

Hui Wei

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7598049/publications.pdf>

Version: 2024-02-01

157
papers

18,848
citations

23567

58
h-index

11939

134
g-index

167
all docs

167
docs citations

167
times ranked

13203
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Nanomaterials with enzyme-like characteristics (nanozymes): next-generation artificial enzymes. Chemical Society Reviews, 2013, 42, 6060. | 38.1 | 3,000 |
| 2 | Nanomaterials with enzyme-like characteristics (nanozymes): next-generation artificial enzymes (II). Chemical Society Reviews, 2019, 48, 1004-1076. | 38.1 | 2,528 |
| 3 | Fe ₃ O ₄ Magnetic Nanoparticles as Peroxidase Mimetics and Their Applications in H ₂ O ₂ and Glucose Detection. Analytical Chemistry, 2008, 80, 2250-2254. | 6.5 | 1,275 |
| 4 | Nanozymes in bionanotechnology: from sensing to therapeutics and beyond. Inorganic Chemistry Frontiers, 2016, 3, 41-60. | 6.0 | 520 |
| 5 | Surface-Enhanced Raman Scattering Active Gold Nanoparticles with Enzyme-Mimicking Activities for Measuring Glucose and Lactate in Living Tissues. ACS Nano, 2017, 11, 5558-5566. | 14.6 | 514 |
| 6 | Nanozyme: An emerging alternative to natural enzyme for biosensing and immunoassay. TrAC - Trends in Analytical Chemistry, 2018, 105, 218-224. | 11.4 | 513 |
| 7 | ROS scavenging Mn ₃ O ₄ nanozymes for <i>in vivo</i> anti-inflammation. Chemical Science, 2018, 9, 2927-2933. | 7.4 | 447 |
| 8 | Simple and sensitive aptamer-based colorimetric sensing of protein using unmodified gold nanoparticle probes. Chemical Communications, 2007, , 3735. | 4.1 | 442 |
| 9 | Lysozyme-stabilized gold fluorescent cluster: Synthesis and application as Hg ²⁺ sensor. Analyst, The, 2010, 135, 1406. | 3.5 | 405 |
| 10 | Nanozymes: A clear definition with fuzzy edges. Nano Today, 2021, 40, 101269. | 11.9 | 332 |
| 11 | Enzyme Colorimetric Assay Using Unmodified Silver Nanoparticles. Analytical Chemistry, 2008, 80, 7051-7055. | 6.5 | 294 |
| 12 | Integrated Nanozymes with Nanoscale Proximity for in Vivo Neurochemical Monitoring in Living Brains. Analytical Chemistry, 2016, 88, 5489-5497. | 6.5 | 290 |
| 13 | Integrated cascade nanozyme catalyzes in vivo ROS scavenging for anti-inflammatory therapy. Science Advances, 2020, 6, eabb2695. | 10.3 | 271 |
| 14 | Rationally Modulate the Oxidase-like Activity of Nanoceria for Self-Regulated Bioassays. ACS Sensors, 2016, 1, 1336-1343. | 7.8 | 255 |
| 15 | Nitrogen-Doped Carbon Nanomaterials as Highly Active and Specific Peroxidase Mimics. Chemistry of Materials, 2018, 30, 6431-6439. | 6.7 | 236 |
| 16 | O ₂ -generating MnO ₂ nanoparticles for enhanced photodynamic therapy of bladder cancer by ameliorating hypoxia. Theranostics, 2018, 8, 990-1004. | 10.0 | 233 |
| 17 | Monitoring of Heparin Activity in Live Rats Using Metal-Organic Framework Nanosheets as Peroxidase Mimics. Analytical Chemistry, 2017, 89, 11552-11559. | 6.5 | 215 |
| 18 | DNAzyme-based colorimetric sensing of lead (Pb ²⁺) using unmodified gold nanoparticle probes. Nanotechnology, 2008, 19, 095501. | 2.6 | 202 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | eg occupancy as an effective descriptor for the catalytic activity of perovskite oxide-based peroxidase mimics. <i>Nature Communications</i> , 2019, 10, 704. | 12.8 | 199 |
