# Yi Yang

## List of Publications by Year in descending order



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|---|---|---|---|
| 88 papers | 3,607 citations | 172457 29 h-index | 144013 57 g-index |
| 89 all docs | 89 docs citations | 89 times ranked | 4958 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Occurrences and removal of pharmaceuticals and personal care products (PPCPs) in drinking water and water/sewage treatment plants: A review. Science of the Total Environment, 2017, 596-597, 303-320. | 8.0 | 1,131 |
| 2 | Production of bioplastic through food waste valorization. Environment International, 2019, 127, 625-644. | 10.0 | 328 |
| 3 | Occurrence of contaminants in drinking water sources and the potential of biochar for water quality improvement: A review. Critical Reviews in Environmental Science and Technology, 2020, 50, 549-611. | 12.8 | 143 |
| 4 | Construction of multiple enzyme metalâ€“organic frameworks biocatalyst via DNA scaffold: A promising strategy for enzyme encapsulation. Chemical Engineering Journal, 2019, 363, 174-182. | 12.7 | 69 |
| 5 | Synthesis of teicoplanin-modified hybrid magnetic mesoporous silica nanoparticles and their application in chiral separation of racemic compounds. Journal of Colloid and Interface Science, 2013, 399, 107-114. | 9.4 | 60 |
| 6 | Highly Effective Removal of Pharmaceutical Compounds from Aqueous Solution by Magnetic Zr-Based MOFs Composites. Industrial & Engineering Chemistry Research, 2019, 58, 3876-3884. | 3.7 | 58 |
| 7 | Microwaveâ€assisted extraction of rutin and quercetin from the stalks of Euonymus alatus (Thunb.) Sieb. Phytochemical Analysis, 2009, 20, 33-37. | 2.4 | 57 |
| 8 | Dendrimer modified magnetic nanoparticles for immobilized BSA: a novel chiral magnetic nano-selector for direct separation of racemates. Journal of Materials Chemistry B, 2013, 1, 5028. | 5.8 | 55 |
| 9 | Magnetic nanoparticles coated with immobilized alkaline phosphatase for enzymolysis and enzyme inhibition assays. Journal of Materials Chemistry B, 2013, 1, 1749. | 5.8 | 52 |
| 10 | High Activity and Convenient Ratio Control: DNA-Directed Coimmobilization of Multiple Enzymes on Multifunctionalized Magnetic Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 37254-37263. | 8.0 | 52 |
| 11 | Intrinsic Triple-Enzyme Mimetic Activity of V<sub>6</sub>O<sub>13</sub> Nanotextiles: Mechanism Investigation and Colorimetric and Fluorescent Detections. Industrial & Engineering Chemistry Research, 2018, 57, 2416-2425. | 3.7 | 51 |
| 12 | Metalâ€“Organic Framework in Situ Post-Encapsulating DNAâ€“Enzyme Composites on a Magnetic Carrier with High Stability and Reusability. ACS Applied Materials & Interfaces, 2020, 12, 7510-7517. | 8.0 | 51 |
| 13 | Immobilization of cellulase on polyamidoamine dendrimer-grafted silica. Journal of Molecular Catalysis B: Enzymatic, 2013, 89, 35-40. | 1.8 | 49 |
| 14 | Triple-enzyme mimetic activity of Co<sub>3</sub>O<sub>4</sub>nanotubes and their applications in colorimetric sensing of glutathione. New Journal of Chemistry, 2016, 40, 10056-10063. | 2.8 | 48 |
| 15 | Fe3O4 peroxidase mimetics as a general strategy for the fluorescent detection of H2O2-involved systems. Talanta, 2014, 130, 259-264. | 5.5 | 46 |
| 16 | In-situ ionic liquid-based microwave-assisted dispersive liquidâ€“liquid microextraction of triazine herbicides. Mikrochimica Acta, 2012, 178, 341-347. | 5.0 | 41 |
| 17 | Immobilization of HSA on polyamidoamine-dendronized magnetic microspheres for application in direct chiral separation of racemates. Journal of Materials Chemistry B, 2014, 2, 775-782. | 5.8 | 41 |
