

Sang Woo Lee

List of Publications by Year in descending order

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45
papers

740
citations

567281

15
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552781

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47
all docs

47
docs citations

47
times ranked

1005
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-sensitive dielectrophoretic surface charge multiplex detection inside a micro-dielectrophoretic device. <i>Biosensors and Bioelectronics</i> , 2022, 210, 114235.	10.1	1
2	Melanoma Detection by AFM Indentation of Histological Specimens. <i>Diagnostics</i> , 2022, 12, 1736.	2.6	3
3	Size-Selective Particle Trapping in Dielectrophoretic Corral Traps. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6278-6286.	3.1	3
4	A novel automatic segmentation and tracking method to measure cellular dielectrophoretic mobility from individual cell trajectories for high throughput assay. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 195, 105662.	4.7	5
5	Variable Membrane Dielectric Polarization Characteristic in Individual Live Cells. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7197-7203.	4.6	7
6	Analysis of Random Dynamics of Cell Segmented by a Modified Active Contour Method. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6806.	2.5	1
7	MoS ₂ Field-Effect Transistor-Amyloid- β Hybrid Device for Signal Amplified Detection of MMP-9. <i>Analytical Chemistry</i> , 2019, 91, 8252-8258.	6.5	34
8	Extremely sensitive and wide-range silver ion detection via assessing the integrated surface potential of a DNA-capped gold nanoparticle. <i>Nanotechnology</i> , 2019, 30, 085501.	2.6	12
9	Adhesive Leaf Created by a Corona Discharge. <i>Scientific Reports</i> , 2018, 8, 1737.	3.3	2
10	Identifying DNA mismatches at single-nucleotide resolution by probing individual surface potentials of DNA-capped nanoparticles. <i>Nanoscale</i> , 2018, 10, 538-547.	5.6	11
11	Non-Linear Cellular Dielectrophoretic Behavior Characterization Using Dielectrophoretic Tweezers-Based Force Spectroscopy inside a Microfluidic Device. <i>Sensors</i> , 2018, 18, 3543.	3.8	10
12	Rapid fabrication of versatile omni-directional and long-distance three-dimensional flow paper-fluidic analytical devices using a cut-and-insert method for biomedical applications. <i>Analytical Methods</i> , 2018, 10, 4648-4654.	2.7	4
13	Mechanical Deformation Mechanisms and Properties of Prion Fibrils Probed by Atomistic Simulations. <i>Nanoscale Research Letters</i> , 2017, 12, 228.	5.7	6
14	Nanoelectrical characterization of amyloid- β aggregates via Kelvin probe force microscopy. <i>Macromolecular Research</i> , 2017, 25, 1187-1191.	2.4	8
15	Nature-Inspired Construction of Two-Dimensionally Self-Assembled Peptide on Pristine Graphene. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3734-3739.	4.6	21
16	Label-Free and Recalibrated Multilayer MoS ₂ Biosensor for Point-of-Care Diagnostics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43490-43497.	8.0	62
17	Real-time electrical detection of epidermal skin MoS ₂ biosensor for point-of-care diagnostics. <i>Nano Research</i> , 2017, 10, 767-775.	10.4	42
18	Automated Dielectrophoretic Tweezers-Based Force Spectroscopy System in a Microfluidic Device. <i>Sensors</i> , 2017, 17, 2272.	3.8	8

