Sungkyu Seo

List of Publications by Year in descending order

48 papers	2,012 citations	430442 18 h-index	344852 36 g-index
49 all docs	49 docs citations	49 times ranked	2195 citing authors

#	Article	IF	Citations
1	Quantum dot photolithography using a quantum dot photoresist composed of an organicâ€“inorganic hybrid coating layer. Nanoscale Advances, 2022, 4, 1080-1087.	2.2	20
2	Field-Portable Leukocyte Classification Device Based on Lens-Free Shadow Imaging Technique. Biosensors, 2022, 12, 47.	2.3	8
3	A CMOS Image Sensor Based Refractometer without Spectrometry. Sensors, 2022, 22, 1209.	2.1	2
4	Machine Learning Based Lens-Free Shadow Imaging Technique for Field-Portable Cytometry. Biosensors, 2022, 12, 144.	2.3	4
5	Detection of Particulate Matters with a Field-Portable Microscope Using Side-Illuminated Total Internal Reflection. Sensors, 2021, 21, 2745.	2.1	2
6	Rapid eco-toxicity analysis of hazardous and noxious substances (HNS) using morphological change detection in Dunaliella tertiolecta. Algal Research, 2020, 51, 102063.	2.4	2
7	An Optimized Neural Network Architecture for Auto Characterization of Biological Cells in Digital Inline Holography Micrographs. , 2020, , .		0
8	Smartphone compatible on-site fluorescence analyzer for spilled crude oil based on CMOS image sensor. Sensors and Actuators B: Chemical, 2019, 289, 93-99.	4.0	13
9	Lensless digital holographic microscopy and its applications in biomedicine and environmental monitoring. Methods, 2018, 136, 4-16.	1.9	142
10	A Field-Portable Cell Analyzer without a Microscope and Reagents. Sensors, 2018, 18, 85.	2.1	12
11	Flexible heartbeat sensor for wearable device. Biosensors and Bioelectronics, 2017, 94, 250-255.	5.3	117
12	A review of recent progress in lens-free imaging and sensing. Biosensors and Bioelectronics, 2017, 88, 130-143.	5.3	54
13	Automated Micro-Object Detection for Mobile Diagnostics Using Lens-Free Imaging Technology. Diagnostics, 2016, 6, 17.	1.3	7
14	A Human Serum-Based Enzyme-Free Continuous Glucose Monitoring Technique Using a Needle-Type Bio-Layer Interference Sensor. Sensors, 2016, 16, 1581.	2.1	6
15	Analytical Model of the Parasitic Bipolar Junction Transistor in Low-Doped Double-Gate FinFETs for Pass-Gate Circuits. IEEE Transactions on Electron Devices, 2016, 63, 3864-3868.	1.6	4
16	Staining-free cell viability measurement technique using lens-free shadow imaging platform. Sensors and Actuators B: Chemical, 2016, 224, 577-583.	4.0	19
17	Capillary Flow in PDMS Cylindrical Microfluidic Channel Using 3-D Printed Mold. Journal of Microelectromechanical Systems, 2016, 25, 238-240.	1.7	15
18	Real-time Micro-algae Flocculation Analysis Method Based on Lens-free Shadow Imaging Technique (LSIT). Journal of the Korean Society for Marine Environment & Energy, 2016, 19, 341-348.	0.1	0

