

# CITATION REPORT

List of articles citing

## A Bioinspired Soft Robotic Gripper for Adaptable and Effective Grasping

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#	Paper	IF	Citations
248	Shadow delivers first hand. <b>2005</b> , 32, 15-16		78
247	Contest-Driven Soft-Robotics Boost: The RoboSoft Grand Challenge. <b>2016</b> , 3,		9
246	Soft Manipulators and Grippers: A Review. <b>2016</b> , 3,		231
245	A Novel, Variable Stiffness Robotic Gripper Based on Integrated Soft Actuating and Particle Jamming. <i>Soft Robotics</i> , <b>2016</b> , 3, 134-143	9.2	142
244	A topology optimisation based design of a compliant gripper for grasping objects with irregular shapes. <b>2016</b> ,		4
243	Interactions Between Dielectric Elastomer Actuators and Soft Bodies. <i>Soft Robotics</i> , <b>2016</b> , 3, 161-169	9.2	22
242	From Animals to Animats 14. <b>2016</b> ,		5
241	A Biologically Inspired Soft Robotic Hand Using Chopsticks for Grasping Tasks. <b>2016</b> , 195-206		3
240	High-Force Soft Printable Pneumatics for Soft Robotic Applications. <i>Soft Robotics</i> , <b>2016</b> , 3, 144-158	9.2	279
239	A compliant modular robotic hand with fabric force sensor for multiple versatile grasping modes. <b>2016</b> ,		10
238	Meso-Scale Digital Materials: Modular, Reconfigurable, Lattice-Based Structures. <b>2016</b> ,		18
237	Modeling and Validation of a Novel Bending Actuator for Soft Robotics Applications. <i>Soft Robotics</i> , <b>2016</b> , 3, 71-81	9.2	36
236	Enhancement of finger motion range with compliant anthropomorphic joint design. <b>2016</b> , 11, 026001		24
235	Anthropomorphic finger for grasping applications: 3D printed endoskeleton in a soft skin. <b>2017</b> , 91, 2607-2620		16
234	Hybrid Tele-Manipulation System Using a Sensorized 3-D-Printed Soft Robotic Gripper and a Soft Fabric-Based Haptic Glove. <b>2017</b> , 2, 880-887		54
233	A Soft-Robotic Gripper With Enhanced Object Adaptation and Grasping Reliability. <b>2017</b> , 2, 2287-2293		118
232	Shape Memory Alloy-Based Soft Gripper with Variable Stiffness for Compliant and Effective Grasping. <i>Soft Robotics</i> , <b>2017</b> , 4, 379-389	9.2	137

231	Modeling and experiments of a soft robotic gripper in amphibious environments. <i>International Journal of Advanced Robotic Systems</i> , <b>2017</b> , 14, 172988141770714	1.4	44
230	Digital Morphing Wing: Active Wing Shaping Concept Using Composite Lattice-Based Cellular Structures. <i>Soft Robotics</i> , <b>2017</b> , 4, 33-48	9.2	97
229	Adaptive gripper with soft sheets for a uniformly distributed grasping force. <b>2017</b> ,		
228	A bidirectional soft pneumatic fabric-based actuator for grasping applications. <b>2017</b> ,		13
227	SIMBA: Tendon-Driven Modular Continuum Arm with Soft Reconfigurable Gripper. <b>2017</b> , 4,		25
226	Topology Optimized Design, Fabrication, and Characterization of a Soft Cable-Driven Gripper. <b>2018</b> , 3, 2463-2470		59
225	A Variable Stiffness Robotic Gripper Based on Structure-Controlled Principle. <b>2018</b> , 15, 1104-1113		16
224	Fabrication and characterization of bending and pressure sensors for a soft prosthetic hand. <b>2018</b> , 28, 034001		46
223	Research and design of a multi-fingered hand made of hyperelastic material. <b>2018</b> , 38, 249-258		3
222	A Reconfigurable Omnidirectional Soft Robot Based on Caterpillar Locomotion. <i>Soft Robotics</i> , <b>2018</b> , 5, 164-174	9.2	51
221	Exploiting the Dynamics of Soft Materials for Machine Learning. <i>Soft Robotics</i> , <b>2018</b> , 5, 339-347	9.2	52
220	A soft robotic hand: design, analysis, sEMG control, and experiment. <b>2018</b> , 97, 319-333		30
219	A Soft Bionic Gripper with Variable Effective Length. <b>2018</b> , 15, 220-235		51
218	A eutectic-alloy-infused soft actuator with sensing, tunable degrees of freedom, and stiffness properties. <b>2018</b> , 28, 024004		46
217	Tunable smart digital structure (SDS) to modularly assemble soft actuators with layered adhesive bonding. <b>2018</b> , 27, 015012		3
216	. <b>2018</b> ,		3
215	Design, Manufacturing, and Characterization of a Pneumatically-Actuated Soft Hand. <b>2018</b> ,		
214	Soft Robots Manufacturing: A Review. <b>2018</b> , 5, 84		102

