

Abhiteja Konda

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

5,436
citations

393982

19
h-index

344852

36
g-index

36
all docs

36
docs citations

36
times ranked

7374
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	Aerosol Filtration Efficiency of Common Fabrics Used in Respiratory Cloth Masks. ACS Nano, 2020, 14, 6339-6347.	7.3	709
3	Soft Robotics: Review of Fluid-Driven Intrinsically Soft Devices; Manufacturing, Sensing, Control, and Applications in Human-Robot Interaction. Advanced Engineering Materials, 2017, 19, 1700016.	1.6	707
4	Camouflage and Display for Soft Machines. Science, 2012, 337, 828-832.	6.0	642
5	Screw Dislocation Driven Growth of Nanomaterials. Accounts of Chemical Research, 2013, 46, 1616-1626.	7.6	275
6	Mechanism and Kinetics of Spontaneous Nanotube Growth Driven by Screw Dislocations. Science, 2010, 328, 476-480.	6.0	271
7	Using Explosions to Power a Soft Robot. Angewandte Chemie - International Edition, 2013, 52, 2892-2896.	7.2	227
8	Screw Dislocation-Driven Growth of Two-Dimensional Nanoplates. Nano Letters, 2011, 11, 4449-4455.	4.5	173
9	Screw Dislocation-Driven Epitaxial Solution Growth of ZnO Nanowires Seeded by Dislocations in GaN Substrates. Nano Letters, 2010, 10, 3459-3463.	4.5	140
10	Using "Click" Bricks to Make 3D Elastomeric Structures. Advanced Materials, 2014, 26, 5991-5999.	11.1	73
11	Biomimetic Assembly of Zinc Oxide Nanorods onto Flexible Polymers. Journal of the American Chemical Society, 2007, 129, 13776-13777.	6.6	59
12	Soft Microreactors for the Deposition of Conductive Metallic Traces on Planar, Embossed, and Curved Surfaces. Advanced Functional Materials, 2018, 28, 1803020.	7.8	44
13	Soft Surfaces for the Reversible Control of Thin-Film Microstructure and Optical Reflectance. Advanced Materials, 2016, 28, 2595-2600.	11.1	37
14	Emergent Soft Lithographic Tools for the Fabrication of Functional Polymeric Microstructures. ChemPhysChem, 2019, 20, 909-925.	1.0	34
15	Dynamic manipulation of droplets using mechanically tunable microtextured chemical gradients. Nature Communications, 2021, 12, 3114.	5.8	29
16	Response to Letters to the Editor on Aerosol Filtration Efficiency of Common Fabrics Used in Respiratory Cloth Masks: Revised and Expanded Results. ACS Nano, 2020, 14, 10764-10770.	7.3	27
17	Covalent Bonding of Thermoplastics to Rubbers for Printable, Reel-to-Reel Processing in Soft Robotics and Microfluidics. Advanced Materials, 2018, 30, 1705333.	11.1	21
18	Stretchable Chemical Patterns for the Assembly and Manipulation of Arrays of Microdroplets with Lensing and Micromixing Functionality. Advanced Functional Materials, 2015, 25, 5520-5528.	7.8	20

#	ARTICLE	IF	CITATIONS
19	Surface Molding of Microscale Hydrogels with Microactuation Functionality. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1236-1240.	7.2	19
20	Mechanically Induced Hydrophobic Recovery of Poly(dimethylsiloxane) (PDMS) for the Generation of Surfaces with Patterned Wettability. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33452-33457.	4.0	19
21	Reconfigurable microfluidic systems with reversible seals compatible with 2D and 3D surfaces of arbitrary chemical composition. <i>Lab on A Chip</i> , 2015, 15, 2009-2017.	3.1	16
22	Rational Synthesis of Large-area Periodic Chemical Gradients for the Manipulation of Liquid Droplets and Gas Bubbles. <i>Advanced Functional Materials</i> , 2018, 28, 1705564.	7.8	13
23	Thermoplastic building blocks for the fabrication of microfluidic masters. <i>RSC Advances</i> , 2015, 5, 97934-97943.	1.7	10
24	Stretchable Substrates for the Assembly of Polymeric Microstructures. <i>Small</i> , 2017, 13, 1603350.	5.2	10
25	Microscale screen printing of large-area arrays of microparticles for the fabrication of photonic structures and for optical sorting. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12031-12037.	2.7	10
26	Reversible Mechanical Deformations of Soft Microchannel Networks for Sensing in Soft Robotic Systems. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900027.	3.3	8
27	Facile Production of Large-area Cell Arrays Using Surface-assembled Microdroplets. <i>Advanced Science</i> , 2020, 7, 2000769.	5.6	8
28	Mechanically Tunable Superhydrophobic Surfaces Enabled by the Rational Manipulation of Microcrack Networks in Nanoporous Films. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100869.	1.9	7
29	Flow-directed synthesis of spatially variant arrays of branched zinc oxide mesostructures. <i>Nanoscale</i> , 2017, 9, 8393-8400.	2.8	6
30	Surface molding of multi-stimuli-responsive microgel actuators. <i>MRS Bulletin</i> , 2021, 46, 337-344.	1.7	6
31	Surface Molding of Microscale Hydrogels with Microactuation Functionality. <i>Angewandte Chemie</i> , 2018, 130, 1250-1254.	1.6	5
32	Programmable Droplet Transport Using Mechanically Adaptive Chemical Gradients with Anisotropic Microtopography. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	5
33	Adhesion of Morphologically Distinct Crystals to and Selective Release from Elastomeric Surfaces. <i>Chemistry of Materials</i> , 2016, 28, 8513-8522.	3.2	4
34	Spatiotemporal control of calcium carbonate nucleation using mechanical deformations of elastic surfaces. <i>Soft Matter</i> , 2020, 16, 6038-6043.	1.2	4
35	Crystallization at droplet interfaces for the fabrication of geometrically programmed synthetic magnetosomes. <i>Soft Matter</i> , 2020, 16, 5819-5826.	1.2	1