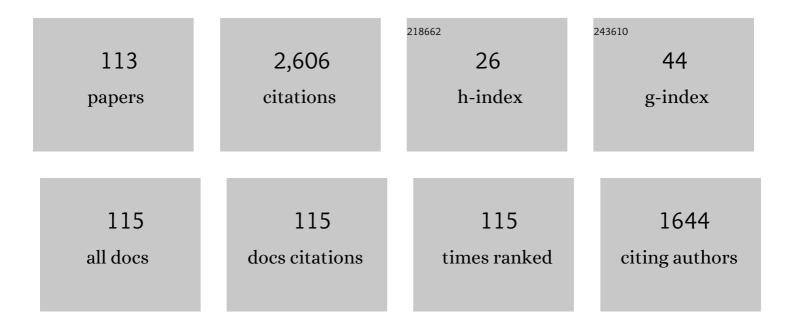
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9314548/publications.pdf Version: 2024-02-01



7HENCLI

#	Article	IF	CITATIONS
1	Design and Analysis of a Bio-Inspired Wire-Driven Multi-Section Flexible Robot. International Journal of Advanced Robotic Systems, 2013, 10, 209.	2.1	140
2	Kinematic comparison of surgical tendon-driven manipulators and concentric tube manipulators. Mechanism and Machine Theory, 2017, 107, 148-165.	4.5	135
3	A Novel Robot Fish With Wire-Driven Active Body and Compliant Tail. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1633-1643.	5.8	114
4	A novel constrained wire-driven flexible mechanism and its kinematic analysis. Mechanism and Machine Theory, 2016, 95, 59-75.	4.5	98
5	Electromagnetic Positioning for Tip Tracking and Shape Sensing of Flexible Robots. IEEE Sensors Journal, 2015, 15, 4565-4575.	4.7	94
6	Robotic Glove with Soft-Elastic Composite Actuators for Assisting Activities of Daily Living. Soft Robotics, 2019, 6, 289-304.	8.0	94
7	Real-Time Shape Estimation for Wire-Driven Flexible Robots With Multiple Bending Sections Based on Quadratic Bézier Curves. IEEE Sensors Journal, 2015, 15, 6326-6334.	4.7	82
8	A Review on Flexible Robotic Systems for Minimally Invasive Surgery. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 631-644.	9.3	77
9	Computer-Assisted Transoral Surgery with Flexible Robotics and Navigation Technologies: A Review of Recent Progress and Research Challenges. Critical Reviews in Biomedical Engineering, 2013, 41, 365-391.	0.9	71
10	Shape reconstruction for wire-driven flexible robots based on Bézier curve and electromagnetic positioning. Mechatronics, 2015, 29, 28-35.	3.3	71
11	Autonomous Flexible Endoscope for Minimally Invasive Surgery With Enhanced Safety. IEEE Robotics and Automation Letters, 2019, 4, 2607-2613.	5.1	61
12	Model-based online learning and adaptive control for a "human-wearable soft robot―integrated system. International Journal of Robotics Research, 2021, 40, 256-276.	8.5	56
13	Workspace analysis of cable-driven continuum manipulators based on static model. Robotics and Computer-Integrated Manufacturing, 2018, 49, 240-252.	9.9	55
14	Robotic Endoscopy. Visceral Medicine, 2018, 34, 45-51.	1.3	47
15	Design and Analysis of a Biomimetic Wire-Driven Robot Arm. , 2011, , .		44
16	Shape-Reconstruction-Based Force Sensing Method for Continuum Surgical Robots With Large Deformation. IEEE Robotics and Automation Letters, 2017, 2, 1972-1979.	5.1	43
17	Central Pattern Generator (CPG) Control of a Biomimetic Robot Fish for Multimodal Swimming. Journal of Bionic Engineering, 2019, 16, 222-234.	5.0	42
18	An Experimental Study on the Fish Body Flapping Patterns by Using a Biomimetic Robot Fish. IEEE Robotics and Automation Letters, 2020, 5, 64-71.	5.1	42