213	Geometry-based Direct Simulation for Multi-Material Soft Robots. <b>2018,</b>		6
212	Regressing grasping using force myography: an exploratory study. <b>2018, 17, 159</b>		7
211	Elastomeric passive transmission for autonomous force-velocity adaptation applied to 3D-printed prosthetics. <b>2018, 3,</b>		31
210	Experimental Verification of a Completely Soft Gripper for Grasping and Classifying Beam Members in Truss Structures. <b>2018,</b>		2
209	A Soft Robotic Gripper Module with 3D Printed Compliant Fingers for Grasping Fruits. <b>2018,</b>		2
208	Kinematics and Force Analysis of Flexible Screw Mechanism for a Worm Robot. <i>Journal of Mechanisms and Robotics</i> , <b>2018, 10,</b>	2.2	2
207	Electronic skins for soft, compact, reversible assembly of wirelessly activated fully soft robots. <b>2018, 3,</b>		104
206	Soft Robotic Grippers. <b>2018, 30, e1707035</b>		555
205	Bioinspired 3D Printable Soft Vacuum Actuators for Locomotion Robots, Grippers and Artificial Muscles. <i>Soft Robotics</i> , <b>2018, 5, 685-694</b>	9.2	65
204	Topology Optimization and Prototype of a Three-Dimensional Printed Compliant Finger for Grasping Vulnerable Objects With Size and Shape Variations. <i>Journal of Mechanisms and Robotics</i> , <b>2018, 10,</b>	2.2	14
203	Design and optimization of a robotic gripper for the FEM assembly process of vehicles. <b>2018, 129, 1-16</b>		8
202	Sleeved Bending Actuators for Soft Grippers: A Durable Solution for High Force-to-Weight Applications. <b>2018, 7, 40</b>		30
201	Effects of material properties on soft gripper grasping forces. <b>2018,</b>		5
200	Design and Development of a Topology-Optimized Three-Dimensional Printed Soft Gripper. <i>Soft Robotics</i> , <b>2018, 5, 650-661</b>	9.2	26
199	Distributed design of passive particle jamming based soft grippers. <b>2018,</b>		10
198	A Robot Self-learning Grasping Control Method Based on Gaussian Process and Bayesian Algorithm. <b>2018, 79-98</b>		
197	Optimal Design of a Soft Robotic Gripper for Grasping Unknown Objects. <i>Soft Robotics</i> , <b>2018, 5, 452-465</b>	9.2	38
196	Investigation on Developing a Topology Optimized and 3D Printable Multimaterial Soft Gripper. <b>2018,</b>		2