| 20 | Time-dependent, protein-directed growth of gold nanoparticles within a single crystal of lysozyme. <i>Nature Nanotechnology</i> , 2011, 6, 93-97. | 31.5 | 195 |
| 21 | Multifunctional Label-Free Electrochemical Biosensor Based on an Integrated Aptamer. <i>Analytical Chemistry</i> , 2008, 80, 5110-5117. | 6.5 | 186 |
| 22 | 2D-Metal-Organic-Framework-Nanozyme Sensor Arrays for Probing Phosphates and Their Enzymatic Hydrolysis. <i>Analytical Chemistry</i> , 2018, 90, 9983-9989. | 6.5 | 184 |
| 23 | Light-Responsive Metal-Organic Framework as an Oxidase Mimic for Cellular Glutathione Detection. <i>Analytical Chemistry</i> , 2019, 91, 8170-8175. | 6.5 | 171 |
| 24 | Solid-state electrochemiluminescence of tris(2,2'-bipyridyl) ruthenium. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 447-459. | 11.4 | 167 |
| 25 | Nanozyme Sensor Arrays Based on Heteroatom-Doped Graphene for Detecting Pesticides. <i>Analytical Chemistry</i> , 2020, 92, 7444-7452. | 6.5 | 165 |
| 26 | An Orally Administered CeO ₂ @Montmorillonite Nanozyme Targets Inflammation for Inflammatory Bowel Disease Therapy. <i>Advanced Functional Materials</i> , 2020, 30, 2004692. | 14.9 | 154 |
| 27 | Nanozyme Sensor Arrays for Detecting Versatile Analytes from Small Molecules to Proteins and Cells. <i>Analytical Chemistry</i> , 2018, 90, 11696-11702. | 6.5 | 150 |
| 28 | SERS opens a new way in aptasensor for protein recognition with high sensitivity and selectivity. <i>Chemical Communications</i> , 2007, , 5220. | 4.1 | 145 |
| 29 | Fluorescent Graphitic Carbon Nitride-Based Nanozymes with Peroxidase-Like Activities for Ratiometric Biosensing. <i>Analytical Chemistry</i> , 2019, 91, 10648-10656. | 6.5 | 139 |
| 30 | Copper Tannic Acid Coordination Nanosheet: A Potent Nanozyme for Scavenging ROS from Cigarette Smoke. <i>Small</i> , 2020, 16, e1902123. | 10.0 | 136 |
| 31 | Integrated nanozymes: facile preparation and biomedical applications. <i>Chemical Communications</i> , 2018, 54, 6520-6530. | 4.1 | 130 |
| 32 | N-Doped Carbon As Peroxidase-Like Nanozymes for Total Antioxidant Capacity Assay. <i>Analytical Chemistry</i> , 2019, 91, 15267-15274. | 6.5 | 126 |
| 33 | Ratiometric Electrochemical Sensor for Effective and Reliable Detection of Ascorbic Acid in Living Brains. <i>Analytical Chemistry</i> , 2015, 87, 8889-8895. | 6.5 | 125 |
| 34 | Nanozyme-Enabled Analytical Chemistry. <i>Analytical Chemistry</i> , 2022, 94, 312-323. | 6.5 | 118 |
| 35 | Amplified electrochemical aptasensor taking AuNPs based sandwich sensing platform as a model. <i>Biosensors and Bioelectronics</i> , 2008, 23, 965-970. | 10.1 | 117 |
| 36 | Sensitive detection of protein by an aptamer-based label-free fluorescing molecular switch. <i>Chemical Communications</i> , 2007, , 73-75. | 4.1 | 116 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Metabolomics Reveals the “Invisible” Responses of Spinach Plants Exposed to CeO ₂ Nanoparticles. Environmental Science & Technology, 2019, 53, 6007-6017. | 10.0 | 115 |
| 38 | Rational Design of Au@Pt Multibranched Nanostructures as Bifunctional Nanozymes. ACS Applied Materials & Interfaces, 2018, 10, 12954-12959. | 8.0 | 114 |
| 39 | Ligand-Dependent Activity Engineering of Glutathione Peroxidase-Mimicking MIL-47(V) Metal-Organic Framework Nanozyme for Therapy. Angewandte Chemie - International Edition, 2021, 60, 1227-1234. | 13.8 | 111 |
