

Yizhong Lu

List of Publications by Year in descending order

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97
papers

7,745
citations

57758

44
h-index

49909

87
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100
all docs

100
docs citations

100
times ranked

9614
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-nanometre sized metal clusters: from synthetic challenges to the unique property discoveries. Chemical Society Reviews, 2012, 41, 3594.	38.1	1,008
2	Selective Electrochemical H ₂ O ₂ Production through Two-Electron Oxygen Electrochemistry. Advanced Energy Materials, 2018, 8, 1801909.	19.5	498
3	One-Pot Synthesis, Photoluminescence, and Electrocatalytic Properties of Subnanometer-Sized Copper Clusters. Journal of the American Chemical Society, 2011, 133, 2060-2063.	13.7	422
4	Enhanced Catalytic Performance of Pt-Free Iron Phthalocyanine by Graphene Support for Efficient Oxygen Reduction Reaction. ACS Catalysis, 2013, 3, 1263-1271.	11.2	356
5	Strongly Coupled Pd Nanotetrahedron/Tungsten Oxide Nanosheet Hybrids with Enhanced Catalytic Activity and Stability as Oxygen Reduction Electrocatalysts. Journal of the American Chemical Society, 2014, 136, 11687-11697.	13.7	314
6	One-pot synthesis of carbon nanodots for fluorescence turn-on detection of Ag ⁺ based on the Ag ⁺ -induced enhancement of fluorescence. Journal of Materials Chemistry C, 2015, 3, 2302-2309.	5.5	291
7	PdAg Nanorings Supported on Graphene Nanosheets: Highly Methanol-Tolerant Cathode Electrocatalyst for Alkaline Fuel Cells. Advanced Functional Materials, 2013, 23, 1289-1296.	14.9	273
8	Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. Nano Energy, 2016, 30, 368-378.	16.0	229
9	Nano-PtPd Cubes on Graphene Exhibit Enhanced Activity and Durability in Methanol Electrooxidation after CO Stripping "Cleaning". Journal of Physical Chemistry C, 2013, 117, 2926-2938.	3.1	216
10	PdAg Alloy Nanowires: Facile One-Step Synthesis and High Electrocatalytic Activity for Formic Acid Oxidation. ACS Catalysis, 2012, 2, 84-90.	11.2	182
11	Size effect of silver nanoclusters on their catalytic activity for oxygen electro-reduction. Journal of Power Sources, 2012, 197, 107-110.	7.8	168
12	Nanoneedle-Covered Pd ²⁺ /Ag Nanotubes: High Electrocatalytic Activity for Formic Acid Oxidation. Journal of Physical Chemistry C, 2010, 114, 21190-21200.	3.1	148
13	Fluorescence Immunoassay Based on the Phosphate-Triggered Fluorescence Turn-on Detection of Alkaline Phosphatase. Analytical Chemistry, 2018, 90, 3505-3511.	6.5	145
14	Graphene nanosheet-tailored PtPd concave nanocubes with enhanced electrocatalytic activity and durability for methanol oxidation. Nanoscale, 2014, 6, 3309-3315.	5.6	142
15	PtPd porous nanorods with enhanced electrocatalytic activity and durability for oxygen reduction reaction. Nano Energy, 2013, 2, 836-844.	16.0	141
16	Fe, Co, N-functionalized carbon nanotubes in situ grown on 3D porous N-doped carbon foams as a noble metal-free catalyst for oxygen reduction. Journal of Materials Chemistry A, 2015, 3, 3559-3567.	10.3	123
17	Charge state-dependent catalytic activity of [Au ₂₅ (SC ₁₂ H ₂₅) ₁₈] nanoclusters for the two-electron reduction of dioxygen to hydrogen peroxide. Chemical Communications, 2014, 50, 8464-8467.	4.1	119
18	A cobalt-nitrogen complex on N-doped three-dimensional graphene framework as a highly efficient electrocatalyst for oxygen reduction reaction. Nanoscale, 2014, 6, 15066-15072.	5.6	117

