

# Seong Ho Kong

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

405  
citations

840776

11  
h-index

839539

18  
g-index

62  
all docs

62  
docs citations

62  
times ranked

432  
citing authors

#	ARTICLE	IF	CITATIONS
1	An optimized MEMS-based electrolytic tilt sensor. <i>Sensors and Actuators A: Physical</i> , 2007, 139, 23-30.	4.1	56
2	A Lab-on-a-Chip-Based Non-Invasive Optical Sensor for Measuring Glucose in Saliva. <i>Sensors</i> , 2017, 17, 2607.	3.8	45
3	Dielectrically stabilized electrowetting on AF1600/Si3N4/TiO2 dielectric composite film. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1593-1598.	7.8	32
4	Variable-focus Liquid Lens Based on a Laterally-integrated Thermopneumatic Actuator. <i>Journal of the Optical Society of Korea</i> , 2012, 16, 22-28.	0.6	22
5	PEI-Functionalized Carbon Nanotube Thin Film Sensor for CO2 Gas Detection at Room Temperature. <i>Micromachines</i> , 2021, 12, 1053.	2.9	17
6	Design and Fabrication of a Micro Electro Mechanical Systems-Based Electrolytic Tilt Sensor. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 5626-5630.	1.5	15
7	Micro-Electro-Mechanical-Systems-Based Infrared Spectrometer Composed of Multi-Slit Grating and Bolometer Array. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 6943-6948.	1.5	13
8	Fabrication and Characteristics of Micro-Electro-Mechanical-System-Based Tilt Sensor. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 06FG05.	1.5	12
9	Design and fabrication of PMMA-micromachined fluid lens based on electromagnetic actuation on PMMA-PDMS bonded membrane. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 115028.	2.6	12
10	Wide-bandgap CuGaSe 2 thin film solar cell fabrication using ITO back contacts. <i>Vacuum</i> , 2015, 120, 42-46.	3.5	12
11	Hermetic sealing of liquid using Laplace pressure disparity induced by heterogeneous surface energy. <i>Sensors and Actuators A: Physical</i> , 2011, 169, 333-340.	4.1	11
12	Spectral Performance of a Micromachined Infrared Spectrum Analyzer in Silicon. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2005, 54, 264-267.	4.7	9
13	Sensitivity and Frequency-Response Improvement of a Thermal Convection-Based Accelerometer. <i>Sensors</i> , 2017, 17, 1765.	3.8	9
14	Lab-on-a-chip based total-phosphorus analysis device utilizing a photocatalytic reaction. <i>Solid-State Electronics</i> , 2018, 140, 100-108.	1.4	9
15	Performance Analysis of a Convection-Based Tilt Sensor. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 06GN15.	1.5	8
16	A MEMS tilt sensor with expanded operating range and improved sensitivity. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 06JM12.	1.5	8
17	PDMS-based two-axis inclinometer with a 360-degree measuring range. <i>Sensors and Actuators A: Physical</i> , 2016, 239, 54-60.	4.1	8
18	Durability Enhancement of a Microelectromechanical System-Based Liquid Droplet Lens. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 06GN11.	1.5	7

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19	Large-stroke convex micromirror actuated by electromagnetic force for optical power control. Optics Express, 2015, 23, 28358.	3.4	7
20	Die-Attach Structure of Silicon-on-Glass MEMS Devices Considering Asymmetric Packaging Stress and Thermal Stress. Sensors, 2019, 19, 3979.	3.8	7
21	Pd-Decorated Multi-Walled Carbon Nanotube Sensor for Hydrogen Detection. Journal of Nanoscience and Nanotechnology, 2021, 21, 3707-3710.	0.9	7
22	High Sensitivity Shortwave Infrared Photodetector Based on PbS QDs Using P3HT. Nanomaterials, 2021, 11, 2683.	4.1	7
23	All-Polymer Electrolytic Tilt Sensor with Conductive Poly(dimethylsiloxane) Electrodes. Japanese Journal of Applied Physics, 2013, 52, 06GL01.	1.5	5
24	Design and fabrication of a MEMS-based electrolytic tilt sensor. , 2005, , .		4
25	A MEMS-Based Electrolytic Tilt Sensor. , 2006, , .		4
26	Dependence of dielectric layer and electrolyte on the driving performance of electrowetting-based liquid lens. Journal of Information Display, 2010, 11, 84-90.	4.0	4
27	Study on the thickness effect of wide-bandgap CuGaSe <sub>2</sub> thin films for applications with tandem solar cells. Journal of the Korean Physical Society, 2016, 69, 197-201.	0.7	4
28	Tunable Fabry-Perot Interferometer Designed for Far-Infrared Wavelength by Utilizing Electromagnetic Force. Sensors, 2018, 18, 2572.	3.8	4
29	Electrowetting Lens Employing Hemispherical Cavity Formed by Hydrofluoric Acid, Nitric Acid, and Acetic Acid Etching of Silicon. Japanese Journal of Applied Physics, 2012, 51, 06FL05.	1.5	4
30	Miniaturized Dual-Axis Electrolytic Tilt Sensor. Japanese Journal of Applied Physics, 2012, 51, 06FL13.	1.5	4
31	Multi-axis Response of a Thermal Convection-based Accelerometer. Micromachines, 2018, 9, 329.	2.9	3
32	Characterization of Total-Phosphorus (TP) Pretreatment Microfluidic Chip Based on a Thermally Enhanced Photocatalyst for Portable Analysis of Eutrophication. Sensors, 2019, 19, 3452.	3.8	3
33	Immobilization of Pt nanoparticles on hydrolyzed polyacrylonitrile-based nanofiber paper. Scientific Reports, 2021, 11, 11501.	3.3	3
34	Design and performance study of fabry-perot filter based on DBR for a non-dispersive infrared carbon dioxide sensor. Journal of Sensor Science and Technology, 2021, 30, 250-254.	0.2	3
35	Convection-Based Tilt Sensor with Minimized Temperature Fluctuation. Japanese Journal of Applied Physics, 2011, 50, 06GM13.	1.5	2
36	Infrared Detector Array with an Incident-Ray Concentrator. Japanese Journal of Applied Physics, 2013, 52, 06GL12.	1.5	2

