

Hritwick Banerjee

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

992
citations

687363

13
h-index

752698

20
g-index

29
all docs

29
docs citations

29
times ranked

1134
citing authors

#	ARTICLE	IF	CITATIONS
1	Wearable and Stretchable Strain Sensors: Materials, Sensing Mechanisms, and Applications. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000039.	6.1	327
2	Hydrogel Actuators and Sensors for Biomedical Soft Robots: Brief Overview with Impending Challenges. <i>Biomimetics</i> , 2018, 3, 15.	3.3	164
3	Deep Reinforcement Learning for Soft, Flexible Robots: Brief Review with Impending Challenges. <i>Robotics</i> , 2019, 8, 4.	3.5	73
4	Optimizing Double-Network Hydrogel for Biomedical Soft Robots. <i>Soft Robotics</i> , 2017, 4, 191-201.	8.0	59
5	Single-Motor Controlled Tendon-Driven Peristaltic Soft Origami Robot. <i>Journal of Mechanisms and Robotics</i> , 2018, 10, .	2.2	50
6	Stretchable and Sensitive Silver Nanowire-Hydrogel Strain Sensors for Proprioceptive Actuation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37816-37829.	8.0	41
7	Experimental characterization of a dielectric elastomer fluid pump and optimizing performance via composite materials. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 3054-3065.	2.5	34
8	SOFT ROBOTICS WITH COMPLIANCE AND ADAPTATION FOR BIOMEDICAL APPLICATIONS AND FORTHCOMING CHALLENGES. <i>International Journal of Robotics and Automation</i> , 2018, 33, .	0.1	34
9	Modeling and Control of a Soft Robotic Fish with Integrated Soft Sensing. <i>Advanced Intelligent Systems</i> , 2023, 5, 2000244.	6.1	29
10	Origami-Layer-Jamming Deployable Surgical Retractor With Variable Stiffness and Tactile Sensing. <i>Journal of Mechanisms and Robotics</i> , 2020, 12, .	2.2	29
11	Hydrogel-matrix encapsulated Nitinol actuation with self-cooling mechanism. <i>RSC Advances</i> , 2019, 9, 34244-34255.	3.6	27
12	Electromagnetically Enhanced Soft and Flexible Bend Sensor: A Quantitative Analysis With Different Cores. <i>IEEE Sensors Journal</i> , 2018, 18, 3580-3589.	4.7	23
13	The Demographic Diversity of Food Intake and Prevalence of Kidney Stone Diseases in the Indian Continent. <i>Foods</i> , 2019, 8, 37.	4.3	16
14	Hydrogel-Shielded Soft Tactile Sensor for Biocompatible Drug Delivery Monitoring. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2019, 13, .	0.7	16
15	Preliminary Design and Performance Test of Tendon-Driven Origami-Inspired Soft Peristaltic Robot. , 2018, , .		12
16	Compliance, mass distribution and contact forces in cursorial and scansorial locomotion with biorobotic physical models. <i>Advanced Robotics</i> , 2021, 35, 437-449.	1.8	12
17	OrumBot: Origami-Based Deformable Robot Inspired by an Umbrella Structure. , 2018, , .		9
18	Highly Stretchable Flame-Retardant Skin for Soft Robotics with Hydrogel-“Montmorillonite-Based Translucent Matrix. <i>Soft Robotics</i> , 2022, 9, 98-118.	8.0	9

#	ARTICLE	IF	CITATIONS
19	Strong, Ultrastretchable Hydrogel-Based Multilayered Soft Actuator Composites Enhancing Biologically Inspired Pumping Systems. <i>Advanced Engineering Materials</i> , 2021, 23, 2100121.	3.5	9
20	Fabrication and Initial Cadaveric Trials of Bi-directional Soft Hydrogel Robotic Benders Aiming for Biocompatible Robot-Tissue Interactions. , 2018, , .		6
21	Frequency-induced morphology alterations in microconfined biological cells. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 819-835.	2.8	4
22	Thermo-Responsive Hydrogel-Based Soft Valves with Annular Actuation Calibration and Circumferential Gripping. <i>Bioengineering</i> , 2021, 8, 127.	3.5	3
23	OmniFlex: omnidirectional flexible hand-held endoscopic manipulator with spheroidal joint. , 2020, , 473-489.		0
24	Strong, Ultrastretchable Hydrogel-Based Multilayered Soft Actuator Composites Enhancing Biologically Inspired Pumping Systems. <i>Advanced Engineering Materials</i> , 2021, 23, 2170038.	3.5	0