

Bijan Shirinzadeh

List of Publications by Year in descending order

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Version: 2024-02-01

216
papers

10,141
citations

50276

46
h-index

37204

96
g-index

216
all docs

216
docs citations

216
times ranked

8369
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous finite-time control for robotic manipulators with terminal sliding mode. <i>Automatica</i> , 2005, 41, 1957-1964.	5.0	2,178
2	A wearable and highly sensitive pressure sensor with ultrathin gold nanowires. <i>Nature Communications</i> , 2014, 5, 3132.	12.8	1,731
3	A Novel Direct Inverse Modeling Approach for Hysteresis Compensation of Piezoelectric Actuator in Feedforward Applications. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013, 18, 981-989.	5.8	213
4	Development and dynamic modelling of a flexure-based Scottâ€“Russell mechanism for nano-manipulation. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 957-978.	8.0	182
5	A systematic technique to estimate positioning errors for robot accuracy improvement using laser interferometry based sensing. <i>Mechanism and Machine Theory</i> , 2005, 40, 879-906.	4.5	171
6	Development of a novel flexure-based microgripper for high precision micro-object manipulation. <i>Sensors and Actuators A: Physical</i> , 2009, 150, 257-266.	4.1	147
7	Multi-sensor optimal data fusion for INS/GPS/SAR integrated navigation system. <i>Aerospace Science and Technology</i> , 2009, 13, 232-237.	4.8	139
8	Design and analysis of a novel flexure-based 3-DOF mechanism. <i>Mechanism and Machine Theory</i> , 2014, 74, 173-187.	4.5	138
9	Nanorobot architecture for medical target identification. <i>Nanotechnology</i> , 2008, 19, 015103.	2.6	133
10	Enhanced sliding mode motion tracking control of piezoelectric actuators. <i>Sensors and Actuators A: Physical</i> , 2007, 138, 194-202.	4.1	132
11	Design and Computational Optimization of a Decoupled 2-DOF Monolithic Mechanism. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014, 19, 872-881.	5.8	126
12	Robust motion tracking control of piezo-driven flexure-based four-bar mechanism for micro/nano manipulation. <i>Mechatronics</i> , 2008, 18, 111-120.	3.3	124
13	An evaluation of surface roughness parameters measurement using vision-based data. <i>International Journal of Machine Tools and Manufacture</i> , 2007, 47, 697-708.	13.4	117
14	Development of a high precision flexure-based microgripper. <i>Precision Engineering</i> , 2009, 33, 362-370.	3.4	115
15	A new design of piezoelectric driven compliant-based microgripper for micromanipulation. <i>Mechanism and Machine Theory</i> , 2009, 44, 2248-2264.	4.5	108
16	Robust Adaptive Constrained Motion Tracking Control of Piezo-Actuated Flexure-Based Mechanisms for Micro/Nano Manipulation. <i>IEEE Transactions on Industrial Electronics</i> , 2011, 58, 1406-1415.	7.9	108
17	Sliding-Mode Enhanced Adaptive Motion Tracking Control of Piezoelectric Actuation Systems for Micro/Nano Manipulation. <i>IEEE Transactions on Control Systems Technology</i> , 2008, 16, 826-833.	5.2	106
18	Nanorobot for Brain Aneurysm. <i>International Journal of Robotics Research</i> , 2009, 28, 558-570.	8.5	99

