

# Yuanhong Xu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7923070/publications.pdf>

Version: 2024-02-01

105  
papers

5,505  
citations

57758

44  
h-index

85541

71  
g-index

106  
all docs

106  
docs citations

106  
times ranked

7252  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance electrocatalytic conversion of $N_2$ to $NH_3$ using oxygen-vacancy-rich $TiO_2$ in situ grown on $Ti_3C_2Tx$ MXene. <i>Advanced Energy Materials</i> , 2019, 9, 1803406.	19.5	346
2	Ambient $N_2$ fixation to $NH_3$ at ambient conditions: Using $Nb_2O_5$ nanofiber as a high-performance electrocatalyst. <i>Nano Energy</i> , 2018, 52, 264-270.	16.0	331
3	Multifunctional N,S co-doped carbon quantum dots with pH- and thermo-dependent switchable fluorescent properties and highly selective detection of glutathione. <i>Carbon</i> , 2016, 104, 169-178.	10.3	308
4	Recent progress in two-dimensional inorganic quantum dots. <i>Chemical Society Reviews</i> , 2018, 47, 586-625.	38.1	230
5	Carbon quantum dots directly generated from electrochemical oxidation of graphite electrodes in alkaline alcohols and the applications for specific ferric ion detection and cell imaging. <i>Analyst</i> , The, 2016, 141, 2657-2664.	3.5	226
6	Applications of carbon quantum dots in electrochemiluminescence: A mini review. <i>Electrochemistry Communications</i> , 2014, 48, 151-154.	4.7	158
7	Graphene as transparent electrodes: fabrication and new emerging applications. <i>Small</i> , 2016, 12, 1400-1419.	10.0	155
8	Rational design of hydroxyl-rich $Ti_3C_2Tx$ MXene quantum dots for high-performance electrochemical $N_2$ reduction. <i>Advanced Energy Materials</i> , 2020, 10, 2000797.	19.5	153
9	Electrochemically generated green-fluorescent N-doped carbon quantum dots for facile monitoring alkaline phosphatase activity based on the $Fe^{3+}$ -mediating ON-OFF-ON-OFF fluorescence principle. <i>Carbon</i> , 2018, 127, 340-348.	10.3	125
10	Near-infrared regulated nanozymatic/photothermal/photodynamic triple therapy for combating multidrug-resistant bacterial infections via oxygen-vacancy molybdenum trioxide nanodots. <i>Small</i> , 2021, 17, e2005739.	10.0	116
11	Lab-on-paper micro- and nano-analytical devices: fabrication, modification, detection and emerging applications. <i>Mikrochimica Acta</i> , 2016, 183, 1521-1542.	5.0	110
12	Electrochemical biosensors based on magnetic micro/nano particles. <i>Electrochimica Acta</i> , 2012, 84, 62-73.	5.2	107
13	An $MnO_2@Ti_3C_2Tx$ MXene nanohybrid: an efficient and durable electrocatalyst toward artificial $N_2$ fixation to $NH_3$ under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18823-18827.	10.3	107
14	Two-dimensional titanium carbide (MXene)-based solid-state electrochemiluminescent sensor for label-free single-nucleotide mismatch discrimination in human urine. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 400-407.	7.8	101
15	A highly conductive porous graphene electrode prepared via in situ reduction of graphene oxide using Cu nanoparticles for the fabrication of high performance supercapacitors. <i>RSC Advances</i> , 2015, 5, 54275-54282.	3.6	85
16	Simultaneous synthesis of $WO_3$ quantum dots and bundle-like nanowires using a one-pot template-free solvothermal strategy and their versatile applications. <i>Small</i> , 2017, 13, 1603689.	10.0	85
17	$WO_3$ nanosheets rich in oxygen vacancies for enhanced electrocatalytic $N_2$ reduction to $NH_3$ . <i>Nanoscale</i> , 2019, 11, 19274-19277.	5.6	84
18	Electrochemiluminescence sensor based on partial sulfonation of polystyrene with carbon nanotubes. <i>Analytical Chemistry</i> , 2007, 79, 5439-5443.	6.5	82

