Kristofer S J Pister

List of Publications by Year
in descending order

31 papers	879 citations	1163117 8 h-index	1281871 11 g-index
31 all docs	31 docs citations	31 times ranked	791 citing authors

#	Article	IF	Citations
1	Surviving the Hair Dryer: Continuous Calibration of a Crystal-Free Mote-on-Chip. IEEE Internet of Things Journal, 2022, 9, 4737-4747.	8.7	0
2	Nonlinear Dynamics of Lateral Electrostatic Gap Closing Actuators for Applications in Inchworm Motors. Journal of Microelectromechanical Systems, 2022, 31, 29-36.	2.5	0
3	QuickCal: Assisted Calibration for Crystal-Free Micromotes. IEEE Internet of Things Journal, 2021, 8, 1846-1858.	8.7	4
4	Nonholonomic Yaw Control of an Underactuated Flying Robot With Model-Based Reinforcement Learning. IEEE Robotics and Automation Letters, 2021, 6, 455-461.	5.1	4
5	Learning Accurate Long-term Dynamics for Model-based Reinforcement Learning. , 2021, , .		4
6	Quadrotor-Based Lighthouse Localization with Time-Synchronized Wireless Sensor Nodes and Bearing-Only Measurements. Sensors, 2020, 20, 3888.	3.8	5
7	Industrial IoT with Crystal-Free Mote-on-Chip. , 2020, , .		2
8	6TiSCH on SCÎ¼M: Running a Synchronized Protocol Stack without Crystals. Sensors, 2020, 20, 1912.	3.8	9
9	Low-Level Control of a Quadrotor With Deep Model-Based Reinforcement Learning. IEEE Robotics and Automation Letters, 2019, 4, 4224-4230.	5.1	93
10	A Crystal-Free Single-Chip Micro Mote with Integrated 802.15.4 Compatible Transceiver, sub-mW BLE Compatible Beacon Transmitter, and Cortex M0. , 2019, , .		26
11	CMOS oscillators to satisfy 802.15.4 and Bluetooth LE PHY specifications without a crystal reference. , 2019, , .		8
12	6TiSCH: Industrial Performance for IPv6 Internet-of-Things Networks. Proceedings of the IEEE, 2019, 107, 1153-1165.	21.3	38
13	A Low-Power Optical Receiver for Contact-free Programming and 3D Localization of Autonomous Microsystems. , 2019, , .		9
14	A Jumping Silicon Microrobot with Electrostatic Inchworm Motors and Energy Storing Substrate Springs. , 2019, , .		12
15	Experimental Evaluation of Low-Latency Diversity Modes in IEEE 802.15.4 Networks. , 2018, , .		4
16	Characterization of electrostatic gap-closing actuator arrays in aqueous conditions. , 2018, , .		3
17	Study on silicon device of microrobot system for heterogeneous integration. , 2018, , .		3
18	Analysis of low latency TSCH networks for physical event detection. , 2018, , .		5

#	Article	IF	Citations
19	Tapeout class: Taking students from schematic to silicon in one semester. , 2018, , .		2
20	Toward Controlled Flight of the Ionocraft: A Flying Microrobot Using Electrohydrodynamic Thrust With Onboard Sensing and No Moving Parts. IEEE Robotics and Automation Letters, 2018, 3, 2807-2813.	5.1	43
21	First thrust from a microfabricated atmospheric ion engine. , 2017, , .		11
22	First steps of a millimeter-scale walking silicon robot. , 2017, , .		28
23	Future mesh-networked pico air vehicles. , 2017, , .		7
24	First takeoff of a flying microrobot with no moving parts. , 2017, , .		18
25	Durability of silicon pin-joints for microrobotics. , 2016, , .		9
26	Simple Distributed Scheduling With Collision Detection in TSCH Networks. IEEE Sensors Journal, 2016, 16, 5848-5849.	4.7	34
27	COTS-based stick-on electricity meters for building submetering. , 2013, , .		1
28	WARPWING: A complete open source control platform for miniature robots. , 2010, , .		28
29	Modeling, Simulation, and Verification of an Advanced Micromirror Using SUGAR. Journal of Microelectromechanical Systems, 2007, 16, 1524-1536.	2.5	15
30	Low-Power 2.4-GHz Transceiver With Passive RX Front-End and 400-mV Supply. IEEE Journal of Solid-State Circuits, 2006, 41, 2757-2766.	5.4	233
31	Emerging challenges: Mobile networking for â€œSmart Dustâ€. Journal of Communications and Networks, 2000, 2, 188-196.	2.6	221