

Yizhong Lu

List of Publications by Year in descending order

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97
papers

7,745
citations

57631

44
h-index

49773

87
g-index

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. <i>Chemical Society Reviews</i> , 2012, 41, 3594.	18.7	1,008
2	Selective Electrochemical H ₂ O ₂ Production through Two-Electron Oxygen Electrochemistry. <i>Advanced Energy Materials</i> , 2018, 8, 1801909.	10.2	498
3	One-Pot Synthesis, Photoluminescence, and Electrocatalytic Properties of Subnanometer-Sized Copper Clusters. <i>Journal of the American Chemical Society</i> , 2011, 133, 2060-2063.	6.6	422
4	Enhanced Catalytic Performance of Pt-Free Iron Phthalocyanine by Graphene Support for Efficient Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2013, 3, 1263-1271.	5.5	356
5	Strongly Coupled Pd Nanotetrahedron/Tungsten Oxide Nanosheet Hybrids with Enhanced Catalytic Activity and Stability as Oxygen Reduction Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2014, 136, 11687-11697.	6.6	314
6	One-pot synthesis of carbon nanodots for fluorescence turn-on detection of Ag ⁺ based on the Ag ⁺ -induced enhancement of fluorescence. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2302-2309.	2.7	291
7	PdAg Nanorings Supported on Graphene Nanosheets: Highly Methanol-Tolerant Cathode Electrocatalyst for Alkaline Fuel Cells. <i>Advanced Functional Materials</i> , 2013, 23, 1289-1296.	7.8	273
8	Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. <i>Nano Energy</i> , 2016, 30, 368-378.	8.2	229
9	Nano-PtPd Cubes on Graphene Exhibit Enhanced Activity and Durability in Methanol Electrooxidation after CO Stripping "Cleaning". <i>Journal of Physical Chemistry C</i> , 2013, 117, 2926-2938.	1.5	216
10	PdAg Alloy Nanowires: Facile One-Step Synthesis and High Electrocatalytic Activity for Formic Acid Oxidation. <i>ACS Catalysis</i> , 2012, 2, 84-90.	5.5	182
11	Size effect of silver nanoclusters on their catalytic activity for oxygen electro-reduction. <i>Journal of Power Sources</i> , 2012, 197, 107-110.	4.0	168
12	Nanoneedle-Covered Pd ⁺ Ag Nanotubes: High Electrocatalytic Activity for Formic Acid Oxidation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21190-21200.	1.5	148
13	Fluorescence Immunoassay Based on the Phosphate-Triggered Fluorescence Turn-on Detection of Alkaline Phosphatase. <i>Analytical Chemistry</i> , 2018, 90, 3505-3511.	3.2	145
14	Graphene nanosheet-tailored PtPd concave nanocubes with enhanced electrocatalytic activity and durability for methanol oxidation. <i>Nanoscale</i> , 2014, 6, 3309-3315.	2.8	142
15	PtPd porous nanorods with enhanced electrocatalytic activity and durability for oxygen reduction reaction. <i>Nano Energy</i> , 2013, 2, 836-844.	8.2	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. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3559-3567.	5.2	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. <i>Chemical Communications</i> , 2014, 50, 8464-8467.	2.2	119
18	A cobalt-nitrogen complex on N-doped three-dimensional graphene framework as a highly efficient electrocatalyst for oxygen reduction reaction. <i>Nanoscale</i> , 2014, 6, 15066-15072.	2.8	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.	6.6	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.	4.6	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.	4.0	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.	2.3	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.	3.2	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.	2.6	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.	2.7	88
28	Designing transition-metal-boride-based electrocatalysts for applications in electrochemical water splitting. <i>Nanoscale</i> , 2020, 12, 9327-9351.	2.8	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.	10.2	84
30	One-pot synthesis of heterostructured Pt-Ru nanocrystals for catalytic formic acid oxidation. <i>Chemical Communications</i> , 2011, 47, 2541.	2.2	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.	3.2	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.	5.2	71
33	Significantly enhanced electrocatalytic activity of Au ₂₅ clusters by single platinum atom doping. <i>Nano Energy</i> , 2018, 50, 316-322.	8.2	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.	6.6	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.	4.0	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.	4.0	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.	3.2	57
38	Single-atom Pd catalysts as oxidase mimics with maximum atom utilization for colorimetric analysis. <i>Nano Research</i> , 2022, 15, 4411-4420.	5.8	55
39	Fe ₂ P@mesoporous carbon nanosheets synthesized <i>via</i> an organic template method as a cathode electrocatalyst for Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11321-11330.	5.2	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.	3.2	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.	2.4	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.	6.5	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.	1.3	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.	1.7	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.	1.7	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.	2.9	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.	4.8	35