#	ARTICLE	IF	CITATIONS
19	Boron Nitride Quantum Dots with Solvent-Regulated Blue/Green Photoluminescence and Electrochemiluminescent Behavior for Versatile Applications. <i>Advanced Optical Materials</i> , 2017, 5, 1600661.	7.3	82
20	Review: Aptamers in microfluidic chips. <i>Analytica Chimica Acta</i> , 2010, 683, 12-20.	5.4	79
21	Recent advances of MXene as promising catalysts for electrochemical nitrogen reduction reaction. <i>Chinese Chemical Letters</i> , 2020, 31, 953-960.	9.0	75
22	Preparation of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-Derived Quantum Dots with White/Blue-Emitting Photoluminescence and Electrochemiluminescence. <i>Advanced Optical Materials</i> , 2018, 6, 1800951.	7.3	68
23	Field-amplified sample stacking capillary electrophoresis with electrochemiluminescence applied to the determination of illicit drugs on banknotes. <i>Journal of Chromatography A</i> , 2006, 1115, 260-266.	3.7	67
24	Monolithically integrated CoP nanowire array: An on/off switch for effective on-demand hydrogen generation via hydrolysis of NaBH <sub>4</sub> and NH <sub>3</sub> BH <sub>3</sub> . <i>Nano Research</i> , 2017, 10, 595-604.	10.4	67
25	Bottom-up electrochemical preparation of solid-state carbon nanodots directly from nitriles/ionic liquids using carbon-free electrodes and the applications in specific ferric ion detection and cell imaging. <i>Nanoscale</i> , 2016, 8, 5470-5477.	5.6	66
26	A novel method to decorate Au clusters onto graphene via a mild co-reduction process for ultrahigh catalytic activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 230-239.	10.3	65
27	Controllable electrochemical/electroanalytical approach to generate nitrogen-doped carbon quantum dots from varied amino acids: pinpointing the utmost quantum yield and the versatile photoluminescent and electrochemiluminescent applications. <i>Electrochimica Acta</i> , 2017, 236, 239-251.	5.2	62
28	Solvent-regulated preparation of well-intercalated Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nanosheets and application for highly effective electromagnetic wave absorption. <i>Nanotechnology</i> , 2018, 29, 355201.	2.6	62
29	One-step electrochemical strategy for in-situ synthesis of S,N-codoped graphene as metal-free catalyst for oxygen reduction reaction. <i>Carbon</i> , 2018, 134, 316-325.	10.3	61
30	Ultra-efficient electromagnetic wave absorption with ethanol-thermally treated two-dimensional Nb <sub>2</sub> CT <sub>x</sub> nanosheets. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 306-315.	9.4	61
31	Electrochemical generation of Fe <sub>3</sub> C/N-doped graphitic carbon nanozyme for efficient wound healing in vivo. <i>Carbon</i> , 2020, 159, 149-160.	10.3	60
32	Graphene nanodots-encaged porous gold electrode fabricated via ion beam sputtering deposition for electrochemical analysis of heavy metal ions. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 592-600.	7.8	58
33	One-step preparation of graphene nanosheets via ball milling of graphite and the application in lithium-ion batteries. <i>Journal of Materials Science</i> , 2016, 51, 3675-3683.	3.7	58
34	Biozymatic synergism of vanadium oxide nanodots to efficiently eradicate drug-resistant bacteria during wound healing in vivo. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 313-323.	9.4	58
35	Visible-Light-Driven Photocatalysis-Enhanced Nanozyme of TiO <sub>2</sub> Nanotubes@MoS <sub>2</sub> Nanoflowers for Efficient Wound Healing Infected with Multidrug-Resistant Bacteria. <i>Small</i> , 2021, 17, e2103348.	10.0	58
36	Enhanced-quantum yield sulfur/nitrogen co-doped fluorescent carbon nanodots produced from biomass <i>Enteromorpha prolifera</i> : synthesis, posttreatment, applications and mechanism study. <i>Scientific Reports</i> , 2017, 7, 4499.	3.3	57

