

# Yifan Dai

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

1,873  
citations

393982

19  
h-index

433756

31  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1919  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the Transâ€Cleaveage Activity of CRISPRâ€Cas12a (cpf1) for the Development of a Universal Electrochemical Biosensor. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17399-17405.	7.2	399
2	Effect of MnO <sub>2</sub> Phase Structure on the Oxidative Reactivity toward Bisphenol A Degradation. <i>Environmental Science &amp; Technology</i> , 2018, 52, 11309-11318.	4.6	212
3	Effects of MnO <sub>2</sub> of different structures on activation of peroxymonosulfate for bisphenol A degradation under acidic conditions. <i>Chemical Engineering Journal</i> , 2019, 370, 906-915.	6.6	205
4	Recent Advances on Electrochemical Biosensing Strategies toward Universal Pointâ€ofâ€Care Systems. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12355-12368.	7.2	155
5	CRISPR Mediated Biosensing Toward Understanding Cellular Biology and Pointâ€ofâ€Care Diagnosis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20754-20766.	7.2	138
6	Surpassing the detection limit and accuracy of the electrochemical DNA sensor through the application of CRISPR Cas systems. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112100.	5.3	123
7	Exploring the Transâ€Cleaveage Activity of CRISPRâ€Cas12a (cpf1) for the Development of a Universal Electrochemical Biosensor. <i>Angewandte Chemie</i> , 2019, 131, 17560-17566.	1.6	74
8	Recent Advances on Electrochemical Biosensing Strategies toward Universal Pointâ€ofâ€Care Systems. <i>Angewandte Chemie</i> , 2019, 131, 12483-12496.	1.6	57
9	Strand Displacement Strategies for Biosensor Applications. <i>Trends in Biotechnology</i> , 2019, 37, 1367-1382.	4.9	52
10	Highly sensitive electrochemical analysis of tunnel structured MnO <sub>2</sub> nanoparticle-based sensors on the oxidation of nitrite. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 746-750.	4.0	48
11	A Single-Use, In Vitro Biosensor for the Detection of T-Tau Protein, A Biomarker of Neuro-Degenerative Disorders, in PBS and Human Serum Using Differential Pulse Voltammetry (DPV). <i>Biosensors</i> , 2017, 7, 10.	2.3	47
12	An Integrated Multiâ€Function Heterogeneous Biochemical Circuit for Highâ€Resolution Electrochemistryâ€Based Genetic Analysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20545-20551.	7.2	39
13	Application of bioconjugation chemistry on biosensor fabrication for detection of TAR-DNA binding protein 43. <i>Biosensors and Bioelectronics</i> , 2018, 117, 60-67.	5.3	36
14	Detection of 17 Î²-Estradiol in Environmental Samples and for Health Care Using a Single-Use, Cost-Effective Biosensor Based on Differential Pulse Voltammetry (DPV). <i>Biosensors</i> , 2017, 7, 15.	2.3	32
15	A New Class of Lowâ€Temperature Plasmaâ€Activated, Inorganic Saltâ€Based Particleâ€Free Inks for Inkjet Printing Metals. <i>Advanced Materials Technologies</i> , 2019, 4, 1900119.	3.0	29
16	CRISPR Mediated Biosensing Toward Understanding Cellular Biology and Pointâ€ofâ€Care Diagnosis. <i>Angewandte Chemie</i> , 2020, 132, 20938-20950.	1.6	27
17	Neutral Charged Immunosensor Platform for Protein-based Biomarker Analysis with Enhanced Sensitivity. <i>ACS Sensors</i> , 2019, 4, 161-169.	4.0	26
18	A Cuprous Oxide Thin Film Non-Enzymatic Glucose Sensor Using Differential Pulse Voltammetry and Other Voltammetry Methods and a Comparison to Different Thin Film Electrodes on the Detection of Glucose in an Alkaline Solution. <i>Biosensors</i> , 2018, 8, 4.	2.3	25

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19	A Simple, Cost-Effective Sensor for Detecting Lead Ions in Water Using Under-Potential Deposited Bismuth Sub-Layer with Differential Pulse Voltammetry (DPV). <i>Sensors</i> , 2017, 17, 950.	2.1	19
20	Nanoparticle based simple electrochemical biosensor platform for profiling of protein-nucleic acid interactions. <i>Talanta</i> , 2019, 195, 46-54.	2.9	18
21	In Vitro Quantified Determination of $\beta$ -Amyloid 42 Peptides, a Biomarker of Neuro-Degenerative Disorders, in PBS and Human Serum Using a Simple, Cost-Effective Thin Gold Film Biosensor. <i>Biosensors</i> , 2017, 7, 29.	2.3	17
22	Advanced fabrication of biosensor on detection of Glypican-1 using S-Acetylmercaptosuccinic anhydride (SAMSA) modification of antibody. <i>Scientific Reports</i> , 2018, 8, 13541.	1.6	14
23	Immunoglobulin G-Based Steric Hindrance Assay for Protein Detection. <i>ACS Sensors</i> , 2020, 5, 140-146.	4.0	14
24	Bioconjugated, Single-Use Biosensor for the Detection of Biomarkers of Prostate Cancer. <i>ACS Omega</i> , 2018, 3, 6411-6418.	1.6	13
25	Phase-Regulated Sensing Mechanism of MoS <sub>2</sub> Based Nanohybrids toward Point-of-Care Prostate Cancer Diagnosis. <i>Small</i> , 2020, 16, 2000307.	5.2	13
26	Dynamic Control of Peptide Strand Displacement Reaction Using Functional Biomolecular Domain for Biosensing. <i>ACS Sensors</i> , 2019, 4, 1980-1985.	4.0	8
27	Effects of Second Metal Oxides on Surface-Mediated Reduction of Contaminants by Fe(II) with Iron Oxide. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 680-687.	1.2	8
28	Design and Application of Metal Organic Framework ZIF-90-ZnO-MoS <sub>2</sub> Nanohybrid for an Integrated Electrochemical Liquid Biopsy. <i>Nano Letters</i> , 2022, 22, 6833-6840.	4.5	8
29	An Integrated Multi-Function Heterogeneous Biochemical Circuit for High-Resolution Electrochemistry-Based Genetic Analysis. <i>Angewandte Chemie</i> , 2020, 132, 20726-20732.	1.6	5
30	Chemical Translational Biology-Guided Molecular Diagnostics: The Front Line To Mediate the Current SARS-CoV-2 Pandemic. <i>ChemBioChem</i> , 2020, 21, 3492-3494.	1.3	2
31	Innenteilbild: Exploring the Trans-Cleavage Activity of CRISPR-Cas12a (cpf1) for the Development of a Universal Electrochemical Biosensor ( <i>Angew. Chem.</i> 48/2019). <i>Angewandte Chemie</i> , 2019, 131, 17242-17242.	1.6	0
32	Innenteilbild: An Integrated Multi-Function Heterogeneous Biochemical Circuit for High-Resolution Electrochemistry-Based Genetic Analysis ( <i>Angew. Chem.</i> 46/2020). <i>Angewandte Chemie</i> , 2020, 132, 20426-20426.	1.6	0