| 18 | Preparation of ironâ€based MILâ€101 functionalized polydopamine@Fe<sub>3</sub>O<sub>4</sub> magnetic composites for extracting sulfonylurea herbicides from environmental water and vegetable samples. Journal of Separation Science, 2018, 41, 2046-2055. | 2.5 | 40 |

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|---|---|---|---|
| 19 | Self-assembly of a magnetic DNA hydrogel as a new biomaterial for enzyme encapsulation with enhanced activity and stability. Chemical Communications, 2019, 55, 2449-2452. | 4.1 | 40 |
| 20 | Polyamidoamine dendrimer as a spacer for the immobilization of glucose oxidase in capillary enzyme microreactor. Analytical Biochemistry, 2010, 405, 230-235. | 2.4 | 37 |
| 21 | Sorption of pharmaceuticals and personal care products (PPCPs) from water and wastewater by carbonaceous materials: A review. Critical Reviews in Environmental Science and Technology, 2022, 52, 727-766. | 12.8 | 37 |
| 22 | Selfâ€assembled magnetic nanoparticle supported zeolitic imidazolate frameworkâ€8: An efficient adsorbent for the enrichment of triazine herbicides from fruit, vegetables, and water. Journal of Separation Science, 2017, 40, 909-918. | 2.5 | 35 |
| 23 | Template-Free In Situ Encapsulation of Enzymes in Hollow Covalent Organic Framework Capsules for the Electrochemical Analysis of Biomarkers. ACS Applied Materials & Interfaces, 2022, 14, 20641-20651. | 8.0 | 34 |
| 24 | Synthesis of polyamidoamine dendrimer-grafted silica with microwave assisted protocol. Reactive and Functional Polymers, 2010, 70, 129-133. | 4.1 | 33 |
| 25 | Precise measurement for the purity of amino acid and peptide using quantitative nuclear magnetic resonance. Talanta, 2014, 125, 94-101. | 5.5 | 33 |
| 26 | Online immobilized enzyme microreactor for the glucose oxidase enzymolysis and enzyme inhibition assay. Analytical Biochemistry, 2012, 427, 139-143. | 2.4 | 31 |
| 27 | Modification of polydopamine-coated Fe3O4 nanoparticles with multi-walled carbon nanotubes for magnetic-Î¼-dispersive solid-phase extraction of antiepileptic drugs in biological matrices. Analytical and Bioanalytical Chemistry, 2018, 410, 3779-3788. | 3.7 | 31 |
| 28 | Microwave-assisted preparation of poly(ionic liquids)-modified magnetic nanoparticles for pesticide extraction. Journal of Separation Science, 2014, 37, 1503-1510. | 2.5 | 30 |
| 29 | Cationic Î²-cyclodextrin-modified hybrid magnetic microspheres as chiral selectors for selective chiral absorption of dansyl amino acids. New Journal of Chemistry, 2014, 38, 3630-3636. | 2.8 | 29 |
| 30 | DNA directed immobilization enzyme on polyamidoamine tethered magnetic composites with high reusability and stability. Journal of Materials Chemistry B, 2016, 4, 5873-5882. | 5.8 | 27 |
| 31 | Co<sub>3</sub>O<sub>4</sub>/Reduced Graphene Oxide Nanocomposites as Effective Phosphotriesterase Mimetics for Degradation and Detection of Paraoxon. Industrial & Engineering Chemistry Research, 2017, 56, 9762-9769. | 3.7 | 27 |
| 32 | Boronic acid-decorated metal-organic frameworks modified via a mixed-ligand strategy for the selective enrichment of cis-diol containing nucleosides. Analytica Chimica Acta, 2020, 1106, 42-51. | 5.4 | 27 |
| 33 | Microwave-assisted synthesis of poly(ionic liquid)-coated magnetic nanoparticles for the extraction of sulfonylurea herbicides from soil for HPLC. Analytical Methods, 2015, 7, 3246-3252. | 2.7 | 26 |
| 34 | Facile one-pot synthesis of Î²-cyclodextrin-polymer-modified Fe<sub>3</sub>O<sub>4</sub>microspheres for stereoselective absorption of amino acid compounds. Analytical Methods, 2015, 7, 2754-2761. | 2.7 | 26 |
| 35 | Multifunctional magnetic particles for effective suppression of non-specific adsorption and coimmobilization of multiple enzymes by DNA directed immobilization. Journal of Materials Chemistry B, 2018, 6, 5718-5728. | 5.8 | 26 |