#	ARTICLE	IF	CITATIONS
37	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-derived TiO <sub>2</sub> /C-QDs as oxidase mimics for the efficient diagnosis of glutathione in human serum. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3513-3518.	5.8	54
38	<i>In situ</i> development of amorphous Mn-Co-P shell on MnCo <sub>2</sub> O <sub>4</sub> nanowire array for superior oxygen evolution electrocatalysis in alkaline media. <i>Chemical Communications</i> , 2018, 54, 1077-1080.	4.1	49
39	Ambient electrochemical N <sub>2</sub> -to-NH <sub>3</sub> fixation enabled by Nb <sub>2</sub> O <sub>5</sub> nanowire array. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 423-427.	6.0	49
40	Synergistical Starvation and Chemo-Dynamic Therapy for Combating Multidrug-Resistant Bacteria and Accelerating Diabetic Wound Healing. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100716.	7.6	49
41	Paper-based solid-state electrochemiluminescence sensor using poly(sodium 4-styrenesulfonate) functionalized graphene/nafion composite film. <i>Analytica Chimica Acta</i> , 2013, 763, 20-27.	5.4	48
42	Simultaneous Enhancement of Bioactivity and Stability of Laccase by Cu <sup>2+</sup> /PAA/PPEGA Matrix for Efficient Biosensing and Recyclable Decontamination of Pyrocatechol. <i>Analytical Chemistry</i> , 2017, 89, 2065-2072.	6.5	48
43	Microchip micellar electrokinetic chromatography based on one functionalized ionic liquid and its excellent performance on proteins separation. <i>Journal of Chromatography A</i> , 2008, 1207, 175-180.	3.7	46
44	Analysis of quinolizidine alkaloids in <i>Sophora flavescens</i> Ait. by capillary electrophoresis with tris(2,2'-bipyridyl) ruthenium (II)-based electrochemiluminescence detection. <i>Talanta</i> , 2008, 75, 38-42.	5.5	46
45	Ionic liquids used in and analyzed by capillary and microchip electrophoresis. <i>Journal of Chromatography A</i> , 2009, 1216, 4817-4823.	3.7	45
46	Enhanced electrochemiluminescence sensor from tris(2,2'-bipyridyl)ruthenium(ii) incorporated into MCM-41 and an ionic liquid-based carbon paste electrode. <i>Analyst</i> , 2007, 132, 687-691.	3.5	44
47	Graphene/tri-block copolymer composites prepared via RAFT polymerizations for dual controlled drug delivery via pH stimulation and biodegradation. <i>European Polymer Journal</i> , 2015, 69, 559-572.	5.4	43
48	Ionic liquid-assisted PDMS microchannel modification for efficiently resolving fluorescent dye and protein adsorption. <i>Electrophoresis</i> , 2007, 28, 4597-4605.	2.4	38
49	One-step hydrothermal synthesis of fluorescent MXene-like titanium carbonitride quantum dots. <i>Inorganic Chemistry Communication</i> , 2019, 105, 151-157.	3.9	38
50	VO <sub>x</sub> Quantum Dots with Multienzyme-Mimic Activities and the Application in Constructing a Three-Dimensional (3D) Coordinate System for Accurate Discrimination of the Hydrogen Peroxide over a Broad Concentration Range. <i>Analytical Chemistry</i> , 2019, 91, 5753-5761.	6.5	38
51	Molybdenum oxide quantum dots prepared <i>via</i> a one-step stirring strategy and their application as fluorescent probes for pyrophosphate sensing and efficient antibacterial materials. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3240-3245.	5.8	35
52	A versatile signal-enhanced ECL sensing platform based on molecular imprinting technique via PET-RAFT cross-linking polymerization using bifunctional ruthenium complex as both catalyst and sensing probes. <i>Biosensors and Bioelectronics</i> , 2019, 124-125, 15-24.	10.1	33
53	One-step process for fabricating paper-based solid-state electrochemiluminescence sensor based on functionalized graphene. <i>Electrochemistry Communications</i> , 2014, 38, 57-60.	4.7	31
54	Electrochemistry in Carbon-based Quantum Dots. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1214-1224.	3.3	31