#	Article	IF	CITATIONS
19	A Novel Tele-Operated Flexible Robot Targeted for Minimally Invasive Robotic Surgery. Engineering, 2015, 1, 073-078.	6.7	39
20	An Accelerated Finite-Time Convergent Neural Network for Visual Servoing of a Flexible Surgical Endoscope With Physical and RCM Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5272-5284.	11.3	39
21	Design and Control of a Highly Redundant Rigid-flexible Coupling Robot to Assist the COVID-19 Oropharyngeal-Swab Sampling. IEEE Robotics and Automation Letters, 2022, 7, 1856-1863.	5.1	39
22	Design of a Novel Flexible Endoscope—Cardioscope. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	37
23	The Role of MicroRNAS in Ankylosing Spondylitis. Medicine (United States), 2016, 95, e3325.	1.0	36
24	Statics modeling of an underactuated wire-driven flexible robotic arm. , 2014, , .		33
25	Design and prototyping of a soft earthworm-like robot targeted for GI tract inspection. , 2016, , .		33
26	An Accelerated Recurrent Neural Network for Visual Servo Control of a Robotic Flexible Endoscope With Joint Limit Constraint. IEEE Transactions on Industrial Electronics, 2020, 67, 10787-10797.	7.9	31
27	Designs of the Biomimetic Robotic Fishes Performing Body and/or Caudal Fin (BCF) Swimming Locomotion: A Review. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	3.4	31
28	Robot fish with a novel biomimetic wire-driven flapping propulsor. Advanced Robotics, 2014, 28, 339-349.	1.8	30
29	Safety-Enhanced Motion Planning for Flexible Surgical Manipulator Using Neural Dynamics. IEEE Transactions on Control Systems Technology, 2017, 25, 1711-1723.	5.2	30
30	Soft Rehabilitation Actuator With Integrated Post-stroke Finger Spasticity Evaluation. Frontiers in Bioengineering and Biotechnology, 2020, 8, 111.	4.1	29
31	A Novel Flexible Robotic Endoscope With Constrained Tendon-Driven Continuum Mechanism. IEEE Robotics and Automation Letters, 2020, 5, 1366-1372.	5.1	28
32	A Biomimetic Soft Robot for Inspecting Pipeline with Significant Diameter Variation. , 2018, , .		25
33	Optimization of the Polishing Efficiency and Torque by Using Taguchi Method and ANOVA in Robotic Polishing. Applied Sciences (Switzerland), 2020, 10, 824.	2.5	25
34	Robot Fish with Novel Wire-Driven Continuum Flapping Propulsor. Applied Mechanics and Materials, 0, 300-301, 510-514.	0.2	24
35	Future of uniportal video-assisted thoracoscopic surgery—emerging technology. Annals of Cardiothoracic Surgery, 2016, 5, 127-132.	1.7	24
36	Robot fish with two-DOF pectoral fins and a wire-driven caudal fin. Advanced Robotics, 2018, 32, 25-36.	1.8	24

#	Article	IF	CITATIONS
37	Visual Servo Control of a Novel Magnetic Actuated Endoscope for Uniportal Video-Assisted Thoracic Surgery. IEEE Robotics and Automation Letters, 2019, 4, 3098-3105.	5.1	21
38	Path Planning under Force Control in Robotic Polishing of the Complex Curved Surfaces. Applied Sciences (Switzerland), 2019, 9, 5489.	2.5	21
39	A Probabilistic Model-Based Online Learning Optimal Control Algorithm for Soft Pneumatic Actuators. IEEE Robotics and Automation Letters, 2020, 5, 1437-1444.	5.1	20
40	Visual Servo of a 6-DOF Robotic Stereo Flexible Endoscope Based on da Vinci Research Kit (dVRK) System. IEEE Robotics and Automation Letters, 2020, 5, 820-827.	5.1	20
41	Deep Learning Assisted Robotic Magnetic Anchored and Guided Endoscope for Real-Time Instrument Tracking. IEEE Robotics and Automation Letters, 2021, 6, 3979-3986.	5.1	20
42	Design and analysis of a biomimetic wire-driven flapping propeller. , 2012, , .		19
43	Shape Sensing of Flexible Manipulators With Visual Occlusion Based on Bezier Curve. IEEE Sensors Journal, 2018, 18, 8133-8142.	4.7	19
44	Design of a 3D Printed Soft Robotic Hand for Stroke Rehabilitation and Daily Activities Assistance. , 2019, 2019, 65-70.		19
45	Accelerated Dual Neural Network Controller for Visual Servoing of Flexible Endoscopic Robot With Tracking Error, Joint Motion, and RCM Constraints. IEEE Transactions on Industrial Electronics, 2022, 69, 9246-9257.	7.9	19
46	A collaborative robot for COVID-19 oropharyngeal swabbing. Robotics and Autonomous Systems, 2022, 148, 103917.	5.1	19
47	A novel constrained tendon-driven serpentine manipulator. , 2015, , .		17
48	A Novel Iterative Learning Model Predictive Control Method for Soft Bending Actuators. , 2019, , .		17
49	Kinematic Modeling and Visual Servo Control of a Soft-Bodied Magnetic Anchored and Guided Endoscope. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1531-1542.	5.8	17
50	Effects of a Soft Robotic Hand for Hand Rehabilitation in Chronic Stroke Survivors. Journal of Stroke and Cerebrovascular Diseases, 2021, 30, 105812.	1.6	17
51	Robot tadpole with a novel biomimetic wire-driven propulsor. , 2012, , .		15
52	The design and prototyping of a wire-driven robot fish with pectoral fins. , 2013, , .		15
53	Expanding workspace of underactuated flexible manipulators by actively deploying constraints. , 2014, , .		15
54	A robotic flexible endoscope with shared autonomy: a study of mockup cholecystectomy. Surgical Endoscopy and Other Interventional Techniques, 2020, 34, 2730-2741.	2.4	15

