Xiaobo Tan

List of Publications by Year
in descending order

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186 papers	5,240 citations	101384 36 h-index	110170 64 g-index
187 all docs	187 docs citations	187 times ranked	3093 citing authors

#	Article	IF	Citations
1	Modeling and control of hysteresis in magnetostrictive actuators. Automatica, 2004, 40, 1469-1480.	3.0	442
2	Modeling of Biomimetic Robotic Fish Propelled by An Ionic Polymerâ€“Metal Composite Caudal Fin. IEEE/ASME Transactions on Mechatronics, 2010, 15, 448-459.	3.7	398
3	Adaptive identification and control of hysteresis in smart materials. IEEE Transactions on Automatic Control, 2005, 50, 827-839.	3.6	258
4	A Control-Oriented and Physics-Based Model for Ionic Polymer--Metal Composite Actuators. IEEE/ASME Transactions on Mechatronics, 2008, 13, 519-529.	3.7	215
5	Autonomous Robotic Fish as Mobile Sensor Platforms: Challenges and Potential Solutions. Marine Technology Society Journal, 2011, 45, 31-40.	0.3	183
6	Modeling and control of a magnetostrictive actuator. , 0, , .		161
7	A dynamic model for ionic polymerâ€“metal composite sensors. Smart Materials and Structures, 2007, 16, 1477-1488.	1.8	154
8	An Autonomous Robotic Fish for Mobile Sensing. , 2006, , .		107
9	Multirate Sampled-Data Output Feedback Control With Application to Smart Material Actuated Systems. IEEE Transactions on Automatic Control, 2009, 54, 2518-2529.	3.6	97
10	Control of Systems With Hysteresis Via Servocompensation and Its Application to Nanopositioning. IEEE Transactions on Control Systems Technology, 2013, 21, 725-738.	3.2	94
11	Distributed flow estimation and closed-loop control of an underwater vehicle with a multi-modal artificial lateral line. Bioinspiration and Biomimetics, 2015, 10, 025002.	1.5	84
12	Guest Editorial Focused Section on Hysteresis in Smart Mechatronic Systems: Modeling, Identification, and Control. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1-3.	3.7	83
13	Soft Actuators with Stiffness and Shape Modulation Using 3D-Printed Conductive Polylactic Acid Material. Soft Robotics, 2019, 6, 318-332.	4.6	82
14	Monolithic fabrication of ionic polymerâ€“metal composite actuators capable of complex deformation. Sensors and Actuators A: Physical, 2010, 157, 246-257.	2.0	81
15	Inkjetâ€Printed Soft Resistive Pressure Sensor Patch for Wearable Electronics Applications. Advanced Materials Technologies, 2020, 5, 1900717.	3.0	81
16	Autonomous Sampling of Water Columns Using Gliding Robotic Fish: Algorithms and Harmful-Algae-Sampling Experiments. IEEE Systems Journal, 2016, 10, 1271-1281.	2.9	80
17	An artificial lateral line system using IPMC sensor arrays. International Journal of Smart and Nano Materials, 2012, 3, 226-242.	2.0	79
18	Robust Adaptive Control of Conjugated Polymer Actuators. IEEE Transactions on Control Systems Technology, 2008, 16, 600-612.	3.2	77

