

Junghoon Lee

List of Publications by Year in descending order

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61
papers

3,491
citations

304743

22
h-index

265206

42
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61
all docs

61
docs citations

61
times ranked

4044
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple Equilibrium Droplet Shapes and Design Criterion for Rough Hydrophobic Surfaces. Langmuir, 2003, 19, 4999-5003.	3.5	586
2	Electrowetting and electrowetting-on-dielectric for microscale liquid handling. Sensors and Actuators A: Physical, 2002, 95, 259-268.	4.1	546
3	Surface-tension-driven microactuation based on continuous electrowetting. Journal of Microelectromechanical Systems, 2000, 9, 171-180.	2.5	303
4	Anisotropy in the wetting of rough surfaces. Journal of Colloid and Interface Science, 2005, 281, 458-464.	9.4	300
5	Immersed finite element method and its applications to biological systems. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1722-1749.	6.6	240
6	Design of Surface Hierarchy for Extreme Hydrophobicity. Langmuir, 2009, 25, 6129-6136.	3.5	232
7	Contact angle hysteresis on rough hydrophobic surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 248, 101-104.	4.7	217
8	Toward Large-Scale Integration of Carbon Nanotubes. Langmuir, 2004, 20, 3011-3017.	3.5	144
9	Highly Sensitive Bendable and Foldable Paper Sensors Based on Reduced Graphene Oxide. ACS Applied Materials & Interfaces, 2017, 9, 4658-4666.	8.0	73
10	A review on the importance of surface coating of micro/nano-mold in micro/nano-molding processes. Journal of Micromechanics and Microengineering, 2016, 26, 013002.	2.6	63
11	A roughness-based wettability switching membrane device for hydrophobic surfaces. Journal of Micromechanics and Microengineering, 2005, 15, 591-600.	2.6	61
12	Effects of Functionalized and Raw Multi-Walled Carbon Nanotubes on Soil Bacterial Community Composition. PLoS ONE, 2015, 10, e0123042.	2.5	59
13	Multi-walled carbon nanotubes experiencing electrical breakdown as gas sensors. Nanotechnology, 2004, 15, 1596-1602.	2.6	56
14	Reversible Metal \rightarrow Semiconductor Transition of ssDNA-Decorated Single-Walled Carbon Nanotubes. Nano Letters, 2009, 9, 1345-1349.	9.1	54
15	Realization of nanoscale resolution with a micromachined thermally actuated testing stage. Review of Scientific Instruments, 2004, 75, 2154-2162.	1.3	50
16	Biomolecular detection with a thin membrane transducer. Lab on A Chip, 2008, 8, 932.	6.0	49
17	Electrostatic actuation of microscale liquid-metal droplets. Journal of Microelectromechanical Systems, 2002, 11, 302-308.	2.5	45
18	Nanoscale gap fabrication and integration of carbon nanotubes by micromachining. Sensors and Actuators A: Physical, 2003, 104, 229-235.	4.1	45

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19	The Impact of Selective-Logging and Forest Clearance for Oil Palm on Fungal Communities in Borneo. PLoS ONE, 2014, 9, e111525.	2.5	45
20	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
21	In situ mechanical testing of templated carbon nanotubes. Review of Scientific Instruments, 2006, 77, 125101.	1.3	30
22	Nanoscale Gap Fabrication by Carbon Nanotube-Extracted Lithography (CEL). Nano Letters, 2003, 3, 1029-1031.	9.1	23
23	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
24	Liquid micromotor driven by continuous electrowetting. , 0, , .		21
25	Magnetic response of mitochondria-targeted cancer cells with bacterial magnetic nanoparticles. Chemical Communications, 2012, 48, 7474.	4.1	18
26	Cell motility regulation on a stepped micro pillar array device (SMPAD) with a discrete stiffness gradient. Soft Matter, 2016, 12, 2325-2333.	2.7	17
27	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
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	Ultra-thin and Conductive Nanomembrane Arrays for Nanomechanical Transducers. Advanced Materials, 2008, 20, 3131-3137.	21.0	10
30	Biohybrid microsystems actuated by cardiomyocytes: Microcantilever, microrobot, and micropump. , 2008, , .		10
31	Mechanotransduction of cardiomyocytes interacting with a thin membrane transducer. Journal of Micromechanics and Microengineering, 2007, 17, 1162-1167.	2.6	9
32	A 24.88 nV/√Hz Wheatstone Bridge Readout Integrated Circuit with Chopper-Stabilized Multipath Operational Amplifier. Applied Sciences (Switzerland), 2020, 10, 399.	2.5	9
33	Ultra-sensitive and Highly Stretchable Strain Sensors for Monitoring of Human Physiology. Macromolecular Materials and Engineering, 2022, 307, 2100666.	3.6	9
34	Bacterial cell manipulation by dielectrophoresis on a hydrophobic guide structure. Electrochemistry Communications, 2011, 13, 600-604.	4.7	8
35	Manipulation of NIH3T3 cells with functionalized single-walled carbon nanotubes under a magnetic field. Materials Letters, 2012, 68, 378-381.	2.6	8
36	DNA aptamer release from the DNA-SWNT hybrid by protein recognition. Chemical Communications, 2016, 52, 2784-2787.	4.1	8