| 36 | A magnetic nanoscale Fe 3 O 4 /P Î²-CD composite as an efficient peroxidase mimetic for glucose detection. Talanta, 2015, 143, 457-463. | 5.5 | 25 |

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|---|---|---|---|
| 37 | Self-sacrificial template synthesis of mixed-valence-state cobalt nanomaterials with high catalytic activities for colorimetric detection of glutathione. Sensors and Actuators B: Chemical, 2018, 254, 329-336. | 7.8 | 25 |
| 38 | Microwave-assisted preparation of magnetic nanoparticles modified with graphene oxide for the extraction and analysis of phenolic compounds. Journal of Separation Science, 2014, 37, 3339-3346. | 2.5 | 23 |
| 39 | Enantioselective absorption of enantiomers with maleic anhydride-Î²-cyclodextrin modified magnetic microspheres. RSC Advances, 2014, 4, 58514-58521. | 3.6 | 22 |
| 40 | Based on DNA Strand Displacement and Functionalized Magnetic Nanoparticles: A Promising Strategy for Enzyme Immobilization. Industrial & Engineering Chemistry Research, 2017, 56, 5127-5137. | 3.7 | 22 |
| 41 | Efficient immobilization of enzymes onto magnetic nanoparticles by DNA strand displacement: a stable and high-performance biocatalyst. New Journal of Chemistry, 2017, 41, 6089-6097. | 2.8 | 22 |
| 42 | DNA-directed trypsin immobilization on a polyamidoamine dendrimer-modified capillary to form a renewable immobilized enzyme microreactor. International Journal of Biological Macromolecules, 2018, 113, 38-44. | 7.5 | 21 |
| 43 | DNA-directed enzyme immobilization on Fe3O4 modified with nitrogen-doped graphene quantum dots as a highly efficient and stable multi-catalyst system. Journal of Materials Science, 2019, 54, 2535-2551. | 3.7 | 21 |
| 44 | Exquisitely designed magnetic DNA nanocompartment for enzyme immobilization with adjustable catalytic activity and improved enzymatic assay performance. Chemical Engineering Journal, 2020, 390, 124488. | 12.7 | 21 |
| 45 | Attachment of enzymes to hydrophilic magnetic nanoparticles through DNA-directed immobilization with enhanced stability and catalytic activity. New Journal of Chemistry, 2018, 42, 8458-8468. | 2.8 | 20 |
| 46 | Co<sub>2</sub>V<sub>2</sub>O<sub>7</sub>Particles with Intrinsic Multienzyme Mimetic Activities as an Effective Bioplatform for Ultrasensitive Fluorometric and Colorimetric Biosensing. ACS Applied Bio Materials, 2020, 3, 1469-1480. | 4.6 | 20 |
| 47 | Optimization of ionic liquid-based microwave-assisted dispersive liquidâ€“liquid microextraction for the determination of plasticizers in water by response surface methodology. Analytical Methods, 2013, 5, 1033. | 2.7 | 19 |
| 48 | Ionic liquid-based solvent bar microextraction for determination of organophosphorus pesticides in water samples. Analytical Methods, 2013, 5, 5074. | 2.7 | 19 |
| 49 | Microwave-assisted synthesis of ionic liquid-modified silica as a sorbent for the solid-phase extraction of phenolic compounds from water. Analytical Methods, 2014, 6, 704-709. | 2.7 | 18 |
| 50 | Application of magnetized MOFâ€74 to phthalate esters extraction from Chinese liquor. Journal of Separation Science, 2019, 42, 1600-1609. | 2.5 | 18 |
| 51 | Oligonucleotide-Functionalized Enzymes Chemisorbing on Magnetic Layered Double Hydroxides: A Multimodal Catalytic Platform with Boosted Activity for Ultrasensitive Glucose Detection. ACS Applied Materials & Interfaces, 2021, 13, 14995-15007. | 8.0 | 18 |
| 52 | NiCo2S4 microflowers as peroxidase mimic: A multi-functional platform for colorimetric detection of glucose and evaluation of antioxidant behavior. Talanta, 2021, 230, 122337. | 5.5 | 18 |
| 53 | Application of cellulase-polyamidoamine dendrimer-modified silica for microwave-assisted chitosan enzymolysis. Process Biochemistry, 2013, 48, 614-619. | 3.7 | 17 |
