of fused filament fabrication (FFF) 3D printing. Journal of Materials Research and Technology, 2022, 18, 1055-1069.	5.8	8
6	Harmonic balance analysis of magnetically coupled two-degree-of-freedom bistable energy harvesters. Scientific Reports, 2022, 12, 6221.	3.3	8
7	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
8	Fabrication of Plasmon-Active Polymer-Nanoparticle Composites for Biosensing Applications. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 945-954.	4.9	9
9	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
10	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
11	A rotationally focused flow (RFF) microfluidic biosensor by density difference for early-stage detectable diagnosis. Scientific Reports, 2021, 11, 9277.	3.3	8
12	Hygroscopic properties of particulate matter and effects of their interactions with weather on visibility. Scientific Reports, 2021, 11, 16401.	3.3	13
13	Inkjet-printed Ag@SDC core-shell nanoparticles as a high-performance cathode for low-temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2021, 46, 30853-30860.	7.1	7
14	How the saline water intrusion has reshaped the agricultural landscape of the Vietnamese Mekong Delta, a review. Science of the Total Environment, 2021, 794, 148651.	8.0	45
15	Understanding Interdependencies between Mechanical Velocity and Electrical Voltage in Electromagnetic Micromixers. Micromachines, 2020, 11, 636.	2.9	5
16	Impact of Fine Particulate Matter on Visibility at Incheon International Airport, South Korea. Aerosol and Air Quality Research, 2020, , 1048-1061.	2.1	18
17	Exploring the Formation of Exercise Habits with the Latent Growth Model. Perceptual and Motor Skills, 2019, 126, 843-861.	1.3	4
18	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

#	ARTICLE	IF	CITATIONS
19	Specific heat measurements of CNT nanofluids. International Journal of Nanotechnology, 2019, 16, 289.	0.2	2
20	Mechanical Effects of Cochlear Implant on Acoustic Hearing. IEEE Transactions on Biomedical Engineering, 2019, 66, 1609-1617.	4.2	3
21	Mitigation of Resonance Vibration Effects in Marine Propulsion. IEEE Transactions on Industrial Electronics, 2019, 66, 6159-6169.	7.9	16
22	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
23	Modeling and Control of Marine Diesel Generator System With Active Protection. IEEE Transactions on Transportation Electrification, 2018, 4, 249-271.	7.8	12
24	An Acoustic Micromixer Using Low-Powered Voice Coil Actuation. Journal of Microelectromechanical Systems, 2018, 27, 171-178.	2.5	3
25	Design optimization for an SOI MOEMS accelerometer. Microsystem Technologies, 2018, 24, 465-472.	2.0	5
26	A disposable lab-on-a-chip platform for highly efficient RNA isolation. Sensors and Actuators B: Chemical, 2018, 255, 1491-1499.	7.8	16
27	Direct Drive Propeller System Modelling and Active Protection. , 2018, , .		2
28	Modelling and Control to Mitigate Dynamic Effects of Unbalanced Masses in Wind Turbine Systems. , 2018, , .		4
29	UV-LEDs for the Disinfection and Bio-Sensing Applications. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1901-1915.	2.2	17
30	Mechanism of bone-conducted hearing: mathematical approach. Biomechanics and Modeling in Mechanobiology, 2018, 17, 1731-1740.	2.8	2
31	Numerical Study on Electrochemical Performance of Low-Temperature Micro-Solid Oxide Fuel Cells with Submicron Platinum Electrodes. Energies, 2018, 11, 1204.	3.1	7
32	Effect of Electrolyte Thickness on Electrochemical Reactions and Thermo-Fluidic Characteristics inside a SOFC Unit Cell. Energies, 2018, 11, 473.	3.1	38
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Mechanical model of an arched basilar membrane in the gerbil cochlea. <i>Hearing Research</i> , 2017, 345, 1-9.	2.0	4
38	Femtosecond-Laser-Based 3D Printing for Tissue Engineering and Cell Biology Applications. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2198-2214.	5.2	32
39	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
40	Acoustic energy distribution in microfluidics chip via a secondary channel. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 359-366.	7.8	2
41	3D Printed Polycaprolactone Carbon Nanotube Composite Scaffolds for Cardiac Tissue Engineering. <i>Macromolecular Bioscience</i> , 2017, 17, 1600250.	4.1	144
42	Dynamic analysis of diesel generator set under cylinder deactivation. , 2017, , .		0
43	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
44	Sensor placement analysis for torsional vibration suppression on marine electric propulsion. , 2017, , .		0
45	Threshold-Based Random Charging Scheme for Decentralized PEV Charging Operation in a Smart Grid. <i>Sensors</i> , 2017, 17, 39.	3.8	1
46	Empirical and biophysical estimations of human cochlea's psychophysical tuning curve sharpness. <i>AIP Advances</i> , 2016, 6, 015205.	1.3	2
47	Identification and Quantification of Volatile Chemical Spoilage Indexes Associated with Bacterial Growth Dynamics in Aerobically Stored Chicken. <i>Journal of Food Science</i> , 2016, 81, M2006-14.	3.1	25
48	Generalized metamaterials: Definitions and taxonomy. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 3412-3418.	1.1	5
49	Low-cost, disposable microfluidics device for blood plasma extraction using continuously alternating paramagnetic and diamagnetic capture modes. <i>Biomicrofluidics</i> , 2016, 10, 024110.	2.4	10
50	Highly sensitive optical motion detector. , 2016, , .		2
51	Phase-dependent dynamic potential of magnetically coupled two-degree-of-freedom bistable energy harvester. <i>Scientific Reports</i> , 2016, 6, 34411.	3.3	24
52	Dynamic study of electromechanical interaction in marine propulsion. , 2016, , .		9
53	Micro-ultrasonic welding using thermoplastic-elastomeric composite film. <i>Journal of Materials Processing Technology</i> , 2016, 236, 183-188.	6.3	17
54	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

