

# Yanhu Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10071039/publications.pdf>

Version: 2024-02-01

35  
papers

1,236  
citations

279798

23  
h-index

361022

35  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1592  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible photoelectrochemical sensing platform by in situ generated CdS quantum dots decorated branched-TiO <sub>2</sub> nanorods equipped with Prussian blue electrochromic display. <i>Biosensors and Bioelectronics</i> , 2017, 89, 859-865.	10.1	77
2	Photoelectrochemical lab-on-paper device equipped with a porous Au-paper electrode and fluidic delay-switch for sensitive detection of DNA hybridization. <i>Lab on A Chip</i> , 2013, 13, 3945.	6.0	76
3	Facile and sensitive paper-based chemiluminescence DNA biosensor using carbon dots dotted nanoporous gold signal amplification label. <i>Analytical Methods</i> , 2013, 5, 1328.	2.7	76
4	A three-dimensional origami-based immuno-biofuel cell for self-powered, low-cost, and sensitive point-of-care testing. <i>Chemical Communications</i> , 2014, 50, 1947.	4.1	76
5	“On-Off” Photoelectrochemical/Visual Lab-on-Paper Sensing via Signal Amplification of CdS Quantum Dots@Leaf-Shape ZnO and Quenching of Au-Modified Prism-Anchored Octahedral CeO <sub>2</sub> Nanoparticles. <i>Analytical Chemistry</i> , 2018, 90, 11297-11304.	6.5	65
6	Paper-based closed Au-Bipolar electrode electrochemiluminescence sensing platform for the detection of miRNA-155. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111917.	10.1	58
7	Graphene functionalized porous Au-paper based electrochemiluminescence device for detection of DNA using luminescent silver nanoparticles coated calcium carbonate/carboxymethyl chitosan hybrid microspheres as labels. <i>Biosensors and Bioelectronics</i> , 2014, 59, 307-313.	10.1	52
8	A paper-based electrochemiluminescence electrode as an aptamer-based cytosensor using PtNi@carbon dots as nanolabels for detection of cancer cells and for in-situ screening of anticancer drugs. <i>Mikrochimica Acta</i> , 2016, 183, 1873-1880.	5.0	49
9	Platelike WO <sub>3</sub> sensitized with CdS quantum dots heterostructures for photoelectrochemical dynamic sensing of H <sub>2</sub> O <sub>2</sub> based on enzymatic etching. <i>Biosensors and Bioelectronics</i> , 2016, 85, 205-211.	10.1	46
10	Highly sensitive microfluidic paper-based photoelectrochemical sensing platform based on reversible photo-oxidation products and morphology-preferable multi-plate ZnO nanoflowers. <i>Biosensors and Bioelectronics</i> , 2018, 110, 58-64.	10.1	43
11	Self-Powered and Sensitive DNA Detection in a Three-Dimensional Origami-Based Biofuel Cell Based on a Porous Pt-Paper Cathode. <i>Chemistry - A European Journal</i> , 2014, 20, 12453-12462.	3.3	42
12	Reversible electron storage in tandem photoelectrochemical cell for light driven unassisted overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 275, 119094.	20.2	37
13	Self-powered competitive immunosensor driven by biofuel cell based on hollow-channel paper analytical devices. <i>Biosensors and Bioelectronics</i> , 2015, 71, 18-24.	10.1	35
14	Two-dimensional black phosphorus nanoflakes: A coreactant-free electrochemiluminescence luminophors for selective Pb <sup>2+</sup> detection based on resonance energy transfer. <i>Journal of Hazardous Materials</i> , 2021, 403, 123601.	12.4	34
15	A disposable paper-based electrochemiluminescence device for ultrasensitive monitoring of CEA based on Ru(bpy) <sub>3</sub> <sup>2+</sup> @Au nanocages. <i>RSC Advances</i> , 2015, 5, 28324-28331.	3.6	33
16	Paper-Based Constant Potential Electrochemiluminescence Sensing Platform with Black Phosphorus as a Luminophore Enabled by a Perovskite Solar Cell. <i>Analytical Chemistry</i> , 2020, 92, 6822-6826.	6.5	32
17	Aptamer based test stripe for ultrasensitive detection of mercury(II) using a phenylene-ethynylene reagent on nanoporous silver as a chemiluminescence reagent. <i>Mikrochimica Acta</i> , 2014, 181, 663-670.	5.0	31
18	Photoelectrochemical Sensor Based on Molecularly Imprinted Polymer-Coated TiO <sub>2</sub> Nanotubes for Lindane Specific Recognition and Detection. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 703-711.	3.7	28

