

Hugo Rodrigue

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3046025/publications.pdf>

Version: 2024-02-01

51
papers

1,881
citations

257357

24
h-index

265120

42
g-index

51
all docs

51
docs citations

51
times ranked

1591
citing authors

#	ARTICLE	IF	CITATIONS
1	A Positive and Negative Pressure Soft Linear Brake for Wearable Applications. IEEE Transactions on Industrial Electronics, 2023, 70, 688-698.	5.2	6
2	Design and Control of Lightweight Bionic Arm Driven by Soft Twisted and Coiled Artificial Muscles. Soft Robotics, 2023, 10, 17-29.	4.6	2
3	Toward the Development of Large-Scale Inflatable Robotic Arms Using Hot Air Welding. Soft Robotics, 2023, 10, 88-96.	4.6	6
4	Armor-Based Stable Force Pneumatic Artificial Muscles for Steady Actuation Properties. Soft Robotics, 2022, 9, 413-424.	4.6	12
5	Towards the Development of Variable Elasticity Devices. IEEE Robotics and Automation Letters, 2022, 7, 2094-2101.	3.3	0
6	Hybrid Robotic Manipulator Using Sensorized Articulated Segment Joints With Soft Inflatable Rubber Bellows. IEEE Transactions on Industrial Electronics, 2022, 69, 10259-10269.	5.2	4
7	Simultaneous Positive and Negative Pressure Control Using Disturbance Observer Compensating Coupled Disturbance Dynamics. IEEE Robotics and Automation Letters, 2022, 7, 5763-5770.	3.3	2
8	Simple and Scalable Soft Actuation Through Coupled Inflatable Tubes. IEEE Access, 2022, , 1-1.	2.6	1
9	Proprioceptive Soft Pneumatic Gripper for Extreme Environments Using Hybrid Optical Fibers. IEEE Robotics and Automation Letters, 2021, 6, 8694-8701.	3.3	25
10	Preface for the Soft and Green Manufacturing and Applications. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 743-744.	2.7	1
11	Reconfigurable constriction-based soft actuation for decorative morphing flowers. Journal of Mechanical Science and Technology, 2021, 35, 3705-3712.	0.7	0
12	Shape-Adaptive Universal Soft Parallel Gripper for Delicate Grasping Using a Stiffness-Variable Composite Structure. IEEE Transactions on Industrial Electronics, 2021, 68, 12441-12451.	5.2	22
13	Print-and-Spray Electromechanical Metamaterials. Soft Robotics, 2021, , .	4.6	0
14	Expanding Pouch Motor Patterns for Programmable Soft Bending Actuation: Enabling Soft Robotic System Adaptations. IEEE Robotics and Automation Magazine, 2020, 27, 65-74.	2.2	28
15	A Novel Soft Bending Actuator Using Combined Positive and Negative Pressures. Frontiers in Bioengineering and Biotechnology, 2020, 8, 472.	2.0	22
16	Long Shape Memory Alloy Tendon-based Soft Robotic Actuators and Implementation as a Soft Gripper. Scientific Reports, 2019, 9, 11251.	1.6	111
17	Efficiency of Origami-Based Vacuum Pneumatic Artificial Muscle for Off-Grid Operation. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 789-797.	2.7	12
18	Inflatable L-shaped prisms as soft actuators for soft exogloves. Engineering Research Express, 2019, 1, 025009.	0.8	5