| 40 | Nucleobase-Metal Hybrid Materials: Preparation of Submicrometer-Scale, Spherical Colloidal Particles of Adenine-Gold(III) via a Supramolecular Hierarchical Self-Assembly Approach. Chemistry of Materials, 2007, 19, 2987-2993. | 6.7 | 109 |
| 41 | Electrochemiluminescence of tris(2,2'-bipyridyl)ruthenium and its applications in bioanalysis: a review. Luminescence, 2011, 26, 77-85. | 2.9 | 105 |
| 42 | A electrochemiluminescence aptasensor for detection of thrombin incorporating the capture aptamer labeled with gold nanoparticles immobilized onto the thio-silanized ITO electrode. Analytica Chimica Acta, 2008, 628, 80-86. | 5.4 | 98 |
| 43 | Multifunctional nanozymes: enzyme-like catalytic activity combined with magnetism and surface plasmon resonance. Nanoscale Horizons, 2018, 3, 367-382. | 8.0 | 92 |
| 44 | A turn-on fluorescent probe for heparin and its oversulfated chondroitin sulfate contaminant. Chemical Science, 2015, 6, 6361-6366. | 7.4 | 91 |
| 45 | Boosting the Peroxidase-Like Activity of Nanostructured Nickel by Inducing Its 3+ Oxidation State in LaNiO ₃ Perovskite and Its Application for Biomedical Assays. Theranostics, 2017, 7, 2277-2286. | 10.0 | 90 |
| 46 | Hammett Relationship in Oxidase-Mimicking Metal-Organic Frameworks Revealed through a Protein-Inspired Strategy. Advanced Materials, 2021, 33, e2005024. | 21.0 | 85 |
| 47 | Microchip Capillary Electrophoresis with Solid-State Electrochemiluminescence Detector. Analytical Chemistry, 2005, 77, 7993-7997. | 6.5 | 82 |
| 48 | Electrochemiluminescence Sensor Based on Partial Sulfonation of Polystyrene with Carbon Nanotubes. Analytical Chemistry, 2007, 79, 5439-5443. | 6.5 | 82 |
| 49 | Label free electrochemiluminescence protocol for sensitive DNA detection with a tris(2,2'-bipyridyl)ruthenium(II) modified electrode based on nucleic acid oxidation. Electrochemistry Communications, 2007, 9, 1474-1479. | 4.7 | 74 |
| 50 | Size and temporal-dependent efficacy of olipraz-loaded PLGA nanoparticles for treatment of acute kidney injury and fibrosis. Biomaterials, 2019, 219, 119368. | 11.4 | 74 |
| 51 | Data-informed discovery of hydrolytic nanozymes. Nature Communications, 2022, 13, 827. | 12.8 | 73 |
| 52 | Guided Synthesis of a Mo/Zn Dual Single-Atom Nanozyme with Synergistic Effect and Peroxidase-Like Activity. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 72 |
| 53 | Reusable, label-free electrochemical aptasensor for sensitive detection of small molecules. Chemical Communications, 2007, , 3780. | 4.1 | 71 |
| 54 | A carbon nanotubes based ATP apta-sensing platform and its application in cellular assay. Biosensors and Bioelectronics, 2010, 25, 1897-1901. | 10.1 | 70 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | 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 |
| 56 | A Valence-Engineered Self-Cascading Antioxidant Nanozyme for the Therapy of Inflammatory Bowel Disease. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 13.8 | 63 |
| 57 | Nanozymes: Next Wave of Artificial Enzymes. <i>Springer Briefs in Molecular Science</i> , 2016, , . | 0.1 | 62 |
| 58 | Accelerated discovery of superoxide-dismutase nanozymes via high-throughput computational screening. <i>Nature Communications</i> , 2021, 12, 6866. | 12.8 | 62 |
