

Yasemin Ozkan-Aydin

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

498
citations

1162367

8
h-index

1125271

13
g-index

24
all docs

24
docs citations

24
times ranked

433
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling subterranean forces enables a fast, steerable, burrowing soft robot. <i>Science Robotics</i> , 2021, 6, .	9.9	75
2	Collective dynamics in entangled worm and robot blobs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	46
3	Self-reconfigurable multilegged robot swarms collectively accomplish challenging terradynamic tasks. <i>Science Robotics</i> , 2021, 6, .	9.9	46
4	Mechanism and function of root circumnutation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	45
5	Material remodeling and unconventional gaits facilitate locomotion of a robophysical rover over granular terrain. <i>Science Robotics</i> , 2020, 5, .	9.9	40
6	Stretchable Nanocomposite Sensors, Nanomembrane Interconnectors, and Wireless Electronics toward Feedback Loop Control of a Soft Earthworm Robot. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43388-43397.	4.0	35
7	Soft Robotic Burrowing Device with Tip-Extension and Granular Fluidization. , 2018, , .		33
8	Coordination of back bending and leg movements for quadrupedal locomotion. , 0, , .		33
9	Kirigami Skin Improves Soft Earthworm Robot Anchoring and Locomotion Under Cohesive Soil. , 2019, , .		25
10	Physics approaches to natural locomotion: Every robot is an experiment. , 2019, , 109-127.		24
11	A systematic approach to creating terrain-capable hybrid soft/hard myriapod robots. , 2020, , .		13
12	Emergent Collective Locomotion in an Active Polymer Model of Entangled Worm Blobs. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	13
13	Lateral bending and buckling aids biological and robotic earthworm anchoring and locomotion. <i>Bioinspiration and Biomimetics</i> , 2022, 17, 016001.	1.5	13
14	Nutation Aids Heterogeneous Substrate Exploration in a Robophysical Root. , 2019, , .		12
15	A general locomotion control framework for multi-legged locomotors. <i>Bioinspiration and Biomimetics</i> , 2022, 17, 046015.	1.5	11
16	A minimal robophysical model of quadriflagellate self-propulsion. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 066001.	1.5	9
17	Geometric Mechanics Applied to Tetrapod Locomotion on Granular Media. <i>Lecture Notes in Computer Science</i> , 2017, , 595-603.	1.0	8
18	Optimal control of a half-circular compliant legged monopod. <i>Control Engineering Practice</i> , 2014, 33, 10-21.	3.2	6

#	ARTICLE	IF	CITATIONS
19	Characterization of Dynamic Behaviors in a Hexapod Robot. Springer Tracts in Advanced Robotics, 2014, , 667-684.	0.3	4
20	A Hierarchical Geometric Framework to Design Locomotive Gaits for Highly Articulated Robots. , 0, , .		3