

Bo Wang

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,020
citations

623734

14
h-index

610901

24
g-index

28
all docs

28
docs citations

28
times ranked

1214
citing authors

#	ARTICLE	IF	CITATIONS
1	A 3D-printed microfluidic-enabled hollow microneedle architecture for transdermal drug delivery. <i>Biomicrofluidics</i> , 2019, 13, 064125.	2.4	118
2	Wearable aptamer-field-effect transistor sensing system for noninvasive cortisol monitoring. <i>Science Advances</i> , 2022, 8, eabk0967.	10.3	118
3	Flexible, multifunctional neural probe with liquid metal enabled, ultra-large tunable stiffness for deep-brain chemical sensing and agent delivery. <i>Biosensors and Bioelectronics</i> , 2019, 131, 37-45.	10.1	107
4	Efficient in Vitro siRNA Delivery and Intramuscular Gene Silencing Using PEG-Modified PAMAM Dendrimers. <i>Molecular Pharmaceutics</i> , 2012, 9, 1812-1821.	4.6	92
5	A programmable epidermal microfluidic valving system for wearable biofluid management and contextual biomarker analysis. <i>Nature Communications</i> , 2020, 11, 4405.	12.8	92
6	A wearable freestanding electrochemical sensing system. <i>Science Advances</i> , 2020, 6, eaaz0007.	10.3	87
7	Noninvasive wearable electroactive pharmaceutical monitoring for personalized therapeutics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19017-19025.	7.1	71
8	Natural Perspiration Sampling and in Situ Electrochemical Analysis with Hydrogel Micropatches for User-Identifiable and Wireless Chemo/Biosensing. <i>ACS Sensors</i> , 2020, 5, 93-102.	7.8	69
9	A rapid and low-cost fabrication and integration scheme to render 3D microfluidic architectures for wearable biofluid sampling, manipulation, and sensing. <i>Lab on A Chip</i> , 2019, 19, 2844-2853.	6.0	37
10	A Mediator-Free Electroenzymatic Sensing Methodology to Mitigate Ionic and Electroactive Interferents' Effects for Reliable Wearable Metabolite and Nutrient Monitoring. <i>Advanced Functional Materials</i> , 2020, 30, 1908507.	14.9	36
11	Design Framework and Sensing System for Noninvasive Wearable Electroactive Drug Monitoring. <i>ACS Sensors</i> , 2020, 5, 265-273.	7.8	28
12	Highly Efficient and Mild Method for Regioselective De- <i>O</i> -benzylation of Saccharides by Co ₂ (CO) ₈ -Et ₃ SiH ⁺ CO Reagent System. <i>Organic Letters</i> , 2010, 12, 536-539.	4.6	23
13	An implantable multifunctional neural microprobe for simultaneous multi-analyte sensing and chemical delivery. <i>Lab on A Chip</i> , 2020, 20, 1390-1397.	6.0	18
14	Microbiosensor fabrication by polydimethylsiloxane stamping for combined sensing of glucose and choline. <i>Analyst</i> , 2018, 143, 5008-5013.	3.5	17
15	Pt Nanoparticle-Modified Carbon Fiber Microelectrode for Selective Electrochemical Sensing of Hydrogen Peroxide. <i>Electroanalysis</i> , 2019, 31, 1641-1645.	2.9	16
16	A wearable electrofluidic actuation system. <i>Lab on A Chip</i> , 2019, 19, 2966-2972.	6.0	15
17	Synthesis of orthogonally protected l-glucose, l-mannose, and l-galactose from d-glucose. <i>Tetrahedron</i> , 2012, 68, 6981-6989.	1.9	14
18	ROS-Response-Induced Zwitterionic Dendrimer for Gene Delivery. <i>Langmuir</i> , 2019, 35, 1613-1620.	3.5	14

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19	Active Cobalt Catalyst for the Cleavage of Benzyl Ether. <i>Journal of Organic Chemistry</i> , 2011, 76, 9531-9535.	3.2	13
20	Enzyme Deposition by Polydimethylsiloxane Stamping for Biosensor Fabrication. <i>Electroanalysis</i> , 2017, 29, 2300-2306.	2.9	12
21	A touch-based multimodal and cryptographic bio-human-machine interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2201937119.	7.1	11
22	A Complete Electroenzymatic Choline Microprobe Based on Nanostructured Platinum Microelectrodes and an IrOx On-probe Reference Electrode. <i>Electroanalysis</i> , 2019, 31, 1249-1253.	2.9	4
23	A Fouling-Resistant Voltammetric Sensing System for Wearable Electroactive Biomarker Monitoring. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 1059-1063.	2.5	4
24	An Adhesive and Corrosion-Resistant Biomarker Sensing Film for Biosmart Wearable Consumer Electronics. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 1112-1114.	2.5	2
25	Wearable chemical sensors. , 2020, , 49-63.		2
26	Multi-Functional Neural Probes for Pharmacological and Optogenetic Manipulation and Detection of Neurotransmitter Release. , 2018, , .		0