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19	Hemin-assisted synthesis of peroxidase-like Fe-N-C nanozymes for detection of ascorbic acid-generating bio-enzymes. <i>Chemical Engineering Journal</i> , 2021, 415, 128876.	12.7	116
20	Copper nanoclusters: Synthesis, characterization and properties. <i>Science Bulletin</i> , 2012, 57, 41-47.	1.7	113
21	A Hierarchical MoP Nanoflake Array Supported on Ni Foam: A Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small Methods</i> , 2018, 2, 1700369.	8.6	106
22	Novel blue light emitting graphene oxide nanosheets fabricated by surface functionalization. <i>Journal of Materials Chemistry</i> , 2012, 22, 2929-2934.	6.7	94
23	Silver nanorods for oxygen reduction: Strong effects of protecting ligand on the electrocatalytic activity. <i>Journal of Power Sources</i> , 2011, 196, 3033-3038.	7.8	93
24	Facile electrochemical codeposition of "clean" graphene-Pd nanocomposite as an anode catalyst for formic acid electrooxidation. <i>Electrochemistry Communications</i> , 2012, 19, 21-24.	4.7	93
25	Logically Regulating Peroxidase-Like Activity of Gold Nanoclusters for Sensing Phosphate-Containing Metabolites and Alkaline Phosphatase Activity. <i>Analytical Chemistry</i> , 2019, 91, 15017-15024.	6.5	93
26	Colorimetric detection of iron ions (III) based on the highly sensitive plasmonic response of the N-acetyl-L-cysteine-stabilized silver nanoparticles. <i>Analytica Chimica Acta</i> , 2015, 879, 118-125.	5.4	89
27	Sub-nanometer sized Cu ₆ (GSH) ₃ clusters: one-step synthesis and electrochemical detection of glucose. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4050-4056.	5.5	88
28	Designing transition-metal-boride-based electrocatalysts for applications in electrochemical water splitting. <i>Nanoscale</i> , 2020, 12, 9327-9351.	5.6	88
29	Highly Efficient and Durable Pd Hydride Nanocubes Embedded in 2D Amorphous NiB Nanosheets for Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2017, 7, 1700919.	19.5	84
30	One-pot synthesis of heterostructured Pt-Ru nanocrystals for catalytic formic acid oxidation. <i>Chemical Communications</i> , 2011, 47, 2541.	4.1	76
31	Alkaline Phosphatase-Triggered in Situ Formation of Silicon-Containing Nanoparticles for a Fluorometric and Colorimetric Dual-Channel Immunoassay. <i>Analytical Chemistry</i> , 2020, 92, 4639-4646.	6.5	75
32	Recent advances in carbon substrate supported nonprecious nanoarrays for electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25773-25795.	10.3	71
33	Significantly enhanced electrocatalytic activity of Au ₂₅ clusters by single platinum atom doping. <i>Nano Energy</i> , 2018, 50, 316-322.	16.0	68
34	Carbon dots confined in N-doped carbon as peroxidase-like nanozyme for detection of gastric cancer relevant D-amino acids. <i>Chemical Engineering Journal</i> , 2022, 428, 131396.	12.7	68
35	Engineering Two-Dimensional Pd Nanoplates with Exposed Highly Active {100} Facets Toward Colorimetric Acid Phosphatase Detection. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47564-47570.	8.0	65
36	Gold nanoclusters-based dual-channel assay for colorimetric and turn-on fluorescent sensing of alkaline phosphatase. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127080.	7.8	60

