

# Shantonu Biswas

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

559  
citations

759233

12  
h-index

752698

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

610  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft, Wearable Robotics and Haptics: Technologies, Trends, and Emerging Applications. Proceedings of the IEEE, 2022, 110, 246-272.	21.3	40
2	Efficient Fabrication of Organic Electrochemical Transistors via Wet Chemical Processing. ACS Applied Materials & Interfaces, 2022, 14, 12469-12478.	8.0	8
3	A Multimodal, Enveloping Soft Gripper: Shape Conformation, Bioinspired Adhesion, and Expansion-Driven Suction. IEEE Transactions on Robotics, 2021, 37, 350-362.	10.3	71
4	Haptic Perception, Mechanics, and Material Technologies for Virtual Reality. Advanced Functional Materials, 2021, 31, 2008186.	14.9	27
5	Integrated Soft Optoelectronics for Wearable Health Monitoring. Advanced Materials Technologies, 2020, 5, 2000347.	5.8	20
6	Integrated multilayer stretchable printed circuit boards paving the way for deformable active matrix. Nature Communications, 2019, 10, 4909.	12.8	59
7	Fluidic Self-Assembly on Electroplated Multilayer Solder Bumps with Tailored Transformation Imprinted Melting Points. Scientific Reports, 2019, 9, 11325.	3.3	11
8	Emerging Material Technologies for Haptics. Advanced Materials Technologies, 2019, 4, 1900042.	5.8	91
9	Corona assisted gallium oxide nanowire growth on silicon carbide. Journal of Crystal Growth, 2019, 509, 107-111.	1.5	3
10	Metamorphic Stretchable Touchpad. Advanced Materials Technologies, 2019, 4, 1800446.	5.8	4
11	Core-Shell Transformation-Imprinted Solder Bumps Enabling Low-Temperature Fluidic Self-Assembly and Self-Alignment of Chips and High Melting Point Interconnects. ACS Applied Materials & Interfaces, 2018, 10, 40608-40613.	8.0	13
12	Localized collection of airborne biological hazards for environmental monitoring. Sensors and Actuators B: Chemical, 2018, 273, 906-915.	7.8	3
13	Stress-adaptive meander track for stretchable electronics. Flexible and Printed Electronics, 2018, 3, 032001.	2.7	11
14	Metamorphic hemispherical microphone array for three-dimensional acoustics. Applied Physics Letters, 2017, 111, .	3.3	4
15	3D Metamorphic Stretchable Microphone Arrays. Advanced Materials Technologies, 2017, 2, 1700131.	5.8	13
16	Surface Tension Directed Fluidic Self-Assembly of Semiconductor Chips across Length Scales and Material Boundaries. Micromachines, 2016, 7, 54.	2.9	21
17	Deformable printed circuit boards that enable metamorphic electronics. NPG Asia Materials, 2016, 8, e336-e336.	7.9	18
18	Automated Reel-to-Reel Fluidic Self-Assembly for the Production of Solid State Lighting Modules. Materials Research Society Symposia Proceedings, 2015, 1761, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
19	Millimeter Thin and Rubber-Like Solid-State Lighting Modules Fabricated Using Roll-to-Roll Fluidic Self-Assembly and Lamination. <i>Advanced Materials</i> , 2015, 27, 3661-3668.	21.0	28
20	Approaching Roll-to-Roll Fluidic Self-Assembly: Relevant Parameters, Machine Design, and Applications. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 1928-1937.	2.5	17
21	A First Implementation of an Automated Reel-to-Reel Fluidic Self-Assembly Machine. <i>Advanced Materials</i> , 2014, 26, 5942-5949.	21.0	97