

Ali Sadeghi

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,213
citations

471509

17
h-index

434195

31
g-index

51
all docs

51
docs citations

51
times ranked

1107
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Self-Growing Soft Robots Inspired by Plant Roots and Based on Additive Manufacturing Technologies. <i>Soft Robotics</i> , 2017, 4, 211-223.	8.0	161
2	A Novel Growing Device Inspired by Plant Root Soil Penetration Behaviors. <i>PLoS ONE</i> , 2014, 9, e90139.	2.5	117
3	Octopus-Inspired Soft Arm with Suction Cups for Enhanced Grasping Tasks in Confined Environments. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900041.	6.1	73
4	A plant-inspired robot with soft differential bending capabilities. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 015001.	2.9	60
5	Electrorheological Valves for Flexible Fluidic Actuators. <i>Soft Robotics</i> , 2016, 3, 34-41.	8.0	56
6	Toward Growing Robots: A Historical Evolution from Cellular to Plant-Inspired Robotics. <i>Frontiers in Robotics and AI</i> , 2018, 5, 16.	3.2	51
7	Energy Conversion at the Cuticle of Living Plants. <i>Advanced Functional Materials</i> , 2018, 28, 1806689.	14.9	49
8	Robotic mechanism for soil penetration inspired by plant root. , 2013, , .		45
9	Revealing bending and force in a soft body through a plant root inspired approach. <i>Scientific Reports</i> , 2015, 5, 8788.	3.3	45
10	SIMBA: Tendon-Driven Modular Continuum Arm with Soft Reconfigurable Gripper. <i>Frontiers in Robotics and AI</i> , 2017, 4, .	3.2	45
11	Innovative soft robots based on electro-rheological fluids. , 2012, , .		41
12	Passive Morphological Adaptation for Obstacle Avoidance in a Self-Growing Robot Produced by Additive Manufacturing. <i>Soft Robotics</i> , 2020, 7, 85-94.	8.0	40
13	Pneumatic Quasi-Passive Actuation for Soft Assistive Lower Limbs Exoskeleton. <i>Frontiers in Neurobotics</i> , 2020, 14, 31.	2.8	37
14	Circumnutations as a penetration strategy in a plant-root-inspired robot. , 2016, , .		33
15	An efficient soil penetration strategy for explorative robots inspired by plant root circumnutation movements. <i>Bioinspiration and Biomimetics</i> , 2018, 13, 015003.	2.9	33
16	Modular Continuum Manipulator: Analysis and Characterization of Its Basic Module. <i>Biomimetics</i> , 2018, 3, 3.	3.3	31
17	Analysis, simulation, and implementation of a human-inspired pole climbing robot. <i>Robotica</i> , 2012, 30, 279-287.	1.9	30
18	A Novel Soft Metal-Polymer Composite for Multidirectional Pressure Energy Harvesting. <i>Advanced Energy Materials</i> , 2014, 4, 1400024.	19.5	30

#	ARTICLE	IF	CITATIONS
19	Remotely Light-Powered Soft Fluidic Actuators Based on Plasmonic-Driven Phase Transitions in Elastic Constraint. <i>Advanced Materials</i> , 2019, 31, e1905671.	21.0	26
20	Triboelectric-based harvesting of gas flow energy and powerless sensing applications. <i>Applied Surface Science</i> , 2014, 323, 82-87.	6.1	25
21	The evolution of UT pole climbing robots. , 2010, , .		17
22	Triboelectric smart machine elements and self-powered encoder. <i>Nano Energy</i> , 2015, 13, 92-102.	16.0	17
23	Design and development of innovative adhesive suckers inspired by the tube feet of sea urchins. , 2012, , .		14
24	A Vacuum Powered Soft Textile-Based Clutch. <i>Actuators</i> , 2019, 8, 47.	2.3	14
25	A Wearable Sensory Textile-Based Clutch with High Blocking Force. <i>Advanced Engineering Materials</i> , 2019, 21, 1900886.	3.5	14
26	Swarming Behavior Emerging from the Uptake-Kinetics Feedback Control in a Plant-Root-Inspired Robot. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 47.	2.5	13
27	Characterization of the Growing From the Tip as Robot Locomotion Strategy. <i>Frontiers in Robotics and AI</i> , 2019, 6, 45.	3.2	11
28	Antagonistic Pneumatic Actuators with Variable Stiffness for Soft Robotic Applications. , 2019, , .		11
29	Plant Root Strategies for Robotic Soil Penetration. <i>Lecture Notes in Computer Science</i> , 2013, , 447-449.	1.3	11
30	Continuous Growth in Plant-Inspired Robots Through 3D Additive Manufacturing. , 2018, , .		10
31	A plant-inspired kinematic model for growing robots. , 2018, , .		9
32	Soft-Legged Wheel-Based Robot with Terrestrial Locomotion Abilities. <i>Frontiers in Robotics and AI</i> , 2016, 3, .	3.2	8
33	Octopus-Inspired Soft Arm with Suction Cups for Enhanced Grasping Tasks in Confined Environments. <i>Advanced Intelligent Systems</i> , 2019, 1, 1970061.	6.1	6
34	Preliminary Experimental Study on Variable Stiffness Structures Based on Textile Jamming for Wearable Robotics. <i>Biosystems and Biorobotics</i> , 2019, , 49-52.	0.3	5
35	A Soft Sensorized Foot Module to Understand Anisotropic Terrains During Soft Robot Locomotion. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 4055-4061.	5.1	4
36	Sensorized Foam Actuator with Intrinsic Proprioception and Tunable Stiffness Behavior for Soft Robots. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100022.	6.1	4

#	ARTICLE	IF	CITATIONS
37	A human-inspired pole climbing robot. , 2008, , .		2
38	Soft sucker shoe for anti-slippage application. , 2018, , .		2
39	INFORA: A Novel Inflatable Origami-based Actuator. , 2019, , .		2
40	Embodied Behavior of Plant Roots in Obstacle Avoidance. Lecture Notes in Computer Science, 2013, , 431-433.	1.3	2
41	Unveiling the kinematics of the avoidance response in maize (Zea mays) primary roots. Biologia (Poland), 2016, 71, 161-168.	1.5	1
42	Dynamic Obstacles Detection for Robotic Soil Explorations*. , 2019, , .		1
43	Natural Triboelectric Generators: Energy Conversion at the Cuticle of Living Plants (Adv. Funct.) Tj ETQq1 1 0.784314 14.9 BT /Overlock 10		1