

# Hui Dong

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6492994/publications.pdf>

Version: 2024-02-01

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