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19	Screenâ€Printed Soft Capacitive Sensors for Spatial Mapping of Both Positive and Negative Pressures. Advanced Functional Materials, 2019, 29, 1809116.	7.8	75
20	A novel diaphragm micropump actuated by conjugated polymer petals: Fabrication, modeling, and experimental results. Sensors and Actuators A: Physical, 2010, 158, 121-131.	2.0	68
21	A dynamic model for tail-actuated robotic fish with drag coefficient adaptation. Mechatronics, 2013, 23, 659-668.	2.0	62
22	Miniature Underwater Glider: Design and Experimental Results. IEEE/ASME Transactions on Mechatronics, 2014, 19, 394-399.	3.7	61
23	Modeling and Inverse Compensation of Temperature-Dependent Ionic Polymerâ€“Metal Composite Sensor Dynamics. IEEE/ASME Transactions on Mechatronics, 2011, 16, 80-89.	3.7	60
24	Nonlinear estimation-based dipole source localization for artificial lateral line systems. Bioinspiration and Biomimetics, 2013, 8, 026005.	1.5	60
25	Design and Modeling of Flexible Passive Rowing Joint for Robotic Fish Pectoral Fins. IEEE Transactions on Robotics, 2016, 32, 1119-1132.	7.3	57
26	Smart Soft Actuators and Grippers Enabled by Selfâ€Powered Triboâ€Skins. Advanced Materials Technologies, 2020, 5, 1901075.	3.0	52
27	Encapsulation of ionic polymer-metal composite (IPMC) sensors with thick parylene: Fabrication process and characterization results. Sensors and Actuators A: Physical, 2014, 217, 1-12.	2.0	51
28	Design and Analysis of Sliding Mode Controller Under Approximate Hysteresis Compensation. IEEE Transactions on Control Systems Technology, 2015, 23, 598-608.	3.2	50
29	Model-Based Estimation of Flow Characteristics Using an Ionic Polymerâ€“Metal Composite Beam. IEEE/ASME Transactions on Mechatronics, 2013, 18, 932-943.	3.7	48
30	Underwater tracking of a moving dipole source using an artificial lateral line: algorithm and experimental validation with ionic polymerâ€“metal composite flow sensors. Smart Materials and Structures, 2013, 22, 045010.	1.8	48
31	Derivative-Based Koopman Operators for Real-Time Control of Robotic Systems. IEEE Transactions on Robotics, 2021, 37, 2173-2192.	7.3	48
32	A Novel Pneumatic Soft Snake Robot Using Traveling-Wave Locomotion in Constrained Environments. IEEE Robotics and Automation Letters, 2020, 5, 1610-1617.	3.3	47
33	Modeling of biomimetic robotic fish propelled by an ionic polymer-metal composite actuator. , 2008, , .		46
34	Fiber-Directed Conjugated-Polymer Torsional Actuator: Nonlinear Elasticity Modeling and Experimental Validation. IEEE/ASME Transactions on Mechatronics, 2011, 16, 656-664.	3.7	45
35	Averaging Tail-Actuated Robotic Fish Dynamics Through Force and Moment Scaling. IEEE Transactions on Robotics, 2015, 31, 906-917.	7.3	45
36	Soft Humanoid Hands with Large Grasping Force Enabled by Flexible Hybrid Pneumatic Actuators. Soft Robotics, 2021, 8, 175-185.	4.6	45

#	Article	IF	Citations
37	Dynamic Modeling of Robotic Fish With a Base-Actuated Flexible Tail. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	44
38	Decentralized control of autonomous vehicles. , 0, , .		42
39	Local Koopman Operators for Data-Driven Control of Robotic Systems. , 0, , .		42
40	Modeling and Inverse Compensation of Nonmonotonic Hysteresis in VO $_2$-Coated Microactuators. IEEE/ASME Transactions on Mechatronics, 2014, 19, 579-588.	3.7	40
41	Bio-inspired flexible joints with passive feathering for robotic fish pectoral fins. Bioinspiration and Biomimetics, 2016, 11, 036009.	1.5	37
42	Design and dynamic modeling of electrorheological fluid-based variable-stiffness fin for robotic fish. Smart Materials and Structures, 2017, 26, 085014.	1.8	36
43	Modeling and inverse compensation of dynamics of base-excited ionic polymerâ€“metal composite sensors. Journal of Intelligent Material Systems and Structures, 2013, 24, 1557-1571.	1.4	32
44	Underwater source localization using an IPMC-based artificial lateral line. , 2011, , .		30
45	Modeling and inverse compensation of hysteresis in vanadium dioxide using an extended generalized Prandtlâ€“Ishlinskii model. Smart Materials and Structures, 2014, 23, 125017.	1.8	30
46	Dynamics of Omnidirectional IPMC Sensor: Experimental Characterization and Physical Modeling. IEEE/ASME Transactions on Mechatronics, 2016, 21, 601-612.	3.7	30
47	Control of hysteresis in smart actuators with application to micro-positioning. Systems and Control Letters, 2005, 54, 483-492.	1.3	29
48	Role of Pectoral Fin Flexibility in Robotic Fish Performance. Journal of Nonlinear Science, 2017, 27, 1155-1181.	1.0	28
49	Soft Robotic Manipulation System Capable of Stiffness Variation and Dexterous Operation for Safe Humanâ€“Machine Interactions. Advanced Materials Technologies, 2021, 6, 2100084.	3.0	27
50	Measurement and Modeling of Dynamic Rolling Friction in Linear Microball Bearings. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 891-898.	0.9	26
51	Fast inverse compensation of Preisach-type hysteresis operators using field-programmable gate arrays. , 2008, , .		25
52	Two-time-scale averaging of systems involving operators and its application to adaptive control of hysteretic systems. , 2009, , .		25
53	Dynamic modeling of robotic fish and its experimental validation. , 2011, , .		25
54	Inversion-free stabilization and regulation of systems with hysteresis via integral action. Automatica, 2014, 50, 1017-1025.	3.0	25