195	Precharged Pneumatic Soft Actuators and Their Applications to Untethered Soft Robots. <i>Soft Robotics</i> , <b>2018</b> , 5, 567-575	9.2	28
194	A Soft-Robotic Approach to Anthropomorphic Robotic Hand Dexterity. <b>2019</b> , 7, 101483-101495		39
193	A Vacuum-driven Origami Magic-ball Soft Gripper. <b>2019</b> ,		50
192	Integration of Thermoresponsive Velcro-like Adhesive for Soft Robotic Grasping of Fabrics or Smooth Surfaces. <b>2019</b> ,		2
191	A Novel Dual-Drive Soft Pneumatic Actuator with the Improved Output Force. <b>2019</b> , 16-25		1
190	Bio-Inspired Shape-Adaptive Soft Robotic Grippers Augmented with Electroadhesion Functionality. <i>Soft Robotics</i> , <b>2019</b> , 6, 701-712	9.2	22
189	Analysis and Application of the Bending Actuators Used in Soft Robotics. <b>2019</b> , 568-575		0
188	Design of a Soft Composite Finger with Adjustable Joint Stiffness. <i>Soft Robotics</i> , <b>2019</b> , 6, 722-732	9.2	10
187	Flexure-Based Variable Stiffness Gripper for Large-Scale Grasping Force Regulation with Vision. <b>2019</b> , 346-357		
186	Multi-DoF Force Characterization of Soft Actuators. <b>2019</b> , 4, 3679-3686		8
185	Directly 3D-printed monolithic soft robotic gripper with liquid metal microchannels for tactile sensing. <b>2019</b> , 4, 035001		10
184	Development of Active Soft Robotic Manipulators for Stable Grasping Under Slippery Conditions. <b>2019</b> , 7, 97604-97613		4
183	A Soft Actuator with Tunable Mechanical Configurations for Object Grasping Based on Sensory Feedback. <b>2019</b> ,		4
182	Design Analysis of a Fabric Based Lightweight Robotic Gripper. <b>2019</b> , 16-27		3
181	A Multi-Material Self-Healing Soft Gripper. <b>2019</b> ,		8
180	. <b>2019</b> , 24, 2118-2129		39
179	A 3D-Printed Omni-Purpose Soft Gripper. <b>2019</b> , 35, 1268-1275		46
178	Optimal Design of Soft Pneumatic Bending Actuators Subjected to Design-Dependent Pressure Loads. <b>2019</b> , 24, 2873-2884		11

177	A Validated Physical Model For Real-Time Simulation of Soft Robotic Snakes. <b>2019</b> ,		5
176	Topology and Size/Shape Optimization of an Adaptive Compliant Gripper with High Mechanical Advantage for Grasping Irregular Objects. <b>2019</b> , 37, 1383-1400		17
175	Fiber Optic Shape Sensing for Soft Robotics. <i>Soft Robotics</i> , <b>2019</b> , 6, 671-684	9.2	44
174	FifoBots: Foldable Soft Robots for Flipping Locomotion. <i>Soft Robotics</i> , <b>2019</b> , 6, 532-559	9.2	8
173	Vacuum-Powered Soft Pneumatic Twisting Actuators to Empower New Capabilities for Soft Robots. <b>2019</b> , 4, 1800429		32
172	Multi-level control architecture for Bionic Handling Assistant robot augmented by learning from demonstration for apple-picking. <b>2019</b> , 33, 469-485		6
171	Modeling the Bending Behavior of Fiber-Reinforced Pneumatic Actuators Using a Pseudo-Rigid-Body Model. <i>Journal of Mechanisms and Robotics</i> , <b>2019</b> , 11,	2.2	7
170	Reinforcement Learning Control of a Shape Memory Alloy-based Bionic Robotic Hand. <b>2019</b> ,		0
169	. <b>2019</b> ,		4
168	Design and experiment of a universal two-fingered hand with soft fingertips based on jamming effect. <b>2019</b> , 133, 706-719		18
167	Chain-Like Granular Jamming: A Novel Stiffness-Programmable Mechanism for Soft Robotics. <i>Soft Robotics</i> , <b>2019</b> , 6, 118-132	9.2	31
166	Soft Fabric-Based Pneumatic Sensor for Bending Angles and Contact Force Detection. <b>2019</b> , 19, 1269-1279		14
165	High-Load Soft Grippers Based on Bionic Winding Effect. <i>Soft Robotics</i> , <b>2019</b> , 6, 276-288	9.2	19
164	Soft timer: Dynamic clock embedded in soft body. <b>2019</b> , 181-196		4
163	A Novel Fabric-Based Versatile and Stiffness-Tunable Soft Gripper Integrating Soft Pneumatic Fingers and Wrist. <i>Soft Robotics</i> , <b>2019</b> , 6, 1-20	9.2	41
162	Topology Optimized Multimaterial Soft Fingers for Applications on Grippers, Rehabilitation, and Artificial Hands. <b>2019</b> , 24, 120-131		49
161	. <b>2019</b> , 66, 6108-6116		50
160	4D printing of materials for the future: Opportunities and challenges. <b>2020</b> , 18, 100490		81

