Xu Zhang

List of Publications by Year in descending order

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| | | 87888 | 106344 |
|----------|----------------|--------------|----------------|
| 83 | 4,410 | 38 | 65 |
| papers | citations | h-index | g-index |
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| 89 | 89 | 89 | 5893 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|--|--------------------|------------------------|
| 1 | Instantaneous and Quantitative Functionalization of Gold Nanoparticles with Thiolated DNA Using a pH-Assisted and Surfactant-Free Route. Journal of the American Chemical Society, 2012, 134, 7266-7269. | 13.7 | 477 |
| 2 | Surface Science of DNA Adsorption onto Citrate-Capped Gold Nanoparticles. Langmuir, 2012, 28, 3896-3902. | 3.5 | 260 |
| 3 | Mechanisms of DNA Sensing on Graphene Oxide. Analytical Chemistry, 2013, 85, 7987-7993. | 6.5 | 201 |
| 4 | Ultrahigh Nanoparticle Stability against Salt, pH, and Solvent with Retained Surface Accessibility via Depletion Stabilization. Journal of the American Chemical Society, 2012, 134, 9910-9913. | 13.7 | 189 |
| 5 | Solid-phase microextraction in bioanalysis: New devices and directions. Journal of Chromatography A, 2010, 1217, 4041-4060. | 3.7 | 182 |
| 6 | Instantaneous Attachment of an Ultrahigh Density of Nonthiolated DNA to Gold Nanoparticles and Its Applications. Langmuir, 2012, 28, 17053-17060. | 3.5 | 157 |
| 7 | Hydrothermal growth of free standing TiO2 nanowire membranes for photocatalytic degradation of pharmaceuticals. Journal of Hazardous Materials, 2011, 189, 278-285. | 12.4 | 150 |
| 8 | Polymeric microneedles for controlled transdermal drug delivery. Journal of Controlled Release, 2019, 315, 97-113. | 9.9 | 140 |
| 9 | Inhibition of Multidrug Resistance of Cancer Cells by Coâ€Delivery of DNA Nanostructures and Drugs Using Porous Silicon Nanoparticles@Giant Liposomes. Advanced Functional Materials, 2015, 25, 3330-3340. | 14.9 | 114 |
| 10 | Tissue-Specific In Vivo Bioconcentration of Pharmaceuticals in Rainbow Trout (<i>Oncorhynchus) Tj ETQq0 0 0 rg Technology, 2010, 44, 3417-3422.</i> | gBT /Overl 10.0 | lock 10 Tf 50 3 107 |
| 11 | Quantitative in Vivo Microsampling for Pharmacokinetic Studies Based on an Integrated Solid-Phase Microextraction System. Analytical Chemistry, 2007, 79, 4507-4513. | 6.5 | 98 |
| 12 | Adsorption of DNA Oligonucleotides by Titanium Dioxide Nanoparticles. Langmuir, 2014, 30, 839-845. | 3.5 | 94 |
| 13 | Fast pH-assisted functionalization of silver nanoparticles with monothiolated DNA. Chemical Communications, 2012, 48, 10114. | 4.1 | 88 |
| 14 | In-situ combination of fermentation and electrodialysis with bipolar membranes for the production of lactic acid: Continuous operation. Bioresource Technology, 2013, 147, 442-448. | 9.6 | 87 |
| 15 | Polarity Control for Nonthiolated DNA Adsorption onto Gold Nanoparticles. Langmuir, 2013, 29, 6091-6098. | 3.5 | 77 |
| 16 | Research Progress on Rolling Circle Amplification (RCA)-Based Biomedical Sensing. Pharmaceuticals, 2018, 11, 35. | 3.8 | 74 |
| 17 | Multifunctional Graphene-Oxide-Reinforced Dissolvable Polymeric Microneedles for Transdermal Drug Delivery. ACS Applied Materials & Samp; Interfaces, 2020, 12, 352-360. | 8.0 | 74 |
| 18 | Adsorption of doxorubicin on citrate-capped gold nanoparticles: insights into engineering potent chemotherapeutic delivery systems. Nanoscale, 2015, 7, 19611-19619. | 5.6 | 69 |

