

# ChangKyu Yoon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8960345/publications.pdf>

Version: 2024-02-01

22  
papers

1,612  
citations

623734

14  
h-index

839539

18  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2236  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Folding Thermo-Magnetically Responsive Soft Microgrippers. ACS Applied Materials & Interfaces, 2015, 7, 3398-3405.	8.0	499
2	DNA sequence-directed shape change of photopatterned hydrogels via high-degree swelling. Science, 2017, 357, 1126-1130.	12.6	331
3	Functional stimuli responsive hydrogel devices by self-folding. Smart Materials and Structures, 2014, 23, 094008.	3.5	137
4	Stimuli-Responsive Soft Untethered Grippers for Drug Delivery and Robotic Surgery. Frontiers in Mechanical Engineering, 2017, 3, .	1.8	97
5	Biodegradable Thermomagnetically Responsive Soft Untethered Grippers. ACS Applied Materials & Interfaces, 2019, 11, 151-159.	8.0	70
6	Autonomous planning and control of soft untethered grippers in unstructured environments. Journal of Micro-Bio Robotics, 2017, 12, 45-52.	2.1	61
7	Self-folding graphene-polymer bilayers. Applied Physics Letters, 2015, 106, .	3.3	60
8	Steering and Control of Miniaturized Untethered Soft Magnetic Grippers With Haptic Assistance. IEEE Transactions on Automation Science and Engineering, 2018, 15, 290-306.	5.2	57
9	Advances in biomimetic stimuli responsive soft grippers. Nano Convergence, 2019, 6, 20.	12.1	55
10	Untethered Single Cell Grippers for Active Biopsy. Nano Letters, 2020, 20, 5383-5390.	9.1	53
11	Multitemperature Responsive Self-Folding Soft Biomimetic Structures. Macromolecular Rapid Communications, 2018, 39, 1700692.	3.9	40
12	Untethered Actuation of Hybrid Hydrogel Gripper via Ultrasound. ACS Macro Letters, 2020, 9, 1766-1772.	4.8	26
13	Magnetic motion control and planning of untethered soft grippers using ultrasound image feedback. , 2017, 2017, 6156-6161.		24
14	Control of untethered soft grippers for pick-and-place tasks. , 2016, 2016, 299-304.		18
15	Bidirectional and biaxial curving of thermoresponsive bilayer plates with soft and stiff segments. Extreme Mechanics Letters, 2017, 16, 6-12.	4.1	18
16	Advances in Stimuli-Responsive Soft Robots with Integrated Hybrid Materials. Actuators, 2020, 9, 115.	2.3	18
17	Evaluation of an electromagnetic system with haptic feedback for control of untethered, soft grippers affected by disturbances. , 2016, , .		11
18	Solvent Responsive Self-Folding of 3D Photosensitive Graphene Architectures. Advanced Intelligent Systems, 2023, 5, 2000195.	6.1	11

#	ARTICLE	IF	CITATIONS
19	A Multi-Rate State Observer for Visual Tracking of Magnetic Micro-Agents Using 2D Slow Medical Imaging Modalities. , 2018, , .		10
20	Assembly of a 3D Cellular Computer Using Folded E-Blocks. Micromachines, 2016, 7, 78.	2.9	8
21	A GPU-accelerated model-based tracker for untethered submillimeter grippers. Robotics and Autonomous Systems, 2018, 103, 111-121.	5.1	6
22	Model-based tracking of miniaturized grippers using Particle Swarm Optimization. , 2016, , .		1