

Bokeon Kwak

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

152
citations

1307594

7
h-index

1281871

11
g-index

20
all docs

20
docs citations

20
times ranked

139
citing authors

#	ARTICLE	IF	CITATIONS
1	Locomotion of arthropods in aquatic environment and their applications in robotics. <i>Bioinspiration and Biomimetics</i> , 2018, 13, 041002.	2.9	36
2	Inverse Kinematics Analysis and COG Trajectory Planning Algorithms for Stable Walking of a Quadruped Robot with Redundant DOFs. <i>Journal of Bionic Engineering</i> , 2018, 15, 610-622.	5.0	16
3	Toward Fast and efficient mobility in aquatic environment: A robot with compliant swimming appendages inspired by a water beetle. <i>Journal of Bionic Engineering</i> , 2017, 14, 260-271.	5.0	15
4	Design of hair-like appendages and comparative analysis on their coordination toward steady and efficient swimming. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 036014.	2.9	13
5	Marangoni effect inspired robotic self-propulsion over a water surface using a flow-imbibition-powered microfluidic pump. <i>Scientific Reports</i> , 2021, 11, 17469.	3.3	13
6	Skimming and steering of a non-tethered miniature robot on the water surface using marangoni propulsion. , 2017, , .		11
7	Directional Motion on Water Surface With Keel Extruded Footpads Propelled by Marangoni Effect. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 6829-6836.	5.1	8
8	Compliant mechanosensory composite (CMC): a compliant mechanism with an embedded sensing ability based on electric contact resistance. <i>Smart Materials and Structures</i> , 2018, 27, 125003.	3.5	7
9	Comprehensive analysis of efficient swimming using articulated legs fringed with flexible appendages inspired by a water beetle. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 066003.	2.9	7
10	Design of a robot with biologically-inspired swimming hairs for fast and efficient mobility in aquatic environment. , 2016, , .		5
11	Flexural Joints for Improved Linear Motion of a Marangoni Propulsion Robot: Design and Experiment. , 2018, , .		5
12	Integrated Design and Fabrication of a Conductive PDMS Sensor and Polypyrrole Actuator Composite. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 3753-3760.	5.1	4
13	Design and Analysis of a Rotational Leg-type Miniature Robot with an Actuated Middle Joint and a Tail (RoMiRAMT-II). <i>Journal of Bionic Engineering</i> , 2018, 15, 356-367.	5.0	3
14	Development of a quadruped robot with redundant DOFs for high-degree of functionality and adaptation. , 2016, , .		2
15	Development of a Four-Bar Linkage Integrated with a Polypyrrole Actuator and a Resistive Sensor Toward Biomimetic Pleopods. , 2019, , .		2
16	Efficient Drag-based Swimming using Articulated Legs with Micro Hair Arrays Inspired by a Water Beetle. , 2019, , .		2
17	Design and analysis of a rotational leg-type miniature robot with an actuated middle joint and a tail (RoMiRAMT). , 2015, , .		1
18	Design of hair-like appendages and their coordination inspired by water beetles for steady swimming on the water surface. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
19	Development of an Electro-hydraulic Soft Zipping Actuator with Self-sensing Mechanism. The Journal of Korea Robotics Society, 2021, 16, 79-85.	0.4	1
20	Design of Compliant Mechanosensory Composite (CMC) and its Application Toward the Sensible Mesoscale Robotics. , 2018, , .		0