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19	Selective position of individual cells without lysis on a circular window array using dielectrophoresis in a microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	6
20	Nanomechanical Characterization of Amyloid Fibrils Using Single-Molecule Experiments and Computational Simulations. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-16.	2.7	10
21	Convex Grooves in Staggered Herringbone Mixer Improve Mixing Efficiency of Laminar Flow in Microchannel. <i>PLoS ONE</i> , 2016, 11, e0166068.	2.5	41
22	Quantifying L-ascorbic acid-driven inhibitory effect on amyloid fibrillation. <i>Macromolecular Research</i> , 2016, 24, 868-873.	2.4	22
23	Research Update: Nanoscale surface potential analysis of MoS2 field-effect transistors for biomolecular detection using Kelvin probe force microscopy. <i>APL Materials</i> , 2016, 4, .	5.1	7
24	Kelvin probe force microscopy of DNA-capped nanoparticles for single-nucleotide polymorphism detection. <i>Nanoscale</i> , 2016, 8, 13537-13544.	5.6	15
25	Detection of Silver Ions Using Dielectrophoretic Tweezers-Based Force Spectroscopy. <i>Analytical Chemistry</i> , 2016, 88, 10867-10875.	6.5	28
26	Biaxial Dielectrophoresis Force Spectroscopy: A Stoichiometric Approach for Examining Intermolecular Weak Binding Interactions. <i>ACS Nano</i> , 2016, 10, 4011-4019.	14.6	21
27	Characterization of the Stiffness of Multiple Particles Trapped by Dielectrophoretic Tweezers in a Microfluidic Device. <i>Langmuir</i> , 2016, 32, 922-927.	3.5	10
28	Microfluidic room temperature ionic liquid droplet generation depending on the hydrophobicity and interfacial tension. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 57-62.	2.7	8
29	Characterization of anomalous movements of spherical living cells on a silicon dioxide glassy substrate. <i>Biomicrofluidics</i> , 2015, 9, 014102.	2.4	2
30	Real-Time Analysis of Cellular Response to Small-Molecule Drugs within a Microfluidic Dielectrophoresis Device. <i>Analytical Chemistry</i> , 2015, 87, 5914-5920.	6.5	15
31	Characterization of the regrowth behavior of amyloid-like fragmented fibrils decomposed by ultrasonic treatment. <i>RSC Advances</i> , 2014, 4, 56561-56566.	3.6	33
32	Investigation of the Binding Force between Protein A and Immunoglobulin G Using Dielectrophoretic(DEP) Tweezers Inside a Microfluidic Chip. <i>Journal of Biomedical Engineering Research</i> , 2013, 34, 123-128.	0.1	8
33	Characterization of Dielectrophoretic Force for the Structural Shapes of Window in Microfluidic Dielectrophoretic Chip. <i>Journal of Biomedical Engineering Research</i> , 2013, 34, 189-196.	0.1	5
34	Mapping the surface charge distribution of amyloid fibril. <i>Applied Physics Letters</i> , 2012, 101, 043703.	3.3	57
35	Microfluidic Multifunctional Probe Array Dielectrophoretic Force Spectroscopy with Wide Loading Rates. <i>ACS Nano</i> , 2012, 6, 8665-8673.	14.6	32
36	Aptamer-functionalized nano-pattern based on carbon nanotube for sensitive, selective protein detection. <i>Journal of Materials Chemistry</i> , 2012, 22, 23348.	6.7	36

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37	Innenrücktitelbild: Real-Time Quantitative Monitoring of Specific Peptide Cleavage by a Proteinase for Cancer Diagnosis (Angew. Chem. 24/2012). Angewandte Chemie, 2012, 124, 6119-6119.	2.0	0
38	Inside Back Cover: Real-Time Quantitative Monitoring of Specific Peptide Cleavage by a Proteinase for Cancer Diagnosis (Angew. Chem. Int. Ed. 24/2012). Angewandte Chemie - International Edition, 2012, 51, 6015-6015.	13.8	0
39	Electrochemical detection of high-sensitivity CRP inside a microfluidic device by numerical and experimental studies. Biomedical Microdevices, 2012, 14, 375-384.	2.8	12
40	Diffusion-based multi-stream bioluminescent reaction in a microfluidic device. Chemical Engineering Journal, 2012, 185-186, 321-327.	12.7	10
41	Single-Molecule Recognition of Biomolecular Interaction <i>via</i> Kelvin Probe Force Microscopy. ACS Nano, 2011, 5, 6981-6990.	14.6	59
42	Recent research trends in nanoscale electro-mechanical systems for bio-medical applications. Biomedical Engineering Letters, 2011, 1, 7-10.	4.1	6
43	Current on/off ratio enhancement through the electrical burning process in ambient with/without oxygen for the generation of high-performance aligned single-walled carbon nanotube field effect transistors. Applied Physics Letters, 2010, 97, 173102.	3.3	3
44	K-band loss characterization of electroplated nickel for RF MEMS devices. , 2007, , .		6
45	“Bottom-up” approach for implementing nano/microstructure using biological and chemical interactions. Biotechnology and Bioprocess Engineering, 2007, 12, 185-199.	2.6	42