Alessio Mondini

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3498203/publications.pdf

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53 2,167 22 45 papers citations h-index g-index

56 56 56 56 2926

times ranked

citing authors

docs citations

all docs

#	Article	IF	CITATIONS
1	Multisource energy conversion in plants with soft epicuticular coatings. Energy and Environmental Science, 2022, 15, 2545-2556.	30.8	11
2	Support localization strategy for growing robots aided by light perception inspired by climbing plants., 2021,,.		2
3	Sensorized Foam Actuator with Intrinsic Proprioception and Tunable Stiffness Behavior for Soft Robots. Advanced Intelligent Systems, 2021, 3, 2100022.	6.1	4
4	Plant-like hooked miniature machines for on-leaf sensing and delivery. Communications Materials, 2021, 2, .	6.9	16
5	Passive Morphological Adaptation for Obstacle Avoidance in a Self-Growing Robot Produced by Additive Manufacturing. Soft Robotics, 2020, 7, 85-94.	8.0	40
6	Climbing Plantâ€Inspired Micropatterned Devices for Reversible Attachment. Advanced Functional Materials, 2020, 30, 2003380.	14.9	23
7	Micropatterned Devices: Climbing Plantâ€Inspired Micropatterned Devices for Reversible Attachment (Adv. Funct. Mater. 38/2020). Advanced Functional Materials, 2020, 30, 2070256.	14.9	1
8	Enhanced In Vitro Magnetic Cell Targeting of Doxorubicin-Loaded Magnetic Liposomes for Localized Cancer Therapy. Nanomaterials, 2020, 10, 2104.	4.1	11
9	Pneumatic Quasi-Passive Actuation for Soft Assistive Lower Limbs Exoskeleton. Frontiers in Neurorobotics, 2020, 14, 31.	2.8	37
10	3D printed composites from heat extruded polycaprolactone/sodium alginate filaments and their heavy metal adsorption properties. Materials Chemistry Frontiers, 2020, 4, 2472-2483.	5.9	30
11	Living Plantâ∈Hybrid Generators for Multidirectional Wind Energy Conversion. Energy Technology, 2020, 8, 2000236.	3.8	31
12	A Soft Sensorized Foot Module to Understand Anisotropic Terrains During Soft Robot Locomotion. IEEE Robotics and Automation Letters, 2020, 5, 4055-4061.	5.1	4
13	A Vacuum Powered Soft Textile-Based Clutch. Actuators, 2019, 8, 47.	2.3	14
14	Octopusâ€Inspired Soft Arm with Suction Cups for Enhanced Grasping Tasks in Confined Environments. Advanced Intelligent Systems, 2019, 1, 1900041.	6.1	73
15	Characterization of the Growing From the Tip as Robot Locomotion Strategy. Frontiers in Robotics and Al, 2019, 6, 45.	3.2	11
16	Octopusâ€Inspired Soft Arm with Suction Cups for Enhanced Grasping Tasks in Confined Environments. Advanced Intelligent Systems, 2019, 1, 1970061.	6.1	6
17	A Wearable Sensory Textileâ€Based Clutch with High Blocking Force. Advanced Engineering Materials, 2019, 21, 1900886.	3.5	14
18	Antagonistic Pneumatic Actuators with Variable Stiffness for Soft Robotic Applications. , 2019, , .		11

