

Jiyoung Chang

List of Publications by Year in descending order

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43
papers

1,324
citations

567281

15
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477307

29
g-index

44
all docs

44
docs citations

44
times ranked

2452
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric nanofibers for energy scavenging applications. Nano Energy, 2012, 1, 356-371.	16.0	386
2	Graphene and carbon nanotube (CNT) in MEMS/NEMS applications. Microelectronic Engineering, 2015, 132, 192-206.	2.4	191
3	High Quality Mn-Doped (Na,K)NbO ₃ Nanofibers for Flexible Piezoelectric Nanogenerators. ACS Applied Materials & Interfaces, 2014, 6, 10576-10582.	8.0	142
4	Fast response integrated MEMS microheaters for ultra low power gas detection. Sensors and Actuators A: Physical, 2015, 223, 67-75.	4.1	103
5	Platinum Nanoparticle Loading of Boron Nitride Aerogel and Its Use as a Novel Material for Low-Power Catalytic Gas Sensing. Advanced Functional Materials, 2016, 26, 433-439.	14.9	82
6	Catalytic hydrogen sensing using microheated platinum nanoparticle-loaded graphene aerogel. Sensors and Actuators B: Chemical, 2015, 206, 399-406.	7.8	72
7	A Near-Infrared Mechano Responsive Polymer System. Advanced Materials, 2012, 24, 2685-2690.	21.0	47
8	Electrostatically actuated carbon nanowire nanotweezers. Smart Materials and Structures, 2009, 18, 065017.	3.5	41
9	Real-Time Observation of Water-Soluble Mineral Precipitation in Aqueous Solution by In Situ High-Resolution Electron Microscopy. ACS Nano, 2016, 10, 88-92.	14.6	38
10	Experimental study on jet impact speed in near-field electrospinning for precise patterning of nanofiber. Journal of Manufacturing Processes, 2018, 36, 231-237.	5.9	25
11	Direct-Write Complementary Graphene Field Effect Transistors and Junctions via Near-Field Electrospinning. Small, 2014, 10, 1920-1925.	10.0	23
12	Synthesis of Single-Layer Graphene on Nickel Using a Droplet CVD Process. Advanced Materials Interfaces, 2017, 4, 1600783.	3.7	18
13	Direct-Printing of Functional Nanofibers on 3D Surfaces Using Self-Aligning Nanojet in Near-Field Electrospinning. Advanced Materials Technologies, 2020, 5, 2000232.	5.8	18
14	Large array electrospun PVDF nanogenerators on a flexible substrate. , 2011, , .		17
15	A biological breadboard platform for cell adhesion and detachment studies. Lab on A Chip, 2011, 11, 3555.	6.0	15
16	Suspended Graphene-Based Gas Sensor with 1-mW Energy Consumption. Micromachines, 2017, 8, 44.	2.9	15
17	Pick, break, and placement of one-dimensional nanostructures for direct assembly and integration. Applied Physics Letters, 2010, 96, 153101.	3.3	8
18	Droplet-jet mode near-field electrospinning for controlled helix patterns with sub-10 μ m coiling diameter. Journal of Micromechanics and Microengineering, 2019, 29, 045004.	2.6	8

#	ARTICLE	IF	CITATIONS
19	Nanoscale Fiber Deposition via Surface Charge Migration at Air-to-Polymer Liquid Interface in Near-Field Electrospinning. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2761-2768.	4.4	8
20	Bimorph nano actuators synthesized by focused ion beam chemical vapor deposition. <i>Microelectronic Engineering</i> , 2009, 86, 2364-2368.	2.4	7
21	Synthesis and Bidirectional Frequency Tuning of Cantilever-Shape Nano Resonators Using a Focused Ion Beam. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9684-9690.	8.0	7
22	A Quantification of Jet Speed and Nanofiber Deposition Rate in Near-Field Electrospinning Through Novel Image Processing. <i>Journal of Micro and Nano-Manufacturing</i> , 2018, 6, .	0.7	7
23	Suspended graphene sensor with controllable width and electrical tunability via direct-write functional fibers. <i>Journal of Manufacturing Processes</i> , 2020, 58, 458-465.	5.9	7
24	Facile electron-beam lithography technique for irregular and fragile substrates. <i>Applied Physics Letters</i> , 2014, 105, 173109.	3.3	6
25	A flexible graphene FET gas sensor using polymer as gate dielectrics. , 2014, , .		6
26	MEMS packaging technologies & applications. , 2010, , .		4
27	Electricâ€Fieldâ€Assisted Singleâ€Step In Situ Fabrication and Focal Length Control of Polymeric Convex Lens on Flexible Substrate. <i>Advanced Materials Technologies</i> , 2018, 3, 1800108.	5.8	4
28	MEMS-based dynamic cell-to-cell culture platforms using electrochemical surface modifications. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 054028.	2.6	3
29	Gas Sensors: Platinum Nanoparticle Loading of Boron Nitride Aerogel and Its Use as a Novel Material for Lowâ€Power Catalytic Gas Sensing (Adv. Funct. Mater. 3/2016). <i>Advanced Functional Materials</i> , 2016, 26, 314-314.	14.9	3
30	Synthesis of Micro-encapsulated Phase Change Materials Using Chain Transfer Agent via Emulsion Polymerization and Their Chemical, Optical, and Thermal Characterization. <i>Jom</i> , 2019, 71, 4562-4568.	1.9	3
31	Electrostatically Actuated Nano Tweezers Fabricated on Micro Processed Electrodes. , 2006, , .		2
32	Direct-write n- and p-type graphene channel FETs. , 2013, , .		2
33	Fiber Lithography: A Facile Lithography Platform Based on Electromagnetic Phase Modulation Using a Highly Birefringent Electrospun Fiber. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20056-20066.	8.0	2
34	Tunable Optical Enhancement from a Mems-Integrated TiO<inf>2</inf> Nanosword Plasmonic Antenna. , 2009, , .		1
35	A facile dry-PMMA transfer process for electron-beam lithography on non-flat substrates. , 2017, , .		1
36	3D Printed Injection Molding for Prototyping Batch Fabrication of Macroscale Graphene/Paraffin Spheres for Thermal Energy Management. <i>Jom</i> , 2019, 71, 4569-4577.	1.9	1

#	ARTICLE	IF	CITATIONS
37	In-Situ Frequency Tuning of Electrostatically Actuated Vibrating Nano Structures Using Focused Ion Beam. , 2006, , .		1
38	Thermally Driven Bimorph Nano Actuators Fabricated using Focused Ion Beam Chemical Vapor Deposition. , 2007, , .		0
39	Direct pick, break, and placement of nanostructures and their integration with MEMS. , 2009, , .		0
40	MEMS-based biological platform for dynamic cell-to-cell interaction characterization. , 2010, , .		0
41	MEMS performance challenges: packaging and shock tests. , 2011, , .		0
42	Field Effect Transistors: Direct Write Complementary Graphene Field Effect Transistors and Junctions via Near-Field Electrospinning (Small 10/2014). Small, 2014, 10, 2112-2112.	10.0	0
43	Electrohydrodynamics: Electric-Field-Assisted Single-Step In Situ Fabrication and Focal Length Control of Polymeric Convex Lens on Flexible Substrate (Adv. Mater. Technol. 11/2018). Advanced Materials Technologies, 2018, 3, 1870042.	5.8	0