

# Tao Dong

## List of Publications by Year in descending order

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88  
papers

2,896  
citations

186209

28  
h-index

182361

51  
g-index

89  
all docs

89  
docs citations

89  
times ranked

3339  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photodynamic Therapy Review: Principles, Photosensitizers, Applications, and Future Directions. <i>Pharmaceutics</i> , 2021, 13, 1332.	2.0	336
2	Photoluminescence tuning in carbon dots: surface passivation or/and functionalization, heteroatom doping. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7944-7970.	2.7	274
3	Recent Developments in Optical Detection Technologies in Lab-on-a-Chip Devices for Biosensing Applications. <i>Sensors</i> , 2014, 14, 15458-15479.	2.1	234
4	A Review of Wearable Technologies for Elderly Care that Can Accurately Track Indoor Position, Recognize Physical Activities and Monitor Vital Signs in Real Time. <i>Sensors</i> , 2017, 17, 341.	2.1	231
5	Flexible Photodetector Based on 2D Materials: Processing, Architectures, and Applications. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901657.	1.9	109
6	Compatible immuno-NASBA LOC device for quantitative detection of waterborne pathogens: design and validation. <i>Lab on A Chip</i> , 2012, 12, 602-612.	3.1	84
7	Rapid Identification and Susceptibility Testing of Uropathogenic Microbes via Immunosorbent ATP-Bioluminescence Assay on a Microfluidic Simulator for Antibiotic Therapy. <i>Analytical Chemistry</i> , 2015, 87, 2410-2418.	3.2	63
8	An effective passive micromixer with shifted trapezoidal blades using wide Reynolds number range. <i>Chemical Engineering Research and Design</i> , 2015, 93, 1-11.	2.7	62
9	A smart fully integrated micromachined separator with soft magnetic micro-pillar arrays for cell isolation. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 115021.	1.5	57
10	Integratable non-clogging microconcentrator based on counter-flow principle for continuous enrichment of CaSki cells sample. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 855-865.	1.0	57
11	Measurement and modeling of R141b condensation heat transfer in silicon rectangular microchannels. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 085012.	1.5	54
12	Power generation from conductive droplet sliding on electret film. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	54
13	Immunodetection of salivary biomarkers by an optical microfluidic biosensor with polyethylenimine-modified polythiophene-C70 organic photodetectors. <i>Biosensors and Bioelectronics</i> , 2017, 94, 321-327.	5.3	54
14	Integrated optical microfluidic biosensor using a polycarbazole photodetector for point-of-care detection of hormonal compounds. <i>Journal of Biomedical Optics</i> , 2013, 18, 097001.	1.4	53
15	State-of-the-Art Power Management Circuits for Piezoelectric Energy Harvesters. <i>IEEE Circuits and Systems Magazine</i> , 2018, 18, 27-48.	2.6	52
16	An efficient passive planar micromixer with ellipse-like micropillars for continuous mixing of human blood. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 117, 20-29.	2.6	45
17	Geometric effects on mixing performance in a novel passive micromixer with trapezoidal-zigzag channels. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 094004.	1.5	45
18	Molecular simulations of R141b boiling flow in micro/nano channel: Interfacial phenomena. <i>Energy Conversion and Management</i> , 2006, 47, 2178-2191.	4.4	44

