Shantonu Biswas

List of Publications by Year
in descending order

		759233	752698
21	559	12	20
papers	citations	h-index	g-index

21	21	21	610
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A First Implementation of an Automated Reelâ€toâ€Reel Fluidic Selfâ€Assembly Machine. Advanced Materials, 2014, 26, 5942-5949.	21.0	97
2	Emerging Material Technologies for Haptics. Advanced Materials Technologies, 2019, 4, 1900042.	5.8	91
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	Integrated multilayer stretchable printed circuit boards paving the way for deformable active matrix. Nature Communications, 2019, 10, 4909.	12.8	59
5	Soft, Wearable Robotics and Haptics: Technologies, Trends, and Emerging Applications. Proceedings of the IEEE, 2022, 110, 246-272.	21.3	40
6	Millimeter Thin and Rubberâ€Like Solidâ€State Lighting Modules Fabricated Using Rollâ€toâ€Roll Fluidic Selfâ€Assembly and Lamination. Advanced Materials, 2015, 27, 3661-3668.	21.0	28
7	Haptic Perception, Mechanics, and Material Technologies for Virtual Reality. Advanced Functional Materials, 2021, 31, 2008186.	14.9	27
8	Surface Tension Directed Fluidic Self-Assembly of Semiconductor Chips across Length Scales and Material Boundaries. Micromachines, 2016, 7, 54.	2.9	21
9	Integrated Soft Optoelectronics for Wearable Health Monitoring. Advanced Materials Technologies, 2020, 5, 2000347.	5.8	20
10	Deformable printed circuit boards that enable metamorphic electronics. NPG Asia Materials, 2016, 8, e336-e336.	7.9	18
11	Approaching Roll-to-Roll Fluidic Self-Assembly: Relevant Parameters, Machine Design, and Applications. Journal of Microelectromechanical Systems, 2015, 24, 1928-1937.	2.5	17
12	3D Metamorphic Stretchable Microphone Arrays. Advanced Materials Technologies, 2017, 2, 1700131.	5.8	13
13	Coreâ€“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
14	Stress-adaptive meander track for stretchable electronics. Flexible and Printed Electronics, 2018, 3, 032001.	2.7	11
15	Fluidic Self-Assembly on Electroplated Multilayer Solder Bumps with Tailored Transformation Imprinted Melting Points. Scientific Reports, 2019, 9, 11325.	3.3	11
16	Efficient Fabrication of Organic Electrochemical Transistors via Wet Chemical Processing. ACS Applied Materials & Interfaces, 2022, 14, 12469-12478.	8.0	8
17	Metamorphic hemispherical microphone array for three-dimensional acoustics. Applied Physics Letters, 2017, 111, .	3.3	4
18	Metamorphic Stretchable Touchpad. Advanced Materials Technologies, 2019, 4, 1800446.	5.8	4

#	Article	IF	Citations
19	Localized collection of airborne biological hazards for environmental monitoring. Sensors and Actuators B: Chemical, 2018, 273, 906-915.	7.8	3
20	Corona assisted gallium oxide nanowire growth on silicon carbide. Journal of Crystal Growth, 2019, 509, 107-111.	1.5	3
21	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