159	Modeling and Analysis of Soft Pneumatic Actuator with Symmetrical Chambers Used for Bionic Robotic Fish. <i>Soft Robotics</i> , <b>2020</b> , 7, 168-178	9.2	13
158	A soft gripper with variable stiffness inspired by pangolin scales, toothed pneumatic actuator and autonomous controller. <b>2020</b> , 61, 101848		38
157	Electrohydraulic Actuator for a Soft Gripper. <i>Soft Robotics</i> , <b>2020</b> , 7, 68-75	9.2	34
156	Shape Memory Alloy-Based Soft Finger with Changeable Bending Length Using Targeted Variable Stiffness. <i>Soft Robotics</i> , <b>2020</b> , 7, 283-291	9.2	21
155	Learning to Control Reconfigurable Staged Soft Arms. <b>2020</b> ,		1
154	A 1-Dof bidirectional graspable finger mechanism for robotic gripper. <b>2020</b> , 34, 4735-4741		5
153	A survey on underactuated robotic systems: Bio-inspiration, trajectory planning and control. <b>2020</b> , 72, 102443		19
152	. <b>2020</b> ,		0
151	Design and implementation of variable inclined air pillow soft pneumatic actuator suitable for bioimpedance applications. <b>2020</b> , 314, 112272		11
150	A Bidirectional 3D-printed Soft Pneumatic Actuator and Graphite-based Flex Sensor for Versatile Grasping*. <b>2020</b> ,		4
149	An Integrated Multi-Sensor Network for Adaptive Grasping of Fragile Fruits: Design and Feasibility Tests. <i>Sensors</i> , <b>2020</b> , 20,	3.8	2
148	Circular Shell Gripper for Handling Food Products. <i>Soft Robotics</i> , <b>2021</b> , 8, 542-554	9.2	9
147	A Novel Computer-Controlled Maskless Fabrication Process for Pneumatic Soft Actuators. <b>2020</b> , 9, 136		0
146	Sliding Mode Control With PID Sliding Surface for Active Vibration Damping of Pneumatically Actuated Soft Robots. <b>2020</b> , 8, 88793-88800		25
145	A Reconfigurable Design for Omni-Adaptive Grasp Learning. <b>2020</b> , 1-1		6
144	Leveraging elastic instabilities for amplified performance: Spine-inspired high-speed and high-force soft robots. <b>2020</b> , 6, eaaz6912		98
143	Biomedical soft robots: current status and perspective. <b>2020</b> , 10, 369-385		10
142	Design and characterization of a hybrid soft gripper with active palm pose control. <b>2020</b> , 39, 1668-1685		18

141	Additive Manufacturing for Soft Robotics: Design and Fabrication of Airtight, Monolithic Bending PneuNets with Embedded Air Connectors. <b>2020</b> , 11,	15
140	Self-Healing and High Interfacial Strength in Multi-Material Soft Pneumatic Robots via Reversible DielsAlder Bonds. <b>2020</b> , 9, 34	15
139	. <b>2020</b> ,	8
138	Structural Optimization of Adaptive Soft Fin Ray Fingers with Variable Stiffening Capability. <b>2020</b> ,	3
137	Effect of object and human-factor characteristics on the preference of thumb-index finger grasp type. <b>2020</b> , 63, 1414-1424	1
136	Topology optimization of a cable-driven soft robotic gripper. <b>2020</b> , 62, 2749-2763	11
135	Design and Modeling of a High Force Soft Actuator for Assisted Elbow Flexion. <b>2020</b> , 5, 3731-3736	12
134	. <b>2020</b> ,	3
133	A Two-Finger Soft-Robotic Gripper With Enveloping and Pinching Grasping Modes. <b>2020</b> , 1-1	10
132	Design and Optimize of a Novel Segmented Soft Pneumatic Actuator. <b>2020</b> , 8, 122304-122313	5
131	A novel design of shape-memory alloy-based soft robotic gripper with variable stiffness. <i>International Journal of Advanced Robotic Systems</i> , <b>2020</b> , 17, 172988142090781	1.4 17
130	A dual-mode soft gripper for food packaging. <b>2020</b> , 125, 103427	43
129	Integration of Self-Sealing Suction Cups on the FLEXotendon Glove-II Robotic Exoskeleton System. <b>2020</b> , 5, 867-874	4
128	Smart Soft Actuators and Grippers Enabled by Self-Powered Tribo-Skins. <b>2020</b> , 5, 1901075	25
127	Hybrid System Analysis and Control of a Soft Robotic Gripper with Embedded Proprioceptive Sensing for Enhanced Gripping Performance. <b>2021</b> , 3, 2000061	3
126	Pneumatic Supply System Parameter Optimization for Soft Actuators. <i>Soft Robotics</i> , <b>2021</b> , 8, 152-163	9.2 15
125	Learning Optimal Fin-Ray Finger Design for Soft Grasping. <b>2020</b> , 7, 590076	1
124	Controlling bending deformation of a shape memory alloy-based soft planar gripper to grip deformable objects. <b>2021</b> , 193, 106181	8