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19	Freon R141b flow boiling in silicon microchannel heat sinks: experimental investigation. <i>Heat and Mass Transfer</i> , 2007, 44, 315-324.	1.2	43
20	Entropy generation and optimization of laminar convective heat transfer and fluid flow in a microchannel with staggered arrays of pin fin structure with tip clearance. <i>Energy Conversion and Management</i> , 2015, 94, 493-504.	4.4	43
21	Multifunctional Sample Preparation Kit and On-Chip Quantitative Nucleic Acid Sequence-Based Amplification Tests for Microbial Detection. <i>Analytical Chemistry</i> , 2012, 84, 8541-8548.	3.2	42
22	Microfluidic Biosensor Array with Integrated Poly(2,7-Carbazole)/Fullerene-Based Photodiodes for Rapid Multiplexed Detection of Pathogens. <i>Sensors</i> , 2013, 13, 15898-15911.	2.1	42
23	Design and optimization of non-clogging counter-flow microconcentrator for enriching epidermoid cervical carcinoma cells. <i>Biomedical Microdevices</i> , 2011, 13, 179-190.	1.4	39
24	A mediator embedded micro-immunosensing unit for electrochemical detection on viruses within physiological saline media. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 115031.	1.5	39
25	Sputum and salivary protein biomarkers and point-of-care biosensors for the management of COPD. <i>Analyst</i> , 2020, 145, 1583-1604.	1.7	36
26	Electrochemical methods for detection of biomarkers of Chronic Obstructive Pulmonary Disease in serum and saliva. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111453.	5.3	35
27	A Microfluidic Device for Continuous Sensing of Systemic Acute Toxicants in Drinking Water. <i>International Journal of Environmental Research and Public Health</i> , 2013, 10, 6748-6763.	1.2	32
28	Integrated micro Pirani gauge based hermetical package monitoring for uncooled VO x bolometer FPAs. <i>Microsystem Technologies</i> , 2011, 17, 115-125.	1.2	30
29	Continuous and Real-Time Detection of Drinking-Water Pathogens with a Low-Cost Fluorescent Optofluidic Sensor. <i>Sensors</i> , 2018, 18, 2210.	2.1	29
30	Electrostatic Energy Harvester Employing Conductive Droplet and Thin-Film Electret. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 315-323.	1.7	27
31	Thermodynamic investigation and optimization of laminar forced convection in a rotating helical tube heat exchanger. <i>Energy Conversion and Management</i> , 2014, 86, 399-409.	4.4	27
32	A Si/SiGe quantum well based biosensor for direct analysis of exothermic biochemical reaction. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 045011.	1.5	25
33	Capacitance Variation Induced by Microfluidic Two-Phase Flow across Insulated Interdigital Electrodes in Lab-On-Chip Devices. <i>Sensors</i> , 2015, 15, 2694-2708.	2.1	25
34	Smartphone-Based Rapid Screening of Urinary Biomarkers. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017, 11, 455-463.	2.7	25
35	Temperature-Dependence in Battery Management Systems for Electric Vehicles: Challenges, Criteria, and Solutions. <i>IEEE Access</i> , 2019, 7, 142203-142213.	2.6	25
36	Non-Fullerene Acceptor Organic Photodetector for Skin-Conformable Photoplethysmography Applications. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	25