| 59 | Strategies to Increase On-Target and Reduce Off-Target Effects of the CRISPR/Cas9 System in Plants. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3719. | 4.1 | 61 |
| 60 | Light-responsive nanozymes for biosensing. <i>Analyst</i> , The, 2020, 145, 4388-4397. | 3.5 | 61 |
| 61 | Room temperature ionic liquid doped DNA network immobilized horseradish peroxidase biosensor for amperometric determination of hydrogen peroxide. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 527-532. | 3.7 | 60 |
| 62 | Phosphate-responsive 2D-metal-organic-framework-nanozymes for colorimetric detection of alkaline phosphatase. <i>Journal of Materials Chemistry B</i> , 2020, 8, 6905-6911. | 5.8 | 60 |
| 63 | Design of high performance nanozymes: a single-atom strategy. <i>Science China Life Sciences</i> , 2019, 62, 710-712. | 4.9 | 58 |
| 64 | [Ru(bpy) ₃] ²⁺ -Doped Silica Nanoparticles within Layer-by-Layer Biomolecular Coatings and Their Application as a Biocompatible Electrochemiluminescent Tag Material. <i>Chemistry - A European Journal</i> , 2008, 14, 3687-3693. | 3.3 | 55 |
| 65 | Deciphering the quenching mechanism of 2D MnO ₂ nanosheets towards Au nanocluster fluorescence to design effective glutathione biosensors. <i>Analytical Methods</i> , 2016, 8, 3935-3940. | 2.7 | 54 |
| 66 | Cerium oxide nanoparticles loaded nanofibrous membranes promote bone regeneration for periodontal tissue engineering. <i>Bioactive Materials</i> , 2022, 7, 242-253. | 15.6 | 54 |
| 67 | Catalysis of Gold Nanoparticles within Lysozyme Single Crystals. <i>Chemistry - an Asian Journal</i> , 2012, 7, 680-683. | 3.3 | 52 |
| 68 | Self-Cascade Uricase/Catalase Mimics Alleviate Acute Gout. <i>Nano Letters</i> , 2022, 22, 508-516. | 9.1 | 52 |
| 69 | Selective glucose detection based on the concept of electrochemical depletion of electroactive species in diffusion layer. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1366-1372. | 10.1 | 49 |
| 70 | [Ru(bpy) ₂ (dcbpy)NHS] Labeling/Aptamer-Based Biosensor for the Detection of Lysozyme by Increasing Sensitivity with Gold Nanoparticle Amplification. <i>Chemistry - an Asian Journal</i> , 2008, 3, 1935-1941. | 3.3 | 48 |
| 71 | Protein- and Peptide-directed Approaches to Fluorescent Metal Nanoclusters. <i>Israel Journal of Chemistry</i> , 2015, 55, 682-697. | 2.3 | 47 |
| 72 | Cerium oxide nanozyme attenuates periodontal bone destruction by inhibiting the ROS-NF- κ B pathway. <i>Nanoscale</i> , 2022, 14, 2628-2637. | 5.6 | 46 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Multifunctional STING-Activating Mn ₃ O ₄ @Au-ssDNA/DOX Nanoparticle for Antitumor Immunotherapy. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000064. | 7.6 | 45 |
| 74 | 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> , The, 2007, 132, 687-691. | 3.5 | 44 |
| 75 | Nucleobase-mediated synthesis of nitrogen-doped carbon nanozymes as efficient peroxidase mimics. <i>Dalton Transactions</i> , 2019, 48, 1993-1999. | 3.3 | 44 |
| 76 | Surface Engineering of Biodegradable Magnesium Alloys for Enhanced Orthopedic Implants. <i>Small</i> , 2019, 15, e1904486. | 10.0 | 43 |
| 77 | Silver nanoparticles coated with adenine: preparation, self-assembly and application in surface-enhanced Raman scattering. <i>Nanotechnology</i> , 2007, 18, 175610. | 2.6 | 39 |