#	Article	IF	CITATIONS
55	Design and kinematic modeling of a concentric wire-driven mechanism targeted for minimally invasive surgery. , 2016, , .		14
56	Shared Autonomy of a Flexible Manipulator in Constrained Endoluminal Surgical Tasks. IEEE Robotics and Automation Letters, 2019, 4, 3106-3112.	5.1	14
57	Probabilistic Model-Based Learning Control of a Soft Pneumatic Glove for Hand Rehabilitation. IEEE Transactions on Biomedical Engineering, 2022, 69, 1016-1028.	4.2	14
58	Design and Preliminary Evaluation of an Electromagnetically Actuated Soft-Tethered Colonoscope. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 402-413.	3.2	14
59	Augmented Reality-Assisted Autonomous View Adjustment of a 6-DOF Robotic Stereo Flexible Endoscope. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 356-367.	3.2	14
60	Design and Analysis of a Wire-Driven Robot Tadpole. , 2012, , .		11
61	Bladderless swaying wire-driven Robot Shark. , 2015, , .		11
62	Recent clinical innovations in thoracic surgery in Hong Kong. Journal of Thoracic Disease, 2016, 8, S618-S626.	1.4	11
63	Minimum sweeping area motion planning for flexible serpentine surgical manipulator with kinematic constraints. , 2015, , .		10
64	Innovative surgical endoscopes in video-assisted thoracic surgery. Journal of Thoracic Disease, 2018, 10, S749-S755.	1.4	10
65	A Novel Soft Robotic Glove for Daily Life Assistance. , 2018, , .		10
66	Real-Time Deformation Sensing for Flexible Manipulators With Bending and Twisting. IEEE Sensors Journal, 2018, 18, 6412-6422.	4.7	10
67	A Semi-Autonomous Stereotactic Brain Biopsy Robot With Enhanced Safety. IEEE Robotics and Automation Letters, 2020, 5, 1405-1412.	5.1	10
68	Verification of Finger Joint Stiffness Estimation Method With Soft Robotic Actuator. Frontiers in Bioengineering and Biotechnology, 2020, 8, 592637.	4.1	9
69	FlexiVision: Teleporting the Surgeon's Eyes via Robotic Flexible Endoscope and Head-Mounted Display. , 2020, , .		9
70	A Surgeon Preference-Guided Autonomous Instrument Tracking Method With a Robotic Flexible Endoscope Based on dVRK Platform. IEEE Robotics and Automation Letters, 2022, 7, 2250-2257.	5.1	9
71	6-D Spatial Localization of Wireless Magnetically Actuated Capsule Endoscopes Based on the Fusion of Hall Sensor Array and IMU. IEEE Sensors Journal, 2022, 22, 13424-13433.	4.7	9
72	A novel tele-operated flexible surgical arm with optimal trajectory tracking aiming for minimally		8

invasive neurosurgery., 2015,,.

