

Junghoon Lee

List of Publications by Year in descending order

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61
papers

3,491
citations

304743

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docs citations

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times ranked

4044
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-sensitive and Highly Stretchable Strain Sensors for Monitoring of Human Physiology. <i>Macromolecular Materials and Engineering</i> , 2022, 307, 2100666.	3.6	9
2	A Four-Channel Low-Noise Readout IC for Air Flow Measurement Using Hot Wire Anemometer in 0.18 μ m CMOS Technology. <i>Sensors</i> , 2021, 21, 4694.	3.8	4
3	A 24.88 nV/ $\sqrt{\text{Hz}}$ Wheatstone Bridge Readout Integrated Circuit with Chopper-Stabilized Multipath Operational Amplifier. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 399.	2.5	9
4	Real-Time Monitoring of Electroconductivity in Plants with Microscale Needle Probes. <i>Environmental Control in Biology</i> , 2018, 56, 131-135.	0.7	3
5	PDMS Sylgard 527-Based Freely Suspended Ultrathin Membranes Exhibiting Mechanistic Characteristics of Vascular Basement Membranes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40388-40400.	8.0	6
6	Magnetic Nanoparticle Encapsulation for the Manipulation of Bacterial Movement and Spontaneous Detection by Reduced Graphene Oxide. <i>Advanced Biology</i> , 2018, 2, 1800095.	3.0	6
7	Highly Sensitive Bendable and Foldable Paper Sensors Based on Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4658-4666.	8.0	73
8	A review on the importance of surface coating of micro/nano-mold in micro/nano-molding processes. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 013002.	2.6	63
9	Cell motility regulation on a stepped micro pillar array device (SMPAD) with a discrete stiffness gradient. <i>Soft Matter</i> , 2016, 12, 2325-2333.	2.7	17
10	DNA aptamer release from the DNA-SWNT hybrid by protein recognition. <i>Chemical Communications</i> , 2016, 52, 2784-2787.	4.1	8
11	An open-structure electrowetting-based reflective display with a feedback system. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 115029.	2.6	2
12	Effects of Functionalized and Raw Multi-Walled Carbon Nanotubes on Soil Bacterial Community Composition. <i>PLoS ONE</i> , 2015, 10, e0123042.	2.5	59
13	Membrane-based chemomechanical transducer for the detection of aptamer-protein binding., 2015, , .		0
14	Cell motility regulation on stepped micro pillar array device (SMPAD) with discrete stiffness gradient., 2015, , .		1
15	Open-structure electrowetting display with capacitive sensing feedback system., 2015, , .		3
16	Chemomechanical Transduction Systems: A Sensing Platform by Surface Force Measurement., 2015, , 25-45.		0
17	The Impact of Selective-Logging and Forest Clearance for Oil Palm on Fungal Communities in Borneo. <i>PLoS ONE</i> , 2014, 9, e111525.	2.5	45
18	Effect of magnetic modulation of mitochondrial voltage-dependent anion channel 2 against beta-amyloid induced neurotoxicity. <i>RSC Advances</i> , 2014, 4, 63681-63684.	3.6	0

#	ARTICLE	IF	CITATIONS
19	Electrowetting-based measurement of interfacial tension. Applied Physics Letters, 2014, 105, 183509.	3.3	3
20	Surface tension monitoring in a soft interface using electrowetting on dielectric. , 2014, , .		0
21	Thermal transmittance of window systems and effects on building heating energy use and energy efficiency ratings in South Korea. Energy and Buildings, 2013, 67, 236-244.	6.7	22
22	Magnetic response of mitochondria-targeted cancer cells with bacterial magnetic nanoparticles. Chemical Communications, 2012, 48, 7474.	4.1	18
23	Cell manipulation systems using dielectrophoretic process for diagnostic sensors. , 2012, , .		0
24	Manipulation of NIH3T3 cells with functionalized single-walled carbon nanotubes under a magnetic field. Materials Letters, 2012, 68, 378-381.	2.6	8
25	Feasible and effective IT asset management using surface acoustic wave-based RFID. International Journal of Advanced Manufacturing Technology, 2011, 55, 1209-1221.	3.0	1
26	Bacterial cell manipulation by dielectrophoresis on a hydrophobic guide structure. Electrochemistry Communications, 2011, 13, 600-604.	4.7	8
27	Dissociation of Single-Strand DNA: Single-Walled Carbon Nanotube Hybrids by Watson-Crick Base-Pairing. Journal of the American Chemical Society, 2010, 132, 10964-10966.	13.7	37
28	Auto-focusing actuator and camera module including flexible diaphragm for mobile phone camera and wireless capsule endoscope. Microsystem Technologies, 2010, 16, 149-159.	2.0	13
29	Promotion of cell growth with magnetically enhanced single-walled carbon nanotubes. Diamond and Related Materials, 2010, 19, 942-945.	3.9	4
30	Design of Nanodiamond Based Drug Delivery Patch for Cancer Therapeutics and Imaging Applications. , 2010, , 249-284.		2
31	Quantitative temperature mapping of carbon nanotube using null point method. , 2010, , .		0
32	Thin membrane transducer detecting DNA hybridization on chip. , 2009, , .		2
33	High-performance humidity sensor with polyimide nano-grass. , 2009, , .		1
34	Reversible Metal-Semiconductor Transition of ssDNA-Decorated Single-Walled Carbon Nanotubes. Nano Letters, 2009, 9, 1345-1349.	9.1	54
35	Design of Surface Hierarchy for Extreme Hydrophobicity. Langmuir, 2009, 25, 6129-6136.	3.5	232
36	Ultra-thin and Conductive Nanomembrane Arrays for Nanomechanical Transducers. Advanced Materials, 2008, 20, 3131-3137.	21.0	10

