

# Hritwick Banerjee

## List of Publications by Year in descending order

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24  
papers

992  
citations

687363

13  
h-index

752698

20  
g-index

29  
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29  
docs citations

29  
times ranked

1134  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and Control of a Soft Robotic Fish with Integrated Soft Sensing. <i>Advanced Intelligent Systems</i> , 2023, 5, 2000244.	6.1	29
2	Highly Stretchable Flame-Retardant Skin for Soft Robotics with Hydrogel- $\alpha$ -Montmorillonite-Based Translucent Matrix. <i>Soft Robotics</i> , 2022, 9, 98-118.	8.0	9
3	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
4	Stretchable and Sensitive Silver Nanowire-Hydrogel Strain Sensors for Proprioceptive Actuation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 37816-37829.	8.0	41
5	Strong, Ultrastretchable Hydrogel-Based Multilayered Soft Actuator Composites Enhancing Biologically Inspired Pumping Systems. <i>Advanced Engineering Materials</i> , 2021, 23, 2100121.	3.5	9
6	Thermo-Responsive Hydrogel-Based Soft Valves with Annular Actuation Calibration and Circumferential Gripping. <i>Bioengineering</i> , 2021, 8, 127.	3.5	3
7	Strong, Ultrastretchable Hydrogel-Based Multilayered Soft Actuator Composites Enhancing Biologically Inspired Pumping Systems. <i>Advanced Engineering Materials</i> , 2021, 23, 2170038.	3.5	0
8	Wearable and Stretchable Strain Sensors: Materials, Sensing Mechanisms, and Applications. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000039.	6.1	327
9	OmniFlex: omnidirectional flexible hand-held endoscopic manipulator with spheroidal joint. , 2020, , 473-489.		0
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	Deep Reinforcement Learning for Soft, Flexible Robots: Brief Review with Impending Challenges. <i>Robotics</i> , 2019, 8, 4.	3.5	73
12	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
13	Hydrogel-matrix encapsulated Nitinol actuation with self-cooling mechanism. <i>RSC Advances</i> , 2019, 9, 34244-34255.	3.6	27
14	Frequency-induced morphology alterations in microconfined biological cells. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 819-835.	2.8	4
15	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
16	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
17	OrumBot: Origami-Based Deformable Robot Inspired by an Umbrella Structure. , 2018, , .		9
18	Fabrication and Initial Cadaveric Trials of Bi-directional Soft Hydrogel Robotic Benders Aiming for Biocompatible Robot-Tissue Interactions. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
19	Preliminary Design and Performance Test of Tendon-Driven Origami-Inspired Soft Peristaltic Robot. , 2018, , .		12
20	Single-Motor Controlled Tendon-Driven Peristaltic Soft Origami Robot. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	50
21	Hydrogel Actuators and Sensors for Biomedical Soft Robots: Brief Overview with Impending Challenges. Biomimetics, 2018, 3, 15.	3.3	164
22	SOFT ROBOTICS WITH COMPLIANCE AND ADAPTATION FOR BIOMEDICAL APPLICATIONS AND FORTHCOMING CHALLENGES. International Journal of Robotics and Automation, 2018, 33, .	0.1	34
23	Optimizing Double-Network Hydrogel for Biomedical Soft Robots. Soft Robotics, 2017, 4, 191-201.	8.0	59
24	Experimental characterization of a dielectric elastomer fluid pump and optimizing performance via composite materials. Journal of Intelligent Material Systems and Structures, 2017, 28, 3054-3065.	2.5	34