#	ARTICLE	IF	CITATIONS
55	Polymeric Biomaterials for Medical Implants and Devices. ACS Biomaterials Science and Engineering, 2016, 2, 454-472.	5.2	524
56	Nonlinear dynamic analyses on a magnetopiezoelectric energy harvester with reversible hysteresis. Nonlinear Dynamics, 2016, 83, 1823-1854.	5.2	26
57	Self-powered switch-controlled nucleic acid extraction system. Lab on A Chip, 2016, 16, 132-141.	6.0	18
58	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
59	A review on 3D printed bioimplants. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1035-1046.	2.2	135
60	Computational efficiency of meshfree methods with local-coordinates algorithm. International Journal of Precision Engineering and Manufacturing, 2015, 16, 547-556.	2.2	0
61	Rapid and label-free amplification and detection assay for genotyping of cancer biomarker. Biosensors and Bioelectronics, 2015, 68, 107-114.	10.1	12
62	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
63	Detection of volatile organic compounds as markers of chicken breast spoilage using HS-SPME-GC/MS-FASST. Food Science and Biotechnology, 2015, 24, 361-372.	2.6	35
64	Nonlinear analysis of 2D flexible flapping wings. Nonlinear Dynamics, 2015, 81, 299-310.	5.2	7
65	LoMA-B: a simple and versatile lab-on-a-chip system based on single-channel bisulfite conversion for DNA methylation analysis. Lab on A Chip, 2015, 15, 3530-3539.	6.0	38
66	3D printed microfluidics for biological applications. Lab on A Chip, 2015, 15, 3627-3637.	6.0	574
67	A circular membrane for nano thin film micro solid oxide fuel cells with enhanced mechanical stability. Energy and Environmental Science, 2015, 8, 3374-3380.	30.8	46
68	Ultra-stretchable and skin-mountable strain sensors using carbon nanotubes-Ecoflex nanocomposites. Nanotechnology, 2015, 26, 375501.	2.6	646
69	Novel graphene/polyaniline/MnO _x 3D-hydrogels obtained by controlled morphology of MnO _x in the graphene/polyaniline matrix for high performance binder-free supercapacitor electrodes. RSC Advances, 2015, 5, 94388-94396.	3.6	36
70	Real-time precision pedestrian navigation solution using Inertial Navigation System and Global Positioning System. Advances in Mechanical Engineering, 2015, 7, 168781401456850.	1.6	11
71	Effects of basilar membrane arch and radial tension on the travelling wave in gerbil cochlea. Hearing Research, 2015, 327, 136-142.	2.0	7
72	Halide-Assisted Synthesis of Different Fe ₂ O ₃ Hollow Structures and Their Lithium-Ion Storage Properties. ChemPlusChem, 2015, 80, 522-528.	2.8	14