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19	Design issues in a decoupled XY stage: Static and dynamics modeling, hysteresis compensation, and tracking control. <i>Sensors and Actuators A: Physical</i> , 2013, 194, 95-105.	4.1	97
20	Nanorobot Hardware Architecture for Medical Defense. <i>Sensors</i> , 2008, 8, 2932-2958.	3.8	96
21	Topology optimisation and singularity analysis of a 3-SPS parallel manipulator with a passive constraining spherical joint. <i>Mechanism and Machine Theory</i> , 2004, 39, 215-235.	4.5	91
22	The measurement uncertainties in the laser interferometry-based sensing and tracking technique. <i>Measurement: Journal of the International Measurement Confederation</i> , 2002, 32, 135-150.	5.0	85
23	Trajectory generation for open-contoured structures in robotic fibre placement. <i>Robotics and Computer-Integrated Manufacturing</i> , 2007, 23, 380-394.	9.9	84
24	Fabrication process of open surfaces by robotic fibre placement. <i>Robotics and Computer-Integrated Manufacturing</i> , 2004, 20, 17-28.	9.9	82
25	Development of a piezo-driven 3-DOF stage with T-shape flexible hinge mechanism. <i>Robotics and Computer-Integrated Manufacturing</i> , 2016, 37, 125-138.	9.9	82
26	Neural Network Motion Tracking Control of Piezo-Actuated Flexure-Based Mechanisms for Micro-/Nanomanipulation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2009, 14, 517-527.	5.8	80
27	Robust generalised impedance control of piezo-actuated flexure-based four-bar mechanisms for micro/nano manipulation. <i>Sensors and Actuators A: Physical</i> , 2008, 148, 443-453.	4.1	79
28	Design and Kinematics Modeling of a Novel 3-DOF Monolithic Manipulator Featuring Improved Scott-Russell Mechanisms. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2013, 135, .	2.9	77
29	Medical nanorobotics for diabetes control. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2008, 4, 127-138.	3.3	76
30	Modeling and controller design of a 6-DOF precision positioning system. <i>Mechanical Systems and Signal Processing</i> , 2018, 104, 536-555.	8.0	75
31	Nonlinear Double-Integral Observer and Application to Quadrotor Aircraft. <i>IEEE Transactions on Industrial Electronics</i> , 2015, 62, 1189-1200.	7.9	72
32	Robotic fiber placement process analysis and optimization using response surface method. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 55, 393-404.	3.0	69
33	Design and control of a 6-degree-of-freedom precision positioning system. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017, 44, 77-96.	9.9	68
34	Robust Neural Network Motion Tracking Control of Piezoelectric Actuation Systems for Micro/Nanomanipulation. <i>IEEE Transactions on Neural Networks</i> , 2009, 20, 356-367.	4.2	67
35	Experimental Investigation of Robust Motion Tracking Control for a 2-DOF Flexure-Based Mechanism. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014, 19, 1737-1745.	5.8	65
36	Development of a 4-DOF haptic micromanipulator utilizing a hybrid parallel-serial flexure mechanism. <i>Mechatronics</i> , 2018, 50, 55-68.	3.3	62