#	ARTICLE	IF	CITATIONS
55	Highly porous magnetite/graphene nanocomposites for a solid-state electrochemiluminescence sensor on paper-based chips. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3549-3558.	3.7	30
56	Capillary Electrophoresis-Amperometric Determination of Antioxidant Propyl Gallate and Butylated Hydroxyanisole in Foods. <i>Analytical Sciences</i> , 2007, 23, 713-717.	1.6	27
57	Graphene nanodots encaged 3-D gold substrate as enzyme loading platform for the fabrication of high performance biosensors. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 1186-1195.	7.8	27
58	A rational strategy to develop a boron nitride quantum dot-based molecular logic gate and fluorescent assay of alkaline phosphatase activity. <i>Journal of Materials Chemistry B</i> , 2019, 7, 897-902.	5.8	27
59	Successful establishment of MEKC with electrochemiluminescence detection based on one functionalized ionic liquid. <i>Electrophoresis</i> , 2009, 30, 365-371.	2.4	26
60	Solid-state electrochemiluminescence sensor based on the Nafion/poly(sodium 4-styrene sulfonate) composite film. <i>Talanta</i> , 2009, 79, 454-459.	5.5	26
61	Chip-based generation of carbon nanodots via electrochemical oxidation of screen printed carbon electrodes and the applications for efficient cell imaging and electrochemiluminescence enhancement. <i>Nanoscale</i> , 2015, 7, 9421-9426.	5.6	25
62	Cobalt Carbonate Hydroxide Nanowire Array on Ti Mesh: An Efficient and Robust 3D Catalyst for On-demand Hydrogen Generation from Alkaline NaBH <sub>4</sub> Solution. <i>Chemistry - A European Journal</i> , 2016, 22, 14831-14835.	3.3	25
63	Applications of electrochemical techniques in mineral analysis. <i>Talanta</i> , 2014, 127, 211-218.	5.5	22
64	A signal amplification system constructed by bi-enzymes and bi-nanospheres for sensitive detection of norepinephrine and miRNA. <i>Biosensors and Bioelectronics</i> , 2019, 124-125, 224-232.	10.1	21
65	Generation of Vanadium Oxide Quantum Dots with Distinct Fluorescence and Antibacterial Activity via a Room-Temperature Agitation Strategy. <i>ChemNanoMat</i> , 2018, 4, 1048-1053.	2.8	20
66	Heterogeneous Fenton-like magnetic nanosphere coated with vanadium oxide quantum dots for enhanced organic dyes decolorization. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 269-281.	9.4	19
67	A MoFe nitrogenase-mimicking electrocatalyst for nitrogen fixation with high faradaic efficiency. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19278-19282.	10.3	18
68	Sensitive, label-free protein assay using 1-ethyl-3-(3-dimethylimidazolium tetrafluoroborate)-supported microchip electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , 2008, 29, 1852-1858.	2.4	17
69	A simple and effective flexible electrochemiluminescence sensor for lidocaine detection. <i>Electrochemistry Communications</i> , 2020, 116, 106760.	4.7	17
70	Y-Shaped Circular Aptamer-DNAzyme Conjugates for Highly Efficient in Vivo Gene Silencing. <i>CCS Chemistry</i> , 2020, 2, 631-641.	7.8	17
71	To Love and to Kill: Accurate and Selective Colorimetry for Both Chloride and Mercury Ions Regulated by Electro-Synthesized Oxidase-like SnTe Nanobelts. <i>Analytical Chemistry</i> , 2021, 93, 10132-10140.	6.5	16
72	Discovered triethylamine as impurity in synthetic DNAs for and by electrochemiluminescence techniques. <i>Talanta</i> , 2013, 116, 308-314.	5.5	15

#	ARTICLE	IF	CITATIONS
73	Molybdenum Disulfide Quantum Dots Prepared by Bipolar-Electrode Electrochemical Scissoring. <i>Nanomaterials</i> , 2019, 9, 906.	4.1	15
74	Silver nanoparticles with vanadium oxide nanowires loaded into electrospun dressings for efficient healing of bacterium-infected wounds. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 117-125.	9.4	15
75	Electron transfer study on graphene modified glassy carbon substrate via electrochemical reduction and the application for tris(2,2'-bipyridyl)ruthenium(II) electrochemiluminescence sensor fabrication. <i>Talanta</i> , 2015, 139, 6-12.	5.5	14
76	Two-dimensional transition metal dichalcogenides for electrocatalytic nitrogen fixation to ammonia: Advances, challenges and perspectives. A mini review. <i>Electrochemistry Communications</i> , 2021, 125, 107002.	4.7	14
77	Clinically colorimetric diagnostics of blood glucose levels based on vanadium oxide quantum dots enzyme mimics. <i>Microchemical Journal</i> , 2020, 153, 104352.	4.5	13
78	Sulfur defect-rich WS <sub>2</sub> nanosheet electrocatalysts for N <sub>2</sub> reduction. <i>Science China Materials</i> , 2021, 64, 1910-1918.	6.3	13
79	Application of a Cascaded Nanozyme in Infected Wound Recovery of Diabetic Mice. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1522-1531.	5.2	13
80	Precise, fast, and flexible determination of protein interactions by affinity capillary electrophoresis: <i>Electrophoresis</i> , 2014, 35, 2203-2212.	2.4	12
81	Simultaneous utilization of a bifunctional ruthenium complex as an efficient catalyst for RAFT controlled photopolymerization and a sensing probe for the facile fabrication of an ECL platform. <i>Polymer Chemistry</i> , 2016, 7, 5880-5887.	3.9	12
82	Well-controlled preparation of evenly distributed nanoporous HOPG surface via diazonium salt assisted electrochemical etching process. <i>Carbon</i> , 2016, 102, 419-425.	10.3	12
83	Low-Cost and Highly Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reaction: Environment-Friendly Three-Dimensional B, N Co-doped Graphene Aerogels. <i>Electrocatalysis</i> , 2019, 10, 56-62.	3.0	12
84	Establishment of anti-oxidation platform based on few-layer molybdenum disulfide nanosheet-coated titanium dioxide nanobelt nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 167-176.	9.4	12
85	Sulfur doped molybdenum oxide quantum dots as efficient fluorescent labels and bacteriostatic. <i>Inorganic Chemistry Communication</i> , 2020, 122, 108275.	3.9	9
86	Oxygen-doped MoS <sub>2</sub> nanoflowers with sulfur vacancies as electrocatalyst for efficient hydrazine oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2022, 906, 115986.	3.8	9
87	Antibacterial Copolypeptoids with Potent Activity against Drug Resistant Bacteria and Biofilms, Excellent Stability, and Recycling Property. <i>Small</i> , 2022, 18, e2106936.	10.0	9
88	Hybridization chain reaction-mediated Fe <sub>2</sub> MoO <sub>4</sub> bimetallic nanozyme for colorimetric risk prediction of bladder cancer. <i>Biosensors and Bioelectronics</i> , 2022, 210, 114272.	10.1	9
89	Facile Fabrication of Solid-state Electrochemiluminescence Sensor via Non-covalent $\pi$ - $\pi$ Stacking and Covalent Bonding on Graphite Electrode. <i>Electroanalysis</i> , 2016, 28, 936-939.	2.9	8
90	Multifunctional solid-state electrochemiluminescent chemosensors and aptasensor with free-standing active sites based on task-specific pyrene-terminated polymers via RAFT polymerization. <i>Analytica Chimica Acta</i> , 2018, 1039, 31-40.	5.4	8