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37	Efficiency improvement of a-Si:H Thin-Film Solar Cells by phosphorus doping of absorption layer with a-Si:H buffer layer at p/i interface. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 676, 131-140.	0.9	2
38	Effect of heater geometry and cavity volume on the sensitivity of a thermal convection-based tilt sensor. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 06HJ01.	1.5	2
39	Focus-tunable micro-reflective lens: Design and fabrication feasibility with deformable micromirror. <i>Solid-State Electronics</i> , 2019, 161, 107633.	1.4	2
40	Si/SiO <sub>2</sub> Multilayer-based Fabry-Pérot Filter for 4.26 $\mu$ m Filtering in Carbon Dioxide Detection. <i>Journal of Sensor Science and Technology</i> , 2021, 30, 56-60.	0.2	2
41	Miniaturized Portable Total Phosphorus Analysis Device Based on Photocatalytic Reaction for the Prevention of Eutrophication. <i>Micromachines</i> , 2021, 12, 1062.	2.9	2
42	Convection-Based Tilt Sensor with Minimized Temperature Fluctuation. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 06GM13.	1.5	2
43	N <sup>+</sup> shallow junction formation using plasma doping and rapid thermal annealing. , 2007, , .		1
44	Sensitivity improvement of MEMS-based tilt sensor using air medium. , 2009, , .		1
45	Fabrication and performance analysis of an amorphous silicon-based thermal IR detector. , 2010, , .		1
46	Optical sensing of solvents using selective tensile effects of a PDMS-coated Fiber Bragg Grating. , 2010, , .		1
47	Electrolytic Tilt Sensor with Domed Cap for Improved Performance. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 06GL13.	1.5	1
48	A Fabry-Pérot interferometer-based long-wavelength infrared spectrometer utilizing a novel PDMS patterning technique. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 06FP09.	1.5	1
49	Electromagnetically controlled convex micromirror for focal length variation. , 2015, , .		1
50	Fabrication of a MEMS based symmetrically deformable convex mirror. , 2017, , .		1
51	Suppression of Parasitic Epitaxy Growth and Realization of High-Quality Wafer Surface Passivation of Silicon Heterojunction Solar Cells. <i>Journal of the Korean Physical Society</i> , 2020, 76, 442-446.	0.7	1
52	A Study on TiO <sub>2</sub> Surface Texturing Effect for the Enhancement of Photocatalytic Reaction in a Total Phosphorous Concentration Measurement System. <i>Micromachines</i> , 2021, 12, 1163.	2.9	1
53	The Improvement of Performance through Minimizing Scallop Size in MEMS Based Micro Wind Turbine. <i>Micromachines</i> , 2021, 12, 1261.	2.9	1
54	Integration of CMOS process-compatible DNA-FET/REFET/QRE for the detection of DNA sequence. , 2004, , .		0

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55	Design and fabrication of an IC compatible on-chip thermoelectric cooler. , 2004, , .		0
56	Shallow n <sup>+</sup> /p Junction Formation using PH <sub>3</sub> Plasma Doping Technique. , 2007, , .		0
57	Effect of Se flux on CuGaSe <sub>2</sub> absorbers deposited on ITO-coated SLG substrates by using a three-stage co-evaporation process. Journal of the Korean Physical Society, 2016, 69, 1553-1557.	0.7	0
58	LED with a Zener Chip coated with a highly reflective material. Molecular Crystals and Liquid Crystals, 2018, 676, 114-122.	0.9	0
59	Effects of current density and time on the characteristics of P-type silicon nano array. Molecular Crystals and Liquid Crystals, 2018, 676, 123-130.	0.9	0
60	Easy-to-Fabricate K <sub>2</sub> Pd(SO <sub>3</sub> ) <sub>2</sub> -Dyed Polyester Fabric with Highly Selective and Fast Response to Carbon Monoxide. Journal of Nanoscience and Nanotechnology, 2021, 21, 4400-4405.	0.9	0
61	Sensing characteristics of a non-dispersive infrared CO <sub>2</sub> sensor using a Fabry-Perot filter based on distributed Bragg reflector. Journal of Sensor Science and Technology, 2021, 30, 446-450.	0.2	0