# Sungkyu Seo

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1432609/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 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 | 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 |
| 2 | Flexible glucose sensor using CVD-grown graphene-based field effect transistor. Biosensors and Bioelectronics, 2012, 37, 82-87. | 5.3 | 247 |
| 3 | Lensfree holographic imaging for on-chip cytometry and diagnostics. Lab on A Chip, 2009, 9, 777-787. | 3.1 | 226 |
| 4 | Lensless digital holographic microscopy and its applications in biomedicine and environmental monitoring. Methods, 2018, 136, 4-16. | 1.9 | 142 |
| 5 | High-Throughput Lens-Free Blood Analysis on a Chip. Analytical Chemistry, 2010, 82, 4621-4627. | 3.2 | 127 |
| 6 | Flexible heartbeat sensor for wearable device. Biosensors and Bioelectronics, 2017, 94, 250-255. | 5.3 | 117 |
| 7 | Lensfree Holographic Imaging of Antibody Microarrays for High-Throughput Detection of Leukocyte Numbers and Function. Analytical Chemistry, 2010, 82, 3736-3744. | 3.2 | 88 |
| 8 | Highâ€throughput lensfree imaging and characterization of a heterogeneous cell solution on a chip. Biotechnology and Bioengineering, 2009, 102, 856-868. | 1.7 | 78 |
| 9 | 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 |
| 10 | A review of recent progress in lens-free imaging and sensing. Biosensors and Bioelectronics, 2017, 88, 130-143. | 5.3 | 54 |
| 11 | 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 |
| 12 | Lens-free shadow image based high-throughput continuous cell monitoring technique. Biosensors and Bioelectronics, 2012, 38, 126-131. | 5.3 | 46 |
| 13 | 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 |
| 14 | Towards Wireless Health: Lensless On-Chip Cytometry. Optics and Photonics News, 2008, 19, 24. | 0.4 | 36 |
| 15 | Patterning a nanowell sensor biochip for specific and rapid detection of bacteria. Microelectronic Engineering, 2008, 85, 1484-1489. | 1.1 | 32 |
| 16 | LED and CMOS image sensor based hemoglobin concentration measurement technique. Sensors and Actuators B: Chemical, 2011, 157, 103-109. | 4.0 | 27 |
| 17 | CMOS image sensor-based ELISA detector using lens-free shadow imaging platform. Sensors and Actuators B: Chemical, 2014, 196, 511-517. | 4.0 | 27 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Staining-free cell viability measurement technique using lens-free shadow imaging platform. Sensors and Actuators B: Chemical, 2016, 224, 577-583. | 4.0 | 19 |
| 21 | 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 |
| 22 | Capillary Flow in PDMS Cylindrical Microfluidic Channel Using 3-D Printed Mold. Journal of Microelectromechanical Systems, 2016, 25, 238-240. | 1.7 | 15 |
| 23 | 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 |
| 24 | A Field-Portable Cell Analyzer without a Microscope and Reagents. Sensors, 2018, 18, 85. | 2.1 | 12 |
| 25 | 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 |
| 26 | 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 |
| 27 | Field-Portable Leukocyte Classification Device Based on Lens-Free Shadow Imaging Technique. Biosensors, 2022, 12, 47. | 2.3 | 8 |
| 28 | Automated Micro-Object Detection for Mobile Diagnostics Using Lens-Free Imaging Technology. Diagnostics, 2016, 6, 17. | 1.3 | 7 |
| 29 | 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 |
| 30 | 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 |
| 31 | Lensfree cell holography on a chip: From holographic cell signatures to microscopic reconstruction. , 2009, , . | | 4 |
| 32 | 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 |
| 33 | Machine Learning Based Lens-Free Shadow Imaging Technique for Field-Portable Cytometry. Biosensors, 2022, 12, 144. | 2.3 | 4 |
| 34 | Virtual drop test methodology for a MEMS-based sensor. Electronic Materials Letters, 2011, 7, 109-113. | 1.0 | 3 |
| 35 | 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 |
| 36 | Detection of Particulate Matters with a Field-Portable Microscope Using Side-Illuminated Total Internal Reflection. Sensors, 2021, 21, 2745. | 2.1 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A CMOS Image Sensor Based Refractometer without Spectrometry. Sensors, 2022, 22, 1209. | 2.1 | 2 |
| 38 | Underwater multispectral imaging system for environmental monitoring. , 2014, , . | | 1 |
| 39 | High-throughput diatom counting method based on lens-free shadow image analysis. Sensors and Actuators B: Chemical, 2014, 193, 864-868. | 4.0 | 1 |
| 40 | Smartphone based automated microparticle analysis system. , 2015, , . | | 1 |
| 41 | Shadow image based high-throughput continuous cell monitoring for point-of-care and telemedicine applications. , 2012, , . | | 0 |
| 42 | An automated cell detection algorithm for lensfree shadow imaging platform. , 2013, , . | | 0 |
| 43 | A flexible strain-gauge sensor for flexible input devices. , 2015, , . | | 0 |
| 44 | High-throughput and real-time microalgae monitoring platform using lens-free shadow imaging system (LSIS). , 2015, , . | | 0 |
| 45 | Comparison of two types of tactile sensing layer in touch screen panel for force sensitive detection. , 2015, , . | | 0 |
| 46 | Lens-free automated cell detection system for telemedicine application. , 2015, , . | | 0 |
| 47 | 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 |
| 48 | An Optimized Neural Network Architecture for Auto Characterization of Biological Cells in Digital Inline Holography Micrographs. , 2020, , . | | 0 |