

Sung-Yong Park

List of Publications by Year in descending order

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37
papers

1,249
citations

394421

19
h-index

477307

29
g-index

37
all docs

37
docs citations

37
times ranked

1312
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous optoelectrowetting for picoliter droplet manipulation. Applied Physics Letters, 2008, 93, .	3.3	128
2	Single-sided continuous optoelectrowetting (SCOEW) for droplet manipulation with light patterns. Lab on A Chip, 2010, 10, 1655.	6.0	121
3	High-speed droplet generation on demand driven by pulse laser-induced cavitation. Lab on A Chip, 2011, 11, 1010.	6.0	119
4	Pulsed laser triggered high speed microfluidic fluorescence activated cell sorter. Lab on A Chip, 2012, 12, 1378.	6.0	111
5	A light-induced dielectrophoretic droplet manipulation platform. Lab on A Chip, 2009, 9, 3228.	6.0	86
6	Light-driven 3D droplet manipulation on flexible optoelectrowetting devices fabricated by a simple spin-coating method. Lab on A Chip, 2016, 16, 1831-1839.	6.0	78
7	An Ion Gel as a Low-Cost, Spin-Coatable, High-Capacitance Dielectric for Electrowetting-on-Dielectric (EWOD). Langmuir, 2015, 31, 8512-8518.	3.5	67
8	Floating electrode optoelectronic tweezers: Light-driven dielectrophoretic droplet manipulation in electrically insulating oil medium. Applied Physics Letters, 2008, 92, 151101-1511013.	3.3	54
9	An optofluidic tunable Fresnel lens for spatial focal control based on electrowetting-on-dielectric (EWOD). Sensors and Actuators B: Chemical, 2017, 240, 909-915.	7.8	53
10	Rapid and in-situ detection of fecal indicator bacteria in water using simple DNA extraction and portable loop-mediated isothermal amplification (LAMP) PCR methods. Water Research, 2019, 160, 371-379.	11.3	52
11	Optofluidic solar concentrators using electrowetting tracking: Concept, design, and characterization. Solar Energy, 2013, 89, 152-161.	6.1	45
12	Design and optical analyses of an arrayed microfluidic tunable prism panel for enhancing solar energy collection. Applied Energy, 2016, 162, 450-459.	10.1	45
13	Light-Driven Droplet Manipulation Technologies for Lab-on-a-Chip Applications. Advances in OptoElectronics, 2011, 2011, 1-12.	0.6	44
14	High-performance beam steering using electrowetting-driven liquid prism fabricated by a simple dip-coating method. Applied Physics Letters, 2016, 108, .	3.3	31
15	Smartphone integrated optoelectrowetting (SiOEW) for on-chip sample processing and microscopic detection of water quality. Lab on A Chip, 2018, 18, 532-539.	6.0	31
16	Single-Sided Digital Microfluidic (SDMF) Devices for Effective Coolant Delivery and Enhanced Two-Phase Cooling. Micromachines, 2017, 8, 3.	2.9	26
17	Electrowetting-driven solar indoor lighting (e-SIL): an optofluidic approach towards sustainable buildings. Lab on A Chip, 2018, 18, 1725-1735.	6.0	24
18	Continuous Separation of White Blood Cells From Whole Blood Using Viscoelastic Effects. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1431-1437.	4.0	21

#	ARTICLE	IF	CITATIONS
19	An automated 3D-printed smartphone platform integrated with optoelectrowetting (OEW) microfluidic chip for on-site monitoring of viable algae in water. <i>Harmful Algae</i> , 2019, 88, 101638.	4.8	21
20	Plasmonic nanoparticle-enhanced optoelectrowetting (OEW) for effective light-driven droplet manipulation. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127704.	7.8	15
21	Lab on a smartphone (LOS): A smartphone-integrated, plasmonic-enhanced optoelectrowetting (OEW) platform for on-chip water quality monitoring through LAMP assays. <i>Sensors and Actuators B: Chemical</i> , 2022, 358, 131543.	7.8	15
22	Vibration motor-integrated low-cost, miniaturized system for rapid quantification of red blood cell aggregation. <i>Lab on A Chip</i> , 2020, 20, 3930-3937.	6.0	14
23	Distributed Robust Control of Compliant Framed Wheeled Modular Mobile Robots. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2006, 128, 489-498.	1.6	11
24	A Study of Dip-Coatable, High-Capacitance Ion Gel Dielectrics for 3D EWOD Device Fabrication. <i>Materials</i> , 2017, 10, 41.	2.9	9
25	Design and optimization of a novel electrowetting-driven solar-indoor lighting system. <i>Applied Energy</i> , 2020, 269, 115128.	10.1	9
26	Microfluidic Tunable Liquid Prisms for Solar Beam Steering and Concentration. , 2013, , .		4
27	Dispersive Optical Systems for Highly-Concentrated Solar Spectrum Splitting: Concept, Design, and Performance Analyses. <i>Energies</i> , 2019, 12, 4719.	3.1	4
28	Active Hot Spot Cooling Controlled by Single-Sided Electrowetting-on-Dielectric (SEWOD). , 2012, , .		3
29	Biomimetic Precapillary Flow Patterns for Enhancing Blood Plasma Separation: A Preliminary Study. <i>Sensors</i> , 2016, 16, 1543.	3.8	3
30	Optical Dielectrophoretic (DEP) Manipulation of Oil-Immersed Aqueous Droplets on a Plasmonic-Enhanced Photoconductive Surface. <i>Micromachines</i> , 2022, 13, 112.	2.9	3
31	Capacitance Effects of a Hydrophobic-Coated Ion Gel Dielectric on AC Electrowetting. <i>Micromachines</i> , 2021, 12, 320.	2.9	2
32	A laser driven optofluidic device for high-speed and precise volume-controlled droplet generation on demand. , 2010, , .		0
33	Optofluidic tunable liquid prisms. , 2016, , .		0
34	Focal point control using an EWOD-based tuneable Fresnel lens. , 2016, , .		0
35	Lab on a Smartphone (LOS): A Low-Cost Portable Platform for Real-Time on-Site Water Quality Detection. , 2018, , .		0
36	Aluminium Nanoparticle-Enhanced Optoelectrowetting Device for Effective Light-Driven Droplet Manipulation. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	Optofluidic Solar Indoor Lighting for Sustainable Buildings. , 2019, , .		0