| 78 | Combining chemical reduction with an electrochemical technique for the simultaneous detection of Cr(^{vi}), Pb(ⁱⁱ) and Cd(ⁱⁱ). <i>Analyst</i> , The, 2009, 134, 273-277. | 3.5 | 38 |
| 79 | Colorimetric recognition of the coralyne-poly(dA) interaction using unmodified gold nanoparticle probes, and further detection of coralyne based upon this recognition system. <i>Analyst</i> , The, 2009, 134, 1647. | 3.5 | 38 |
| 80 | Ruthenium Polypyridine Complexes Combined with Oligonucleotides for Bioanalysis: A Review. <i>Molecules</i> , 2014, 19, 11933-11987. | 3.8 | 38 |
| 81 | Engineering Nanoceria for Enhanced Peroxidase Mimics: A Solid Solution Strategy. <i>ChemCatChem</i> , 2019, 11, 737-743. | 3.7 | 38 |
| 82 | Quantitative electrochemiluminescence detection of proteins: Avidin-based sensor and tris(2,2'-bipyridine) ruthenium(II) label. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1645-1651. | 10.1 | 37 |
| 83 | Protein-directed approaches to functional nanomaterials: a case study of lysozyme. <i>Journal of Materials Chemistry B</i> , 2014, 2, 8268-8291. | 5.8 | 37 |
| 84 | <i>In vitro</i> measurement of superoxide dismutase-like nanozyme activity: a comparative study. <i>Analyst</i> , The, 2021, 146, 1872-1879. | 3.5 | 37 |
| 85 | <i>In Situ</i> Exsolution of Noble-Metal Nanoparticles on Perovskites as Enhanced Peroxidase Mimics for Bioanalysis. <i>Analytical Chemistry</i> , 2021, 93, 5954-5962. | 6.5 | 36 |
| 86 | Gold alloy-based nanozyme sensor arrays for biothiol detection. <i>Analyst</i> , The, 2020, 145, 3916-3921. | 3.5 | 35 |
| 87 | Degradable ZnS-Supported Bioorthogonal Nanozymes with Enhanced Catalytic Activity for Intracellular Activation of Therapeutics. <i>Journal of the American Chemical Society</i> , 2022, 144, 12893-12900. | 13.7 | 34 |
| 88 | Electrochemical and electrochemiluminescence study of Ru(bpy) ₂ +3-doped silica nanoparticles with covalently grafted biomacromolecules. <i>Journal of Colloid and Interface Science</i> , 2008, 321, 310-314. | 9.4 | 33 |
| 89 | Identification, evolution, expression, and docking studies of fatty acid desaturase genes in wheat (<i>Triticum aestivum</i> L.). <i>BMC Genomics</i> , 2020, 21, 778. | 2.8 | 31 |
| 90 | Mn ₃ O ₄ Nanozyme for Inflammatory Bowel Disease Therapy. <i>Advanced Therapeutics</i> , 2021, 4, 2100081. | 3.2 | 31 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | Evaluation, characterization, expression profiling, and functional analysis of DXS and DXR genes of <i>Populus trichocarpa</i> . <i>Plant Physiology and Biochemistry</i> , 2019, 142, 94-105. | 5.8 | 30 |
| 92 | Synthesis-temperature-regulated multi-enzyme-mimicking activities of ceria nanozymes. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7238-7245. | 5.8 | 29 |
| 93 | An arylboronate locked fluorescent probe for hypochlorite. <i>Analyst</i> , The, 2017, 142, 2104-2108. | 3.5 | 28 |
| 94 | Spinel-Oxide-Based Laccase Mimics for the Identification and Differentiation of Phenolic Pollutants. <i>Analytical Chemistry</i> , 2022, 94, 10198-10205. | 6.5 | 28 |
| 95 | Electrochemiluminescence-based DNA Detection Using Guanine Oxidation at Electrostatic Self-assembly of Ru(bpy) ₃ ²⁺ -doped Silica Nanoparticles on Indium Tin Oxide Electrode. <i>Chemistry Letters</i> , 2007, 36, 210-211. | 1.3 | 27 |
