Seong Ho Kong

List of Publications by Year
in descending order

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61	405	840776 11	839539 18
papers	citations	h-index	g-index

62	62	62	432
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Si/SiO2 Multilayer-based Fabryâ€“Perot Filter for 4.26 Î¼m Filtering in Carbon Dioxide Detection. Journal of Sensor Science and Technology, 2021, 30, 56-60.	0.2	2
2	Immobilization of Pt nanoparticles on hydrolyzed polyacrylonitrile-based nanofiber paper. Scientific Reports, 2021, 11, 11501.	3.3	3
3	Pd-Decorated Multi-Walled Carbon Nanotube Sensor for Hydrogen Detection. Journal of Nanoscience and Nanotechnology, 2021, 21, 3707-3710.	0.9	7
4	Design and performance study of fabryâ€“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
5	PEI-Functionalized Carbon Nanotube Thin Film Sensor for CO2 Gas Detection at Room Temperature. Micromachines, 2021, 12, 1053.	2.9	17
6	Easy-to-Fabricate K2Pd(SO3)2-Dyed Polyester Fabric with Highly Selective and Fast Response to Carbon Monoxide. Journal of Nanoscience and Nanotechnology, 2021, 21, 4400-4405.	0.9	0
7	Miniaturized Portable Total Phosphorus Analysis Device Based on Photocatalytic Reaction for the Prevention of Eutrophication. Micromachines, 2021, 12, 1062.	2.9	2
8	A Study on TiO2 Surface Texturing Effect for the Enhancement of Photocatalytic Reaction in a Total Phosphorous Concentration Measurement System. Micromachines, 2021, 12, 1163.	2.9	1
9	High Sensitivity Shortwave Infrared Photodetector Based on PbS QDs Using P3HT. Nanomaterials, 2021, 11, 2683.	4.1	7
10	The Improvement of Performance through Minimizing Scallop Size in MEMS Based Micro Wind Turbine. Micromachines, 2021, 12, 1261.	2.9	1
11	Sensing characteristics of a non-dispersive infrared CO2 sensor using a Fabry-Perot filter based on distributed Bragg reflector. Journal of Sensor Science and Technology, 2021, 30, 446-450.	0.2	0
12	Suppression of Parasitic Epitaxy Growth and Realization of High-Quality Wafer Surface Passivation of Silicon Heterojunction Solar Cells. Journal of the Korean Physical Society, 2020, 76, 442-446.	0.7	1
13	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
14	Focus-tunable micro-reflective lens: Design and fabrication feasibility with deformable micromirror. Solid-State Electronics, 2019, 161, 107633.	1.4	2
15	Die-Attach Structure of Silicon-on-Glass MEMS Devices Considering Asymmetric Packaging Stress and Thermal Stress. Sensors, 2019, 19, 3979.	3.8	7
16	Lab-on-a-chip based total-phosphorus analysis device utilizing a photocatalytic reaction. Solid-State Electronics, 2018, 140, 100-108.	1.4	9
17	LED with a Zener Chip coated with a highly reflective material. Molecular Crystals and Liquid Crystals, 2018, 676, 114-122.	0.9	0
18	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

