

Panpan Gai

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,147
citations

257450

24
h-index

330143

37
g-index

38
all docs

38
docs citations

38
times ranked

2258
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured material-based biofuel cells: recent advances and future prospects. <i>Chemical Society Reviews</i> , 2017, 46, 1545-1564.	38.1	258
2	Polyaniline networks grown on graphene nanoribbons-coated carbon paper with a synergistic effect for high-performance microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12587.	10.3	138
3	Enzymatic Biofuel-Cell-Based Self-Powered Biosensor Integrated with DNA Amplification Strategy for Ultrasensitive Detection of Single-Nucleotide Polymorphism. <i>Analytical Chemistry</i> , 2019, 91, 8697-8704.	6.5	135
4	Highly sensitive and stable self-powered biosensing for exosomes based on dual metal-organic frameworks nanocarriers. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112907.	10.1	130
5	Integration of Biofuel Cell-Based Self-Powered Biosensing and Homogeneous Electrochemical Strategy for Ultrasensitive and Easy-To-Use Bioassays of MicroRNA. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9325-9331.	8.0	113
6	Equipment-free and visual detection of multiple biomarkers via an aggregation induced emission luminogen-based paper biosensor. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112336.	10.1	113
7	Solar-Powered Organic Semiconductor-Bacteria Biohybrids for CO ₂ Reduction into Acetic Acid. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7224-7229.	13.8	111
8	Ultrasensitive Ratiometric Homogeneous Electrochemical MicroRNA Biosensing via Target-Triggered Ru(III) Release and Redox Recycling. <i>Analytical Chemistry</i> , 2017, 89, 12293-12298.	6.5	108
9	Ultrasensitive Self-Powered Aptasensor Based on Enzyme Biofuel Cell and DNA Bioconjugate: A Facile and Powerful Tool for Antibiotic Residue Detection. <i>Analytical Chemistry</i> , 2017, 89, 2163-2169.	6.5	107
10	Highly sensitive homogeneous electrochemical aptasensor for antibiotic residues detection based on dual recycling amplification strategy. <i>Biosensors and Bioelectronics</i> , 2016, 82, 49-54.	10.1	100
11	Nitrogen-Enriched Conjugated Polymer Enabled Metal-Free Carbon Nanozymes with Efficient Oxidase-Like Activity. <i>Small</i> , 2022, 18, e2104993.	10.0	81
12	Label-Free and Ultrasensitive Biomolecule Detection Based on Aggregation Induced Emission Fluorogen via Target-Triggered Hemin/G-Quadruplex-Catalyzed Oxidation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4561-4568.	8.0	76
13	Enzymatic Fuel Cell-Based Self-Powered Homogeneous Immunosensing Platform via Target-Induced Glucose Release: An Appealing Alternative Strategy for Turn-On Melamine Assay. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35721-35728.	8.0	67
14	Design of an enzymatic biofuel cell with large power output. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11511-11516.	10.3	60
15	Photo-Assisted Robust Anti-Interference Self-Powered Biosensing of MicroRNA Based on Pt-S Bonds and the Inorganic-Organic Hybridization Strategy. <i>Analytical Chemistry</i> , 2022, 94, 1654-1660.	6.5	52
16	A nitrogen-doped graphene/gold nanoparticle/formate dehydrogenase bioanode for high power output membrane-less formic acid/O ₂ biofuel cells. <i>Analyst</i> , 2015, 140, 1822-1826.	3.5	39
17	Ultrasensitive self-powered cytosensors based on exogenous redox-free enzyme biofuel cells as point-of-care tools for early cancer diagnosis. <i>Chemical Communications</i> , 2015, 51, 16763-16766.	4.1	36
18	A ternary hybrid of carbon nanotubes/graphitic carbon nitride nanosheets/gold nanoparticles used as robust substrate electrodes in enzyme biofuel cells. <i>Chemical Communications</i> , 2015, 51, 14735-14738.	4.1	34