| 96 | Fe ₃ O ₄ @GO magnetic nanocomposites protect mesenchymal stem cells and promote osteogenic differentiation of rat bone marrow mesenchymal stem cells. <i>Biomaterials Science</i> , 2020, 8, 5984-5993. | 5.4 | 27 |
| 97 | Structurally Engineered Light-Responsive Nanozymes for Enhanced Substrate Specificity. <i>Analytical Chemistry</i> , 2021, 93, 15150-15158. | 6.5 | 27 |
| 98 | Bis(2,2'-bipyridine)(5,6-epoxy-5,6-dihydro-[1,10] phenanthroline)ruthenium: Synthesis and Electrochemical and Electrochemiluminescence Characterization. <i>Analytical Chemistry</i> , 2008, 80, 5635-5639. | 6.5 | 26 |
| 99 | Characterization and Function of 3-Hydroxy-3-Methylglutaryl-CoA Reductase in <i>Populus trichocarpa</i> : Overexpression of PtHMGR Enhances Terpenoids in Transgenic Poplar. <i>Frontiers in Plant Science</i> , 2019, 10, 1476. | 3.6 | 25 |
| 100 | Enhanced and tunable fluorescent quantum dots within a single crystal of protein. <i>Nano Research</i> , 2013, 6, 627-634. | 10.4 | 24 |
| 101 | Functional Nucleic Acid Probe for Parallel Monitoring K ⁺ and Protoporphyrin IX in Living Organisms. <i>Analytical Chemistry</i> , 2016, 88, 2937-2943. | 6.5 | 24 |
| 102 | Modulating luminescence of Tb ³⁺ with biomolecules for sensing heparin and its contaminant OSCS. <i>Biosensors and Bioelectronics</i> , 2016, 86, 858-863. | 10.1 | 22 |
| 103 | Ligand-Dependent Activity Engineering of Glutathione Peroxidase-Mimicking MIL-47(V) Metal-Organic Framework Nanozyme for Therapy. <i>Angewandte Chemie</i> , 2021, 133, 1247-1254. | 2.0 | 21 |
| 104 | A Dopamine-Enabled Universal Assay for Catalase and Catalase-Like Nanozymes. <i>Analytical Chemistry</i> , 2022, 94, 10636-10642. | 6.5 | 21 |
| 105 | Enzymatically activated reduction-caged SERS reporters for versatile bioassays. <i>Analyst</i> , The, 2017, 142, 2322-2326. | 3.5 | 20 |
| 106 | Overexpression of PtDXS Enhances Stress Resistance in Poplars. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1669. | 4.1 | 20 |
| 107 | Expression and characterization of the antimicrobial peptide ABP-dHC-cecropin A in the methylotrophic yeast <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2017, 140, 44-51. | 1.3 | 19 |
| 108 | A pH responsive AIE probe for enzyme assays. <i>Analyst</i> , The, 2018, 143, 741-746. | 3.5 | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 109 | Plant Secondary Metabolites with an Overview of Populus. International Journal of Molecular Sciences, 2021, 22, 6890. | 4.1 | 19 |
| 110 | Multifunctional Nanozyme Hydrogel with Mucosal Healing Activity for Single-Dose Ulcerative Colitis Therapy. Bioconjugate Chemistry, 2022, 33, 248-259. | 3.6 | 18 |
| 111 | Electrochemiluminescence in the S ₂ O ₈ ²⁻ system: Pt/Cd electrodes. Electrochemistry Communications, 2007, 9, 465-468. | 4.7 | 17 |
| 112 | Cerium-Based Metal-Organic Framework with Intrinsic Haloperoxidase-Like Activity for Antibiofilm Formation. Advanced Functional Materials, 2022, 32, . | 14.9 | 17 |
| 113 | Submicrometre scale single-crystalline gold plates of nanometre thickness: synthesis through a nucleobase process and growth mechanism. Nanotechnology, 2007, 18, 295603. | 2.6 | 16 |
| 114 | Using a Heme-Based Nanozyme as Bifunctional Redox Mediator for Li ⁺ O ₂ Batteries. Batteries and Supercaps, 2020, 3, 336-340. | 4.7 | 16 |