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55	Model Predictive Control-Based Path-Following for Tail-Actuated Robotic Fish. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	25
56	Nonlinear elastic modeling of differential expansion in trilayer conjugated polymer actuators. Smart Materials and Structures, 2008, 17, 065020.	1.8	24
57	An Electrothermally Actuated VO₂-Based MEMS Using Self-Sensing Feedback Control. Journal of Microelectromechanical Systems, 2015, 24, 100-107.	1.7	23
58	Extended Kalman Filter-Based Active Alignment Control for LED Optical Communication. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1501-1511.	3.7	23
59	Control of autonomous swarms using Gibbs sampling. , 2004, , .		22
60	Miniature underwater glider: Design, modeling, and experimental results. , 2012, , .		22
61	Sliding-mode tracking control of piezo-actuated nanopositioners. , 2012, , .		22
62	CNT-based sensor arrays for local strain measurements in soft pneumatic actuators. International Journal of Intelligent Robotics and Applications, 2017, 1, 157-166.	1.6	22
63	A Dynamic JKR Model with Application to Vibrational Release in Micromanipulation. , 2006, , .		21
64	Evolutionary multiobjective design of a flexible caudal fin for robotic fish. Bioinspiration and Biomimetics, 2015, 10, 065006.	1.5	21
65	Distributed time-difference-of-arrival (TDOA)-based localization of a moving target. , 2016, , .		21
66	Redox level-dependent impedance model for conjugated polymer actuators. Sensors and Actuators B: Chemical, 2008, 132, 182-190.	4.0	20
67	An Efficient, Time-of-Flight-Based Underwater Acoustic Ranging System for Small Robotic Fish. IEEE Journal of Oceanic Engineering, 2010, 35, 837-846.	2.1	20
68	Control of systems with hysteresis via servocompensation and its application to nanopositioning. , 2010, , .		19
69	Reliable underwater dipole source characterization in 3D space by an optimally designed artificial lateral line system. Bioinspiration and Biomimetics, 2017, 12, 036010.	1.5	19
70	A dynamic model for robotic fish with flexible pectoral fins. , 2013, , .		18
71	CFD-based multi-objective controller optimization for soft robotic fish with muscle-like actuation. Bioinspiration and Biomimetics, 2020, 15, 035004.	1.5	18
72	Control of Unknown Dynamic Hysteretic Systems Using Slow Adaptation: Preliminary Results. Proceedings of the American Control Conference, 2007, , .	0.0	17