#	ARTICLE	IF	CITATIONS
91	Sugar-disguised bullets for combating multidrug-resistant bacteria infections based on an oxygen vacancy-engineered glucose-functionalized MoO <sub>3-x</sub> photo-coordinated bienzyme. Chemical Engineering Journal, 2022, 431, 133943.	12.7	8
92	Sulfurization enhancement of FeMoO <sub>4</sub> for electrochemical ammonia synthesis with high Faradaic efficiency in neutral media. Journal of Electroanalytical Chemistry, 2022, 905, 115981.	3.8	8
93	Enzymatic bioactivity investigation of glucose oxidase modified with hydrophilic or hydrophobic polymers via in situ RAFT polymerization. Journal of Polymer Science Part A, 2017, 55, 1289-1293.	2.3	7
94	An efficient photothermal-chemotherapy platform based on polyacrylamide/phytic acid/polydopamine hydrogel. Journal of Materials Chemistry B, 2022, , .	5.8	7
95	Recognition of the Enzymatically Active and Inhibitive Oxygenous Groups on WO <sub>3-x</sub> Quantum Dots by Chemical Deactivation and Density Functional Theory Calculations. ACS Applied Bio Materials, 2020, 3, 1459-1468.	4.6	6
96	Rational Design of Hierarchical SiO <sub>2</sub> @TiO <sub>2</sub> Composite with Large Internal Void Space for High-Performance Microwave Absorption. Russian Journal of Physical Chemistry A, 2019, 93, 1128-1132.	0.6	5
97	Efficient and Facile Fabrication of Glucose Biosensor Based on Electrochemically Etched Porous HOPG Platform. Electroanalysis, 2017, 29, 944-949.	2.9	4
98	Design of Enzyme Micelles with Controllable Concavo-Convex Micromorphologies for Highly Enhanced Stability and Catalytical Activity. Macromolecular Bioscience, 2018, 18, 1700312.	4.1	4
99	Efficient inhibition of Salmonella on chestnuts via Fe <sub>3</sub> C/N-C bacteriostatic suspension prepared by electrochemical method. Inorganic Chemistry Communication, 2020, 118, 108034.	3.9	3
100	Physiological effect of colloidal carbon quantum dots on <i>Bursaphelenchus xylophilus</i> . RSC Advances, 2021, 11, 6212-6220.	3.6	3
101	Environmental molybdate monitoring based on vanadium oxide quantum dots-derived fluorescent strategy. Microchemical Journal, 2021, 170, 106702.	4.5	3
102	Ionic liquids supported growth of highly ordered microdroplets induced by fluidic leakage at poly(dimethylsiloxane) interfaces. Analytica Chimica Acta, 2008, 625, 35-40.	5.4	2
103	Simultaneously enhancing the selectivity and stability of enzymatic probes via bio-imprinting technology. Sensors and Actuators B: Chemical, 2022, 367, 132039.	7.8	2
104	New Design for Detection Cell Applied in Magnetic Particle-Based Electrochemiluminescence Assays. Electroanalysis, 2014, 26, 2563-2566.	2.9	0
105	Antibacterial Copolypeptoids with Potent Activity against Drug Resistant Bacteria and Biofilms, Excellent Stability, and Recycling Property (Small 11/2022). Small, 2022, 18, .	10.0	0