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37	Prediction of geometric errors of robot manipulators with Particle Swarm Optimisation method. <i>Robotics and Autonomous Systems</i> , 2006, 54, 956-966.	5.1	59
38	Enhanced adaptive motion tracking control of piezo-actuated flexure-based four-bar mechanisms for micro/nano manipulation. <i>Sensors and Actuators A: Physical</i> , 2008, 147, 254-262.	4.1	59
39	Physics-Based Haptic Simulation of Bone Machining. <i>IEEE Transactions on Haptics</i> , 2011, 4, 39-50.	2.7	59
40	Optimum synthesis of planar parallel manipulators based on kinematic isotropy and force balancing. <i>Robotica</i> , 2004, 22, 97-108.	1.9	57
41	Development and control of a two DOF linear-angular precision positioning stage. <i>Mechatronics</i> , 2015, 32, 34-43.	3.3	56
42	Laser-interferometry-based tracking for dynamic measurements. <i>Industrial Robot</i> , 1998, 25, 35-41.	2.1	55
43	Optimum dynamic balancing of planar parallel manipulators based on sensitivity analysis. <i>Mechanism and Machine Theory</i> , 2006, 41, 1520-1532.	4.5	55
44	Design and analysis of a compact flexure-based precision pure rotation stage without actuator redundancy. <i>Mechanism and Machine Theory</i> , 2016, 105, 129-144.	4.5	50
45	Experimental Analysis of Laser Interferometry-Based Robust Motion Tracking Control of a Flexure-Based Mechanism. <i>IEEE Transactions on Automation Science and Engineering</i> , 2013, 10, 267-275.	5.2	48
46	Laser-Based Sensing, Measurement, and Misalignment Control of Coupled Linear and Angular Motion for Ultrahigh Precision Movement. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 84-92.	5.8	48
47	Vision-based force measurement using neural networks for biological cell microinjection. <i>Journal of Biomechanics</i> , 2014, 47, 1157-1163.	2.1	47
48	Topology optimisation of bridge input structures with maximal amplification for design of flexure mechanisms. <i>Mechanism and Machine Theory</i> , 2018, 122, 113-131.	4.5	45
49	Issues in the design of the reconfigurable fixture modules for robotic assembly. <i>Journal of Manufacturing Systems</i> , 1993, 12, 1-14.	13.9	42
50	Motion control analysis of a parallel robot assisted minimally invasive surgery/microsurgery system (PRAMiSS). <i>Robotics and Computer-Integrated Manufacturing</i> , 2013, 29, 318-327.	9.9	42
51	An actuated force feedback-enabled laparoscopic instrument for robotic-assisted surgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2014, 10, 11-21.	2.3	42
52	High-order nonlinear differentiator and application to aircraft control. <i>Mechanical Systems and Signal Processing</i> , 2014, 46, 227-252.	8.0	42
53	Nanorobot Communication Techniques: A Comprehensive Tutorial. , 2006, , .		41
54	Medical Nanorobot Architecture Based on Nanobioelectronics. <i>Recent Patents on Nanotechnology</i> , 2007, 1, 1-10.	1.3	41

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55	Random weighting estimation for fusion of multi-dimensional position data. <i>Information Sciences</i> , 2010, 180, 4999-5007.	6.9	41
56	Development of Piezo-Driven Compliant Bridge Mechanisms: General Analytical Equations and Optimization of Displacement Amplification. <i>Micromachines</i> , 2017, 8, 238.	2.9	41
57	Robotic fibre placement process planning and control. <i>Assembly Automation</i> , 2000, 20, 313-320.	1.7	40
58	Flexible fixturing for workpiece positioning and constraining. <i>Assembly Automation</i> , 2002, 22, 112-120.	1.7	38
59	Nonlinear augmented observer design and application to quadrotor aircraft. <i>Nonlinear Dynamics</i> , 2015, 80, 1463-1481.	5.2	38
60	Design, development and analysis of a haptic-enabled modular flexure-based manipulator. <i>Mechatronics</i> , 2016, 40, 156-166.	3.3	38
61	Development of a Passive Compliant Mechanism for Measurement of Micro/Nanoscale Planar 3-DOF Motions. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 1222-1232.	5.8	38
62	Topology optimization of stiffness constrained flexure-hinges for precision and range maximization. <i>Mechanism and Machine Theory</i> , 2020, 150, 103874.	4.5	36
63	Compliance modeling and analysis of statically indeterminate symmetric flexure structures. <i>Precision Engineering</i> , 2013, 37, 415-424.	3.4	35
64	Flexible and automated workholding systems. <i>Industrial Robot</i> , 1995, 22, 29-34.	2.1	34
65	Feasibility assessment of vision-based surface roughness parameters acquisition for different types of machined specimens. <i>Image and Vision Computing</i> , 2009, 27, 444-458.	4.5	33
66	Constrained Motion Tracking Control of Piezo-Actuated Flexure-Based Four-Bar Mechanisms for Micro/Nano Manipulation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2010, 7, 699-705.	5.2	33
67	Effects of realistic force feedback in a robotic assisted minimally invasive surgery system. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2014, 23, 127-135.	1.2	33
68	Development and control methodologies for 2-DOF micro/nano positioning stage with high out-of-plane payload capacity. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019, 56, 95-105.	9.9	33
69	Design, analysis and experimental investigations of a high precision flexure-based microgripper for micro/nano manipulation. <i>Mechatronics</i> , 2020, 69, 102396.	3.3	33
70	Adaptive Fuzzy Sliding Mode Control for High-Precision Motion Tracking of a Multi-DOF Micro/Nano Manipulator. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 4313-4320.	5.1	32
71	A fuzzy disturbance observer based control approach for a novel 1-DOF micropositioning mechanism. <i>Mechatronics</i> , 2020, 65, 102317.	3.3	31
72	Design, modeling, and control of a large range 3-DOF micropositioning stage. <i>Mechanism and Machine Theory</i> , 2021, 156, 104159.	4.5	30