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73	Analytical and computational modeling of robotic fish propelled by soft actuation material-based active joints. , 2009, , .		16
74	Humidity-dependence of IPMC sensing dynamics: characterization and modeling from a physical perspective. Meccanica, 2015, 50, 2663-2673.	1.2	16
75	Steady spiraling motion of gliding robotic fish. , 2012, , .		15
76	Design optimization of an artificial lateral line system incorporating flow and sensor uncertainties. Engineering Optimization, 2017, 49, 328-344.	1.5	15
77	Microfabrication of IPMC cilia for bio-inspired flow sensing. , 2012, , .		14
78	Spatiotemporal Aquatic Field Reconstruction Using Robotic Sensor Swarm. , 2012, , .		14
79	Microbial fuel cells: Control-oriented modeling and experimental validation. , 2016, , .		14
80	A pressure difference sensor inspired by fish canal lateral line. Bioinspiration and Biomimetics, 2019, 14, 055003.	1.5	14
81	Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network. IEEE Transactions on Control of Network Systems, 2020, 7, 1416-1427.	2.4	14
82	Aquatic debris monitoring using smartphone-based robotic sensors. , 2014, , .		13
83	Dynamic Optical Localization of a Mobile Robot Using Kalman Filtering-Based Position Prediction. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2483-2492.	3.7	13
84	Inversion-Free Hysteresis Compensation via Adaptive Conditional Servomechanism With Application to Nanopositioning Control. IEEE Transactions on Control Systems Technology, 2021, 29, 1922-1935.	3.2	13
85	Self-Excited Limit Cycles in an Integral-Controlled System With Backlash. IEEE Transactions on Automatic Control, 2014, 59, 1020-1025.	3.6	12
86	Adaptive Estimation of Play Radii for a Prandtlâ€“Ishlinskii Hysteresis Operator. IEEE Transactions on Control Systems Technology, 2021, 29, 2687-2695.	3.2	12
87	Gliding robotic fish for mobile sampling of aquatic environments. , 2014, , .		11
88	Fabrication and characterization of a two-dimensional IPMC sensor. , 2013, , .		9
89	Ionic polymer-metal composite torsional sensor: physics-based modeling and experimental validation. Smart Materials and Structures, 2018, 27, 075039.	1.8	9
90	Randomized Sensor Selection for Nonlinear Systems With Application to Target Localization. IEEE Robotics and Automation Letters, 2019, 4, 3553-3560.	3.3	9

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91	Dynamic inversion-based hysteresis compensation using extended high-gain observer. Automatica, 2022, 135, 109977.	3.0	9
92	A Stochastic Algorithm for Self-Organization of Autonomous Swarms. , 0, , .		8
93	A robust adaptive servocompensator for nanopositioning control. , 2010, , .		8
94	Performance improvement of IPMC flow sensors with a biologically-inspired cupula structure. Proceedings of SPIE, 2016, , .	0.8	8
95	Control-oriented Modeling of Soft Robotic Swimmer with Koopman Operators. , 2020, , .		8
96	A control-oriented, physics-based model for ionic polymer-metal composite actuators. , 2007, , .		7
97	Control of an inverted pendulum using an Ionic Polymer-Metal Composite actuator. , 2010, , .		7
98	Robotic Fish. Mechanical Engineering, 2016, 138, S2-S5.	0.0	7
99	Measurement of suction pressure dynamics of sea lampreys, Petromyzon marinus. PLoS ONE, 2021, 16, e0247884.	1.1	7
100	Trajectory Tracking Control of Rowing Pectoral Fin-Actuated Robotic Fish. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2007-2015.	3.7	7
101	A robust control framework for smart actuators. , 0, , .		6
102	Multirate Sampled-Data Output Feedback Control of Smart Material Actuated Systems. Proceedings of the American Control Conference, 2007, , .	0.0	6
103	A framework for modeling steady turning of robotic fish. , 2009, , .		6
104	Analytical modeling and experimental studies of robotic fish turning. , 2010, , .		6
105	Passivity-based controller design for stablization of underwater gliders. , 2012, , .		6
106	Tracking Error Analysis for Feedback Systems With Hysteresis Inversion and Fast Linear Dynamics1. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	6
107	Extended Kalman filter-aided alignment control for maintaining line of sight in optical communication. , 2016, , .		6
108	Analysis and Compensation of Oscillations Induced by Control Valve Stiction. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2773-2783.	3.7	6