#	ARTICLE	IF	CITATIONS
19	Visible-light driven biofuel cell based on hierarchically branched titanium dioxide nanorods photoanode for tumor marker detection. <i>Biosensors and Bioelectronics</i> , 2016, 83, 327-333.	10.1	28
20	A chemiluminescence excited photoelectrochemistry aptamer-device equipped with a tin dioxide quantum dot/reduced graphene oxide nanocomposite modified porous Au-paper electrode. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3462-3468.	5.8	27
21	Engineering anatase hierarchically cactus-like TiO <sub>2</sub> arrays for photoelectrochemical and visualized sensing platform. <i>Biosensors and Bioelectronics</i> , 2017, 90, 336-342.	10.1	27
22	Hierarchical hematite/TiO <sub>2</sub> nanorod arrays coupled with responsive mesoporous silica nanomaterial for highly sensitive photoelectrochemical sensing. <i>Biosensors and Bioelectronics</i> , 2018, 117, 515-521.	10.1	27
23	Wide-Spectrum-Responsive Paper-Supported Photoelectrochemical Sensing Platform Based on Black Phosphorus-Sensitized TiO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41062-41068.	8.0	25
24	Paper-Based Analytical Devices Relying on Visible-Light-Enhanced Glucose/Air Biofuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24330-24337.	8.0	23
25	Self-powered sensing platform equipped with Prussian blue electrochromic display driven by photoelectrochemical cell. <i>Biosensors and Bioelectronics</i> , 2017, 89, 728-734.	10.1	23
26	A visible light photoelectrochemical sensor for tumor marker detection using tin dioxide quantum dot-graphene as labels. <i>Analyst</i> , 2013, 138, 7112.	3.5	22
27	Self-powered sensor for Hg <sup>2+</sup> detection based on hollow-channel paper analytical devices. <i>RSC Advances</i> , 2015, 5, 24479-24485.	3.6	22
28	Photoelectrochemical Detection of Exosomal miRNAs by Combining Target-Programmed Controllable Signal Quenching Engineering. <i>Analytical Chemistry</i> , 2022, 94, 3082-3090.	6.5	22
29	A photoelectrochemical biosensor using ruthenium complex-reduced graphene oxide hybrid as the photocurrent signal reporter assembled on rhombic TiO <sub>2</sub> nanocrystals driven by visible light. <i>Analytica Chimica Acta</i> , 2014, 828, 27-33.	5.4	19
30	Ultrasensitive chemiluminescence detection of DNA on a microfluidic paper-based analytical device. <i>Monatshefte für Chemie</i> , 2014, 145, 129-135.	1.8	19
31	Time-resolution addressable photoelectrochemical strategy based on hollow-channel paper analytical devices. <i>Biosensors and Bioelectronics</i> , 2018, 120, 64-70.	10.1	18
32	Electrochemiluminescence DNA biosensor based on the use of gold nanoparticle modified graphite-like carbon nitride. <i>Mikrochimica Acta</i> , 2017, 184, 2587-2596.	5.0	17
33	A Paper-Supported Photoelectrochemical Sensing Platform Based on Surface Plasmon Resonance Enhancement for Real-Time H <sub>2</sub> S Determination. <i>Journal of Analysis and Testing</i> , 2019, 3, 89-98.	5.1	14
34	Visual distance readout to display the level of energy generation in paper-based biofuel cells: application to enzymatic sensing of glucose. <i>Mikrochimica Acta</i> , 2019, 186, 283.	5.0	6
35	Direct-readout photoelectrochemical lab-on-paper biosensing platform based on coupled electricity generating system and paper supercapacitors. <i>Talanta</i> , 2021, 222, 121517.	5.5	5