Lee Belding

List of Publications by Year
in descending order

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45 papers	16,793 citations	94269 37 h-index	197535 49 g-index
49 all docs	49 docs citations	49 times ranked	13339 citing authors

#	Article	IF	Citations
1	Multigait soft robot. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20400-20403.	3.3	1,750
2	An integrated design and fabrication strategy for entirely soft, autonomous robots. Nature, 2016, 536, 451-455.	13.7	1,557
3	Stretchable, Transparent, Ionic Conductors. Science, 2013, 341, 984-987.	6.0	1,396
4	Eutectic Galliumâ€Indium (EGaIn): A Liquid Metal Alloy for the Formation of Stable Structures in Microchannels at Room Temperature. Advanced Functional Materials, 2008, 18, 1097-1104.	7.8	1,170
5	Pneumatic Networks for Soft Robotics that Actuate Rapidly. Advanced Functional Materials, 2014, 24, 2163-2170.	7.8	1,125
6	Soft Robotics for Chemists. Angewandte Chemie - International Edition, 2011, 50, 1890-1895.	7.2	912
7	A Resilient, Untethered Soft Robot. Soft Robotics, 2014, 1, 213-223.	4.6	885
8	A 3D-printed, functionally graded soft robot powered by combustion. Science, 2015, 349, 161-165.	6.0	802
9	Camouflage and Display for Soft Machines. Science, 2012, 337, 828-832.	6.0	642
10	Robotic Tentacles with Threeâ€Dimensional Mobility Based on Flexible Elastomers. Advanced Materials, 2013, 25, 205-212.	11.1	580
11	Components for integrated poly(dimethylsiloxane) microfluidic systems. Electrophoresis, 2002, 23, 3461-3473.	1.3	565
12	Soft Robotics. Angewandte Chemie - International Edition, 2018, 57, 4258-4273.	7.2	534
13	Elastomeric Origami: Programmable Paperâ€Elastomer Composites as Pneumatic Actuators. Advanced Functional Materials, 2012, 22, 1376-1384.	7.8	504
14	Soft lithographic methods for nano-fabrication. Journal of Materials Chemistry, 1997, 7, 1069-1074.	6.7	410
15	A soft, bistable valve for autonomous control of soft actuators. Science Robotics, 2018, 3, .	9.9	316
16	Dynamic control of liquid-core/liquid-cladding optical waveguides. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12434-12438.	3.3	287
17	Buckling of Elastomeric Beams Enables Actuation of Soft Machines. Advanced Materials, 2015, 27, 6323-6327.	11.1	244
18	Using Explosions to Power a Soft Robot. Angewandte Chemie - International Edition, 2013, 52, 2892-2896.	7.2	227

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19	Buckling Pneumatic Linear Actuators Inspired by Muscle. Advanced Materials Technologies, 2016, 1, 1600055.	3.0	226
20	Pneumatic Energy Sources for Autonomous and Wearable Soft Robotics. Soft Robotics, 2014, 1, 263-274.	4.6	215
21	A Hybrid Combining Hard and Soft Robots. Soft Robotics, 2014, 1, 70-74.	4.6	198
22	A multi-color fast-switching microfluidic droplet dye laser. Lab on A Chip, 2009, 9, 2767.	3.1	177
23	Digital logic for soft devices. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7750-7759.	3.3	170
24	Soft Machines That are Resistant to Puncture and That Self Seal. Advanced Materials, 2013, 25, 6709-6713.	11.1	158
25	Electrically Activated Paper Actuators. Advanced Functional Materials, 2016, 26, 2446-2453.	7.8	135
26	A soft ring oscillator. Science Robotics, 2019, 4, .	9.9	128
27	Cofabrication of Electromagnets and Microfluidic Systems in Poly(dimethylsiloxane). Angewandte Chemie - International Edition, 2006, 45, 6877-6882.	7.2	114
28	Soft Mobile Robots with On-Board Chemical Pressure Generation. Springer Tracts in Advanced Robotics, 2017, , 525-540.	0.3	84
29	Using â€œClickâ€•â€Bricksâ€•to Make 3D Elastomeric Structures. Advanced Materials, 2014, 26, 5991-5999.	11.1	73
30	Slit Tubes for Semisoft Pneumatic Actuators. Advanced Materials, 2018, 30, 1704446.	11.1	68
31	Arthrobots. Soft Robotics, 2017, 4, 183-190.	4.6	65
32	Negativeâ€Pressure Soft Linear Actuator with a Mechanical Advantage. Advanced Materials Technologies, 2017, 2, 1600164.	3.0	61
33	Cofabrication: A Strategy for Building Multicomponent Microsystems. Accounts of Chemical Research, 2010, 43, 518-528.	7.6	53
34	Autocatalytic Cycles in a Copper-Catalyzed Azideâ€“Alkyne Cycloaddition Reaction. Journal of the American Chemical Society, 2018, 140, 10221-10232.	6.6	51
35	Dipole-Induced Rectification Across Ag^{TS}/SAM//Ga₂O₃/EGaIn Junctions. Journal of the American Chemical Society, 2019, 141, 8969-8980.	6.6	40
36	Rectification in Molecular Tunneling Junctions Based on Alkanethiolates with Bipyridineâ€“Metal Complexes. Journal of the American Chemical Society, 2021, 143, 2156-2163.	6.6	40

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37	Fabricating 3D Structures by Combining 2D Printing and Relaxation of Strain. Advanced Materials Technologies, 2019, 4, 1800299.	3.0	36
38	Stretchable Conductive Composites Based on Metal Wools for Use as Electrical Vias in Soft Devices. Advanced Functional Materials, 2015, 25, 1418-1425.	7.8	35
39	Soft kink valves. Journal of the Mechanics and Physics of Solids, 2019, 131, 230-239.	2.3	27
40	Softâ€Robotik. Angewandte Chemie, 2018, 130, 4336-4353.	1.6	20
41	Curiosity and Science. Angewandte Chemie - International Edition, 2018, 57, 4126-4129.	7.2	14
42	Elastic-instabilityâ€“enabled locomotion. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	11
43	Characterizing Chelation at Surfaces by Charge Tunneling. Journal of the American Chemical Society, 2021, 143, 5967-5977.	6.6	10
44	Neugier und Wissenschaft. Angewandte Chemie, 2018, 130, 4192-4196.	1.6	6
45	Controlled Hysteresis of Conductance in Molecular Tunneling Junctions. ACS Nano, 2022, 16, 4206-4216.	7.3	3