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|----|---|------|-----------|
| 19 | In vivo solid-phase microextraction for monitoring intravenous concentrations of drugs and metabolites. Nature Protocols, 2011, 6, 896-924. | 12.0 | 68 |
| 20 | DNA Adsorption by ZnO Nanoparticles near Its Solubility Limit: Implications for DNA Fluorescence Quenching and DNAzyme Activity Assays. Langmuir, 2016, 32, 5672-5680. | 3.5 | 63 |
| 21 | Development of the Space-Resolved Solid-Phase Microextraction Technique and Its Application to Biological Matrices. Analytical Chemistry, 2009, 81, 7349-7356. | 6.5 | 62 |
| 22 | Chloride accelerated Fenton chemistry for the ultrasensitive and selective colorimetric detection of copper. Chemical Communications, 2016, 52, 2087-2090. | 4.1 | 61 |
| 23 | Preparation and characterization of carboxyl-group functionalized superparamagnetic nanoparticles and t he potential for bio-applications. Journal of the Brazilian Chemical Society, 2007, 18, 1329-1335. | 0.6 | 59 |
| 24 | Preparation and application of surface-coated superparamagnetic nanobeads in the isolation of genomic DNA. Journal of Magnetism and Magnetic Materials, 2004, 277, 16-23. | 2.3 | 58 |
| 25 | Toward Fast and Quantitative Modification of Large Gold Nanoparticles by Thiolated DNA: Scaling of Nanoscale Forces, Kinetics, and the Need for Thiol Reduction. Journal of Physical Chemistry C, 2013, 117, 15677-15684. | 3.1 | 55 |
| 26 | Evaluation of bio-compatible poly(ethylene glycol)-based solid-phase microextraction fiber for in vivo pharmacokinetic studies of diazepam in dogs. Analyst, The, 2007, 132, 672. | 3.5 | 54 |
| 27 | On-Fiber Standardization Technique for Solid-Coated Solid-Phase Microextraction. Analytical Chemistry, 2007, 79, 1221-1230. | 6.5 | 53 |
| 28 | Regenerative NanoOctopus Based on Multivalent-Aptamer-Functionalized Magnetic Microparticles for Effective Cell Capture in Whole Blood. Analytical Chemistry, 2019, 91, 4017-4022. | 6.5 | 52 |
| 29 | From polymer–metal complex framework to 3D architectures: growth, characterization and formation mechanism of micrometer-sized α-NiS. New Journal of Chemistry, 2003, 27, 1331-1335. | 2.8 | 51 |
| 30 | Direct monitoring of ochratoxin A in cheese with solid-phase microextraction coupled to liquid chromatography-tandem mass spectrometry. Journal of Chromatography A, 2009, 1216, 7505-7509. | 3.7 | 51 |
| 31 | Standardâ€free kinetic calibration for rapid onâ€site analysis by solidâ€phase microextraction. Journal of Separation Science, 2008, 31, 1167-1172. | 2.5 | 50 |
| 32 | Bacteria capture, lysate clearance, and plasmid DNA extraction using pH-sensitive multifunctional magnetic nanoparticles. Analytical Biochemistry, 2010, 398, 120-122. | 2.4 | 45 |
| 33 | Effects of Polyethylene Glycol on DNA Adsorption and Hybridization on Gold Nanoparticles and Graphene Oxide. Langmuir, 2012, 28, 14330-14337. | 3.5 | 44 |
| 34 | CuO nanoparticles as haloperoxidase-mimics: Chloride-accelerated heterogeneous Cu-Fenton chemistry for H2O2 and glucose sensing. Sensors and Actuators B: Chemical, 2019, 287, 180-184. | 7.8 | 43 |
| 35 | In vivo sampling of environmental organic contaminants in fish by solid-phase microextraction. TrAC - Trends in Analytical Chemistry, 2012, 32, 31-39. | 11.4 | 42 |
| 36 | Parts-per-Million of Polyethylene Glycol as a Non-Interfering Blocking Agent for Homogeneous Biosensor Development. Analytical Chemistry, 2013, 85, 10045-10050. | 6.5 | 42 |