| 115 | Biocompatible hyaluronic acid polymer-coated quantum dots for CD44+ cancer cell-targeted imaging. Journal of Nanoparticle Research, 2014, 16, 1. | 1.9 | 15 |
| 116 | Acid Susceptible Ultrathin Mesoporous Silica Coated on Layered Double Hydroxide Nanoplates for pH Responsive Cancer Therapy. ACS Applied Bio Materials, 2018, 1, 928-935. | 4.6 | 15 |
| 117 | Peroxidase-like nanozyme sensing arrays for versatile analytes. Journal of Nanoparticle Research, 2020, 22, 1. | 1.9 | 15 |
| 118 | Porous Ruthenium Selenide Nanoparticle as a Peroxidase Mimic for Glucose Bioassay. Journal of Analysis and Testing, 2019, 3, 253-259. | 5.1 | 14 |
| 119 | Kinetic study of paracetamol on prolidase activity in erythrocytes by capillary electrophoresis with Ru(bpy) ₃ ²⁺ electrochemiluminescence detection. Electrophoresis, 2006, 27, 4047-4051. | 2.4 | 13 |
| 120 | Functional analyses of PtrDM1 gene overexpression in poplars and evaluation of its effect on DNA methylation and response to salt stress. Plant Physiology and Biochemistry, 2018, 127, 64-73. | 5.8 | 13 |
| 121 | Combining Photothermal Therapy-Induced Immunogenic Cell Death and Hypoxia Relief-Benefited M1-Phenotype Macrophage Polarization for Cancer Immunotherapy. Advanced Therapeutics, 2021, 4, 2000191. | 3.2 | 12 |
| 122 | Recent Advances on Nanozyme-Based Electrochemical Biosensors. Electroanalysis, 2023, 35, . | 2.9 | 12 |
| 123 | Selective, peroxidase substrate based "signal-on" colorimetric assay for the detection of chromium (VI). Analytica Chimica Acta, 2008, 630, 181-185. | 5.4 | 11 |
| 124 | High-level SUMO-mediated fusion expression of ABP-dHC-cecropin A from multiple joined genes in Escherichia coli. Analytical Biochemistry, 2016, 509, 15-23. | 2.4 | 11 |
| 125 | A supercharged fluorescent protein based FRET sensing platform for detection of heparin contamination. Analytical Methods, 2017, 9, 5593-5597. | 2.7 | 11 |
| 126 | Guided Synthesis of a Mo/Zn Dual Single-Atom Nanozyme with Synergistic Effect and Peroxidase-Like Activity. Angewandte Chemie, 2022, 134, . | 2.0 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Tris(2,2â€²-bipyridyl) Ruthenium(II) Doped Silica Film Modified Indium Tin Oxide Electrode and Its Electrochemiluminescent Properties. Chinese Journal of Chemistry, 2007, 25, 159-163. | 4.9 | 10 |
| 128 | Overexpression of PtDefensin enhances resistance to Septotia populiperda in transgenic poplar. Plant Science, 2020, 292, 110379. | 3.6 | 10 |
| 129 | High-Throughput Colorimetric Analysis of Nanoparticleâ€“Protein Interactions Based on the Enzyme-Mimic Properties of Nanoparticles. Analytical Chemistry, 2022, 94, 8783-8791. | 6.5 | 10 |
| 130 | Characterization, expression profiling, and functional analysis of a Populus trichocarpa defensin gene and its potential as an anti-Agrobacterium rooting medium additive. Scientific Reports, 2019, 9, 15359. | 3.3 | 9 |
| 131 | Genome-Wide Characterization of Dirigent Proteins in Populus: Gene Expression Variation and Expression Pattern in Response to Marssonina brunnea and Phytohormones. Forests, 2021, 12, 507. | 2.1 | 9 |
| 132 | Nanozymes: Preparation and Characterization. Nanostructure Science and Technology, 2020, , 79-101. | 0.1 | 9 |
| 133 | Identification and Characterization of an OSH1 Thiol Reductase from Populus trichocarpa. Cells, 2020, 9, 76. | 4.1 | 8 |
