

Kirstin H Petersen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28
papers

1,729
citations

9
h-index

35
g-index

35
ext. papers

2,192
ext. citations

7.6
avg, IF

5.23
L-index

#	Paper	IF	Citations
28	Errors in Collective Robotic Construction. <i>Springer Proceedings in Advanced Robotics</i> , 2022 , 269-281	0.6	0
27	Collective behavior of swarmalators on a ring.. <i>Physical Review E</i> , 2022 , 105, 014211	2.4	1
26	Construction and Excavation by Collaborative Double-Tailed SAW Robots. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	1
25	Microrobot collectives with reconfigurable morphologies, behaviors, and functions.. <i>Nature Communications</i> , 2022 , 13, 2239	17.4	7
24	A customizable, low-cost alternative for distributed 2D flow sensing in swarms. <i>Artificial Life and Robotics</i> , 2022 , 27, 272-277	0.6	
23	System design for inferring colony-level pollination activity through miniature bee-mounted sensors. <i>Scientific Reports</i> , 2021 , 11, 4239	4.9	5
22	Imperfect comb construction reveals the architectural abilities of honeybees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
21	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 7557-7563	4.2	3
20	Simple, Low-Cost Fabrication of Soft Sensors for Shape Reconstruction. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 4049-4054	4.2	2
19	Scalable and Robust Fabrication, Operation, and Control of Compliant Modular Robots. <i>Frontiers in Robotics and AI</i> , 2020 , 7, 44	2.8	3
18	Artificial shaking signals in honey bee colonies elicit natural responses. <i>Scientific Reports</i> , 2020 , 10, 37464.9	4.9	2
17	A review of collective robotic construction. <i>Science Robotics</i> , 2019 , 4,	18.6	54
16	Scalable Compiler for the TERMES Distributed Assembly System. <i>Springer Proceedings in Advanced Robotics</i> , 2019 , 125-138	0.6	4
15	2019 ,		9
14	A Compiler for Scalable Construction by the TERMES Robot Collective. <i>Robotics and Autonomous Systems</i> , 2019 , 121, 103240	3.5	4
13	Towards a Scalable, Self-Reconfigurable Robot with Compliant Modules 2019 ,		1
12	Fluid-driven intrinsically soft robots 2019 , 61-84		4

11	Leveraging fluid resistance in soft robots 2018 ,			8
10	Robots Building Bridges, Not Walls 2018 ,			1
9	Soft Robotics: Review of Fluid-Driven Intrinsically Soft Devices; Manufacturing, Sensing, Control, and Applications in Human-Robot Interaction . <i>Advanced Engineering Materials</i> , 2017 , 19, 1700016	3.5		456
8	Soft Actuators for Small-Scale Robotics. <i>Advanced Materials</i> , 2017 , 29, 1603483	24		678
7	Asymmetric stable deformations in inflated dielectric elastomer actuators 2017 ,			4
6	Complex Design by Simple Robots: A Collective Embodied Intelligence Approach to Construction. <i>Architectural Design</i> , 2017 , 87, 44-49	0.8		9
5	Inflated Soft Actuators with Reversible Stable Deformations. <i>Advanced Materials</i> , 2016 , 28, 3690-6	24		69
4	Arrestant property of recently manipulated soil on <i>Macrotermes michaelseni</i> as determined through visual tracking and automatic labeling of individual termite behaviors. <i>Behavioural Processes</i> , 2015 , 116, 8-11	1.6		10
3	Designing collective behavior in a termite-inspired robot construction team. <i>Science</i> , 2014 , 343, 754-8	33.3		339
2	TERMES: An Autonomous Robotic System for Three-Dimensional Collective Construction			48
1	Automated entrance monitoring of managed bumble bees. <i>Artificial Life and Robotics</i> , 1	0.6		