8

#	Article	IF	CITATIONS
73	Latest technology in minimally invasive thoracic surgery. Annals of Translational Medicine, 2019, 7, 35-35.	1.7	8
74	Design and Implementation of a Novel, Intrinsically Safe Rigid-Flexible Coupling Manipulator for COVID-19 Oropharyngeal Swab Sampling. , 2021, , .		8
75	An Autonomous Robotic Flexible Endoscope System with a DNA-inspired Continuum Mechanism. , 2021, ,		8
76	Design and modeling of a novel DNA-inspired helix-based continuum mechanism (DHCM). Mechanism and Machine Theory, 2022, 171, 104702.	4.5	8
77	Flying Octopus â \in " A LTAV With Wire-Driven Flapping Wings. , 2012, , .		7
78	Static modeling and analysis of continuum surgical robots. , 2016, , .		7
79	Design and Motion Control of Biomimetic Soft Crawling Robot for GI Tract Inspection. , 2018, , .		7
80	A Biarc Method for Kinematics and Configuration Planning of Concentric Wire-Driven Manipulators. IEEE Access, 2019, 7, 151439-151448.	4.2	7
81	A Novel Biomimic Soft Snail Robot Aiming for Gastrointestinal (GI) Tract Inspection. , 2020, , .		7
82	Optimal teleoperation control of a constrained tendon-driven serpentine manipulator. , 2015, , .		6
83	A Spatial Biarc Method for Inverse Kinematics and Configuration Planning of Concentric Cable-Driven Manipulators. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4177-4186.	9.3	6
84	Orientation Control of an Electromagnetically Actuated Soft-Tethered Colonoscope Based on 2OR Pseudo-Rigid-Body Model. , 2021, , .		6
85	A novel underactuated wire-driven robot fish with vector propulsion. , 2013, , .		5
86	Design of a Novel Flexible Endoscope-Cardioscope. , 2015, , .		5
87	Design and prototyping of a soft magnetic anchored and guidance endoscope system. , 2017, , .		5
88	Design and Modeling of a Biomimetic Gastropod-like Soft Robot with Wet Adhesive Locomotion. , 2021, , .		5
89	A Novel Magnetic Anchored and Steered Camera Robot for Single Port Access Surgery. , 2018, , .		4
90	Design and Evaluation of a Soft-Bodied Magnetic Anchored and Guided Endoscope. Journal of Medical Robotics Research, 2018, 03, 1841007.	1.2	4

#	Article	IF	CITATIONS
91	Dynamic Modeling of a Novel Kind of Rigid-Soft Coupling Biomimetic Robotic Fish. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 105, .	3.4	4
92	A novel double-hull boat with biomimetic wire-driven flapping propulsors. , 2014, , .		3
93	Will the robot take over endoscopy?. Endoscopy, 2015, 47, 773-774.	1.8	3
94	External Force Estimation of Impedance-Type Driven Mechanism for Surgical Robot with Kalman Filter. , 2018, , .		3
95	A Coaxial Vision Assembly Algorithm for Un-centripetal Holes on Large-scale Stereo Workpiece Using Multiple-DOF Robot. , 2018, , .		3
96	The future of thoracoscopes. Video-Assisted Thoracic Surgery, 0, 4, 6-6.	0.1	3
97	A Novel Design of a Wall-Climbing Robot and Experimental Study on Magnetic Wheels. , 2021, , .		3
98	Analytical Modeling of the Interaction Between Soft Balloon-Like Actuators and Soft Tubular Environment for Gastrointestinal Inspection. Soft Robotics, 2022, 9, 386-398.	8.0	3
99	A Kinematic Modeling and Control Scheme for Different Robotic Endoscopes: A Rudimentary Research Prototype. IEEE Robotics and Automation Letters, 2022, 7, 8885-8892.	5.1	3
100	A compact continuum manipulator system with enhanced steering abilities for robot-assisted surgery. , 2016, , .		2
101	A Novel Tele-operated Flexible Manipulator Based on the da-Vinci Research Kit. , 2018, , .		2
102	Modeling and Experimental Validation of the Chaotic Behavior of a Robot Whip. Journal of Mechanics, 2020, 36, 373-394.	1.4	2
103	Static Model Assisted Stereo-Visual Shape Sensing of Flexible Manipulators. IEEE Sensors Journal, 2021, 21, 11684-11691.	4.7	2
104	A Combined Planning Method Based on Biarc Curve and Bézier Curve for Concentric Cable-Driven Manipulators Working in Confined Environments. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4475-4486.	5.8	2
105	Editorial: Flexible Surgical Robotics: Design, Modeling, Sensing and Control. Frontiers in Robotics and AI, 2022, 9, 854024.	3.2	2
106	Design and Analysis of a Long-range Magnetic Actuated and Guided Endoscope for Uniport VATS. , 2022, , .		2
107	Design and prototyping of a concentric wire-driven manipulator. , 2016, , .		1
108	Innovations in surgical scopes—wireless steerable endoscopes and magnetic cameras. Shanghai Chest, 0, 1, 64-64.	0.3	1

#	Article	IF	CITATIONS
109	Trans-diaphragmatic chest surgery: Bringing owls to Athens?. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 1300-1301.	0.8	1
110	Achieving Position Synchronization in Passive Bilateral Teleoperation. , 2018, , .		1
111	Future Development and Technologies. , 2019, , 283-289.		1
112	Robotic Polishing of the Thin Plate Eyeglasses frame Under Effective Path Planning and Stable Force. , 2020, , .		0
113	Configuration, Layout, and Pose Optimization of Surgical Robotic System. , 2021, , .		0