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73	Multi-pass layup process for thermoplastic composites using robotic fiber placement. <i>Robotics and Computer-Integrated Manufacturing</i> , 2018, 49, 277-284.	9.9	29
74	Development of a XYZ scanner for home-made atomic force microscope based on FPAA control. <i>Mechanical Systems and Signal Processing</i> , 2019, 131, 222-242.	8.0	29
75	Development and control of a large range XY \hat{z} micropositioning stage. <i>Mechatronics</i> , 2020, 66, 102343.	3.3	29
76	Design, analysis, and experimental investigation of a single-stage and low parasitic motion piezoelectric actuated microgripper. <i>Smart Materials and Structures</i> , 2020, 29, 045028.	3.5	28
77	System Identification-Based Sliding Mode Control for Small-Scaled Autonomous Aerial Vehicles With Unknown Aerodynamics Derivatives. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 2944-2952.	5.8	27
78	A novel compliant piezoelectric actuated symmetric microgripper for the parasitic motion compensation. <i>Mechanism and Machine Theory</i> , 2021, 155, 104069.	4.5	27
79	A hybrid contact state analysis methodology for robotic-based adjustment of cylindrical pair. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 52, 329-342.	3.0	25
80	Rapid-convergent nonlinear differentiator. <i>Mechanical Systems and Signal Processing</i> , 2012, 28, 414-431.	8.0	25
81	Development of novel hybrid flexure-based microgrippers for precision micro-object manipulation. <i>Review of Scientific Instruments</i> , 2009, 80, 065106.	1.3	24
82	A Cellular Neural Network Methodology for Deformable Object Simulation. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2006, 10, 749-762.	3.2	23
83	Nonlinear Multiple Integrator and Application to Aircraft Navigation. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2014, 50, 607-622.	4.7	23
84	Topology optimization of leaf flexures to maximize in-plane to out-of-plane compliance ratio. <i>Precision Engineering</i> , 2019, 55, 397-407.	3.4	21
85	Computational parametric analysis and experimental investigations of a compact flexure-based microgripper. <i>Precision Engineering</i> , 2020, 66, 363-373.	3.4	21
86	Closed-form compliance equations for elliptic-revolute notch type multiple-axis flexure hinges. <i>Mechanism and Machine Theory</i> , 2021, 156, 104154.	4.5	21
87	Soft tissue deformation with reaction-diffusion process for surgery simulation. <i>Journal of Visual Languages and Computing</i> , 2012, 23, 1-12.	1.8	19
88	An XYZ micromanipulator for precise positioning applications. <i>Journal of Micro-Bio Robotics</i> , 2020, 16, 53-63.	2.1	19
89	Modeling and a cross-coupling compensation control methodology of a large range 3-DOF micropositioner with low parasitic motions. <i>Mechanism and Machine Theory</i> , 2021, 162, 104334.	4.5	19
90	An autowave based methodology for deformable object simulation. <i>CAD Computer Aided Design</i> , 2006, 38, 740-754.	2.7	18

