

Daniele Martella

List of Publications by Year in descending order

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50
papers

2,507
citations

257450

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docs citations

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times ranked

2579
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoresponsive Polymer-Based Biomimetic Contractile Units as Building Block for Artificial Muscles. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	5
2	Light-Powered Microrobots: Challenges and Opportunities for Hard and Soft Responsive Microswimmers. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000256.	6.1	64
3	Dithiols as Liquid Crystalline Building Blocks for Smart Polymers via Thiol-ene Click Chemistry. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1602-1609.	4.4	7
4	Light-Powered Microrobots: Challenges and Opportunities for Hard and Soft Responsive Microswimmers. <i>Advanced Intelligent Systems</i> , 2021, 3, 2170041.	6.1	6
5	Two-Photon Laser Writing of Soft Responsive Polymers via Temperature-Controlled Polymerization. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100090.	8.7	12
6	Cell instructive Liquid Crystalline Networks for myotube formation. <i>IScience</i> , 2021, 24, 103077.	4.1	8
7	Photonic artificial muscles: from micro robots to tissue engineering. <i>Faraday Discussions</i> , 2020, 223, 216-232.	3.2	19
8	Color Modulation in <i>Morpho</i> Butterfly Wings Using Liquid Crystalline Elastomers. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000035.	6.1	13
9	Self-Regulating Capabilities in Photonic Robotics. <i>Advanced Materials Technologies</i> , 2019, 4, 1800571.	5.8	57
10	Optical Investigation of Action Potential and Calcium Handling Maturation of hiPSC-Cardiomyocytes on Biomimetic Substrates. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3799.	4.1	27
11	Modulation of Optical Properties in Liquid Crystalline Networks across Different Length Scales. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26522-26527.	3.1	8
12	Opposite Self-Folding Behavior of Polymeric Photoresponsive Actuators Enabled by a Molecular Approach. <i>Polymers</i> , 2019, 11, 1644.	4.5	8
13	Polarization-dependent deformation in light responsive polymers doped by dichroic dyes. <i>Soft Matter</i> , 2019, 15, 1312-1318.	2.7	38
14	Multichannel remote polarization control enabled by nanostructured liquid crystalline networks. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	13
15	3D Printed Photoresponsive Materials for Photonics. <i>Advanced Optical Materials</i> , 2019, 7, 1900156.	7.3	41
16	Liquid Crystals: Liquid Crystal-Induced Myoblast Alignment (Adv. Healthcare Mater. 3/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970009.	7.6	7
17	Design of Biocompatible Liquid Cristal Elastomers Reproducing the Mechanical Properties of Human Cardiac Muscle. <i>Biophysical Journal</i> , 2019, 116, 264a.	0.5	0
18	Development of Light-Responsive Liquid Crystalline Elastomers to Assist Cardiac Contraction. <i>Circulation Research</i> , 2019, 124, e44-e54.	4.5	44

#	ARTICLE	IF	CITATIONS
19	Liquid Crystal-Induced Myoblast Alignment. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801489.	7.6	36
20	Self-Assembled Nanocrystals of Polycyclic Aromatic Hydrocarbons Show Photostable Single-Photon Emission. <i>ACS Nano</i> , 2018, 12, 4295-4303.	14.6	54
21	Frontispiece: Advances in Cell Scaffolds for Tissue Engineering: The Value of Liquid Crystalline Elastomers. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
22	Optically Driven Soft Micro Robotics. <i>Advanced Optical Materials</i> , 2018, 6, 1800207.	7.3	111
23	Three-Dimensional Photonic Circuits in Rigid and Soft Polymers Tunable by Light. <i>ACS Photonics</i> , 2018, 5, 3222-3230.	6.6	53
24	Advances in Cell Scaffolds for Tissue Engineering: The Value of Liquid Crystalline Elastomers. <i>Chemistry - A European Journal</i> , 2018, 24, 12206-12220.	3.3	44
25	Structured Optical Materials Controlled by Light. <i>Advanced Optical Materials</i> , 2018, 6, 1800167.	7.3	50
26	Beam Steering: Structured Optical Materials Controlled by Light (<i>Advanced Optical Materials</i> 15/2018). <i>Advanced Optical Materials</i> , 2018, 6, 1870059.	7.3	1
27	Light-fueled polymeric machines: multiple actions at the microscale. , 2018, , .		0
28	Light activated non-reciprocal motion in liquid crystalline networks by designed microactuator architecture. <i>RSC Advances</i> , 2017, 7, 19940-19947.	3.6	51
29	Photonic Microhand with Autonomous Action. <i>Advanced Materials</i> , 2017, 29, 1704047.	21.0	122
30	Liquid Crystalline Networks toward Regenerative Medicine and Tissue Repair. <i>Small</i> , 2017, 13, 1702677.	10.0	46
31	Beam steering by liquid crystal elastomer fibres. <i>Soft Matter</i> , 2017, 13, 8590-8596.	2.7	45
32	Influence of block copolymer feature size on reactive ion etching pattern transfer into silicon. <i>Nanotechnology</i> , 2017, 28, 404001.	2.6	8
33	Tissue Engineering: Liquid Crystalline Networks toward Regenerative Medicine and Tissue Repair (<i>Small</i> 46/2017). <i>Small</i> , 2017, 13, .	10.0	0
34	Microrobotics: Photonic Microhand with Autonomous Action (<i>Adv. Mater.</i> 42/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
35	Locomotion of light-driven soft microrobots through a hydrogel via local melting. , 2017, , .		3
36	Photonic arms, legs, and skin. , 2017, , .		1

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37	Photoresist Design for Elastomeric Light Tunable Photonic Devices. <i>Materials</i> , 2016, 9, 525.	2.9	36
38	Towards photo-induced swimming: actuation of liquid crystalline elastomer in water. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
39	Towards liquid crystalline elastomer optically tunable photonic microstructures. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
40	Soft continuous microrobots with multiple intrinsic degrees of freedom. , 2016, , .		2
41	Free-form Light Actuators — Fabrication and Control of Actuation in Microscopic Scale. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	0
42	Cycloadditions of Sugarâ€Derived Nitrones Targeting Polyhydroxylated Indolizidines. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 1588-1598.	2.4	27
43	Structured light enables biomimetic swimming and versatile locomotion of photoresponsive soft microrobots. <i>Nature Materials</i> , 2016, 15, 647-653.	27.5	757
44	Lightâ€Fueled Microscopic Walkers. <i>Advanced Materials</i> , 2015, 27, 3883-3887.	21.0	355
45	Artificial Muscle: Lightâ€Fueled Microscopic Walkers (Adv. Mater. 26/2015). <i>Advanced Materials</i> , 2015, 27, 3842-3842.	21.0	1
46	The first thiolâ€yne click chemistry approach for the preparation of liquid crystalline elastomers. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9003-9010.	5.5	37
47	Alignment engineering in liquid crystalline elastomers: Free-form microstructures with multiple functionalities. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	56
48	Highâ€Resolution 3D Direct Laser Writing for Liquidâ€Crystalline Elastomer Microstructures. <i>Advanced Materials</i> , 2014, 26, 2319-2322.	21.0	165
49	Synthesis and Glycosidase Inhibition Studies of 5â€Methylâ€Substituted Tetrahydroxyindolizidines and â€pyrrolizidines Related to Natural Hyacinthacines B. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 4047-4056.	2.4	31
50	Total Synthesis of (âˆ)-Uniflorine A. <i>Journal of Natural Products</i> , 2009, 72, 2058-2060.	3.0	32