Kaiyan Yu

List of Publications by Year
in descending order

27 papers	180 citations	1477746 6 h-index	1473754 9 g-index
27 all docs	27 docs citations	27 times ranked	98 citing authors

#	Article	IF	Citations
1	Motion Control, Planning and Manipulation of Nanowires Under Electric-Fields in Fluid Suspension. IEEE Transactions on Automation Science and Engineering, 2015, 12, 37-49.	3.4	23
2	Simultaneous Multiple-Nanowire Motion Control, Planning, and Manipulation Under Electric Fields in Fluid Suspension. IEEE Transactions on Automation Science and Engineering, 2018, 15, 80-91.	3.4	20
3	Motion planning for aggressive autonomous vehicle maneuvers. , 2016, , .		17
4	Automated characterization and assembly of individual nanowires for device fabrication. Lab on A Chip, 2018, 18, 1494-1503.	3.1	17
5	Real-time motion planning of multiple nanowires in fluid suspension under electric-field actuation. International Journal of Intelligent Robotics and Applications, 2018, 2, 383-399.	1.6	11
6	Electrophoresis-Based Adaptive Manipulation of Nanowires in Fluid Suspension. IEEE/ASME Transactions on Mechatronics, 2020, 25, 638-649.	3.7	11
7	A Stick-Slip Interactions Model of Soft-Solid Frictional Contacts. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	10
8	Whole-body pose estimation in physical rider-bicycle interactions with a monocular camera and a set of wearable gyroscopes. , 2014, , .		9
9	Motion control of autonomous aggressive vehicle maneuvers. , 2016, , .		7
10	Electrophoresis-based motion planning and control of a nanowire in fluid suspension. , 2013, , .		6
11	Motion control and manipulation of nanowires under electric-fields in fluid suspension. , 2014, , .		6
12	Adaptive Tube Model Predictive Control for Manipulating Multiple Nanowires with Coupled Actuation in Fluid Suspension. IFAC-PapersOnLine, 2020, 53, 8613-8618.	0.5	6
13	Time-optimal simultaneous motion planning and manipulation of multiple nanowires under electric-fields in fluid suspension. , 2016, , .		5
14	Adaptive Control of Nanowires Motion Using Electric Fields in Fluid Suspension. , 2019, , .		5
15	Automated Electric-Field-Based Nanowire Characterization, Manipulation, and Assembly. , 2018, , .		4
16	Informed Sampling-Based Motion Planning for Manipulating Multiple Micro Agents using Global External Fields. , 2020, , .		4
17	Whole-Body Pose Estimation in Physical Riderâ€“Bicycle Interactions With a Monocular Camera and Wearable Gyroscopes. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	3
18	Adaptive Tube Model Predictive Control of Micro- and Nanoparticles in Fluid Suspensions using Global External Fields. , 2021, , .		3

#	Article	IF	Citations
19	Electrophoresis-Based Manipulation of Micro- and Nanoparticles in Fluid Suspensions. , 2022, , 133-164.		3
20	Complete and Near-Optimal Path Planning for Simultaneous Sensor-Based Inspection and Footprint Coverage in Robotic Crack Filling. , 2019, , .		2
21	Electrophoresis-Based Adaptive Tube Model Predictive Control of Micro- and Nanoparticles Motion in Fluid Suspension. , 2020, , .		2
22	Body-Segment Orientation Estimation in Rider-Bicycle Interactions With an Un-Calibrated Monocular Camera and Wearable Gyroscopes. , 2013, , .		1
23	Motion planning and manipulation of multiple nanowires simultaneouly under electric-fields in fluid suspension. , 2015, , .		1
24	Optimal motion planning and control of a crack filling robot for civil infrastructure automation. , 2017, , .		1
25	Monocular Visual-Inertial Sensing of Unknown Rotating Objects: Observability Analyses and Case Study for Metric 3D Reconstructing of Space Debris. IEEE Robotics and Automation Letters, 2022, 7, 2423-2430.	3.3	1
26	Informed Sampling-Based Motion Planning for Manipulating Multiple Micro Agents Using Global External Electric Fields. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1422-1433.	3.4	1
27	Adaptive Tube Model Predictive Control for Manipulating Micro-and Nanoparticles in Fluid Suspensions Under Global External Fields. IEEE Transactions on Automation Science and Engineering, 2022, , 1-13.	3.4	1