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37	Application of Mass Spectrometry in the Synthesis and Characterization of Metal Nanoclusters. <i>Analytical Chemistry</i> , 2015, 87, 10659-10667.	6.5	57
38	Single-atom Pd catalysts as oxidase mimics with maximum atom utilization for colorimetric analysis. <i>Nano Research</i> , 2022, 15, 4411-4420.	10.4	55
39	Fe ₂ P@mesoporous carbon nanosheets synthesized via an organic template method as a cathode electrocatalyst for Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11321-11330.	10.3	54
40	Multienzyme Cascades Based on Highly Efficient Metal-Nitrogen-Carbon Nanozymes for Construction of Versatile Bioassays. <i>Analytical Chemistry</i> , 2022, 94, 3485-3493.	6.5	54
41	Nitrogen-Doped Carbon Nanotube-Graphene Frameworks with Encapsulated Fe/Fe ₃ N Nanoparticles as Catalysts for Oxygen Reduction. <i>ACS Applied Nano Materials</i> , 2019, 2, 3538-3547.	5.0	53
42	Light-responsive Au nanoclusters with oxidase-like activity for fluorescent detection of total antioxidant capacity. <i>Journal of Hazardous Materials</i> , 2021, 411, 125106.	12.4	52
43	Hollow Ag@Pd core-shell nanotubes as highly active catalysts for the electro-oxidation of formic acid. <i>Nanotechnology</i> , 2012, 23, 105609.	2.6	51
44	Fluorescence assay for alkaline phosphatase based on ATP hydrolysis-triggered dissociation of cerium coordination polymer nanoparticles. <i>Analyst</i> , 2018, 143, 3821-3828.	3.5	47
45	Amorphous Cobalt Boride Nanosheets Directly Grown on Nickel Foam: Controllable Alternately Dipping Deposition for Efficient Oxygen Evolution. <i>ChemElectroChem</i> , 2019, 6, 3684-3689.	3.4	43
46	A two-separated-emission fluorescent probe for simultaneous discrimination of Cys/Hcy and GSH upon excitation of two different wavelengths. <i>Journal of Materials Chemistry B</i> , 2018, 6, 8221-8227.	5.8	36
47	Enhanced oxidase-like activity of g-C ₃ N ₄ nanosheets supported Pd nanosheets for ratiometric fluorescence detection of acetylcholinesterase activity and its inhibitor. <i>Chinese Chemical Letters</i> , 2022, 33, 757-761.	9.0	35
48	Single-atom Pt catalysts as oxidase mimic for p-benzoquinone and α -glucosidase activity detection. <i>Chemical Engineering Journal</i> , 2022, 449, 137855.	12.7	32
49	Ferrocene-Functionalized Graphene Oxide Nanosheets: Efficient Electronic Communication between Ferrocene Centers across Graphene Nanosheets. <i>Electrochimica Acta</i> , 2015, 156, 267-273.	5.2	30
50	Spontaneous Deposition of Uniformly Distributed Ruthenium Nanoparticles on Graphitic Carbon Nitride for Quantifying Electrochemically Accumulated H_2O_2 . <i>Chinese Journal of Chemistry</i> , 2021, 39, 3369-3374.	4.9	30
51	Accelerated Mimetic Oxidase Activity of Polydopamine-Dressed PdCu Nanozyme for the Detection of Ascorbic Acid Related Bioenzymes. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1653-1663.	6.7	30
52	Copper-Modified Gold Nanoparticles as Highly Selective Catalysts for Glycerol Electro-Oxidation in Alkaline Solution. <i>ChemCatChem</i> , 2016, 8, 3272-3278.	3.7	28
53	A fluorescent assay for alkaline phosphatase activity based on inner filter effect by in-situ formation of fluorescent azamondardine. <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 127145.	7.8	27
54	Fluorometric and colorimetric dual-readout alkaline phosphatase activity assay based on enzymatically induced formation of colored Au@Ag nanoparticles and an inner filter effect. <i>Mikrochimica Acta</i> , 2019, 186, 348.	5.0	26