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91	Analytical modelling and experiments for hybrid multiaxis flexure hinges. Precision Engineering, 2022, 76, 294-304.	3.4	18
92	A CAD-Based hierarchical approach to interference detection among fixture modules in a reconfigurable fixturing system. Robotics and Computer-Integrated Manufacturing, 1996, 12, 41-53.	9.9	17
93	Dynamic analysis of reconfigurable fixture construction by a manipulator. Robotics and Computer-Integrated Manufacturing, 2001, 17, 367-377.	9.9	16
94	Hardware architecture for nanorobot application in cerebral aneurysm. , 2007, , .		16
95	Soft tissue modelling through autowaves for surgery simulation. Medical and Biological Engineering and Computing, 2006, 44, 805-821.	2.8	15
96	Remote centre-of-motion control algorithms of 6-RRR parallel robot assisted surgery system (PRAMISS). , 2012, , .		15
97	Experimental investigation of the performance of a reconfigurable fixturing system. International Journal of Advanced Manufacturing Technology, 1995, 10, 330-341.	3.0	14
98	Direct Kinematics and Analytical Solution to 3RRR Parallel Planar Mechanisms. , 2006, , .		14
99	Nanorobots for Laparoscopic Cancer Surgery. , 2007, , .		14
100	A Vision-Based Methodology to Dynamically Track and Describe Cell Deformation during Cell Micromanipulation. International Journal of Optomechatronics, 2013, 7, 33-45.	6.6	14
101	Design, modelling and characterization of a 2-DOF precision positioning platform. Transactions of the Institute of Measurement and Control, 2015, 37, 396-405.	1.7	14
102	Characterization of a compact piezoelectric actuated microgripper based on double-stair bridge-type mechanism. Journal of Micro-Bio Robotics, 2020, 16, 79-92.	2.1	14
103	A mathematical model for a pneumatically actuated robotic fibre placement system. Robotica, 2002, 20, 545-551.	1.9	13
104	An electromechanical based deformable model for soft tissue simulation. Artificial Intelligence in Medicine, 2009, 47, 275-288.	6.5	13
105	Soft tissue modelling with conical springs. Bio-Medical Materials and Engineering, 2015, 26, S207-S214.	0.6	13
106	Experimental Analysis of Variable Collective-pitch Rotor Systems for Multirotor Helicopter Applications. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 83, 271-288.	3.4	13
107	Improved uniform degree of multi-layer interlaminar bonding strength for composite laminate. Journal of Reinforced Plastics and Composites, 2017, 36, 1211-1224.	3.1	13
108	Design of a XYZ scanner for home-made high-speed atomic force microscopy. Microsystem Technologies, 2018, 24, 3123-3132.	2.0	13

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109	Parametric optimization for multi-layered filament-wound cylinder based on hybrid method of GA-PSO coupled with local sensitivity analysis. <i>Composite Structures</i> , 2021, 267, 113861.	5.8	13
110	Solid modelling in a virtual reality environment. <i>Visual Computer</i> , 2005, 21, 17-40.	3.5	12
111	Enhancing Solid State LiDAR Mapping with a 2D Spinning LiDAR in Urban Scenario SLAM on Ground Vehicles. <i>Sensors</i> , 2021, 21, 1773.	3.8	12
112	Kinematics Analysis of 6-DOF Parallel Micro-Manipulators with Offset U-Joints. <i>International Journal of Intelligent Mechatronics and Robotics</i> , 2012, 2, 28-40.	0.4	11
113	Modeling and tracking control of a novel $XY\hat{z}$ stage. <i>Microsystem Technologies</i> , 2017, 23, 3575-3588.	2.0	11
114	Modeling and prototype experiment of a monolithic 3-PUU parallel micromanipulator with nano-scale accuracy. <i>Smart Materials and Structures</i> , 2020, 29, 075023.	3.5	11
115	An approach for damage initiation and propagation in metal and carbon fiber hybrid composites manufactured by robotic fiber placement. <i>Composite Structures</i> , 2021, 268, 113976.	5.8	11
116	Design and evaluation of a dual-stage, compensated stick-slip actuator for long-range, precision compliant mechanisms. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 113007.	4.1	11
117	Development of a Compliant-Based Microgripper for Microassembly. , 2008, , .		10
118	Design of a novel parallel monolithic 6-DOF compliant micromanipulation mechanism. , 2018, , .		10
119	Study of the hinge thickness deviation for a 316L parallelogram flexure mechanism fabricated via selective laser melting. <i>Journal of Intelligent Manufacturing</i> , 2021, 32, 1411-1420.	7.3	10
120	Strategies for planning and implementation of flexible fixturing systems in a computer integrated manufacturing environment. <i>Computers in Industry</i> , 1996, 30, 175-183.	9.9	9
121	Intelligent robotic fettling using a visual feedback technique and force sensing. <i>International Journal of Advanced Manufacturing Technology</i> , 2004, 24, 607-614.	3.0	9
122	Computational Nanomechanics: A Pathway for Control and Manufacturing Nanorobots. , 2006, , .		9
123	Simulation of deformable models with the Poisson equation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2006, 9, 289-304.	1.6	9
124	A vision-based measurement algorithm for micro/nano manipulation. , 2013, , .		9
125	The bounds on tracking performance utilising a laser-based linear and angular sensing and measurement methodology for micro/nano manipulation. <i>Measurement Science and Technology</i> , 2014, 25, 125005.	2.6	9
126	Nonlinear continuous integral-derivative observer. <i>Nonlinear Dynamics</i> , 2014, 77, 793-806.	5.2	9