123	The softness distribution index: towards the creation of guidelines for the modeling of soft-bodied robots. <b>2021</b> , 40, 197-223		4
122	Grasping Force Control of Robotic Gripper with High Stiffness. <b>2021</b> , 1-1		3
121	Shake and Take: Fast Transformation of an Origami Gripper. <b>2021</b> , 1-16		2
120	Enhancing the Universality of a Pneumatic Gripper via Continuously Adjustable Initial Grasp Postures. <b>2021</b> , 1-15		9
119	Design and Analysis of Universal Gripper for Robotics Applications. 1012, 012006		2
118	Theoretical modelling of soft robotic gripper with bioinspired fibrillar adhesives. <i>Mechanics of Advanced Materials and Structures</i> , 1-19	1.8	1
117	Soft Robotics: Research, Challenges, and Prospects. <b>2021</b> , 33, 45-68		4
116	Soft pneumatic gripper integrated with multi-configuration and variable-stiffness functionality. <b>2021</b> , 3, 70-77		1
115	A Review of 3D-Printable Soft Pneumatic Actuators and Sensors: Research Challenges and Opportunities. <b>2021</b> , 3, 2000223		19
114	. <b>2021</b> , 3, 166-178		3
113	A Scooping-Binding Robotic Gripper for Handling Various Food Products. <b>2021</b> , 8, 640805		5
112	A Gas-Ribbon-Hybrid Actuated Soft Finger with Active Variable Stiffness. <i>Soft Robotics</i> , <b>2021</b> ,	9.2	3
111	. <b>2021</b> ,		2
110	Bio-Inspired Soft Grippers Based on Impactive Gripping. <b>2021</b> , 8, 2002017		13
109	Soft Grippers for Automatic Crop Harvesting: A Review. <i>Sensors</i> , <b>2021</b> , 21,	3.8	12
108	Design of a novel simulated soft mechanical grasper. <b>2021</b> , 158, 104240		4
107	Soft Robotic Manipulation System Capable of Stiffness Variation and Dexterous Operation for Safe Human-Machine Interactions. <b>2021</b> , 6, 2100084		12
106	A Bioinspired Composite Finger With Self-Locking Joints. <b>2021</b> , 6, 1391-1398		2

105	ReSoft Gripper: A reconfigurable soft gripper with monolithic fingers and differential mechanism for versatile and delicate grasping. <b>2021</b> ,			1
104	A programmable origami-inspired webbed gripper. <b>2021</b> , 30, 055010			1
103	A Dual-Mode Actuator for Soft Robotic Hand. <b>2021</b> , 6, 1144-1151			5
102	Soft Origami Gripper with Variable Effective Length. <b>2021</b> , 3, 2000251			11
101	Comparison of Different Technologies for Soft Robotics Grippers. <i>Sensors</i> , <b>2021</b> , 21,	3.8		5
100	Intelligent Soft Surgical Robots for Next-Generation Minimally Invasive Surgery. <b>2021</b> , 3, 2100011			13
99	A Neural Network Based Dynamic Control Method for Soft Pneumatic Actuator with Symmetrical Chambers. <b>2021</b> , 10, 112			4
98	Bioinspired Soft Robotic Fingers with Sequential Motion Based on Tendon-Driven Mechanisms. <i>Soft Robotics</i> , <b>2021</b> ,	9.2		0
97	Design and Feasibility Tests of a Lightweight Soft Gripper for Compliant and Flexible Envelope Grasping. <i>Soft Robotics</i> , <b>2021</b> ,	9.2		2
96	A MATLAB-Based Framework for Designing 3D Topology Optimized Soft Robotic Grippers. <b>2021</b> ,			2
95	Design, Modeling and Motion Control of a Multi-Segment SMA Driven Soft Robotic Manipulator. <b>2021</b> ,			
94	A Bioinspired Compliant 3D-Printed Soft Gripper. <i>Soft Robotics</i> , <b>2021</b> ,	9.2		2
93	Design and Fabrication of a Bio-inspired Soft Robotic Gripper. <b>2022</b> , 1105-1111			0
92	Double-layered electrohydraulic actuator for bi-directional bending motion of soft gripper. <b>2021</b> ,			1
91	Paper-Based Robotics with Stackable Pneumatic Actuators. <i>Soft Robotics</i> , <b>2021</b> ,	9.2		0
90	Diaphragm-Type Pneumatic-Driven Soft Grippers for Precision Harvesting. <b>2021</b> , 11, 1727			1
89	Soft Robotics: Morphology and Morphology-inspired Motion Strategy. <b>2021</b> , 8, 1500-1522			6
88	Flow Path Optimization for Soft Pneumatic Actuators: Towards Optimal Performance and Portability. <b>2021</b> , 6, 7949-7956			7

