Ryan L Truby

List of Publications by Year
in descending order

22 papers	8,160 citations	471509 17 h-index	677142 22 g-index
23 all docs	23 docs citations	23 times ranked	11212 citing authors

#	Article	IF	Citations
1	3D Bioprinting of Vascularized, Heterogeneous Cellâ€Laden Tissue Constructs. Advanced Materials, 2014, 26, 3124-3130.	21.0	1,686
2	An integrated design and fabrication strategy for entirely soft, autonomous robots. Nature, 2016, 536, 451-455.	27.8	1,557
3	Embedded 3D Printing of Strain Sensors within Highly Stretchable Elastomers. Advanced Materials, 2014, 26, 6307-6312.	21.0	1,314
4	Printing soft matter in three dimensions. Nature, 2016, 540, 371-378.	27.8	1,134
5	Biomanufacturing of organ-specific tissues with high cellular density and embedded vascular channels. Science Advances, 2019, 5, eaaw2459.	10.3	563
6	3D Printing of Liquid Crystal Elastomeric Actuators with Spatially Programed Nematic Order. Advanced Materials, 2018, 30, 1706164.	21.0	467
7	Soft Somatosensitive Actuators via Embedded 3D Printing. Advanced Materials, 2018, 30, e1706383.	21.0	398
8	Shape-shifting structured lattices via multimaterial 4D printing. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20856-20862.	7.1	257
9	Silver Nanoplate Contrast Agents for in Vivo Molecular Photoacoustic Imaging. ACS Nano, 2012, 6, 641-650.	14.6	212
10	Viscoplastic Matrix Materials for Embedded 3D Printing. ACS Applied Materials & Interfaces, 2018, 10, 23353-23361.	8.0	167
11	Distributed Proprioception of 3D Configuration in Soft, Sensorized Robots via Deep Learning. IEEE Robotics and Automation Letters, 2020, 5, 3299-3306.	5.1	104
12	In vivo pulsed magneto-motive ultrasound imaging using high-performance magnetoactive contrast nanoagents. Nanoscale, 2013, 5, 11179.	5.6	48
13	Soft Robotic Fingers with Embedded Ionogel Sensors and Discrete Actuation Modes for Somatosensitive Manipulation. , 2019, , .		47
14	Dataâ€“Driven Disturbance Observers for Estimating External Forces on Soft Robots. IEEE Robotics and Automation Letters, 2020, 5, 5717-5724.	5.1	42
15	Ligand-Mediated Self-Assembly of Hybrid Plasmonic and Superparamagnetic Nanostructures. Langmuir, 2013, 29, 2465-2470.	3.5	29
16	Bioprinting: 3D Bioprinting of Vascularized, Heterogeneous Cellâ€Laden Tissue Constructs (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10	21.0	26
17	Contrast-enhanced magneto-photo-acoustic imaging in vivo using dual-contrast nanoparticles. Photoacoustics, 2014, 2, 55-62.	7.8	22
18	A Recipe for Electrically-Driven Soft Robots via 3D Printed Handed Shearing Auxetics. IEEE Robotics and Automation Letters, 2021, 6, 795-802.	5.1	18

#	Article	IF	Citations
19	Designing Soft Robots as Robotic Materials. Accounts of Materials Research, 2021, 2, 854-857.	11.7	18
20	Integrating chemical fuels and artificial muscles for untethered microrobots. Science Robotics, 2020, 5, .	17.6	17
21	3D Printing: Embedded 3D Printing of Strain Sensors within Highly Stretchable Elastomers (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock 1	21.0	15
22	Soft Robotics: Soft Somatosensitive Actuators via Embedded 3D Printing (Adv. Mater. 15/2018). Advanced Materials, 2018, 30, 1870106.	21.0	12