#	Article	IF	Citations
19	A flexible strain-gauge sensor for flexible input devices. , 2015, , .		0
20	High-throughput and real-time microalgae monitoring platform using lens-free shadow imaging system (LSIS). , 2015, , .		0
21	Comparison of two types of tactile sensing layer in touch screen panel for force sensitive detection. , 2015, , .		0
22	Lens-free automated cell detection system for telemedicine application. , 2015, , .		0
23	Low-cost telemedicine device performing cell and particle size measurement based on lens-free shadow imaging technology. Biosensors and Bioelectronics, 2015, 67, 715-723.	5.3	40
24	Smartphone based automated microparticle analysis system. , 2015, , .		1
25	Oil Fluorescence Spectrum Analysis for the Design of Fluorimeter. Journal of the Korean Society for Marine Environment & Energy, 2015, 18, 304-309.	0.1	5
26	Underwater multispectral imaging system for environmental monitoring. , 2014, , .		1
27	High-throughput diatom counting method based on lens-free shadow image analysis. Sensors and Actuators B: Chemical, 2014, 193, 864-868.	4.0	1
28	A simple and low-cost biofilm quantification method using LED and CMOS image sensor. Journal of Microbiological Methods, 2014, 107, 150-156.	0.7	25
29	A simple and low-cost device performing blood cell counting based on lens-free shadow imaging technique. Sensors and Actuators B: Chemical, 2014, 201, 321-328.	4.0	61
30	CMOS image sensor-based ELISA detector using lens-free shadow imaging platform. Sensors and Actuators B: Chemical, 2014, 196, 511-517.	4.0	27
31	An automated cell detection algorithm for lensfree shadow imaging platform. , 2013, , .		0
32	Influence of Ionizing Radiation on Short-Channel Effects in Low-Doped Multi-Gate MOSFETs. IEEE Transactions on Nuclear Science, 2012, 59, 3021-3026.	1.2	11
33	Shadow image based high-throughput continuous cell monitoring for point-of-care and telemedicine applications. , 2012, , .		0
34	Lens-free shadow image based high-throughput continuous cell monitoring technique. Biosensors and Bioelectronics, 2012, 38, 126-131.	5.3	46
35	Flexible glucose sensor using CVD-grown graphene-based field effect transistor. Biosensors and Bioelectronics, 2012, 37, 82-87.	5.3	247
36	A birefringent waveguide biosensor platform for label-free live cell detection of Listeria monocytogenes. Sensors and Actuators B: Chemical, 2012, 173, 752-759.	4.0	8

#	Article	IF	Citations
37	Virtual drop test methodology for a MEMS-based sensor. Electronic Materials Letters, 2011, 7, 109-113.	1.0	3
38	LED and CMOS image sensor based hemoglobin concentration measurement technique. Sensors and Actuators B: Chemical, 2011, 157, 103-109.	4.0	27
39	Compact, light-weight and cost-effective microscope based on lensless incoherent holography for telemedicine applications. Lab on A Chip, 2010, 10, 1417.	3.1	420
40	High-Throughput Lens-Free Blood Analysis on a Chip. Analytical Chemistry, 2010, 82, 4621-4627.	3.2	127
41	Lensfree Holographic Imaging of Antibody Microarrays for High-Throughput Detection of Leukocyte Numbers and Function. Analytical Chemistry, 2010, 82, 3736-3744.	3.2	88
42	Highâ€throughput lensfree imaging and characterization of a heterogeneous cell solution on a chip. Biotechnology and Bioengineering, 2009, 102, 856-868.	1.7	78
43	Lensfree cell holography on a chip: From holographic cell signatures to microscopic reconstruction. , 2009, , .		4
44	Lensfree holographic imaging for on-chip cytometry and diagnostics. Lab on A Chip, 2009, 9, 777-787.	3.1	226
45	Lensless On-chip Imaging of Cells Provides a New Tool for High-throughput Cell-Biology and Medical Diagnostics. Journal of Visualized Experiments, 2009, , .	0.2	18
46	Multi-color LUCAS: Lensfree On-chip Cytometry Using Tunable Monochromatic Illumination and Digital Noise Reduction. Cellular and Molecular Bioengineering, 2008, 1, 146-156.	1.0	49
47	Patterning a nanowell sensor biochip for specific and rapid detection of bacteria. Microelectronic Engineering, 2008, 85, 1484-1489.	1.1	32
48	Towards Wireless Health: Lensless On-Chip Cytometry. Optics and Photonics News, 2008, 19, 24.	0.4	36