

# Jongwoo Kim

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Anisotropic Patterning to Reduce Instability of Concentric-Tube Robots. IEEE Transactions on Robotics, 2015, 31, 1311-1323.	10.3	43
2	Continuously Variable Stiffness Mechanism Using Nonuniform Patterns on Coaxial Tubes for Continuum Microsurgical Robot. IEEE Transactions on Robotics, 2019, 35, 1475-1487.	10.3	32
3	A self-deployable origami structure with locking mechanism induced by buckling effect. , 2015, , .		28
4	Novel, Flexible, and Ultrathin Pressure Feedback Sensor for Miniaturized Intraventricular Neurosurgery Robotic Tools. IEEE Transactions on Industrial Electronics, 2021, 68, 4415-4425.	7.9	26
5	Design Optimization of Asymmetric Patterns for Variable Stiffness of Continuum Tubular Robots. IEEE Transactions on Industrial Electronics, 2022, 69, 8190-8200.	7.9	12
6	A Needlescopic Wrist Mechanism With Articulated Motion and Kinematic Tractability for Micro Laparoscopic Surgery. IEEE/ASME Transactions on Mechatronics, 2020, 25, 229-238.	5.8	9
7	Development of Novel Bevel-Geared 5 mm Articulating Wrist for Micro-Laparoscopy Instrument. IEEE Robotics and Automation Letters, 2019, 4, 3711-3718.	5.1	8
8	Development and Preclinical Trials of a Novel Steerable Cannula for 360° Arthroscopic Capsular Release in Minimally Invasive Surgery. , 2020, 2020, 4890.		6
9	Design of wearable orthopedic devices for treating forward head postures using pneumatic artificial muscles and flex sensors. , 2017, , .		5
10	Design Optimization for the Stability of Concentric Tube Robots. IEEE Robotics and Automation Letters, 2021, 6, 8309-8316.	5.1	5
11	Development of Deployable Bending Wrist for Minimally Invasive Laparoscopic Endoscope. , 2020, , .		5
12	Design of anisotropic pneumatic artificial muscles and their applications to soft wearable devices for text neck symptoms. , 2017, 2017, 4135-4138.		4
13	Development of a Steerable Miniature Instrument to Manage Internal Carotid Artery Injury in Endoscopic Transsphenoidal Surgery Simulation. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 281-284.	3.2	2
14	Spiral wrapping flexible ultra-thin pressure sensor for adapting curvature changes of miniaturized neurosurgical robots (Conference Presentation). , 2020, , .		2
15	A Preliminary Study on Customizable Origami Grippers with Elastic Hinges for Minimally Invasive Surgery. , 0, , .		0