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37	Dynamic wettability switching by surface roughness effect. , 0, , .		7
38	PDMS Sylgard 527-Based Freely Suspended Ultrathin Membranes Exhibiting Mechanistic Characteristics of Vascular Basement Membranes. ACS Applied Materials & Interfaces, 2018, 10, 40388-40400.	8.0	6
39	Magnetic Nanoparticle Encapsulation for the Manipulation of Bacterial Movement and Spontaneous Detection by Reduced Graphene Oxide. Advanced Biology, 2018, 2, 1800095.	3.0	6
40	Microfabricated glucose sensor based on single-walled carbon nanotubes. , 0, , .		4
41	Feasibility Study of Surface Acoustic Wave RFID for Information Processing Asset Management. , 2008, , .		4
42	Promotion of cell growth with magnetically enhanced single-walled carbon nanotubes. Diamond and Related Materials, 2010, 19, 942-945.	3.9	4
43	A Four-Channel Low-Noise Readout IC for Air Flow Measurement Using Hot Wire Anemometer in 0.18 μ m CMOS Technology. Sensors, 2021, 21, 4694.	3.8	4
44	Electrowetting-based measurement of interfacial tension. Applied Physics Letters, 2014, 105, 183509.	3.3	3
45	Open-structure electrowetting display with capacitive sensing feedback system. , 2015, , .		3
46	Real-Time Monitoring of Electroconductivity in Plants with Microscale Needle Probes. Environmental Control in Biology, 2018, 56, 131-135.	0.7	3
47	Integration of Single Multi-Walled Carbon Nanotube on Micro Systems. , 2002, , .		3
48	Fabrication of single multi-walled carbon nanotube array with a composite electric field guided assembly method. , 0, , .		2
49	Thin membrane transducer detecting DNA hybridization on chip. , 2009, , .		2
50	Design of Nanodiamond Based Drug Delivery Patch for Cancer Therapeutics and Imaging Applications. , 2010, , 249-284.		2
51	An open-structure electrowetting-based reflective display with a feedback system. Journal of Micromechanics and Microengineering, 2015, 25, 115029.	2.6	2
52	High-performance humidity sensor with polyimide nano-grass. , 2009, , .		1
53	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
54	Cell motility regulation on stepped micro pillar array device (SMPAD) with discrete stiffness gradient. , 2015, , .		1

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55	Fabrication of a Micro/Nano Integrated Roughened Structure Using Nanosphere Lithography (NSL). , 2004, , 463.		0
56	Quantitative temperature mapping of carbon nanotube using null point method. , 2010, , .		0
57	Cell manipulation systems using dielectrophoretic process for diagnostic sensors. , 2012, , .		0
58	Effect of magnetic modulation of mitochondrial voltage-dependent anion channel 2 against beta-amyloid induced neurotoxicity. RSC Advances, 2014, 4, 63681-63684.	3.6	0
59	Surface tension monitoring in a “soft” interface using electrowetting on dielectric. , 2014, , .		0
60	Membrane-based chemomechanical transducer for the detection of aptamer-protein binding. , 2015, , .		0
61	Chemomechanical Transduction Systems: A Sensing Platform by Surface Force Measurement. , 2015, , 25-45.		0