48	Single-atom Pt catalysts as oxidase mimic for p-benzoquinone and β -glucosidase activity detection. <i>Chemical Engineering Journal</i> , 2022, 449, 137855.	6.6	32
49	Ferrocene-Functionalized Graphene Oxide Nanosheets: Efficient Electronic Communication between Ferrocene Centers across Graphene Nanosheets. <i>Electrochimica Acta</i> , 2015, 156, 267-273.	2.6	30
50	Spontaneous Deposition of Uniformly Distributed Ruthenium Nanoparticles on Graphitic Carbon Nitride for Quantifying Electrochemically Accumulated H ₂ O ₂ . <i>Chinese Journal of Chemistry</i> , 2021, 39, 3369-3374.	2.6	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.	3.2	30
52	Copper-Modified Gold Nanoparticles as Highly Selective Catalysts for Glycerol Electro-Oxidation in Alkaline Solution. <i>ChemCatChem</i> , 2016, 8, 3272-3278.	1.8	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.	4.0	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.	2.5	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.	3.1	26
56	Highly efficient hydrogen storage with PdAg nanotubes. <i>Nanoscale</i> , 2011, 3, 2476.	2.8	25
57	MOF derived iron oxide-based smart plasmonic Ag/Au hollow and porous nanoshells as ultra-microelectrodes for ultra-sensitive detection of arsenic. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16164-16169.	5.2	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.	2.5	25
59	Direct conversion of furan into levulinate esters via acid catalysis. <i>Fuel</i> , 2019, 237, 263-275.	3.4	24
60	Octahedral PtNi nanoparticles with controlled surface structure and composition for oxygen reduction reaction. <i>Science China Materials</i> , 2017, 60, 1109-1120.	3.5	23
61	Fabrication of N-QDs and AgBiS ₂ dual-sensitized ZIFs-derived hollow Zn _x Co _{3-x} O ₄ dodecahedron for sensitive photoelectrochemical aptasensing of ampicillin. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128387.	4.0	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.	1.2	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.	2.5	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.	5.0	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.	4.0	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.	2.5	19
67	Peroxidase-like activity of Ru-N-C nanozymes in colorimetric assay of acetylcholinesterase activity. <i>Analytica Chimica Acta</i> , 2022, 1191, 339362.	2.6	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.	4.0	17
69	Highly sensitive fluorescent detection of glutathione and histidine based on the Cu(II)-thiamine system. <i>Analyst</i> , 2018, 143, 4442-4447.	1.7	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.	1.6	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.	1.4	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.	2.5	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.	3.5	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.	2.4	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.	2.5	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.	1.7	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.	4.0	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.	2.5	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.	1.5	11
80	Emerging interstitial/substitutional modification of Pd-based nanomaterials with nonmetallic elements for electrocatalytic applications. <i>Nanoscale</i> , 2022, 14, 2915-2942.	2.8	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.	1.4	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.	3.1	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.	2.5	9
84	Enhanced H ₂ O ₂ electrosynthesis on kneading oxidized carbon nanotubes. <i>Applied Surface Science</i> , 2022, 580, 152293.	3.1	9
85	In-situ One-step Preparation of Nickel-tipped N-doped Carbon Nanotubes for Oxygen Reduction. <i>ChemCatChem</i> , 2019, 11, 4818-4821.	1.8	8
86	Inhibited oxidase mimetic activity of palladium nanoplates by poisoning the active sites for thiocyanate detection. <i>Analyst</i> , 2021, 146, 1650-1655.	1.7	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.	2.3	5
89	Polyaniline@MOF fiber derived Fe-Co oxide-based high performance electrocatalyst. <i>New Journal of Chemistry</i> , 2021, 45, 282-287.	1.4	5
90	Highly efficient hydrogen peroxide electrosynthesis on oxidized carbon nanotubes by thermally activated-persulfate. <i>Journal of Materiomics</i> , 2022, 8, 136-143.	2.8	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.	0.1	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.	0.9	4
93	Electrocatalysts: PdAg Nanorings Supported on Graphene Nanosheets: Highly Methanol-Tolerant Cathode Electrocatalyst for Alkaline Fuel Cells (<i>Adv. Funct. Mater.</i> 10/2013). <i>Advanced Functional Materials</i> , 2013, 23, 1348-1348.	7.8	3
94	Iron-Nitrogen Co-doped Carbon with a Tunable Composition as Efficient Electrocatalysts for Oxygen Reduction. <i>ChemElectroChem</i> , 2021, 8, 1055-1061.	1.7	3
95	1D Pd-Based Nanomaterials as Efficient Electrocatalysts for Fuel Cells. <i>Green Energy and Technology</i> , 2014, , 321-357.	0.4	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.	1.5	1
97	Coupling surfactant-free Ru nanoclusters with defect carbon for efficient pH-universal hydrogen evolution. <i>Catalysis Communications</i> , 2022, 162, 106401.	1.6	1