Hui Dong

List of Publications by Year
in descending order

15 papers	**117** citations	1684188 **5** h-index	1281871 **11** g-index
16 all docs	**16** docs citations	**16** times ranked	**153** citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Design of the Connecting Plate in Pneumatic Soft Manipulators. Applied Sciences (Switzerland), 2022, 12, 7224.	2.5	1
2	Inverse Kinematics Study for Intelligent Agriculture Robot Development via Differential Evolution Algorithm. , 2021, , .		3
3	A novel algorithm by combining nonlinear workspace partition with neural networks for solving the inverse kinematics problem of redundant manipulators. Mechanical Sciences, 2021, 12, 259-267.	1.0	3
4	Scalable and parallelized biochemical assays in paper devices integrated with a programmable binary valve matrix. Sensors and Actuators B: Chemical, 2020, 321, 128466.	7.8	11
5	Graphene oxide nanosheets coupled with paper microfluidics for enhanced on-site airborne trace metal detection. Microsystems and Nanoengineering, 2019, 5, 4.	7.0	16
6	A novel algorithm combined with single mapping workspace and Genetic Algorithm for solving inverse kinematic problem of redundant manipulators. Mechanisms and Machine Science, 2019, , 299-308.	0.5	1
7	Multiplex quantification of metals in airborne particulate matter via smartphone and paper-based microfluidics. Analytica Chimica Acta, 2018, 1044, 110-118.	5.4	28
8	A Microchip for Integrated Single-Cell Gene Expression Profiling and Genotoxicity Detection. Sensors, 2016, 16, 1489.	3.8	5
9	A microchip for integrated single-cell genotoxicity assay. Talanta, 2016, 161, 804-811.	5.5	3
10	Optimal dimension of redundant manipulator using the workspace density function. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 1787-1794.	2.1	3
11	Obstacle Avoidance Path Planning of Planar Redundant Manipulators Using Workspace Density. International Journal of Advanced Robotic Systems, 2015, 12, 9.	2.1	12
12	Computational Analysis of SAXS Data Acquisition. Journal of Computational Biology, 2015, 22, 787-805.	1.6	3
13	Obstacle avoidance path planning of cart based on Fourier transform random probability function. Proceedings of SPIE, 2015, , .	0.8	0
14	Inverse Kinematics of Discretely Actuated Ball-Joint Manipulators Using Workspace Density. , 2015, , .		2
15	Workspace density and inverse kinematics for planar serial revolute manipulators. Mechanism and Machine Theory, 2013, 70, 508-522.	4.5	21