#	ARTICLE	IF	CITATIONS
19	Artificial musculoskeletal actuation module driven by twisted and coiled soft actuators. <i>Smart Materials and Structures</i> , 2019, 28, 125010.	1.8	14
20	Film-based anisotropic balloon inflatable bending actuator. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 4469-4476.	0.7	8
21	Jumping Tensegrity Robot Based on Torsionally Prestrained SMA Springs. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40793-40799.	4.0	31
22	Pleated Film-Based Soft Twisting Actuator. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019, 20, 1149-1158.	1.1	9
23	High-Precision Roller Supported by Active Magnetic Bearings. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4389.	1.3	3
24	Sliding Filament Joint Mechanism: Biomimetic Artificial Joint Mechanism for Artificial Skeletal Muscles. <i>Journal of Mechanisms and Robotics</i> , 2019, 11, .	1.5	6
25	Origami-Based Vacuum Pneumatic Artificial Muscles with Large Contraction Ratios. <i>Soft Robotics</i> , 2019, 6, 109-117.	4.6	117
26	Design of Paired Pouch Motors for Robotic Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1800414.	3.0	33
27	Application of SMA spring tendons for improved grasping performance. <i>Smart Materials and Structures</i> , 2019, 28, 035006.	1.8	17
28	Double Helix Twisted and Coiled Soft Actuator from Spandex and Nylon. <i>Advanced Engineering Materials</i> , 2018, 20, 1800536.	1.6	37
29	Manufacturing 2DOF Inflatable Joint Actuator by Pneumatic Control. <i>The Journal of Korea Robotics Society</i> , 2018, 13, 92-96.	0.2	1
30	Modular assembly of soft deployable structures and robots. <i>Materials Horizons</i> , 2017, 4, 367-376.	6.4	48
31	An Overview of Shape Memory Alloy-Coupled Actuators and Robots. <i>Soft Robotics</i> , 2017, 4, 3-15.	4.6	189
32	Curved shape memory alloy-based soft actuators and application to soft gripper. <i>Composite Structures</i> , 2017, 176, 398-406.	3.1	109
33	Kirigami/Origami-Based Soft Deployable Reflector for Optical Beam Steering. <i>Advanced Functional Materials</i> , 2017, 27, 1604214.	7.8	71
34	Biomimetic robotic joint mechanism driven by soft linear actuators. , 2017, , .		5
35	35â€‰Hz shape memory alloy actuator with bending-twisting mode. <i>Scientific Reports</i> , 2016, 6, 21118.	1.6	92
36	Turtle mimetic soft robot with two swimming gaits. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 036010.	1.5	71

#	ARTICLE	IF	CITATIONS
37	Deployable Soft Composite Structures. Scientific Reports, 2016, 6, 20869.	1.6	63
38	Soft composite hinge actuator and application to compliant robotic gripper. Composites Part B: Engineering, 2016, 98, 397-405.	5.9	84
39	Effect of twist morphing wing segment on aerodynamic performance of UAV. Journal of Mechanical Science and Technology, 2016, 30, 229-236.	0.7	41
40	Shape memory alloy/glass fiber woven composite for soft morphing winglets of unmanned aerial vehicles. Composite Structures, 2016, 140, 202-212.	3.1	61
41	Comparison of mold designs for SMA-based twisting soft actuator. Sensors and Actuators A: Physical, 2016, 237, 96-106.	2.0	26
42	Design and development of bio-mimetic soft robotic hand with shape memory alloy. , 2015, , .		10
43	Fabrication of wrist-like SMA-based actuator by double smart soft composite casting. Smart Materials and Structures, 2015, 24, 125003.	1.8	59
44	A shape memory alloy-based soft morphing actuator capable of pure twisting motion. Journal of Intelligent Material Systems and Structures, 2015, 26, 1071-1078.	1.4	36
45	SMA-based smart soft composite structure capable of multiple modes of actuation. Composites Part B: Engineering, 2015, 82, 152-158.	5.9	61
46	A smart soft actuator using a single shape memory alloy for twisting actuation. Smart Materials and Structures, 2015, 24, 125033.	1.8	51
47	3D soft lithography: A fabrication process for thermocurable polymers. Journal of Materials Processing Technology, 2015, 217, 302-309.	3.1	25
48	Smart Phone Robot Made of Smart Soft Composite (SSC). Composites Research, 2015, 28, 52-57.	0.1	16
49	Locomotion of inchworm-inspired robot made of smart soft composite (SSC). Bioinspiration and Biomimetics, 2014, 9, 046006.	1.5	181
50	Cross-shaped twisting structure using SMA-based smart soft composite. International Journal of Precision Engineering and Manufacturing - Green Technology, 2014, 1, 153-156.	2.7	46
51	Design of a Novel Sensing Method for a Pneumatic Artificial Muscle Actuator-Driven 2-Degrees of Freedom Parallel Joint. Soft Robotics, 0, , .	4.6	1