| 134 | The Measurements and Simulations of Millimeter Wave Propagation at 38ghz in Circular Subway Tunnels. , 2008, , . | | 7 |
| 135 | Metal Oxide-Based Nanomaterials for Nanozymes. Springer Briefs in Molecular Science, 2016, , 57-91. | 0.1 | 7 |
| 136 | Current developments and trends in nanobiocatalysis. Scientia Sinica Vitae, 2020, 50, 682-697. | 0.3 | 7 |
| 137 | A Valenceâ€“Engineered Selfâ€“Cascading Antioxidant Nanozyme for the Therapy of Inflammatory Bowel Disease. Angewandte Chemie, 2022, 134, . | 2.0 | 7 |
| 138 | Biochar Nanozyme from Silkworm Excrement for Scavenging Vapor-Phase Free Radicals in Cigarette Smoke. ACS Applied Bio Materials, 2022, 5, 1831-1838. | 4.6 | 6 |
| 139 | Challenges and Perspectives. Springer Briefs in Molecular Science, 2016, , 103-107. | 0.1 | 5 |
| 140 | Optimization of the cry1Ah1 Sequence Enhances the Hyper-Resistance of Transgenic Poplars to Hyphantria cunea. Frontiers in Plant Science, 2019, 10, 335. | 3.6 | 5 |
| 141 | Design of nanozymes for inflammatory bowel disease therapy. Science China Life Sciences, 2021, 64, 1368-1371. | 4.9 | 5 |
| 142 | Carbon-Based Nanomaterials for Nanozymes. Springer Briefs in Molecular Science, 2016, , 7-29. | 0.1 | 4 |
| 143 | Correction: A pH responsive AIE probe for enzyme assays. Analyst, The, 2018, 143, 784-784. | 3.5 | 4 |
| 144 | Overexpression of PtAnnexin1 from Populus trichocarpa enhances salt and drought tolerance in transgenic poplars. Tree Genetics and Genomes, 2020, 16, 1. | 1.6 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|--------|-----------|
| 145 | Introduction to Nanozymes. Springer Briefs in Molecular Science, 2016, , 1-6. | 0.1 | 3 |
| 146 | Metal-Based Nanomaterials for Nanozymes. Springer Briefs in Molecular Science, 2016, , 31-55. | 0.1 | 3 |
| 147 | Nanozymes for Biomedical Sensing Applications. , 2018, , 171-209. | | 3 |
| 148 | Effects of Bt-Cry1Ah1 Transgenic Poplar on Target and Non-Target Pests and Their Parasitic Natural Enemy in Field and Laboratory Trials. Forests, 2020, 11, 1255. | 2.1 | 3 |
| 149 | Characteristics and Functions of PePIF3, a Gene Related to Circadian Rhythm in "Nanlin 895" Poplar. Plant Molecular Biology Reporter, 2020, 38, 586-600. | 1.8 | 3 |
| 150 | Inorganic Enzyme Mimics. ChemBioChem, 2021, 22, 1496-1498. | 2.6 | 3 |
| 151 | Genome-Wide and Comprehensive Analysis of the Multiple Stress-Related CAF1 (CCR4-Associated Factor) Tj ETQq1, 1.10.7843, 14 rgBT | 0.7843 | 14 |
| 152 | A Method to Reduce off-Targets in CRISPR/Cas9 System in Plants. Methods in Molecular Biology, 2022, 2408, 317-324. | 0.9 | 2 |
| 153 | Strategy for Use of Smart Routes to Prepare Label-Free Aptasensors for Bioassay Using Different Techniques. , 0, , 251-298. | | 1 |
| 154 | Other Nanomaterials for Nanozymes. Springer Briefs in Molecular Science, 2016, , 93-102. | 0.1 | 0 |
| 155 | Nanozymes for Therapeutics. Nanostructure Science and Technology, 2020, , 459-488. | 0.1 | 0 |
| 156 | InnenrÄ¼cktitelbild: LigandÄ¼Dependent Activity Engineering of Glutathione PeroxidaseÄ¼Mimicking MILÄ¼47(V) MetalÄ¼Organic Framework Nanozyme for Therapy (Angew. Chem. 3/2021). Angewandte Chemie, 2021, 133, 1683-1683. | 2.0 | 0 |
| 157 | Beyond: Novel Applications of Nanozymes. Nanostructure Science and Technology, 2020, , 545-555. | 0.1 | 0 |