

# Ying-Zhong Tian

## List of Publications by Year in descending order

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44  
papers

958  
citations

759233

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44  
docs citations

44  
times ranked

669  
citing authors

#	ARTICLE	IF	CITATIONS
1	Triboelectric nanogenerator sensors for soft robotics aiming at digital twin applications. Nature Communications, 2020, 11, 5381.	12.8	363
2	Wearable Triboelectric Sensors Enabled Gait Analysis and Waist Motion Capture for IoT-Based Smart Healthcare Applications. Advanced Science, 2022, 9, e2103694.	11.2	143
3	Self-sustainable flow-velocity detection via electromagnetic/triboelectric hybrid generator aiming at IoT-based environment monitoring. Nano Energy, 2021, 90, 106501.	16.0	39
4	Origami-Inspired Soft Actuators for Stimulus Perception and Crawling Robot Applications. IEEE Transactions on Robotics, 2022, 38, 748-764.	10.3	39
5	A Free-Piston Linear Generator Control Strategy for Improving Output Power. Energies, 2018, 11, 135.	3.1	38
6	Stiffness-Tunable Soft Gripper with Soft-Rigid Hybrid Actuation for Versatile Manipulations. Soft Robotics, 2022, 9, 1108-1119.	8.0	27
7	Deep learning-based high-accuracy quantitation for lumbar intervertebral disc degeneration from MRI. Nature Communications, 2022, 13, 841.	12.8	24
8	Automatic Identification of Multi-Type Weld Seam Based on Vision Sensor With Silhouette-Mapping. IEEE Sensors Journal, 2021, 21, 5402-5412.	4.7	21
9	Design and Analysis of a Square-Shaped Continuum Robot With Better Grasping Ability. IEEE Access, 2019, 7, 57151-57162.	4.2	19
10	Thermally Reduced Graphene Oxide/Carbon Nanotube Composite Films for Thermal Packaging Applications. Materials, 2020, 13, 317.	2.9	19
11	Three-dimensional surface microtopography recovery from a multifocus image sequence using an omnidirectional modified Laplacian operator with adaptive window size. Applied Optics, 2017, 56, 6300.	1.8	18
12	Kinematic Analysis of Continuum Robot Consisted of Driven Flexible Rods. Mathematical Problems in Engineering, 2016, 2016, 1-7.	1.1	16
13	Robust identification of weld seam based on region of interest operation. Advances in Manufacturing, 2020, 8, 473-485.	6.1	14
14	Intensity-Assisted ICP for Fast Registration of 2D-LIDAR. Sensors, 2019, 19, 2124.	3.8	12
15	Research on layout and operational pose optimization of robot grinding system based on optimal stiffness performance. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2017, 11, JAMDSM0022-JAMDSM0022.	0.7	11
16	Inhomogeneous microstructure and fatigue crack propagation of thick-section high strength steel joint welded using double-sided hybrid fiber laser-arc welding. Optics and Laser Technology, 2021, 134, 106668.	4.6	11
17	Improving a Wall-Following Robot Performance with a PID-Genetic Algorithm Controller. , 2018, , .		10
18	An AEKF-SLAM Algorithm with Recursive Noise Statistic Based on MLE and EM. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 97, 339-355.	3.4	9

#	ARTICLE	IF	CITATIONS
19	A Universal Self-Adaption Workspace Mapping Method for Human-Robot Interaction Using Kinect Sensor Data. <i>IEEE Sensors Journal</i> , 2020, 20, 7918-7928.	4.7	9
20	Two Actuation Methods for a Complete Morphing System Composed of a VGTM and a Compliant Parallel Mechanism. <i>Journal of Mechanisms and Robotics</i> , 2021, 13, .	2.2	9
21	A novel stable control strategy of single cylinder free-piston linear generator. , 2017, , .		8
22	Chemical Vapor Deposition of Vertically Aligned Carbon Nanotube Arrays: Critical Effects of Oxide Buffer Layers. <i>Nanoscale Research Letters</i> , 2019, 14, 106.	5.7	8
23	An improved biogeography/complex algorithm based on decomposition for many-objective optimization. <i>International Journal of Machine Learning and Cybernetics</i> , 2019, 10, 1961-1977.	3.6	7
24	A Novel Mobile Robot Navigation Method Based on Hand-Drawn Paths. <i>IEEE Sensors Journal</i> , 2020, 20, 11660-11673.	4.7	7
25	Design and Analysis of a Multisegment Shape Morphing Mechanism. <i>Journal of Mechanisms and Robotics</i> , 2021, 13, .	2.2	7
26	Direct growth of vertically well-aligned carbon nanotube arrays on atomic layer deposition of ZnO films. <i>Chemical Physics Letters</i> , 2021, 773, 138602.	2.6	7
27	Research on the mechanism of variable stiffness of the twisted and coiled polymer actuator during saturated contraction. <i>Smart Materials and Structures</i> , 2020, 29, 065014.	3.5	7
28	Multifocus Image Fusion in Q-Shift DTCWT Domain Using Various Fusion Rules. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-12.	1.1	6
29	Stiffness modeling and analysis of a multiple coordinated robot system. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 4265-4276.	3.0	6
30	An ASVSF-SLAM Algorithm with Time-Varying Noise Statistics Based on MAP Creation and Weighted Exponent. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-17.	1.1	6
31	Investigation of Guidewire Deformation in Blood Vessels Based on an SQP Algorithm. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 280.	2.5	6
32	Design and analysis of a transformable spherical robot for multi-mode locomotion. , 2017, , .		5
33	Atomic Layer Deposition of Buffer Layers for the Growth of Vertically Aligned Carbon Nanotube Arrays. <i>Nanoscale Research Letters</i> , 2019, 14, 119.	5.7	4
34	Atomic Layer Deposition of Inorganic Films for the Synthesis of Vertically Aligned Carbon Nanotube Arrays and Their Hybrids. <i>Coatings</i> , 2019, 9, 806.	2.6	4
35	Feature extraction method based on 2.5-dimensions lidar platform for indoor mobile robots localization. , 2017, , .		3
36	A robust and accurate SLAM algorithm for omni-directional mobile robots based on a novel 2.5D lidar device. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
37	Research on Shape Perception of the Soft Gripper Based on Triboelectric Nanogenerator. , 2019, , .		3
38	Design and Analysis of a Stiffness-Enhanced 3-PPS Parallel Mechanism for Fault-Tolerant Underwater Vectored Thrusters. Machines, 2022, 10, 88.	2.2	3
39	Research on Modeling and Analysis of Generative Conversational System Based on Optimal Joint Structural and Linguistic Model. Sensors, 2019, 19, 1675.	3.8	2
40	Research on a Tubular Climbing Robot Induced by Tri-tube Soft Actuators. , 2019, , .		2
41	Research on 3D Surface Micro Topography Reconstruction and Mosaic from Multifocus Microscopic Image Sequences. , 2018, , .		1
42	Artificial Muscles as Actuators in Symmetrical Structure. , 2018, , .		1
43	Robust Visual Tracking Based on Fusional Multi-Correlation-Filters with a High-Confidence Judgement Mechanism. Applied Sciences (Switzerland), 2020, 10, 2151.	2.5	1
44	Dynamics Analysis of a Novel Underwater Vectored Thruster Based on 3-PPS Parallel Mechanism. , 2021, , .		0