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55	Pyrolysis derived helically nitrogen-doped carbon nanotubes with uniform cobalt for high performance oxygen reduction. <i>Applied Surface Science</i> , 2020, 504, 144380.	6.1	26
56	Highly efficient hydrogen storage with PdAg nanotubes. <i>Nanoscale</i> , 2011, 3, 2476.	5.6	25
57	MOF derived iron oxide-based smart plasmonic Ag/Au hollow and porous nanoshells for ultra-microelectrodes for ultra-sensitive detection of arsenic. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16164-16169.	10.3	25
58	Colorimetric determination of the activity of alkaline phosphatase by exploiting the oxidase-like activity of palladium cube@CeO ₂ core-shell nanoparticles. <i>Mikrochimica Acta</i> , 2020, 187, 115.	5.0	25
59	Direct conversion of furan into levulinate esters via acid catalysis. <i>Fuel</i> , 2019, 237, 263-275.	6.4	24
60	Octahedral PtNi nanoparticles with controlled surface structure and composition for oxygen reduction reaction. <i>Science China Materials</i> , 2017, 60, 1109-1120.	6.3	23
61	Fabrication of N-GQDs and AgBiS ₂ dual-sensitized ZIFs-derived hollow Zn ₃ Co ₃ O ₄ dodecahedron for sensitive photoelectrochemical aptasensing of ampicillin. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128387.	7.8	23
62	Highly Active and Durable PdAg@Pd Core-Shell Nanoparticles as Fuel-Cell Electrocatalysts for the Oxygen Reduction Reaction. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 560-568.	2.3	22
63	Fluorometric determination of the activity of alkaline phosphatase and its inhibitors based on ascorbic acid-induced aggregation of carbon dots. <i>Mikrochimica Acta</i> , 2019, 186, 202.	5.0	22
64	Ultrathin porous Pd metallene as highly efficient oxidase mimics for colorimetric analysis. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 296-304.	9.4	20
65	Ultrafast deep-red emission fluorescent probe for highly selective imaging of endogenous cysteine in living cells and mice. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 581-590.	7.8	19
66	Ultrathin PdCu alloy nanosheet-assembled 3D nanoflowers with high peroxidase-like activity toward colorimetric glucose detection. <i>Mikrochimica Acta</i> , 2021, 188, 114.	5.0	19
67	Peroxidase-like activity of Ru-N-C nanozymes in colorimetric assay of acetylcholinesterase activity. <i>Analytica Chimica Acta</i> , 2022, 1191, 339362.	5.4	19
68	A simple and sensitive fluorescent assay for hemin detection based on artemisinin-thiamine. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 198-203.	7.8	17
69	Highly sensitive fluorescent detection of glutathione and histidine based on the Cu(II)-thiamine system. <i>Analyst</i> , 2018, 143, 4442-4447.	3.5	16
70	A zwitterionic ligand-based water-stable metal-organic framework showing photochromic and Cr(VI) removal properties. <i>Dalton Transactions</i> , 2020, 49, 10613-10620.	3.3	16
71	A highly sensitive fluorescent probe for bioimaging zinc ion in living cells and zebrafish models. <i>New Journal of Chemistry</i> , 2018, 42, 12198-12204.	2.8	15
72	Spectrophotometric determination of the activity of alkaline phosphatase and detection of its inhibitors by exploiting the pyrophosphate-accelerated oxidase-like activity of nanoceria. <i>Mikrochimica Acta</i> , 2019, 186, 320.	5.0	15

