

# Eniko T Enikov

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

862  
citations

623734

14  
h-index

526287

27  
g-index

82  
all docs

82  
docs citations

82  
times ranked

747  
citing authors

#	ARTICLE	IF	CITATIONS
1	A bulk microfabricated multi-axis capacitive cellular force sensor using transverse comb drives. <i>Journal of Micromechanics and Microengineering</i> , 2002, 12, 832-840.	2.6	152
2	Analytical model for analysis and design of V-shaped thermal microactuators. <i>Journal of Microelectromechanical Systems</i> , 2005, 14, 788-798.	2.5	114
3	Microchaotic Motion of Digitally Controlled Machines. <i>JVC/Journal of Vibration and Control</i> , 1998, 4, 427-443.	2.6	50
4	PCB-integrated metallic thermal micro-actuators. <i>Sensors and Actuators A: Physical</i> , 2003, 105, 76-82.	4.1	44
5	Analysis of water and proton fluxes in ion-exchange polymer-metal composite (IPMC) actuators subjected to large external potentials. <i>Sensors and Actuators A: Physical</i> , 2005, 122, 264-272.	4.1	41
6	Microassembly Experiments With Transparent Electrostatic Gripper Under Optical and Vision-Based Control. <i>IEEE Transactions on Industrial Electronics</i> , 2005, 52, 1005-1012.	7.9	34
7	Three-dimensional microfabrication for a multi-degree-of-freedom capacitive force sensor using fibre-chip coupling. <i>Journal of Micromechanics and Microengineering</i> , 2000, 10, 492-497.	2.6	29
8	Goldmann applanation tonometry error relative to true intracameral intraocular pressure in vitro and in vivo. <i>BMC Ophthalmology</i> , 2017, 17, 215.	1.4	29
9	Charge writing in silicon-silicon dioxide for nano-assembly. <i>Nanotechnology</i> , 2004, 15, 1211-1216.	2.6	26
10	Goldmann tonometer error correcting prism: clinical evaluation. <i>Clinical Ophthalmology</i> , 2017, Volume 11, 835-840.	1.8	26
11	Mechatronic Aeropendulum: Demonstration of Linear and Nonlinear Feedback Control Principles With MATLAB/Simulink Real-Time Windows Target. <i>IEEE Transactions on Education</i> , 2012, 55, 538-545.	2.4	21
12	Goldmann Tonometer Prism with an Optimized Error Correcting Applanation Surface. <i>Translational Vision Science and Technology</i> , 2016, 5, 4.	2.2	20
13	Optically transparent gripper for microassembly. , 2001, 4568, 40.		18
14	A thermodynamic field theory for anodic bonding of micro electro-mechanical systems (MEMS). <i>International Journal of Engineering Science</i> , 2000, 38, 135-158.	5.0	17
15	Nonlinear model-based parameter estimation and stability analysis of an aero-pendulum subject to digital delayed control. <i>International Journal of Dynamics and Control</i> , 2017, 5, 629-643.	2.5	17
16	Electrostatic focusing of electrospun Polymer(PEO) nanofibers. <i>Journal of Electrostatics</i> , 2018, 94, 21-29.	1.9	13
17	Design and development of a pulsed electromagnetic micro-actuator for 3D virtual tactile displays. <i>Mechatronics</i> , 2010, 20, 503-509.	3.3	12
18	Corneal Surface Asphericity, Roughness, and Transverse Contraction after Uniform Scanning Excimer Laser Ablation. , 2012, 53, 1296.		12

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19	Goldmann tonometry tear film error and partial correction with a shaped applanation surface. <i>Clinical Ophthalmology</i> , 2018, Volume 12, 71-78.	1.8	11
20	Micro-mechanical switch array for meso-scale actuation. <i>Sensors and Actuators A: Physical</i> , 2005, 121, 282-293.	4.1	10
21	Development of a pulsed electromagnetic micro-actuator for 3D tactile displays. , 2007, , .		10
22	One- and two-dimensional electrodynamic steering of electrospun polymer nanofibers. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	10
23	Electrotransport and deformation model of ion exchange membrane-based actuators. , 2000, , .		9
24	Teaching Classical Control System Course With Portable Student-Owned Mechatronic Kits. , 2012, , .		9
25	An optically transparent gripper for micro-assembly. <i>Journal of Micromechatronics</i> , 2002, 2, 121-140.	1.9	8
26	Feasibility Study of Optical Detection of Chatter Vibration During Milling. <i>International Journal of Optomechatronics</i> , 2010, 4, 195-214.	6.6	8
27	Experimental analysis of the stability of electrostatic bits for assisted nano-assembly. <i>Journal of Electrostatics</i> , 2006, 64, 1-9.	1.9	7
28	Novel temperature compensation technique for force-sensing piezoresistive devices. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 115017.	2.6	7
29	Goldmann and error correcting tonometry prisms compared to intracameral pressure. <i>BMC Ophthalmology</i> , 2018, 18, 2.	1.4	7
30	Image Segmentation and Analysis of Flexion-Extension Radiographs of Cervical Spines. <i>Journal of Medical Engineering</i> , 2014, 2014, 1-9.	1.1	6
31	Development of Wearable Micro-actuator Array for 3-D Virtual Tactile Displays. <i>Journal of Electromagnetic Analysis and Applications</i> , 2012, 04, 219-229.	0.2	6
32	Electroplated electro-fluidic interconnects for chemical sensors. <i>Sensors and Actuators A: Physical</i> , 2000, 84, 161-164.	4.1	5
33	Miniature MEMS-based data recorder for prognostics and health management (PHM). <i>IEEE Instrumentation and Measurement Magazine</i> , 2011, 14, 18-26.	1.6	5
34	Electrospinning under lateral electrostatic control in ambient atmosphere. <i>Journal of Electrostatics</i> , 2019, 98, 75-81.	1.9	5
35	Method for production of aligned nanofibers and fiber elasticity measurement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 113, 104151.	3.1	5
36	<title>MEMS-based single-cell penetration force sensor</title>. , 1999, , .		4