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127	Swing-Up and Stability Control of Wheeled Acrobot (WAcrobot). <i>Automatika</i> , 2014, 55, 32-40.	2.0	8
128	Modeling of two-plate capacitive position sensing systems for high precision planar three DOF measurement. <i>Precision Engineering</i> , 2016, 46, 383-392.	3.4	8
129	Antlion Optimized Robust Control Approach for Micropositioning Trajectory Tracking Tasks. <i>IEEE Access</i> , 2020, 8, 220889-220907.	4.2	8
130	Vibration analysis of a rotating cantilever double-tapered AFGM nanobeam. <i>Microsystem Technologies</i> , 2020, 26, 3657-3676.	2.0	8
131	Inverse kinematics Analysis of 6-RRCRR parallel manipulators. , 2013, , .		7
132	Vision-based robot-assisted biological cell micromanipulation. , 2014, , .		7
133	Pose estimation and calibration using nonlinear capacitance sensor models for micro/nano positioning. <i>Sensors and Actuators A: Physical</i> , 2017, 253, 118-130.	4.1	7
134	A Flexure-Based 2-DOF Microgripper for Handling Micro-Objects. , 2018, , .		7
135	Design and Analysis of a Novel 3-DOF Large Range Micropositioning Mechanism. , 2018, , .		7
136	Hector SLAM with ICP Trajectory Matching. , 2020, , .		7
137	Robust Adaptive Motion Tracking Control of Piezoelectric Actuation Systems for Micro/Nano Manipulation. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007, , .	0.0	6
138	A new neural network for robot path planning. , 2008, , .		6
139	Design and optimization of a compact, large amplification XY flexure-mechanism. , 2017, , .		6
140	Closed-Form Modeling and Analysis of an XY Flexure-Based Nano-Manipulator. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2018, 31, .	3.7	6
141	Design of a novel parallel monolithic 3-DOF compliant micromanipulator. , 2019, , .		6
142	Feasibility Study of Robust Neural Network Motion Tracking Control of Piezoelectric Actuation Systems for Micro/Nano Manipulation. , 2007, , 5-19.		6
143	Experimental Study of Laser Interferometry Based Motion Tracking of a Flexure-Based Mechanism. <i>International Journal of Intelligent Mechatronics and Robotics</i> , 2011, 1, 31-45.	0.4	6
144	Evaluation of robotic fiber placement effect on <sc>processâ€induced</sc> residual stresses using incremental <sc>holeâ€drilling</sc> method. <i>Polymer Composites</i> , 2022, 43, 4417-4436.	4.6	6