#	ARTICLE	IF	CITATIONS
73	Silicon nanowire-based ring-shaped tri-axial force sensor for smart integration on guidewire. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 065002.	2.6	10
74	The kinematic/kinetic differences of the knee and ankle joint during single-leg landing between shod and barefoot condition. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 2193-2197.	2.2	11
75	Detection of thiocholine ions with cobalt phthalocyanine mediated screen printed electrode. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 2573-2579.	2.2	1
76	3D printing as an efficient way for comparative study of biomimetic structures " trabecular bone and honeycomb. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 4635-4640.	1.5	26
77	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
78	Analysis of oxide (Al ₂ O ₃ , CuO, and ZnO) and CNT nanoparticles disaggregation effect on the thermal conductivity and the viscosity of nanofluids. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 703-710.	2.2	18
79	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
80	Optimizing present power distribution system and novel renewable energy sources for Tamil Nadu in India using HOMER. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 1695-1701.	2.2	3
81	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
82	A continuous flow micro filtration device for plasma/blood separation using submicron vertical pillar gap structures. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 087001.	2.6	27
83	Molecular Dynamics Simulation of Oxygen Ion Diffusion in Yttria Stabilized Zirconia Single Crystals and Bicrystals. <i>Fuel Cells</i> , 2014, 14, 574-580.	2.4	24
84	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
85	A study of piezoelectric harvesters for low-level vibrations in wireless sensor networks. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1257-1262.	2.2	32
86	Label-free, PCR-free chip-based detection of telomerase activity in bladder cancer cells. <i>Biosensors and Bioelectronics</i> , 2013, 45, 152-157.	10.1	28
87	A novel checker-patterned AlN MEMS resonator as gravimetric sensor. <i>Sensors and Actuators A: Physical</i> , 2013, 189, 298-306.	4.1	19
88	High performance fuzzy-Pad� controllers: Introduction and comparison to fuzzy controllers. <i>Nonlinear Dynamics</i> , 2013, 71, 141-157.	5.2	9
89	Estimation of Singapore'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
90	On the freezing and structure of hard spheres under spherical confinement. <i>Molecular Physics</i> , 2013, 111, 3283-3288.	1.7	2

#	ARTICLE	IF	CITATIONS
91	Dimers of human β -defensins and their interactions with the POPG membrane. <i>Molecular Simulation</i> , 2013, 39, 849-859.	2.0	4
92	Service reliability improvement in manufacturing and operating systems. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1401-1406.	2.2	14
93	Nano-patterned dual-layer ITO electrode of high brightness blue light emitting diodes using maskless wet etching. <i>Optics Express</i> , 2013, 21, A970.	3.4	14
94	Silicon-based optoelectronic integrated circuit for label-free bio/chemical sensor. <i>Optics Express</i> , 2013, 21, 17931.	3.4	21
95	Enhancement of nanoelectronic sensor performance with microfluidic device. , 2013, , .		0
96	Simulation Based Design of Disk Resonator Biosensors Under Fabrication Uncertainty. <i>Journal of Mechanical Design</i> , <i>Transactions of the ASME</i> , 2012, 134, .	2.9	4
97	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
98	A sensorized surgical needle with miniaturized MEMS tri-axial force sensor for robotic assisted minimally invasive surgery. , 2012, , .		3
99	Estimation of optimal insertion angle in a mammalian outer hair cell stereocilium. <i>Journal of Biomechanics</i> , 2012, 45, 1823-1827.	2.1	2
100	High sensitive dielectric filled Lam \AA mode mass sensor. <i>Sensors and Actuators A: Physical</i> , 2012, 188, 82-88.	4.1	16
101	Intracochlear fluid pressure and cochlear input impedance from push-pull amplification model. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012, 13, 1689-1695.	2.2	2
102	Simulation of train induced forced wind draft for generating electrical power from Vertical Axis Wind Turbine (VAWT). <i>International Journal of Precision Engineering and Manufacturing</i> , 2012, 13, 1177-1181.	2.2	18
103	Piezoelectric MEMS resonant gas sensor for defence applications. , 2011, , .		6
104	Feed-Forward and Feed-Backward Amplification Model from Cochlear Cytoarchitecture: An Interspecies Comparison. <i>Biophysical Journal</i> , 2011, 100, 1-10.	0.5	127
105	Ultrasensitive dielectric filled Lam \AA mode biomass sensor. , 2011, , .		2
106	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
107	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
108	Intracochlear Pressure and Organ of Corti Impedance from a Linear Active Three-Dimensional Model. <i>Orl</i> , 2006, 68, 365-372.	1.1	17

#	ARTICLE	IF	CITATIONS
109	Developing High Sensitivity Biomass Sensor Using Lamã© Mode Square Resonator. Advanced Materials Research, 0, 254, 46-49.	0.3	4