87	Introducing POLYPUS: A novel adaptive vacuum gripper. <b>2022</b> , 167, 104483			3
86	Gaining a Sense of Touch Object Stiffness Estimation Using a Soft Gripper and Neural Networks. <b>2021</b> , 10, 96			2
85	Mechatronic Design of Functional Prosthetic Systems. <b>2021</b> , 37-43			
84	Multi-material 3D Printing of Thermoplastic Elastomers for Development of Soft Robotic Structures with Integrated Sensor Elements. <b>2021</b> , 67-81			5
83	Soft Fingers with Controllable Compliance to Enable Realization of Low Cost Grippers. <b>2017</b> , 544-550			5
82	Topology Synthesis and Optimal Design of an Adaptive Compliant Gripper to Maximize Output Displacement. <b>2018</b> , 90, 287-304			20
81	A magneto-active soft gripper with adaptive and controllable motion. <b>2021</b> , 30, 015024			8
80	Learning Closed Loop Kinematic Controllers for Continuum Manipulators in Unstructured Environments. <i>Soft Robotics</i> , <b>2017</b> , 4, 285-296	9.2		48
79	A Novel Simple, Adaptive, and Versatile Soft-Robotic Compliant Two-Finger Gripper With an Inherently Gentle Touch. <i>Journal of Mechanisms and Robotics</i> , <b>2021</b> , 13,	2.2		5
78	Soft gripper actuated by electro-hydraulic force. <b>2019</b> ,			3
77	The Design, Kinematics and Torque Analysis of the Self-Bending Soft Contraction Actuator. <b>2020</b> , 9, 33			3
76	Improving Structural Design of Soft Actuators Using Finite Element Method Analysis. <b>2020</b> , 18, 490-500			1
75	Design and Modeling of a Multi-joint Reinforced Soft Pneumatic Actuator. <b>2021</b> , 422-432			
74	Processing of Self-Healing Polymers for Soft Robotics. <b>2021</b> , e2104798			10
73	Experimental Results for QuBu Gripper: A 3-Jaw Electric Gripper. <b>2018</b> , 621-629			
72	Investigating Collaborative Robot Gripper Configurations for Simple Fabric Pick and Place Tasks.			1
71	ANSYS Simulation of Polyethylene for Soft-Robotic Applications. <b>2020</b> ,			
70	Force Control of a 3D Printed Soft Gripper with Built-In Pneumatic Touch Sensing Chambers. <i>Soft Robotics</i> , <b>2021</b> ,	9.2		5

