

# Yingtian Li

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,628  
citations

567281

15  
h-index

713466

21  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1499  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A Novel, Variable Stiffness Robotic Gripper Based on Integrated Soft Actuating and Particle Jamming. <i>Soft Robotics</i> , 2016, 3, 134-143.   | 8.0  | 247       |
| 2  | Passive Particle Jamming and Its Stiffening of Soft Robotic Grippers. <i>IEEE Transactions on Robotics</i> , 2017, 33, 446-455.   | 10.3 | 227       |
| 3  | 3D printing of shape memory polymer for functional part fabrication. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 84, 2079-2095.   | 3.0  | 215       |
| 4  | Bioinspired Robotic Fingers Based on Pneumatic Actuator and 3D Printing of Smart Material. <i>Soft Robotics</i> , 2017, 4, 147-162.   | 8.0  | 176       |
| 5  | Superelastic, Sensitive, and Low Hysteresis Flexible Strain Sensor Based on Wave-Patterned Liquid Metal for Human Activity Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 22200-22211. | 8.0  | 152       |
| 6  | Novel Variable-Stiffness Robotic Fingers with Built-In Position Feedback. <i>Soft Robotics</i> , 2017, 4, 338-352.  | 8.0  | 100       |
| 7  | Principles and methods for stiffness modulation in soft robot design and development. <i>Bio-Design and Manufacturing</i> , 2018, 1, 14-25.   | 7.7  | 78        |
| 8  | Precharged Pneumatic Soft Actuators and Their Applications to Untethered Soft Robots. <i>Soft Robotics</i> , 2018, 5, 567-575.  | 8.0  | 64        |
| 9  | Novel Design and Three-Dimensional Printing of Variable Stiffness Robotic Grippers. <i>Journal of Mechanisms and Robotics</i> , 2016, 8, .  | 2.2  | 54        |
| 10 | A soft robotic spine with tunable stiffness based on integrated ball joint and particle jamming. <i>Mechatronics</i> , 2016, 33, 84-92.   | 3.3  | 51        |
| 11 | Pre-Charged Pneumatic Soft Gripper With Closed-Loop Control. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 1402-1408.  | 5.1  | 48        |
| 12 | Soft Robotic Grippers Based on Particle Transmission. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 969-978.  | 5.8  | 42        |
| 13 | A Novel Tendon-Driven Soft Actuator with Self-Pumping Property. <i>Soft Robotics</i> , 2020, 7, 130-139.  | 8.0  | 29        |
| 14 | Novel Design and 3-D Printing of Nonassembly Controllable Pneumatic Robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 649-659.  | 5.8  | 27        |
| 15 | 3D printing of variable stiffness hyper-redundant robotic arm. , 2016, , .  |      | 25        |
| 16 | On the Mechanical Power Output Comparisons of Cone Dielectric Elastomer Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 3151-3162.   | 5.8  | 23        |
| 17 | A Dual-Mode Actuator for Soft Robotic Hand. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 1144-1151.   | 5.1  | 17        |
| 18 | Design and Automatic Fabrication of Novel Bio-Inspired Soft Smart Robotic Hands. <i>IEEE Access</i> , 2020, 8, 155912-155925.   | 4.2  | 14        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | A novel versatile robotic palm inspired by human hand. Engineering Research Express, 2019, 1, 015008.   | 1.6  | 13        |
| 20 | Compact Pneumatic Clutch With Integrated Stiffness Variation and Position Feedback. IEEE Robotics and Automation Letters, 2021, 6, 5697-5704. | 5.1  | 7         |
| 21 | In Vivo Molding of Airway Stents. Advanced Functional Materials, 2021, 31, 2010525.   | 14.9 | 6         |
| 22 | The ultimate hyper redundant robotic arm based on omnidirectional joints. , 2015, , .   |      | 4         |
| 23 | Stiffening of soft robotic actuators " Jamming approaches. , 2017, , .  |      | 4         |
| 24 | A Soft Robotic Balloon Endoscope for Airway Procedures. Soft Robotics, 2022, 9, 1014-1029.  | 8.0  | 4         |
| 25 | Multifunctional Robotic Glove with Active-Passive Training Modes for Hand Rehabilitation and Assistance. , 2021, , .                          |      | 1         |