| 54 | Preparation of novel ionic-liquid-modified magnetic nanoparticles by a microwave-assisted method for sulfonylurea herbicides extraction. Journal of Separation Science, 2015, 38, 3936-3944. | 2.5 | 17 |

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|---|---|---|---|
| 55 | Grafting l -valine on polyamidoamine dendrimer-modified magnetic microspheres for enantioselective adsorption of dansyl amino acids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 490, 241-249. | 4.7 | 17 |
| 56 | Enhanced reusability and activity: DNA directed immobilization of enzyme on polydopamine modified magnetic nanoparticles. Biochemical Engineering Journal, 2018, 137, 108-115. | 3.6 | 16 |
| 57 | Boosting the activity of enzymes in metal-organic frameworks by a one-stone-two-bird enzymatic surface functionalization strategy. Applied Surface Science, 2022, 586, 152815. | 6.1 | 16 |
| 58 | Preparation of polyclonal antibody and development of a biotin-streptavidin-based ELISA method for detecting kanamycin in milk and honey. Chemical Research in Chinese Universities, 2017, 33, 876-881. | 2.6 | 15 |
| 59 | DNA-Directed Immobilized Enzymes on Recoverable Magnetic Nanoparticles Shielded in Nucleotide Coordinated Polymers. Industrial & Engineering Chemistry Research, 2019, 58, 8585-8596. | 3.7 | 15 |
| 60 | Fluoride capped V<sub>6</sub>O<sub>13</sub>â€“reduced graphene oxide nanocomposites: high activity oxidase mimetics and mechanism investigation. New Journal of Chemistry, 2019, 43, 19053-19062. | 2.8 | 15 |
| 61 | Highly efficient synergistic biocatalysis driven by stably loaded enzymes within hierarchically porous iron/cobalt metalâ€“organic framework via biomimetic mineralization. Journal of Materials Chemistry B, 2022, 10, 1553-1560. | 5.8 | 15 |
| 62 | Comparison of microwave-assisted extraction of aloe-emodin in aloe with Soxhlet extraction and ultrasound-assisted extraction. Science China Chemistry, 2011, 54, 231-236. | 8.2 | 14 |
| 63 | Fabrication of CeO2/rGO nanocomposites with oxidase-like activity and their application in colorimetric sensing of ascorbic acid. Chemical Research in Chinese Universities, 2017, 33, 540-545. | 2.6 | 14 |
| 64 | A self-directed and reconstructible immobilization strategy: DNA directed immobilization of alkaline phosphatase for enzyme inhibition assays. RSC Advances, 2016, 6, 36849-36856. | 3.6 | 13 |
| 65 | Glutathione functionalized magnetic covalent organic frameworks with dual-hydrophilicity for highly efficient and selective enrichment of glycopeptides. Journal of Chromatography A, 2022, 1667, 462869. | 3.7 | 13 |
| 66 | Fabrication of magnetic dual-hydrophilic metal organic framework for highly efficient glycopeptide enrichment. Analytical and Bioanalytical Chemistry, 2021, 413, 5267-5278. | 3.7 | 12 |
| 67 | Ionic liquid based microwave-assisted extraction of triazine and phenylurea herbicides from soil samples. Analytical Methods, 2012, 4, 983. | 2.7 | 11 |
| 68 | Development of hemoglobin A1c certified reference material by liquid chromatography isotope dilution mass spectrometry. Analytical and Bioanalytical Chemistry, 2012, 403, 549-554. | 3.7 | 11 |
| 69 | Controllable and highâ€performance immobilized enzyme reactor: DNAâ€directed immobilization of multienzyme in polyamidoamine dendrimerâ€functionalized capillaries. Electrophoresis, 2020, 41, 335-344. | 2.4 | 11 |
| 70 | Poly (Ionic Liquids) Functionalized Magnetic Nanoparticles as Efficient Adsorbent for Determination of Pyrethroids from Environmental Water Samples by GCâ€MS. ChemistrySelect, 2020, 5, 91-96. | 1.5 | 11 |