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37	LED Optrode with Integrated Temperature Sensing for Optogenetics. <i>Micromachines</i> , 2018, 9, 473.	1.4	24
38	Tuning 2D Black Phosphorus: Defect Tailoring and Surface Functionalization. <i>Chemistry of Materials</i> , 2019, 31, 9917-9938.	3.2	24
39	A Capacitive Touch Screen Sensor for Detection of Urinary Tract Infections in Portable Biomedical Devices. <i>Sensors</i> , 2014, 14, 13851-13862.	2.1	18
40	A fluorimetric nitrite biosensor with polythienothiophene-fullerene thin film detectors for on-site water monitoring. <i>Analyst, The</i> , 2019, 144, 4342-4350.	1.7	17
41	Design of a wearable device for real-time screening of urinary tract infection and kidney disease based on smartphone. <i>Analyst, The</i> , 2018, 143, 2812-2818.	1.7	16
42	A flexible and wearable NO <sub>2</sub> gas detection and early warning device based on a spraying process and an interdigital electrode at room temperature. <i>Microsystems and Nanoengineering</i> , 2022, 8, 40.	3.4	15
43	Recovery of <i>Cryptosporidium</i> and <i>Giardia</i> organisms from surface water by counter-flow refining microfiltration. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2541-2551.	1.2	14
44	Recent methods and biosensors for foodborne pathogen detection in fish: progress and future prospects to sustainable aquaculture systems. <i>Critical Reviews in Food Science and Nutrition</i> , 2021, 61, 1852-1876.	5.4	14
45	High-precision and low-cost wireless 16-channel measurement system for multi-layer thin film characterization. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 3600-3611.	2.5	13
46	Modification of microfluidic paper-based devices with dye nanomaterials obtained by encapsulation of compounds in Y and ZSM5 zeolites. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 66-74.	4.0	13
47	Design and Fabrication of Low-Cost 1536-Chamber Microfluidic Microarrays for Mood-Disorders-Related Serological Studies. <i>Sensors</i> , 2013, 13, 14570-14582.	2.1	12
48	Ultrasensitive opto-microfluidic immunosensor integrating gold nanoparticle-enhanced chemiluminescence and highly stable organic photodetector. <i>Journal of Biomedical Optics</i> , 2014, 19, 030504.	1.4	12
49	Development and optimization of an integrated capillary-based opto-microfluidic device for chemiluminescence quantitative detection. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 125023.	1.5	11
50	A cascade-like silicon filter for improved recovery of oocysts from environmental waters. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 781-790.	1.2	11
51	Monitoring Aquaculture Water Quality: Design of an Early Warning Sensor with <i>Aliivibrio fischeri</i> and Predictive Models. <i>Sensors</i> , 2018, 18, 2848.	2.1	11
52	Facile preparation and thermal properties of Field's alloy nanofluid for heat transfer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 581, 123805.	2.3	11
53	Epitaxial Growth and Characterization of Self-Doping $\text{Si}_{1-x}\text{Ge}_x/\text{Si}$ Multi-Quantum Well Materials. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 213-219.	1.7	10
54	Photodynamic Therapy Review: Principles, Photosensitizers, Applications, and Future Directions. <i>Pharmaceutics</i> , 2021, 13, .	2.0	10

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55	Mitigating hook effect in one-step quantitative sandwich lateral flow assay by timed conjugate release. <i>Talanta</i> , 2022, 240, 123157.	2.9	10
56	Modelling and design of a capacitive touch sensor for urinary tract infection detection at the point-of-care. , 2014, 2014, 4995-8.		9
57	Integratable Capacitive Sensor for Identification of Microfluidic Two-Phase Flow Patterns in Lab-on-Chip Devices. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 197-206.	1.7	9
58	Identification of microfluidic two-phase flow patterns in lab-on-chip devices. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 77-83.	0.4	8
59	A CMOS Readout With High-Precision and Low-Temperature-Coefficient Background Current Skimming for Infrared Focal Plane Array. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2015, 25, 1447-1455.	5.6	8
60	A synthetic layout optimization of discrete heat sources flush mounted on a laminar flow cooled flat plate based on the constructal law. <i>Energy Conversion and Management</i> , 2015, 106, 300-307.	4.4	8
61	Point-of-care COPD diagnostics: biomarkers, sampling, paper-based analytical devices, and perspectives. <i>Analyst</i> , The, 2022, 147, 1273-1293.	1.7	8
62	An ultrasensitive fluorimetric sensor for pre-screening of water microbial contamination risk. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 258, 119805.	2.0	7
63	A Flexible and Wearable Nylon Fiber Sensor Modified by Reduced Graphene Oxide and ZnO Quantum Dots for Wide-Range NO <sub>2</sub> Gas Detection at Room Temperature. <i>Materials</i> , 2022, 15, 3772.	1.3	7
64	Void-free wafer-level adhesive bonding utilizing modified poly (diallyl phthalate). <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 125021.	1.5	6
65	Numerical investigation of developing convective heat transfer in a rotating helical pipe. <i>International Communications in Heat and Mass Transfer</i> , 2014, 57, 170-182.	2.9	6
66	Detection of Urinary Tract Infections on lab-on-chip device by measuring photons emitted from ATP bioluminescence. , 2014, 2014, 3114-7.		5
67	PDMS Microlenses for Focusing Light in Narrow Band Imaging Diagnostics. <i>Sensors</i> , 2019, 19, 1057.	2.1	5
68	A Low-Power CMOS Current Reference for Piezoelectric Energy Harvesters. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 3403-3410.	1.6	5
69	Design and Experimental Approach to the Construction of a Human Signal-Molecule-Profiling Database. <i>International Journal of Environmental Research and Public Health</i> , 2013, 10, 6887-6908.	1.2	4
70	Modeling, Design, and Fabrication of Self-Doping Si <sub>1-x</sub> Gex/Si Multiquantum Well Material for Infrared Sensing. <i>Journal of Sensors</i> , 2016, 2016, 1-7.	0.6	4
71	Design of a microfluidic paper-based device for analysis of biomarkers from urine samples on diapers. , 2017, 2017, 181-184.		4
72	A Diaper Pad for Diaper-Based Urine Collection and Colorimetric Screening of Urinary Biomarkers. <i>Annals of Biomedical Engineering</i> , 2018, 46, 717-725.	1.3	4

