

# ChangKyu Yoon

## List of Publications by Year in descending order

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22  
papers

1,612  
citations

623734

14  
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839539

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23  
all docs

23  
docs citations

23  
times ranked

2236  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent Responsive Self-Folding of 3D Photosensitive Graphene Architectures. <i>Advanced Intelligent Systems</i> , 2023, 5, 2000195.	6.1	11
2	Untethered Actuation of Hybrid Hydrogel Gripper via Ultrasound. <i>ACS Macro Letters</i> , 2020, 9, 1766-1772.	4.8	26
3	Advances in Stimuli-Responsive Soft Robots with Integrated Hybrid Materials. <i>Actuators</i> , 2020, 9, 115.	2.3	18
4	Untethered Single Cell Grippers for Active Biopsy. <i>Nano Letters</i> , 2020, 20, 5383-5390.	9.1	53
5	Advances in biomimetic stimuli responsive soft grippers. <i>Nano Convergence</i> , 2019, 6, 20.	12.1	55
6	Biodegradable Thermomagnetically Responsive Soft Untethered Grippers. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 151-159.	8.0	70
7	Multitemperature Responsive Self-Folding Soft Biomimetic Structures. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700692.	3.9	40
8	Steering and Control of Miniaturized Untethered Soft Magnetic Grippers With Haptic Assistance. <i>IEEE Transactions on Automation Science and Engineering</i> , 2018, 15, 290-306.	5.2	57
9	A GPU-accelerated model-based tracker for untethered submillimeter grippers. <i>Robotics and Autonomous Systems</i> , 2018, 103, 111-121.	5.1	6
10	A Multi-Rate State Observer for Visual Tracking of Magnetic Micro-Agents Using 2D Slow Medical Imaging Modalities. , 2018, , .		10
11	Autonomous planning and control of soft untethered grippers in unstructured environments. <i>Journal of Micro-Bio Robotics</i> , 2017, 12, 45-52.	2.1	61
12	DNA sequence-directed shape change of photopatterned hydrogels via high-degree swelling. <i>Science</i> , 2017, 357, 1126-1130.	12.6	331
13	Bidirectional and biaxial curving of thermoresponsive bilayer plates with soft and stiff segments. <i>Extreme Mechanics Letters</i> , 2017, 16, 6-12.	4.1	18
14	Magnetic motion control and planning of untethered soft grippers using ultrasound image feedback. , 2017, 2017, 6156-6161.		24
15	Stimuli-Responsive Soft Untethered Grippers for Drug Delivery and Robotic Surgery. <i>Frontiers in Mechanical Engineering</i> , 2017, 3, .	1.8	97
16	Assembly of a 3D Cellular Computer Using Folded E-Blocks. <i>Micromachines</i> , 2016, 7, 78.	2.9	8
17	Model-based tracking of miniaturized grippers using Particle Swarm Optimization. , 2016, , .		1
18	Control of untethered soft grippers for pick-and-place tasks. , 2016, 2016, 299-304.		18

#	ARTICLE	IF	CITATIONS
19	Evaluation of an electromagnetic system with haptic feedback for control of untethered, soft grippers affected by disturbances. , 2016, , .		11
20	Self-Folding Thermo-Magnetically Responsive Soft Microgrippers. ACS Applied Materials & Interfaces, 2015, 7, 3398-3405.	8.0	499
21	Self-folding graphene-polymer bilayers. Applied Physics Letters, 2015, 106, .	3.3	60
22	Functional stimuli responsive hydrogel devices by self-folding. Smart Materials and Structures, 2014, 23, 094008.	3.5	137