Ying-Zhong Tian

List of Publications by Year
in descending order

44 papers	958 citations

759233

12
h-index

477307

29
g-index

44 all docs	44 docs citations

44
times ranked

669
citing authors

#	Article	IF	Citations
1	Origami-Inspired Soft Actuators for Stimulus Perception and Crawling Robot Applications. IEEE Transactions on Robotics, 2022, 38, 748-764.	10.3	39
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	Design and Analysis of a Stiffness-Enhanced 3-PPS Parallel Mechanism for Fault-Tolerant Underwater Vectored Thrusters. Machines, 2022, 10, 88.	2.2	3
4	Deep learning-based high-accuracy quantitation for lumbar intervertebral disc degeneration from MRI. Nature Communications, 2022, 13, 841.	12.8	24
5	Stiffness-Tunable Soft Gripper with Soft-Rigid Hybrid Actuation for Versatile Manipulations. Soft Robotics, 2022, 9, 1108-1119.	8.0	27
6	Automatic Identification of Multi-Type Weld Seam Based on Vision Sensor With Silhouette-Mapping. IEEE Sensors Journal, 2021, 21, 5402-5412.	4.7	21
7	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
8	Design and Analysis of a Multisegment Shape Morphing Mechanism. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	7
9	Two Actuation Methods for a Complete Morphing System Composed of a VGTM and a Compliant Parallel Mechanism. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	9
10	Direct growth of vertically well-aligned carbon nanotube arrays on atomic layer deposition of ZnO films. Chemical Physics Letters, 2021, 773, 138602.	2.6	7
11	Self-sustainable flow-velocity detection via electromagnetic/triboelectric hybrid generator aiming at IoT-based environment monitoring. Nano Energy, 2021, 90, 106501.	16.0	39
12	Dynamics Analysis of a Novel Underwater Vectored Thruster Based on 3-PPS Parallel Mechanism. , 2021, , .		0
13	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
14	Robust identification of weld seam based on region of interest operation. Advances in Manufacturing, 2020, 8, 473-485.	6.1	14
15	Triboelectric nanogenerator sensors for soft robotics aiming at digital twin applications. Nature Communications, 2020, 11, 5381.	12.8	363
16	Robust Visual Tracking Based on Fusional Multi-Correlation-Filters with a High-Confidence Judgement Mechanism. Applied Sciences (Switzerland), 2020, 10, 2151.	2.5	1
17	A Novel Mobile Robot Navigation Method Based on Hand-Drawn Paths. IEEE Sensors Journal, 2020, 20, 11660-11673.	4.7	7
18	A Universal Self-Adaption Workspace Mapping Method for Human‐Robot Interaction Using Kinect Sensor Data. IEEE Sensors Journal, 2020, 20, 7918-7928.	4.7	9

#	Article	IF	Citations
19	Thermally Reduced Graphene Oxide/Carbon Nanotube Composite Films for Thermal Packaging Applications. Materials, 2020, 13, 317.	2.9	19
20	Research on the mechanism of variable stiffness of the twisted and coiled polymer actuator during saturated contraction. Smart Materials and Structures, 2020, 29, 065014.	3.5	7
21	An ASVSF-SLAM Algorithm with Time-Varying Noise Statistics Based on MAP Creation and Weighted Exponent. Mathematical Problems in Engineering, 2019, 2019, 1-17.	1.1	6
22	Chemical Vapor Deposition of Vertically Aligned Carbon Nanotube Arrays: Critical Effects of Oxide Buffer Layers. Nanoscale Research Letters, 2019, 14, 106.	5.7	8
23	Atomic Layer Deposition of Buffer Layers for the Growth of Vertically Aligned Carbon Nanotube Arrays. Nanoscale Research Letters, 2019, 14, 119.	5.7	4
24	Design and Analysis of a Square-Shaped Continuum Robot With Better Grasping Ability. IEEE Access, 2019, 7, 57151-57162.	4.2	19
25	Research on Modeling and Analysis of Generative Conversational System Based on Optimal Joint Structural and Linguistic Model. Sensors, 2019, 19, 1675.	3.8	2
26	Intensity-Assisted ICP for Fast Registration of 2D-LIDAR. Sensors, 2019, 19, 2124.	3.8	12
27	Investigation of Guidewire Deformation in Blood Vessels Based on an SQP Algorithm. Applied Sciences (Switzerland), 2019, 9, 280.	2.5	6
28	Research on a Tubular Climbing Robot Induced by Tri-tube Soft Actuators. , 2019, , .		2
29	Research on Shape Perception of the Soft Gripper Based on Triboelectric Nanogenerator. , 2019, , .		3
30	Atomic Layer Deposition of Inorganic Films for the Synthesis of Vertically Aligned Carbon Nanotube Arrays and Their Hybrids. Coatings, 2019, 9, 806.	2.6	4
31	An improved biogeography/complex algorithm based on decomposition for many-objective optimization. International Journal of Machine Learning and Cybernetics, 2019, 10, 1961-1977.	3.6	7
32	Stiffness modeling and analysis of a multiple coordinated robot system. International Journal of Advanced Manufacturing Technology, 2018, 94, 4265-4276.	3.0	6
33	Research on 3D Surface Micro Topography Reconstruction and Mosaic from Multifocus Microscopic Image Sequences. , 2018, , .		1
34	Artificial Muscles as Actuators in Symmetrical Structure. , 2018, , .		1
35	Improving a Wall-Following Robot Performance with a PID-Genetic Algorithm Controller. , 2018, , .		10
36	A Free-Piston Linear Generator Control Strategy for Improving Output Power. Energies, 2018, 11, 135.	3.1	38

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37	A robust and accurate SLAM algorithm for omni-directional mobile robots based on a novel 2.5D lidar device. , 2018, , .		3
38	Feature extraction method based on 2.5-dimensions lidar platform for indoor mobile robots localization. , 2017, , .		3
39	A novel stable control strategy of single cylinder free-piston linear generator. , 2017, , .		8
40	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
41	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
42	Design and analysis of a transformable spherical robot for multi-mode locomotion. , 2017, , .		5
43	Kinematic Analysis of Continuum Robot Consisted of Driven Flexible Rods. Mathematical Problems in Engineering, 2016, 2016, 1-7.	1.1	16
44	Multifocus Image Fusion in Q-Shift DTCWT Domain Using Various Fusion Rules. Mathematical Problems in Engineering, 2016, 2016, 1-12.	1.1	6