| 71 | Room temperature fabrication of magnetic covalent organic frameworks for analyzing sulfonamide residues in animalâ€derived foods. Journal of Separation Science, 2022, 45, 1514-1524. | 2.5 | 11 |
| 72 | Janus DNA bridges metal-organic frameworks and graphene oxide for convenient and efficient multienzyme co-immobilization with boosted activity. Applied Surface Science, 2021, 570, 151242. | 6.1 | 10 |

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|---|---|---|---|
| 73 | A universal SI-traceable isotope dilution mass spectrometry method for protein quantitation in a matrix by tandem mass tag technology. Analytical and Bioanalytical Chemistry, 2016, 408, 3485-3493. | 3.7 | 9 |
| 74 | Oriented immobilization of enzymeâ€“DNA conjugates on magnetic Janus particles for constructing a multicompartment multienzyme system with high activity and stability. Journal of Materials Chemistry B, 2020, 8, 8467-8475. | 5.8 | 9 |
| 75 | Insertion of Hemin into Metalâ€“Organic Frameworks: Mimicking Natural Peroxidase Microenvironment for the Rapid Ultrasensitive Detection of Uranium. Analytical Chemistry, 2022, 94, 6833-6841. | 6.5 | 9 |
| 76 | Microwave-Assisted Preparation of a Î²-Cyclodextrin-Based Stationary Phase for Open Tubular Capillary Electrochromatography. Analytical Letters, 2010, 43, 2372-2380. | 1.8 | 8 |
| 77 | IONIC LIQUID-BASED MICROWAVE-ASSISTED EXTRACTION OF ORGANOCHLORINE PESTICIDES FROM SOIL. Journal of Liquid Chromatography and Related Technologies, 2013, 36, 687-699. | 1.0 | 6 |
| 78 | SI-traceable calibration-free analysis for the active concentration of G2-EPSPS protein using surface plasmon resonance. Talanta, 2018, 178, 78-84. | 5.5 | 6 |
| 79 | Microwave-assisted preparation of a vancomycin modified open tubular capillary electrochromatography column for chiral separation. Analytical Methods, 2013, 5, 5753. | 2.7 | 5 |
| 80 | Purity determination of pyributicarb by internal standard correctionâ€“high-performance liquid chromatographyâ€“quantitative nuclear magnetic resonance. Analytical and Bioanalytical Chemistry, 2020, 412, 6983-6993. | 3.7 | 5 |
| 81 | Comparative study on quantitation of human myoglobin by both isotope dilution mass spectrometry and surface plasmon resonance based on calibration-free analysis. Analytical and Bioanalytical Chemistry, 2020, 412, 2777-2784. | 3.7 | 4 |
| 82 | An approach based on consecutive high-speed counter-current chromatography for preparation of an active compound rutin from Apocynum venetum L. Journal of Liquid Chromatography and Related Technologies, 2021, 44, 395-402. | 1.0 | 4 |
| 83 | Development of a human insulin certified reference material with SI-traceable purity. Analytical and Bioanalytical Chemistry, 2022, 414, 3443-3457. | 3.7 | 4 |
| 84 | The quantification of human chorionic gonadotropin by two isotope dilution mass spectrometry methods. Analytical Methods, 2014, 6, 8690-8697. | 2.7 | 3 |
| 85 | High performance liquid chromatography - Quantitative nuclear magnetic resonance - High performance liquid chromatography for purity measurement of human insulin. Journal of Liquid Chromatography and Related Technologies, 2018, 41, 170-179. | 1.0 | 3 |
| 86 | Comparative study on protein quantitation by digital PCR with G2-EPSPS as an example. Microchemical Journal, 2020, 157, 104954. | 4.5 | 2 |
| 87 | Quantification of a volatile deuterated compound by the differential scanning calorimetry combined with quantitative nuclear magnetic resonance and its verification by the mass balance method combined with gas chromatography-mass spectrometry. Talanta, 2022, 246, 123538. | 5.5 | 2 |
| 88 | IMMUNOEXTRACTION OF TESTOSTERONE AND EPITESTOSTERONE FROM HUMAN URINE SAMPLE BASED ON POLYAMIDOAMINE MODIFIED SILICA. Journal of Immunoassay and Immunochemistry, 2013, 34, 246-254. | 1.1 | 1 |