- 69 Three-Fingered Soft Pneumatic Gripper Integrating Joint-Tuning Capability. *Soft Robotics*, **2021**, 9.2 1
- 68 Aspects regarding the development of a gripper with variable geometry. 997, 012076
- 67 Design of a Soft Gripper Mold for an End Effector in the Automation of Sugarcane Packaging. **2020**,
- 66 Long-term cycle-tests of an additively manufactured soft ring-gripper. **2021**, 104, 798-802 0
- 65 Vacuum Driven Auxetic Switching Structure and Its Application on a Gripper and Quadruped. **2020**,
- 64 A Two-Fingered Robot Gripper with Variable Stiffness Flexure Hinges Based on Shape Morphing. **2020**,
- 63 Dynamic Grasping with a "Soft" Drone: From Theory to Practice. **2021**, 3
- 62 A Soft Somesthetic Robotic Finger Based on Conductive Working Liquid and an Origami Structure. **2021**,
- 61 From Two-Dimensional to Three-Dimensional: Diversified Bending Modality of a Cable-Driven Actuator and Its Grasping Characteristics.. *Soft Robotics*, **2022**, 9.2 1
- 60 Soft robotic surface enhances the grasping adaptability and reliability of pneumatic grippers. **2022**, 219, 107094 0
- 59 Texture Identification and Object Recognition Using a Soft Robotic Hand Innervated Bio-Inspired Proprioception. **2022**, 10, 173 1
- 58 Electromagnetic Feet With Soft Toes for Adaptive, Versatile, and Stable Locomotion of an Inchworm-Inspired Pipe Crawling Robot.. **2022**, 10, 842816 1
- 57 Characterization of Soft 3D Printed Actuators for Parallel Networks. **2022**, 7, 5342-5348
- 56 Efficient pneumatic actuation modeling using hybrid physics-based and data-driven framework. **2022**, 100842 0
- 55 A Multi-Material, Anthropomorphic Metacarpophalangeal Joint With Abduction and Adduction Actuated by Soft Artificial Muscles. **2022**, 7, 5882-5887 0
- 54 A Soft Robotic Gripper Based on Bioinspired Fingers. **2021**, 2021, 4570-4573
- 53 A Data-Driven Review of Soft Robotics. 2100163 2
- 52 Design of a Rigid-Flexible Coupling Origami Gripper. **2021**,

51	A Dual-Origami Design that Enables the Quasisequential Deployment and Bending Motion of Soft Robots and Grippers. <b>2022</b> , 4, 2100176		1
50	An AI-Assisted and Self-Powered Smart Robotic Gripper Based on Eco-EGaIn Nanocomposite for Pick-and-Place Operation.. <b>2022</b> , 12,		0
49	A Soft and Bistable Gripper with Adjustable Energy Barrier for Fast Capture in Space.. <i>Soft Robotics</i> , <b>2022</b> ,	9.2	3
48	OobSoft Gripper: A Reconfigurable Soft Gripper Using Oobleck for Versatile and Delicate Grasping. <b>2022</b> ,		
47	Bioinspired Multimodal Multipose Hybrid Fingers for Wide-Range Force, Compliant, and Stable Grasping.. <i>Soft Robotics</i> , <b>2022</b> ,	9.2	1
46	Modeling and Experiments of a Soft Gripper for Robotics Arms Applications. <b>2022</b> ,		
45	Design, Analysis and Experiment of an Underactuated Robotic Gripper Actuated by Linear Series Elastic Actuator. <i>Journal of Mechanisms and Robotics</i> , 1-9	2.2	2
44	A review on structural development and recognition/localization methods for end-effector of fruit/vegetable picking robots. <i>International Journal of Advanced Robotic Systems</i> , <b>2022</b> , 19, 172988062211049	11.4	3
43	4D-printed pneumatic soft actuators modeling, fabrication, and control. <b>2022</b> , 103-140		
42	The Wavejoints: A Novel Methodology to Design Soft-Rigid Grippers Made by Monolithic 3D Printed Fingers with Adjustable Joint Stiffness. <b>2022</b> ,		3
41	A lightweight bending actuator based on shape memory alloy and application to gripper. <i>Mechanics of Advanced Materials and Structures</i> , 1-11	1.8	
40	Design, Fabrication, and Performance Test of a New Type of Soft-Robotic Gripper for Grasping. <i>Sensors</i> , <b>2022</b> , 22, 5221	3.8	
39	Printing of Tactile Sensors Upon the Surface of Pneumatic Soft Gripper by Direct Writing and Electro spraying to Enable Intelligent Grasping. <i>Advanced Engineering Materials</i> , 2200704	3.5	1
38	Design, kinematic modeling and evaluation of a novel soft prosthetic hand with abduction joints. <i>Medicine in Novel Technology and Devices</i> , <b>2022</b> , 15, 100151	2.1	
37	Design of Hybrid Fully-Actuated and Self-Adaptive Mechanism for Anthropomorphic Robotic Finger. <i>Journal of Mechanisms and Robotics</i> , 1-35	2.2	
36	Embedding Soft Synergies into Soft Materials for Intrinsic Compliant Robotic Hand Grasping. <b>2022</b> ,		
35	Modeling and Analysis of Soft Bionic Fingers for Contact State Estimation.		0
34	Pneumatic and tendon actuation coupled multi-mode actuators for soft robots with broad force and speed range.		

