

Sepe Terryn

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

905
citations

840585

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17
times ranked

763
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-healing soft pneumatic robots. <i>Science Robotics</i> , 2017, 2, .	9.9	359
2	A review on self-healing polymers for soft robotics. <i>Materials Today</i> , 2021, 47, 187-205.	8.3	150
3	Processing of Self-Healing Polymers for Soft Robotics. <i>Advanced Materials</i> , 2022, 34, e2104798.	11.1	80
4	Additive Manufacturing for Self-Healing Soft Robots. <i>Soft Robotics</i> , 2020, 7, 711-723.	4.6	54
5	A Pneumatic Artificial Muscle Manufactured Out of Self-Healing Polymers That Can Repair Macroscopic Damages. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 16-21.	3.3	39
6	Development of a self-healing soft pneumatic actuator: a first concept. <i>Bioinspiration and Biomimetics</i> , 2015, 10, 046007.	1.5	38
7	Self-Healing and High Interfacial Strength in Multi-Material Soft Pneumatic Robots via Reversible Diels-Alder Bonds. <i>Actuators</i> , 2020, 9, 34.	1.2	35
8	Room Temperature Self-Healing in Soft Pneumatic Robotics: Autonomous Self-Healing in a Diels-Alder Polymer Network. <i>IEEE Robotics and Automation Magazine</i> , 2020, 27, 44-55.	2.2	32
9	Toward Self-Healing Actuators: A Preliminary Concept. <i>IEEE Transactions on Robotics</i> , 2016, 32, 736-743.	7.3	24
10	Structure-Property Relationships of Self-Healing Polymer Networks Based on Reversible Diels-Alder Chemistry. <i>Macromolecules</i> , 2022, 55, 5497-5513.	2.2	19
11	A Multi-Material Self-Healing Soft Gripper. , 2019, , .		17
12	The Influence of the Furan and Maleimide Stoichiometry on the Thermoreversible Diels-Alder Network Polymerization. <i>Polymers</i> , 2021, 13, 2522.	2.0	16
13	A Healable Resistive Heater as a Stimuli-Providing System in Self-Healing Soft Robots. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 4574-4581.	3.3	11
14	Self-healing sensorized soft robots. , 2022, 1, 100003.		11
15	Investigation of self-healing compliant actuators for robotics. , 2015, , .		9
16	FEA-Based Inverse Kinematic Control: Hyperelastic Material Characterization of Self-Healing Soft Robots. <i>IEEE Robotics and Automation Magazine</i> , 2022, 29, 78-88.	2.2	9
17	Quasi-Static FEA Model for a Multi-Material Soft Pneumatic Actuator in SOFA. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 7391-7398.	3.3	2