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109	Monitoring Aquatic Debris Using Smartphone-Based Robots. IEEE Transactions on Mobile Computing, 2016, 15, 1412-1426.	3.9	6
110	Trajectory planning and tracking of robotic fish using ergodic exploration. , 2017, , .		6
111	An adaptive conditional servocompensator design for nanopositioning control. , 2017, , .		6
112	Hysteresis-Based Mechanical State Programming of MEMS Mirrors. Journal of Microelectromechanical Systems, 2018, 27, 344-354.	1.7	6
113	A study of electroactive polyvinyl chloride (PVC) gel actuators through the use of the electric modulus formalism and cyclic linear voltage sweeps. Smart Materials and Structures, 2022, 31, 035020.	1.8	6
114	Soft Pressure Sensor for Underwater Sea Lamprey Detection. IEEE Sensors Journal, 2022, 22, 9932-9944.	2.4	6
115	Nonlinear Modeling and Control of Polyvinyl Chloride (PVC) Gel Actuators. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2168-2175.	3.7	6
116	Regulation under disturbances with multiple harmonics of unknown frequency. , 2011, , .		5
117	A flexible passive joint for robotic fish pectoral fins: Design, dynamic modeling, and experimental results. , 2014, , .		5
118	Design optimization of artificial lateral line system under uncertain conditions. , 2015, , .		5
119	Modeling of MEMS Mirrors Actuated by Phase-Change Mechanism. Micromachines, 2017, 8, 138.	1.4	5
120	Dynamic model of a hyper-redundant, octopus-like manipulator for underwater applications. , 2011, , .		5
121	IPMC flow sensor exploiting self-generated vortices. , 2018, , .		5
122	A pressure gradient sensor inspired by the canal neuromasts of fish. , 2018, , .		5
123	Invasive Sea Lamprey Detection and Characterization Using Interdigitated Electrode (IDE) Contact Sensor. IEEE Sensors Journal, 2021, 21, 27947-27956.	2.4	5
124	A dynamic model for magnetostrictive hysteresis. , 0, , .		4
125	A hybrid scheme for distributed control of autonomous swarms. , 0, , .		4
126	Control-oriented averaging of tail-actuated robotic fish dynamics. , 2013, , .		4

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127	Closed-loop analysis for systems with fast linear dynamics preceded by hysteresis. , 2013, , .		4
128	Balancing performance and efficiency in a robotic fish with evolutionary multiobjective optimization. , 2014, , .		4
129	Robust Control of VO<formula formulatype="inline"><tex Notation="TeX">$_{f 2}$</tex></formula>-Coated Microbenders Using Self-Sensing Feedback. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1583-1592.	3.7	4
130	Distributed Localization of a Moving Target: Structural Observability-based Convergence Analysis. , 2018, , .		4
131	Kalman Filtering-Aided Optical Localization of Mobile Robots: System Design and Experimental Validation. , 2017, , .		4
132	Temperature-dependent Ionic polymer-metal composite (IPMC) sensing dynamics: Modeling and inverse compensation. , 2010, , .		3
133	Modeling of Ionic Polymer-Metal Composite beam dynamics and its validation using high-speed motion visualization. , 2010, , .		3
134	Cycle-to-cycle response of ionic polymer-metal composite materials subject to pulsing flow-induced stimulus. , 2012, , .		3
135	Harmonic analysis for hysteresis operators with application to control design for systems with hysteresis. , 2012, , .		3
136	Accuracy-aware aquatic diffusion process profiling using robotic sensor networks. , 2012, , .		3
137	Kullback-Leibler divergence-based optimal compression of Preisach operator in hysteresis modeling. , 2013, , .		3
138	Efficient Optical Localization for Mobile Robots via Kalman Filtering-Based Location Prediction. , 2016, , .		3
139	Design and development of an LED-based optical communication system with active alignment control. , 2016, , .		3
140	Experimental implementation of Extended Kalman filter-based optical beam tracking with a single receiver. , 2016, , .		3
141	Backstepping Control-based Trajectory Tracking for Tail-actuated Robotic Fish. , 2019, , .		3
142	High-resolution MRI of kidney microstructures at 7.05â€¯T with an endo-colonic Wireless Amplified NMR detector. Journal of Magnetic Resonance, 2019, 303, 121-127.	1.2	3
143	Sensitivity-based data fusion for optical localization of a mobile robot. Mechatronics, 2021, 73, 102488.	2.0	3
144	Jointly optimal quantization, estimation, and control of hidden markov chains. , 0, , .		2