33	A Novel Design of a Multi-fingered Bionic Hand with Variable Stiffness for Robotic Grasp. 1-40	1
32	Design and Development of a Multi-Functional Bioinspired Soft Robotic Actuator via Additive Manufacturing. <b>2022</b> , 7, 105	0
31	3D printing non-assembly compliant joints for soft robotics. <b>2022</b> , 15, 100558	2
30	Harnessing fiber induced anisotropy in design and fabrication of soft actuator with simultaneous bending and twisting actuations. <b>2022</b> , 230, 109724	0
29	A Novel Soft Actuator Based on Mini DC Motor and Supercoiled Polymer Artificial Muscle. <b>2022</b> ,	0
28	Design of a Non-Actuator Soft Gripper for a Chameleon-Like Robot. <b>2021</b> ,	0
27	Single-Step 3D Printing of Bio-Inspired Printable Joints Applied to a Prosthetic Hand.	0
26	A Soft, Fast and Versatile Electrohydraulic Gripper with Capacitive Object Size Detection. 2209080	1
25	On the Evolution of Additive Manufacturing (3D/4D Printing) Technologies: Materials, Applications, and Challenges. <b>2022</b> , 14, 4698	1
24	Compliant Finger Gripper Based on Topology Optimization. <b>2023</b> , 31-45	0
23	Anthropomorphic Twisted String-Actuated Soft Robotic Gripper With Tendon-Based Stiffening. <b>2022</b> , 1-18	0
22	Self-adaptive detachable pneumatic soft actuators using uniformly distributed temporary-bonding-fasteners for wearable applications. <b>2023</b> , 349, 114083	0
21	A novel shape memory alloy actuated soft gripper imitated hand behavior. <b>2022</b> , 17,	1
20	Design, Production and Vision Based Analysis of A Wireless Operated 2-DOF SMA Driven Soft Robotic Arm. <b>2022</b> , 105176	0
19	Performa of SCARA based intelligent 3 axis robotic soft gripper for enhanced material handling. <b>2023</b> , 176, 103366	0
18	RAPTOR: Rapid Aerial Pickup and Transport of Objects by Robots. <b>2022</b> ,	1
17	An Untethered Soft Robotic Gripper with Adjustable Grasping Modes and Force Feedback. <b>2022</b> ,	0
16	A novel soft end effector with active palm and fingertips for robotic picking. 095440622211445	0

- 15 Earthworm-Inspired Multi-Material, Adaptive Strain-Limiting, Hybrid Actuators for Soft Robots. 2200346 ○
- 14 ARC joint: Anthropomorphic Rolling Contact joint with Kinematically Variable Torsional Stiffness. **2023**, 1-8 ○
- 13 Modeling, Analysis, and Computational Design of Muscle-driven Soft Robots. ○
- 12 Inspired by Physical Intelligence of an Elephant Trunk: Biomimetic Soft Robot With Pre-Programmable Localized Stiffness. **2023**, 8, 2898-2905 ○
- 11 Insect Tarsus-Inspired Compliant Robotic Gripper With Soft Adhesive Pads for Versatile and Stable Object Grasping. **2023**, 8, 2486-2493 ○
- 10 Quasi-static analysis of an electrohydraulic actuator for a soft gripper. **2023**, 352, 114214 ○
- 9 Origami-Inspired Soft Pneumatic Actuators: Generalization and Design Optimization. **2023**, 12, 72 1
- 8 Research on effects of different internal structures on the grasping performance of Fin Ray soft grippers. 1-16 ○
- 7 A review of core agricultural robot technologies for crop productions. **2023**, 206, 107701 ○
- 6 A Passively Conforming Soft Robotic Gripper with Three-Dimensional Negative Bending Stiffness Fingers. ○
- 5 Static modeling and experimental analysis of three-degree-of-freedom pneumatic flexible arm. **2023**, 13, 035014 ○
- 4 Human hand-inspired all-hydrogel gripper with a high load capacity formed by the split-brushing adhesion of diverse hydrogels. ○
- 3 Modular Soft Robot with Origami Skin for Versatile Applications. ○
- 2 Evaluation of End Effectors for Robotic Harvesting of Mango Fruit. **2023**, 15, 6769 ○
- 1 Evaluation of Surface Damage of Strawberry Grasped by Manipulator Based on Vision and Hyperspectral Data Analysis. **2023**, 2023, 1-10 ○