#	Article	IF	CITATIONS
19	Preliminary Experimental Study on Variable Stiffness Structures Based on Textile Jamming for Wearable Robotics. Biosystems and Biorobotics, 2019, , 49-52.	0.3	5
20	Continuous Growth in Plant-Inspired Robots Through 3D Additive Manufacturing., 2018,,.		10
21	Energy Conversion at the Cuticle of Living Plants. Advanced Functional Materials, 2018, 28, 1806689.	14.9	49
22	Toward Growing Robots: A Historical Evolution from Cellular to Plant-Inspired Robotics. Frontiers in Robotics and Al, 2018, 5, 16.	3.2	51
23	Swarming Behavior Emerging from the Uptake–Kinetics Feedback Control in a Plant-Root-Inspired Robot. Applied Sciences (Switzerland), 2018, 8, 47.	2.5	13
24	A plant-inspired kinematic model for growing robots. , 2018, , .		9
25	Soft sucker shoe for anti-slippage application. , 2018, , .		2
26	An efficient soil penetration strategy for explorative robots inspired by plant root circumnutation movements. Bioinspiration and Biomimetics, 2018, 13, 015003.	2.9	33
27	A plant-inspired robot with soft differential bending capabilities. Bioinspiration and Biomimetics, 2017, 12, 015001.	2.9	60
28	Toward Self-Growing Soft Robots Inspired by Plant Roots and Based on Additive Manufacturing Technologies. Soft Robotics, 2017, 4, 211-223.	8.0	161
29	Towards ultra-responsive biodegradable polysaccharide humidity sensors. Materials Today Chemistry, 2017, 6, 1-12.	3.5	18
30	Integrated Simultaneous Detection of Tactile and Bending Cues for Soft Robotics. Soft Robotics, 2017, 4, 400-410.	8.0	34
31	SIMBA: Tendon-Driven Modular Continuum Arm with Soft Reconfigurable Gripper. Frontiers in Robotics and Al, 2017, 4, .	3.2	45
32	Soft Smart Garments for Lower Limb Joint Position Analysis. Sensors, 2017, 17, 2314.	3.8	75
33	Dry Adhesion of Artificial Gecko Setae Fabricated via Direct Laser Lithography. Lecture Notes in Computer Science, 2017, , 631-636.	1.3	6
34	Soft-Legged Wheel-Based Robot with Terrestrial Locomotion Abilities. Frontiers in Robotics and AI, 2016, 3, .	3.2	8
35	Circumnutations as a penetration strategy in a plant-root-inspired robot. , 2016, , .		33
36	Active Targeting of Sorafenib: Preparation, Characterization, and In Vitro Testing of Drug‣oaded Magnetic Solid Lipid Nanoparticles. Advanced Healthcare Materials, 2015, 4, 1681-1690.	7.6	81

#	Article	IF	Citations
37	Drug Targeting: Active Targeting of Sorafenib: Preparation, Characterization, and In Vitro Testing of Drug-Loaded Magnetic Solid Lipid Nanoparticles (Adv. Healthcare Mater. 11/2015). Advanced Healthcare Materials, 2015, 4, 1734-1734.	7.6	1
38	Toward a New Generation of Electrically Controllable Hygromorphic Soft Actuators. Advanced Materials, 2015, 27, 1668-1675.	21.0	267
39	Triboelectric smart machine elements and self-powered encoder. Nano Energy, 2015, 13, 92-102.	16.0	17
40	Flexible Threeâ€Axial Force Sensor for Soft and Highly Sensitive Artificial Touch. Advanced Materials, 2014, 26, 2659-2664.	21.0	383
41	Mapping multiple gas/odor sources in an uncontrolled indoor environment using a Bayesian occupancy grid mapping based method. Robotics and Autonomous Systems, 2011, 59, 988-1000.	5.1	57
42	A Miniaturized Mechatronic System Inspired by Plant Roots for Soil Exploration. IEEE/ASME Transactions on Mechatronics, 2011, 16, 201-212.	5.8	43
43	Flexible tag datalogger for food logistics. Sensors and Actuators A: Physical, 2010, 162, 316-323.	4.1	25
44	A Universal Intelligent System-on-Chip Based Sensor Interface. Sensors, 2010, 10, 7716-7747.	3.8	21
45	Flexible Tag Datalogger for Food Logistics. Procedia Chemistry, 2009, 1, 1215-1218.	0.7	13
46	SPIRAL: A novel biologically-inspired algorithm for gas/odor source localization in an indoor environment with no strong airflow. Robotics and Autonomous Systems, 2009, 57, 393-402.	5.1	97
47	Investigation of fabrication and encapsulation processes for a flexible tag microlab. Microsystem Technologies, 2008, 14, 527-534.	2.0	9
48	A preliminary study of a robotic probe for soil exploration inspired by plant root apexes., 2008,,.		3
49	Explorative Particle Swarm Optimization Method for Gas/Odor Source Localization in an Indoor Environment with no Strong Airflow. , 2007, , .		10
50	Investigation on a sensitive Au thin film deposited on different substrates: Physical analysis via FIB and chemical analysis via evaluation of Au sensitivity to HgO. Sensors and Actuators B: Chemical, 2007, 122, 475-483.	7.8	1
51	Design of a new real-time dosimeter to monitor personal exposure to elemental gaseous mercury. Sensors and Actuators B: Chemical, 2007, 123, 158-167.	7.8	21
52	Flexible tag microlab development: Gas sensors integration in RFID flexible tags for food logistic. Sensors and Actuators B: Chemical, 2007, 127, 2-7.	7.8	147
53	Model validation of a mercury sensor, based on the resistivity variation of a thin gold film. Sensors and Actuators B: Chemical, 2006, 114, 513-521.	7.8	11