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37	Feasibility Study of Surface Acoustic Wave RFID for Information Processing Asset Management. , 2008, , .		4
38	Biomolecular detection with a thin membrane transducer. Lab on A Chip, 2008, 8, 932.	6.0	49
39	Biohybrid microsystems actuated by cardiomyocytes: Microcantilever, microrobot, and micropump. , 2008, , .		10
40	Mechanotransduction of cardiomyocytes interacting with a thin membrane transducer. Journal of Micromechanics and Microengineering, 2007, 17, 1162-1167.	2.6	9
41	High-performance optical pick-up actuator with singlet objective lens for BD/DVD/CD compatible drive. Microsystem Technologies, 2007, 13, 1253-1260.	2.0	13
42	Immersed finite element method and its applications to biological systems. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1722-1749.	6.6	240
43	In situ mechanical testing of templated carbon nanotubes. Review of Scientific Instruments, 2006, 77, 125101.	1.3	30
44	Anisotropy in the wetting of rough surfaces. Journal of Colloid and Interface Science, 2005, 281, 458-464.	9.4	300
45	A roughness-based wettability switching membrane device for hydrophobic surfaces. Journal of Micromechanics and Microengineering, 2005, 15, 591-600.	2.6	61
46	Multi-walled carbon nanotubes experiencing electrical breakdown as gas sensors. Nanotechnology, 2004, 15, 1596-1602.	2.6	56
47	Realization of nanoscale resolution with a micromachined thermally actuated testing stage. Review of Scientific Instruments, 2004, 75, 2154-2162.	1.3	50
48	Fabrication of a Micro/Nano Integrated Roughened Structure Using Nanosphere Lithography (NSL). , 2004, , 463.		0
49	Contact angle hysteresis on rough hydrophobic surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 248, 101-104.	4.7	217
50	Toward Large-Scale Integration of Carbon Nanotubes. Langmuir, 2004, 20, 3011-3017.	3.5	144
51	Multiple Equilibrium Droplet Shapes and Design Criterion for Rough Hydrophobic Surfaces. Langmuir, 2003, 19, 4999-5003.	3.5	586
52	Nanoscale gap fabrication and integration of carbon nanotubes by micromachining. Sensors and Actuators A: Physical, 2003, 104, 229-235.	4.1	45
53	Nanoscale Gap Fabrication by Carbon Nanotube-Extracted Lithography (CEL). Nano Letters, 2003, 3, 1029-1031.	9.1	23
54	Electrostatic actuation of microscale liquid-metal droplets. Journal of Microelectromechanical Systems, 2002, 11, 302-308.	2.5	45

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55	Electrowetting and electrowetting-on-dielectric for microscale liquid handling. Sensors and Actuators A: Physical, 2002, 95, 259-268.	4.1	546
56	Integration of Single Multi-Walled Carbon Nanotube on Micro Systems. , 2002, , .		3
57	Surface-tension-driven microactuation based on continuous electrowetting. Journal of Microelectromechanical Systems, 2000, 9, 171-180.	2.5	303
58	Liquid micromotor driven by continuous electrowetting. , 0, , .		21
59	Dynamic wettability switching by surface roughness effect. , 0, , .		7
60	Fabrication of single multi-walled carbon nanotube array with a composite electric field guided assembly method. , 0, , .		2
61	Microfabricated glucose sensor based on single-walled carbon nanotubes. , 0, , .		4