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145	Tracking error analysis for singularly perturbed systems preceded by piecewise linear hysteresis. , 2012, , .		2
146	Design and analysis of a sliding mode controller for systems with hysteresis. , 2013, , .		2
147	A dynamic physics-based model for tubular IPMC sensors under torsional excitation. , 2016, , .		2
148	Modeling of a Bio-Inspired Canal-Type Lateral Line System. , 2017, , .		2
149	Extended Kalman Filter-Based 3D Active-Alignment Control for LED Communication. , 2018, , .		2
150	Inversion-free Control of Hysteresis Nonlinearity Using An Adaptive Conditional Servomechanism. , 2019, , .		2
151	Adaptive Estimation of Threshold Parameters for a Prandtl-Ishlinskii Hysteresis Operator. , 2019, , .		2
152	Inversion-Based Hysteresis Compensation Using Adaptive Conditional Servocompensator for Nanopositioning Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, .	0.9	2
153	Control-oriented Nonlinear Modeling of Polyvinyl Chloride (PVC) Gel Actuators. IFAC-PapersOnLine, 2021, 54, 304-309.	0.5	2
154	Numerical study on joint quantization and control under block-coding. , 2004, , .		1
155	An empirical model for dynamic friction in microfabricated linear microball bearings. , 0, , .		1
156	Closed-loop analysis of slow adaptation in the control of unknown dynamic hysteretic systems. , 2007, , .		1
157	Self-organization of autonomous swarms via Langevin equation. , 2007, , .		1
158	A nonlinear, control-oriented model for ionic polymer-metal composite actuators. , 2008, , .		1
159	Fiber-reinforced conjugated polymer torsional actuator and its nonlinear elasticity modeling. , 2009, , .		1
160	Robust control of VO<inf>2</inf>-coated microactuators based on self-sensing feedback. , 2013, , .		1
161	Self-excited limit cycles in an integral-controlled system with backlash. , 2013, , .		1
162	On the shortest path planning for the carangiform robotic fish. , 2014, , .		1

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163	Soft mechatronics: an emerging design paradigm for the conception of intrinsically compliant electro-mechanical systems. Meccanica, 2015, 50, 2661-2662.	1.2	1
164	Optimum Design of Artificial Lateral Line Systems for Object Tracking under Uncertain Conditions. , 2016, , .		1
165	Analysis and compensation of control valve stiction-induced limit cycles. , 2016, , .		1
166	Programming of Systems with Hysteresis Using Pulsed Inputs. , 2018, , .		1
167	Optical Localization of a Mobile Robot Using Sensitivity-based Data Fusion. , 2019, , .		1
168	A Bidirectional Alignment Control Approach for Planar LED-based Free-Space Optical Communication Systems. , 2020, , .		1
169	Backstepping Control of Gliding Robotic Fish for Trajectory Tracking in 3D Space. , 2020, , .		1
170	Smart Soft Actuators: Smart Soft Actuators and Grippers Enabled by Selfâ€Powered Triboâ€Skins (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10	3.0	1
171	A Bidirectional Active-Alignment Control System for LED Communication. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3624-3635.	3.7	1
172	Distributed Measurement of Deformation Magnitude and Location with a Pair of Soft Sensors. Advanced Engineering Materials, 0, , 2101146.	1.6	1
173	Large deformation modeling of swelling actuation in conjugated polymer systems. Proceedings of SPIE, 2009, , .	0.8	0
174	A compensated sliding-window DFT algorithm for fine-grained underwater acoustic ranging. , 2009, , .		0
175	Measuring Primary Hepatocyte adhesion on polyelectrolyte multilayer films by a passive detachment sensing tool. , 2010, , .		0
176	Tracking an unknown two-frequency reference using a frequency estimator-based servocompensator. , 2011, , .		0
177	Artificial lateral line-based localization of a dipole source with unknown vibration amplitude and direction. , 2011, , .		0
178	Dynamic modeling and control of a nanotube-based linear motor. , 2013, , .		0
179	Leader-follower tracking for a network of gliding robotic fish using dynamic feedback linearization. , 2015, , .		0
180	Compressive sensing-based Preisach hysteresis model identification. , 2015, , .		0

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181	Frequency response analysis for closed-loop systems with hysteresis using incremental harmonic balance. , 2016, , .		0
182	Guest editorial: Focused section on advances in soft robotics. International Journal of Intelligent Robotics and Applications, 2017, 1, 121-123.	1.6	0
183	Guest Editorial: Focused Section on Inaugural Edition of TMECH/AIM Emerging Topics. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1695-1697.	3.7	0
184	Humanâ€“Machine Interfaces: Soft Robotic Manipulation System Capable of Stiffness Variation and Dexterous Operation for Safe Humanâ€“Machine Interactions (Adv. Mater. Technol. 5/2021). Advanced Materials Technologies, 2021, 6, 2170028.	3.0	0
185	Rapid Maneuvering Control of Pectoral Fin-Actuated Robotic Fish. , 2021, , .		0
186	Numerical and Topological Conditions for Sub-Optimal Distributed Kalman Filtering. IEEE Transactions on Control of Network Systems, 2022, , 1-11.	2.4	0