

# Jae-Sung Kwon

## List of Publications by Year in descending order

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17  
papers

314  
citations

933447

10  
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940533

16  
g-index

17  
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17  
docs citations

17  
times ranked

296  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optically Modulated Electrokinetic Manipulation and Concentration of Colloidal Particles near an Electrode Surface. <i>Langmuir</i> , 2010, 26, 5262-5272.	3.5	69
2	Improvement of microchannel geometry subject to electrokinesis and dielectrophoresis using numerical simulations. <i>Microfluidics and Nanofluidics</i> , 2008, 5, 23-31.	2.2	47
3	Optoelectrical microfluidics as a promising tool in biology. <i>Trends in Biotechnology</i> , 2014, 32, 414-421.	9.3	35
4	Opto-electrokinetic manipulation for high-performance on-chip bioassays. <i>Lab on A Chip</i> , 2012, 12, 4955.	6.0	32
5	Sensitive tear screening of diabetic retinopathy with dual biomarkers enabled using a rapid electrokinetic patterning platform. <i>Lab on A Chip</i> , 2020, 20, 356-362.	6.0	21
6	Microfluidic Technology for Cell Manipulation. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 992.	2.5	18
7	Light-actuated electrothermal microfluidic motion: experimental investigation and physical interpretation. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 609-619.	2.2	15
8	Formation and Characterization of Inkjet-Printed Nanosilver Lines on Plasma-Treated Glass Substrates. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 280.	2.5	13
9	Towards New Methodologies for Manipulation of Colloidal Particles in a Miniaturized Fluidic Device: Optoelectrokinetic Manipulation Technique. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013, 135, .	1.5	12
10	Numerical study and Taguchi optimization of fluid mixing by a microheater-modulated alternating current electrothermal flow in a Y-shape microchannel. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129242.	7.8	12
11	Numerical study on novel airfoil corrugated plate heat exchanger: A comparison with commercial type and geometrical parameter analysis. <i>International Journal of Heat and Mass Transfer</i> , 2022, 195, 123119.	4.8	12
12	Light-actuated electrothermal microfluidic flow for micro-mixing. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 017003.	2.6	6
13	Microfluidic free-flow electrophoresis: A promising tool for protein purification and analysis in proteomics. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 109, 79-99.	5.8	6
14	Rotational diffusometric sensor with isothermal amplification for ultra-sensitive and rapid detection of SARS-CoV-2 nsp2 cDNA. <i>Biosensors and Bioelectronics</i> , 2022, 210, 114293.	10.1	6
15	Development of porous silicon-coated gold nanoparticles as potential theragnostic material. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 1706-1712.	1.9	5
16	Facile open-well immunofluorescence enhancement with coplanar-electrodes-enabled optoelectrokinetics and magnetic particles. <i>Biosensors and Bioelectronics</i> , 2021, 193, 113527.	10.1	4
17	Tear Diagnosis for Diabetic Retinopathy using an Optoelectro-Kinetically Driven Bead-Based Immunosensor. , 2019, , .		1