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19	Light-driven self-powered biosensor for ultrasensitive organophosphate pesticide detection <i>via</i> integration of the conjugated polymer-sensitized CdS and enzyme inhibition strategy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6842-6847.	5.8	34
20	Graphene/Au composites as an anode modifier for improving electricity generation in <i>Shewanella</i> -inoculated microbial fuel cells. <i>Analytical Methods</i> , 2015, 7, 4640-4644.	2.7	33
21	Conductive Polymer-Exoelectrogen Hybrid Bioelectrode with Improved Biofilm Formation and Extracellular Electron Transport. <i>Advanced Electronic Materials</i> , 2019, 5, 1900320.	5.1	33
22	An-ON-OFF-switchable power output of enzymatic biofuel cell controlled by thermal-sensitive polymer. <i>Biosensors and Bioelectronics</i> , 2015, 74, 142-149.	10.1	32
23	Self-Powered Biosensing Platform Based on Signal-On-Enzymatic Biofuel Cell for DNA Methyltransferase Activity Analysis and Inhibitor Screening. <i>Analytical Chemistry</i> , 2020, 92, 5426-5430.	6.5	32
24	Photo-driven self-powered biosensor for ultrasensitive microRNA detection <i>via</i> DNA conformation-controlled co-sensitization behavior. <i>Chemical Communications</i> , 2020, 56, 7116-7119.	4.1	26
25	Construction of biofuel cells-based self-powered biosensors via design of nanocatalytic system. <i>Nano Energy</i> , 2022, 93, 106806.	16.0	26
26	Laser-Scribed N-Doped Graphene for Integrated Flexible Enzymatic Biofuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12437-12442.	6.7	25
27	Glucose Dehydrogenase-like Nanozyme Based on Black Phosphorus Nanosheets for High-Performance Biofuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16549-16554.	6.7	23
28	Self-Photocatalysis Boosted Electrochemiluminescence Signal Amplification via In Situ Generation of the Coreactant. <i>Analytical Chemistry</i> , 2021, 93, 12441-12446.	6.5	21
29	Conjugated Polymer Enhanced Photoelectric Response of Self-Circulating Photosynthetic Bioelectrochemical Cell. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38993-39000.	8.0	19
30	A Fe ₃ O ₄ -carbon nanofiber/gold nanoparticle hybrid for enzymatic biofuel cells with larger power output. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11026-11031.	10.3	18
31	Unique quenching of fluorescent copper nanoclusters based on target-induced oxidation effect: a simple, label-free, highly sensitive and specific bleomycin assay. <i>RSC Advances</i> , 2016, 6, 76679-76683.	3.6	12
32	Biofuel Cell-Driven Robust Electrochemiluminescence Biosensing Platform. <i>Analytical Chemistry</i> , 2021, 93, 11745-11750.	6.5	12
33	Solar-Powered Organic Semiconductor-Bacteria Biohybrids for CO ₂ Reduction into Acetic Acid. <i>Angewandte Chemie</i> , 2020, 132, 7291-7296.	2.0	10
34	Triplex DNA formation-mediated strand displacement reaction for highly sensitive fluorescent detection of melamine. <i>Talanta</i> , 2018, 185, 352-358.	5.5	9
35	Target-induced diffusivity enhancement for rapid and highly sensitive homogeneous electrochemical detection of BLM in human serum. <i>Talanta</i> , 2018, 190, 492-497.	5.5	9
36	Anode-Driven Controlled Release of Cathodic Fuel via pH Response for Smart Enzymatic Biofuel Cell. <i>IScience</i> , 2020, 23, 101133.	4.1	9

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37	Biohybrid Cells for Photoelectrochemical Conversion Based on the HCOO ⁻ /sup>â€“ </sup>â€“CO ₂ </sub> Circulation Approach. ACS Applied Bio Materials, 2020, 3, 8069-8074.	4.6	6
38	Enzymatic Biofuel Cells for Self-Powered Electrochemical Sensors. , 2021, , 271-297.		0