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73	Bimetallic oxide coupled with B-doped graphene as highly efficient electrocatalyst for oxygen evolution reaction. <i>Science China Materials</i> , 2020, 63, 1247-1256.	6.3	14
74	Zinc Borosilicate Glass-Stabilized CsPbX ₃ (X = Cl, Br, I) Perovskite Quantum Dots for Photoluminescence Lighting and Display Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 9503-9513.	5.0	14
75	Metal-organic polydopamine framework-derived (Co)/N-doped carbon hollow nanocubes as efficient oxygen electrocatalysts. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3370-3377.	4.9	13
76	Manganese-doped iron coordination polymer nanoparticles with enhanced peroxidase-like activity for colorimetric detection of antioxidants. <i>Analyst</i> , 2022, 147, 238-246.	3.5	13
77	X-ray-Triggered CO Release Based on GdW ₁₀ /MnBr(CO) ₅ Nanomicelles for Synergistic Radiotherapy and Gas Therapy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7636-7645.	8.0	13
78	Fluorometric determination of sulfide ions via its inhibitory effect on the oxidation of thiamine by Cu(II) ions. <i>Mikrochimica Acta</i> , 2018, 185, 362.	5.0	11
79	Single-Solvent, Ligand-Free, Gram-Scale Synthesis of Cs ₄ PbBr ₆ Perovskite Solids with Robust Green Photoluminescence. <i>ChemNanoMat</i> , 2020, 6, 258-266.	2.8	11
80	Emerging interstitial/substitutional modification of Pd-based nanomaterials with nonmetallic elements for electrocatalytic applications. <i>Nanoscale</i> , 2022, 14, 2915-2942.	5.6	11
81	The construction of an effective far-red fluorescent and colorimetric platform containing a merocyanine core for the specific and visual detection of thiophenol in both aqueous medium and living cells. <i>New Journal of Chemistry</i> , 2019, 43, 14139-14144.	2.8	10
82	Liquid-to-gas transition derived cobalt-based nitrogen-doped carbon nanosheets with hierarchically porous for oxygen reduction reaction. <i>Applied Surface Science</i> , 2020, 509, 145365.	6.1	9
83	Colorimetric detection of acetylcholinesterase and its inhibitor based on thiol-regulated oxidase-like activity of 2D palladium square nanoplates on reduced graphene oxide. <i>Mikrochimica Acta</i> , 2021, 188, 162.	5.0	9
84	Enhanced H ₂ O ₂ electrosynthesis on kneading oxidized carbon nanotubes. <i>Applied Surface Science</i> , 2022, 580, 152293.	6.1	9
85	In-situ One-Step Preparation of Nickel-Tipped N-doped Carbon Nanotubes for Oxygen Reduction. <i>ChemCatChem</i> , 2019, 11, 4818-4821.	3.7	8
86	Inhibited oxidase mimetic activity of palladium nanoplates by poisoning the active sites for thiocyanate detection. <i>Analyst</i> , 2021, 146, 1650-1655.	3.5	8
87	Progress in the Synthesis and Characterization of Gold Nanoclusters. <i>Structure and Bonding</i> , 2013, , 117-153.	1.0	7
88	In Situ Formation of 2,3-Diaminophenazine for Evaluation of Alkaline Phosphatase Activity via the Inner Filter Effect. <i>ACS Applied Bio Materials</i> , 2020, 3, 6394-6399.	4.6	5
89	Polyaniline@MOF fiber derived Fe-Co oxide-based high performance electrocatalyst. <i>New Journal of Chemistry</i> , 2021, 45, 282-287.	2.8	5
90	Highly efficient hydrogen peroxide electrosynthesis on oxidized carbon nanotubes by thermally activated-persulfate. <i>Journal of Materiomics</i> , 2022, 8, 136-143.	5.7	4

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91	Surfactant-Free Synthesis of Cube-Like PtRu Alloy Nanoparticles with Enhanced Electrocatalytic Activity Toward Formic Acid Oxidation. <i>Science of Advanced Materials</i> , 2013, 5, 1718-1726.	0.7	4
92	Carbon nanotubes regulated by oxidizing functional groups as peroxidase mimics for total antioxidant capacity determination. <i>Biosensors and Bioelectronics: X</i> , 2022, 11, 100190.	1.7	4
93	Electrocatalysts: PdAg Nanorings Supported on Graphene Nanosheets: Highly Methanol-Tolerant Cathode Electrocatalyst for Alkaline Fuel Cells (Adv. Funct. Mater. 10/2013). <i>Advanced Functional Materials</i> , 2013, 23, 1348-1348.	14.9	3
94	Iron-Nitrogen Co-doped Carbon with a Tunable Composition as Efficient Electrocatalysts for Oxygen Reduction. <i>ChemElectroChem</i> , 2021, 8, 1055-1061.	3.4	3
95	1D Pd-Based Nanomaterials as Efficient Electrocatalysts for Fuel Cells. <i>Green Energy and Technology</i> , 2014, , 321-357.	0.6	2
96	A Sensitive Signal-off Electrochemical Aptasensor for Thrombin Detection using PB ⁺ Au@MoS ₂ Nanomaterial as Both Platform and Signal Reporter. <i>Electroanalysis</i> , 2022, 34, 397-404.	2.9	1
97	Coupling surfactant-free Ru nanoclusters with defect carbon for efficient pH-universal hydrogen evolution. <i>Catalysis Communications</i> , 2022, 162, 106401.	3.3	1