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37	Numerical Analysis of Muscle-Like Ionic Polymer Actuators. <i>Biotechnology Progress</i> , 2006, 22, 96-105.	2.6	4
38	Self-aligning electrostatic gripper for assembly of millimeter-sized parts. , 2007, , .		4
39	Trans-scleral tactile tonometry: An instrumented approach. <i>Medical Engineering and Physics</i> , 2013, 35, 937-943.	1.7	4
40	<title>Large deformation model of ion-exchange actuators using electrochemical potentials</title>. , 2002, 4695, 199.		3
41	Development of Voice-Coil Micro-Actuator for 3-D Virtual Tactile Displays. , 2011, , .		3
42	Thermal Load from a CO <sub>2</sub> Laser Radiant Energy Source Induces Changes in Corneal Surface Asphericity, Roughness, and Transverse Contraction. , 2012, 53, 4279.		3
43	Development of Tactile Eye Stiffness Sensor. <i>Experimental Mechanics</i> , 2013, 53, 819-828.	2.0	3
44	Application of GMR Sensors to Liquid Flow Sensing. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 914-921.	2.5	3
45	Composite thermal micro-actuator array for tactile displays. , 2003, , .		2
46	Magnetic particle enhanced microcantilever biosensor for rapid and Sensitive E. Coli detection. , 2009, , .		2
47	Capacitive transducer for condition based maintenance after harsh landing events. , 2011, , .		2
48	Dynamic Focusing of Electrospinning Process With Quadrupole Traps. , 2016, , .		2
49	Application of Sensory Body Schemas to Path Planning for Micro Air Vehicles (MAVs). , 2015, , .		2
50	A finite-element formulation for anodic bonding. <i>Smart Materials and Structures</i> , 2000, 9, 737-750.	3.5	1
51	Micro-assembly cell with dual optical/computer vision control for electrostatic gripping of MEMS. , 2003, , .		1
52	Micro- and Nano-assembly and Manipulation Techniques for MEMS. , 2006, , 135-156.		1
53	Novel extrusion system for the encapsulation of drug releasing bio-medical micro-robots. , 2009, , .		1
54	Development of a shape conveying interface based on tactile feedback. , 2009, , .		1

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55	Design of automated digital eye palpation exam for intraocular pressure measurement. , 2009, , .		1
56	Hardware Demonstration of Classical Undergraduate Control Design Methods Using MATLAB Real-Time Windows Target Environment. , 2011, , .		1
57	Photostress Testing Device for Diagnosing Retinal Disease. Photonics, 2014, 1, 211-219.	2.0	1
58	Tactile Eye Pressure Measurement Through the Eyelid. , 2015, , .		1
59	Image Schema Based Landing and Navigation for Rotorcraft MAV-s. , 2015, , .		1
60	Engineering Innovation in Biomedical Nanotechnology. , 2015, , .		1
61	Optimization and Long-Term Stability of Micro Flow Sensors for Smart VP Shunts. IEEE Sensors Journal, 2020, 20, 8455-8462.	4.7	1
62	Development of a High Sensitivity Three-Axis Force/Torque Sensor for Microassembly. , 2005, , .		1
63	Metallic Microactuators Based on Sacrificial Layer SU8 Release. , 2003, , .		1
64	<title>Finite element analysis of electric-field-assisted bonding</title>. , 2000, , .		0
65	Electrodeposited Micro-Actuators A Simple Tool for Impedance-Based Sensing. ECS Transactions, 2006, 3, 339-350.	0.5	0
66	Time Evolution of Current and Deformation of Ionâ€Exchange Polymer/metal Composite Actuators. Multidiscipline Modeling in Materials and Structures, 2006, 2, 95-115.	1.3	0
67	Trans-Scleral Tonometry: Mechanical Palpation of the Eye. , 2011, , .		0
68	Numerical Simulation and Stability Analysis of Thin Flexible Micro Film for Thermo-tunneling Application. , 2012, , .		0
69	Application of DQM Method to the Steady State Analysis of Thermo-Tunneling Electrodes. , 2013, , .		0
70	Evaluation of Electro-Spun Tubular Scaffolds to Create an Anastomosis Using the CAM Assay. , 2013, , .		0
71	Development of Haptic Communication Device for Disabled Persons. , 2016, , .		0
72	Thermal Drift and Dynamic Response of Micro Flow Sensors for Smart VP Shunts. , 2016, , .		0

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73	Nanofacture: Senior Design Experience in Nanotechnology. , 2016, , .		0
74	Electric Field-Assisted Assembly of Type-I Collagen for Applications in Biomedical Micro-Systems. , 2005, , .		0
75	A Shape Display Method Based on Electromagnetic Localization and Actuation. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2010, 6, 157-160.	0.4	0
76	Flexible Electrode Structures for Thermo-Tunneling Applications. , 2011, , .		0
77	Experimental and Numerical Analysis of Ocular Tactile Tonometry. , 2012, , .		0
78	Development of a Non-Invasive Calibration Method for Ocular Tactile Tonometry. , 2013, , .		0
79	Electromagnetic Microactuator-Array Based Virtual Tactile Display. Lecture Notes in Computer Science, 2016, , 53-60.	1.3	0