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73	Fully integrated micro-separator with soft-magnetic micro-pillar arrays for filtrating lymphocytes. , 2010, 2010, 6522-6.		3
74	Characterization of the Electrical Properties of a Double Heterostructure GaN/AlGaIn Epitaxial Layer with an AlGaIn Interlayer. Journal of Electronic Materials, 2021, 50, 2521-2529.	1.0	3
75	A Pressure Driven Nanoconcentrator with Anti-Clogging Behavior for Recovery of Bio-Nanoparticles. Chemical Engineering Communications, 2015, 202, 718-727.	1.5	2
76	Colorimetric recognition for urinalysis dipsticks based on quadratic discriminant analysis. , 2017, 2017, 3902-3905.		2
77	Stability of colorimetric results in the detection of urine biomarkers using a paper-based analytical device. , 2017, 2017, 185-188.		2
78	Bi-objective optimization of axial profile of pin fin with uniform base heat flux. Applied Thermal Engineering, 2018, 128, 830-836.	3.0	2
79	A Fluorescence Sensing Method with Reduced DNA Typing and Low-Cost Instrumentation for Detection of Sample Tampering Cases in Urinalysis. Annals of Biomedical Engineering, 2020, 48, 644-654.	1.3	2
80	A household LOC device for online monitoring bacterial pathogens in drinking water with green design concept. , 2013, 2013, 1708-11.		1
81	Detection of stress hormones by a microfluidic-integrated polycarbazole/fullerene photodetector. , 2013, 2013, 4470-3.		1
82	Comments on "Detailed analysis for the cooling performance enhancement of a heat source under a thick plate" by Hajmohammadi M.R. [Energy Convers. Manage. 76 (2013) 691-700]. Energy Conversion and Management, 2016, 129, 34-35.	4.4	1
83	Profiling a multiplex short tandem repeat loci from human urine with use of low cost on-site technology for verification of sample authenticity. , 2017, 2017, 3441-3444.		1
84	Lower-Order Compensation Chain Threshold-Reduction Technique for Multi-Stage Voltage Multipliers. Sensors, 2018, 18, 1245.	2.1	1
85	0.13 $\mu$ m Low-Power CMOS Current Starved VCO for Vibration Energy Harvesters. IEEE Transactions on Electron Devices, 2021, 68, 2167-2172.	1.6	1
86	Applicability and practical concerns of lock-in thermography for measurement of heat transfer coefficients. International Communications in Heat and Mass Transfer, 2021, 126, 105259.	2.9	1
87	A resistorless MOSFET-only current reference for energy harvesting applications. , 2022, , .		1
88	Highly conductive thermal inserts and conjugated conduction-convection design. , 2019, , 11-76.		0