#	Article	IF	Citations
19	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. Molecular Crystals and Liquid Crystals, 2018, 676, 131-140.	0.9	2
20	Tunable Fabry-Perot Interferometer Designed for Far-Infrared Wavelength by Utilizing Electromagnetic Force. Sensors, 2018, 18, 2572.	3.8	4
21	Multi-axis Response of a Thermal Convection-based Accelerometer. Micromachines, 2018, 9, 329.	2.9	3
22	Effect of heater geometry and cavity volume on the sensitivity of a thermal convection-based tilt sensor. Japanese Journal of Applied Physics, 2018, 57, 06HJ01.	1.5	2
23	Fabrication of a MEMS based symmetrically deformarle convex mirror. , 2017, , .		1
24	Sensitivity and Frequency-Response Improvement of a Thermal Convectionâ€“Based Accelerometer. Sensors, 2017, 17, 1765.	3.8	9
25	A Lab-on-a-Chip-Based Non-Invasive Optical Sensor for Measuring Glucose in Saliva. Sensors, 2017, 17, 2607.	3.8	45
26	Effect of Se flux on CuGaSe2 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
27	PDMS-based two-axis inclinometer with a 360-degree measuring range. Sensors and Actuators A: Physical, 2016, 239, 54-60.	4.1	8
28	Study on the thickness effect of wide-bandgap CuGaSe2 thin films for applications with tandem solar cells. Journal of the Korean Physical Society, 2016, 69, 197-201.	0.7	4
29	Large-stroke convex micromirror actuated by electromagnetic force for optical power control. Optics Express, 2015, 23, 28358.	3.4	7
30	A Fabryâ€“Perot interferometer-based long-wavelength infrared spectrometer utilizing a novel PDMS patterning technique. Japanese Journal of Applied Physics, 2015, 54, 06FP09.	1.5	1
31	Electromagnetically controlled convex micromirror for focal length variation. , 2015, , .		1
32	Wide-bandgap CuGaSe 2 thin film solar cell fabrication using ITO back contacts. Vacuum, 2015, 120, 42-46.	3.5	12
33	A MEMS tilt sensor with expanded operating range and improved sensitivity. Japanese Journal of Applied Physics, 2014, 53, 06JM12.	1.5	8
34	All-Polymer Electrolytic Tilt Sensor with Conductive Poly(dimethylsiloxane) Electrodes. Japanese Journal of Applied Physics, 2013, 52, 06GL01.	1.5	5
35	Electrolytic Tilt Sensor with Domed Cap for Improved Performance. Japanese Journal of Applied Physics, 2013, 52, 06GL13.	1.5	1
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	Design and fabrication of PMMA-micromachined fluid lens based on electromagnetic actuation on PMMAâ€“PDMS bonded membrane. Journal of Micromechanics and Microengineering, 2012, 22, 115028.	2.6	12
38	Variable-focus Liquid Lens Based on a Laterally-integrated Thermopneumatic Actuator. Journal of the Optical Society of Korea, 2012, 16, 22-28.	0.6	22
39	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
40	Miniaturized Dual-Axis Electrolytic Tilt Sensor. Japanese Journal of Applied Physics, 2012, 51, 06FL13.	1.5	4
41	Hermetic sealing of liquid using Laplace pressure disparity induced by heterogeneous surface energy. Sensors and Actuators A: Physical, 2011, 169, 333-340.	4.1	11
42	Dielectrically stabilized electrowetting on AF1600/Si3N4/TiO2 dielectric composite film. Sensors and Actuators B: Chemical, 2011, 160, 1593-1598.	7.8	32
43	Convection-Based Tilt Sensor with Minimized Temperature Fluctuation. Japanese Journal of Applied Physics, 2011, 50, 06GM13.	1.5	2
44	Convection-Based Tilt Sensor with Minimized Temperature Fluctuation. Japanese Journal of Applied Physics, 2011, 50, 06GM13.	1.5	2
45	Dependence of dielectric layer and electrolyte on the driving performance of electrowettingâ€based liquid lens. Journal of Information Display, 2010, 11, 84-90.	4.0	4
46	Fabrication and performance analysis of an amorphous silicon-based thermal IR detector. , 2010, , .		1
47	Durability Enhancement of a Microelectromechanical System-Based Liquid Droplet Lens. Japanese Journal of Applied Physics, 2010, 49, 06GN11.	1.5	7
48	Performance Analysis of a Convection-Based Tilt Sensor. Japanese Journal of Applied Physics, 2010, 49, 06GN15.	1.5	8
49	Optical sensing of solvents using selective tensile effects of a PDMS-coated Fiber Bragg Grating. , 2010, , .		1
50	Sensitivity improvement of MEMS-based tilt sensor using air medium. , 2009, , .		1
51	Fabrication and Characteristics of Micro-Electro-Mechanical-System-Based Tilt Sensor. Japanese Journal of Applied Physics, 2009, 48, 06FG05.	1.5	12
52	Micro-Electro-Mechanical-Systems-Based Infrared Spectrometer Composed of Multi-Slit Grating and Bolometer Array. Japanese Journal of Applied Physics, 2008, 47, 6943-6948.	1.5	13
53	N<inf>+</inf>shallow junction formation using plasma doping and rapid thermal annealing. , 2007, , .		1
54	Shallow n⁺/p Junction Formation using PH₃ Plasma Doping Technique. , 2007, , .		0

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55	An optimized MEMS-based electrolytic tilt sensor. Sensors and Actuators A: Physical, 2007, 139, 23-30.	4.1	56
56	A MEMS-Based Electrolytic Tilt Sensor. , 2006, , .		4
57	Design and Fabrication of a Micro Electro Mechanical Systems-Based Electrolytic Tilt Sensor. Japanese Journal of Applied Physics, 2006, 45, 5626-5630.	1.5	15
58	Spectral Performance of a Micromachined Infrared Spectrum Analyzer in Silicon. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 264-267.	4.7	9
59	Design and fabrication of a MEMS-based electrolytic tilt sensor. , 2005, , .		4
60	Integration of CMOS process-compatible DNA-FET/REFET/QRE for the detection of DNA sequence. , 2004, , .		0
61	Design and fabrication of an IC compatible on-chip thermoelectric cooler. , 2004, , .		0