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145	Development of a flexure-based 3-RRR parallel mechanism for nano-manipulation. , 2009, , .		5
146	Thermal- Mechanical-Based Soft Tissue Deformation for Surgery Simulation. Advanced Robotics, 2010, 24, 1719-1739.	1.8	5
147	Random Weighting Estimation for Quantile Processes and Negatively Associated Samples. Communications in Statistics - Theory and Methods, 2014, 43, 656-662.	1.0	5
148	Laser interferometry measurements based calibration and error propagation identification for pose estimation in mobile robots. Robotica, 2014, 32, 165-174.	1.9	5
149	A Simple Weighing Method for Spherical Cells. Journal of the Association for Laboratory Automation, 2015, 20, 471-480.	2.8	5
150	Modeling of soft tissue thermal damage based on GPU acceleration. Computer Assisted Surgery, 2019, 24, 5-12.	1.3	5
151	Optimal Parameter Selection in Robotic Belt Polishing for Aeroengine Blade Based on GRA-RSM Method. Symmetry, 2019, 11, 1526.	2.2	5
152	Developing a Trajectory Planning for Curved-Contoured Surfaces for Use by 8-DoF Workcell in Robotic Fibre Placement. IOP Conference Series: Materials Science and Engineering, 2020, 859, 012018.	0.6	5
153	Sensing and Modelling Mechanical Response in Large Deformation Indentation of Adherent Cell Using Atomic Force Microscopy. Sensors, 2020, 20, 1764.	3.8	5
154	Experimental System Identification, Feed-Forward Control, and Hysteresis Compensation of a 2-DOF Mechanism. International Journal of Intelligent Mechatronics and Robotics, 2013, 3, 1-21.	0.4	5
155	Optimization of process-induced residual stresses in automated manufacturing of thermoset composites. Aerospace Science and Technology, 2022, 123, 107443.	4.8	5
156	A reaction-diffusion methodology for soft object simulation. , 2006, , .		4
157	A vision-based approach for surface roughness assessment at micro and nano scales. , 2008, , .		4
158	Development of a novel flexure based microgripper for precision manipulation of micro-objects. , 2009, , .		4
159	Modelling and Daisy Chaining Control Allocation of a Multirotor Helicopter with a Single Tilting Rotor. Electronics (Switzerland), 2016, 5, 81.	3.1	4
160	Topology optimization of leaf flexures for stiffness ratio maximization in compliant mechanisms. , 2018, , .		4
161	Orientation Correction for Hector SLAM at Starting Stage. , 2019, , .		4
162	FEA-based optimization of a complete structure of a monolithic z/tip/tilt micromanipulator. Journal of Micro-Bio Robotics, 2020, 16, 93-110.	2.1	4

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163	Towards fully-automated micrograsping for microassembly. , 2008, , .		3
164	Mobile Robot Navigation using alpha level fuzzy logic system: Experimental investigations. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	3
165	Stiffness estimation of the flexure-based five-bar micro-manipulator. , 2008, , .		3
166	Performance evaluation of a flexure-based five-bar mechanism for micro/nano manipulation. , 2009, , .		3
167	Modelling a precision loadcell using neural networks for vision-based force measurement in cell micromanipulation. , 2013, , .		3
168	Design, development and analysis of a haptic-enabled modular flexure-based manipulator. , 2015, , .		3
169	Development and Analysis of a Novel Large Range Voice Coil Motor-driven 3-DOF XYÎ Micro-positioning Mechanism. , 2019, , .		3
170	On the Sensing and Calibration of Residual Stresses Measurements in the Incremental Hole-Drilling Method. Sensors, 2021, 21, 7447.	3.8	3
171	Modeling and Multiparametric Effect on Void Content in Composite Tape Winding. Arabian Journal for Science and Engineering, 2022, 47, 8663-8675.	3.0	3
172	A mechatronic wrist unit for precision tasks. Industrial Robot, 1997, 24, 446-451.	2.1	2
173	Assembly Modelling Through Constraint-based Manipulations in A Virtual Reality Environment. , 2005, , .		2
174	Robust Control Framework for Piezoelectric Actuation Systems in Micro/Nano Manipulation. , 2005, , .		2
175	Motion tracking control of piezo-driven flexure-based mechanism based on sliding mode strategy. , 2007, , .		2
176	Enhanced sliding-mode constrained motion tracking control of piezo-actuated flexure-based mechanisms. , 2009, , .		2
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