Woosoon Yim

List of Publications by Citations

36 papers	499 citations	12 h-index	21 g-index
42 ext. papers	586 ext. citations	2.5 avg, IF	3.38 L-index

#	Paper	IF	Citations
36	An artificial muscle actuator for biomimetic underwater propulsors. *Bioinspiration and Biomimetics*, **2007**, 2, S31-41	2.6	66
35	Mechanical, dielectric, and magnetic properties of the silicone elastomer with multi-walled carbon nanotubes as a nanofiller. *Polymer Engineering and Science*, **2007**, 47, 1396-1405	2.3	50
34	Ionic Polymer-metal Composites for Underwater Operation. *Journal of Intelligent Material Systems and Structures*, **2007**, 18, 123-131	2.3	46
33	State feedback control of an aeroelastic system with structural nonlinearity. *Aerospace Science and Technology*, **2003**, 7, 23-31	4.9	41
32	Adaptive and neural control of a wing section using leading- and trailing-edge surfaces. *Aerospace Science and Technology*, **2005**, 9, 161-171	4.9	38
31	A bio-inspired multi degree of freedom actuator based on a novel cylindrical ionic polymer–metal composite material. *Robotics and Autonomous Systems*, **2014**, 62, 53-60	3.5	35
30	The behavior of ionic polymer–metal composites in a multi-layer configuration. *Smart Materials and Structures*, **2005**, 14, 881-888	3.4	22
29	Nonlinear Inverse and Predictive End Point Trajectory Control of Flexible Macro-Micro Manipulators. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1997**, 119, 412-420	1.6	20
28	Study of the upper airway of obstructive sleep apnea patient using fluid structure interaction. *Respiratory Physiology and Neurobiology*, **2018**, 249, 54-61	2.8	18
27	. *IEEE Transactions on Aerospace and Electronic Systems*, **2005**, 41, 770-779	3.7	17
26	Modeling of ionic polymer metal composite actuator dynamics using a large deflection beam model. *Smart Materials and Structures*, **2009**, 18, 115023	3.4	14
25	Inverse Force and Motion Control of Constrained Elastic Robots. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **1995**, 117, 374-383	1.6	13
24	Fluid interaction of segmented ionic polymer–metal composites under water. *Smart Materials and Structures*, **2007**, 16, S220-S226	3.4	10
23	Experimental dual-mode control of a flexible robotic arm. *Robotica*, **1992**, 10, 135-145	2.1	10
22	Unmanned aerial system for first responders **2015**,		9
21	Experimental two-axis vibration suppression and control of a flexible robot arm. *Journal of Field Robotics*, **1993**, 10, 321-343		9
20	Low-altitude contour mapping of radiation fields using UAS swarm. *Intelligent Service Robotics*, **2019**, 12, 219-230	2.6	8

19	Dynamic Modeling of Segmented Ionic Polymer Metal Composite (IPMC) Actuator **2006**,		8
18	Feedback Linearization of Differential-Algebraic Systems and Force and Position Control of Manipulators **1993**,		8
17	Inverse cartesian trajectory control and stabilization of a three-axis flexible manipulator. *Journal of Field Robotics*, **1994**, 11, 311-326		8
16	Adaptive Rotation of a Smart Projectile Fin Using a Piezoelectric Flexible Beam Actuator. *JVC/Journal of Vibration and Control*, **2005**, 11, 1085-1102	2	7
15	Wireless actuation and control of ionic polymer–metal composite actuator using a microwave link. *International Journal of Smart and Nano Materials*, **2012**, 3, 244-262	3.6	6
14	Adaptive Servoregulation of a Projectile Fin Using Piezoelectric Actuator. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2007**, 129, 100-104	1.6	4
13	Sliding mode cooperative motion control of dual arm manipulators. *Artificial Life and Robotics*, **1999** , 3, 166-169	0.6	4
12	Feedback linearization of differential-algebraic systems and force and position control of manipulators. *Journal of Dynamical and Control Systems*, **1993**, 3, 323-352		4
11	Adaptive-Repetitive Visual-Servo Control of Low-Flying Aerial Robots via Uncalibrated High-Flying Cameras. *Journal of Nonlinear Science*, **2017**, 27, 1235-1256	2.8	3
10	Predictive end-point trajectory control of elastic manipulators. *Journal of Field Robotics*, **1996**, 13, 561-569		3
9	Inverse Force/End-Point Control, Zero Dynamics and Stabilization of Constrained Elastic Robots **1993**,		3
8	Plug-and-play radiation sensor components for unmanned aerial system platform. *Journal of Radioanalytical and Nuclear Chemistry*, **2018**, 318, 1797-1803	1.5	3
7	Unmanned aerial vehicle for hot-spot avoidance with stereo FLIR cameras **2015**,		2
6	Preliminary study of wireless actuation and control of IPMC actuator **2010**,		2
5	Grasping impact force control of a flexible robotic gripper using a piezoelectric actuator. *Artificial Life and Robotics*, **2000**, 4, 3-6	0.6	2
4	Cartesian trajectory control of a flexible manipulator using sliding mode. *Mechatronics*, **1994**, 4, 635-6523		2
3	Integration of CZT and CLYC radiation detectors into robotic platforms using ROS **2019**,		1
2	Open-loop control of Ionic Polymer Metal Composite (IPMC) based underwater actuator using a network of neural oscillator **2007**,		1

1 Dynamic feedback linearization and large pitch attitude control of satellite using solar radiation pressure 1