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|----|--|------|-----------|
| 37 | Biodegradable Photothermal and pH Responsive Calcium Carbonate@Phospholipid@Acetalated Dextran Hybrid Platform for Advancing Biomedical Applications. Advanced Functional Materials, 2016, 26, 6158-6169. | 14.9 | 40 |
| 38 | Growth of BaWO4 fishbone-like nanostructures in w/o microemulsion. Journal of Colloid and Interface Science, 2004, 274, 118-121. | 9.4 | 39 |
| 39 | Microfluidics Fabrication of Monodisperse Biocompatible Phospholipid Vesicles for Encapsulation and Delivery of Hydrophilic Drug or Active Compound. Langmuir, 2014, 30, 3905-3912. | 3.5 | 37 |
| 40 | Promoting DNA loading on magnetic nanoparticles using a DNA condensation strategy. Colloids and Surfaces B: Biointerfaces, 2015, 125, 247-254. | 5.0 | 35 |
| 41 | Pre-Equilibrium Solid-Phase Microextraction of Free Analyte in Complex Samples: Correction for Mass Transfer Variation from Protein Binding and Matrix Tortuosity. Analytical Chemistry, 2011, 83, 3365-3370. | 6.5 | 34 |
| 42 | Solid-Phase Microextraction Coupled to LC-ESI-MS/MS: Evaluation and Correction for Matrix-Induced Ionization Suppression/Enhancement for Pharmaceutical Analysis in Biological and Environmental Samples. Analytical Chemistry, 2011, 83, 6532-6538. | 6.5 | 34 |
| 43 | DNA-Functionalized Gold Nanoparticles in Macromolecularly Crowded Polymer Solutions. Journal of Physical Chemistry B, 2012, 116, 13396-13402. | 2.6 | 29 |
| 44 | Dissecting Colloidal Stabilization Factors in Crowded Polymer Solutions by Forming Self-Assembled Monolayers on Gold Nanoparticles. Langmuir, 2013, 29, 6018-6024. | 3.5 | 29 |
| 45 | Synergistic Multimodal Cancer Therapy Using Glucose Oxidase@CuS Nanocomposites. ACS Applied Materials & Samp; Interfaces, 2021, 13, 41464-41472. | 8.0 | 28 |
| 46 | Simplified kinetic calibration of solid-phase microextraction for in vivo pharmacokinetics. Journal of Chromatography A, 2009, 1216, 7664-7669. | 3.7 | 27 |
| 47 | Adsorption of Oligo-DNA on Magnesium Aluminum-Layered Double-Hydroxide Nanoparticle Surfaces: Mechanistic Implication in Gene Delivery. Langmuir, 2017, 33, 3926-3933. | 3.5 | 26 |
| 48 | Rapid enrichment of leucocytes and genomic DNA from blood based on bifunctional core–shell magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 311, 416-420. | 2.3 | 25 |
| 49 | Kinetically-Calibrated Solid-Phase Microextraction Using Label-Free Standards and Its Application for Pharmaceutical Analysis. Analytical Chemistry, 2011, 83, 2371-2377. | 6.5 | 25 |
| 50 | Chemisorption Mechanism of DNA on Mg/Fe Layered Double Hydroxide Nanoparticles: Insights into Engineering Effective SiRNA Delivery Systems. Langmuir, 2016, 32, 2659-2667. | 3.5 | 25 |
| 51 | Non-invasive isolation of rare circulating tumor cells with a DNA mimic of double-sided tape using multimeric aptamers. Nanoscale, 2019, 11, 5879-5883. | 5.6 | 25 |
| 52 | Fabrication of Calcium Phosphateâ€Based Nanocomposites Incorporating DNA Origami, Gold Nanorods, and Anticancer Drugs for Biomedical Applications. Advanced Healthcare Materials, 2017, 6, 1700664. | 7.6 | 24 |
| 53 | A benzene-thermal metathesis route to pure metastable rocksalt GaN. New Journal of Chemistry, 2003, 27, 565-567. | 2.8 | 23 |
| 54 | Temporal Resolution of Solid-Phase Microextraction: Measurement of Real-Time Concentrations within a Dynamic System. Analytical Chemistry, 2010, 82, 9492-9499. | 6.5 | 21 |

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|----|--|--------------|-----------|
| 55 | Chloride-accelerated Cu-Fenton chemistry for biofilm removal. Chemical Communications, 2017, 53, 5862-5865. | 4.1 | 21 |
| 56 | Rapid extraction of genomic DNA from saliva for HLA typing on microarray based on magnetic nanobeads. Journal of Magnetism and Magnetic Materials, 2004, 280, 164-168. | 2.3 | 20 |
| 57 | A simple and cost-effective approach to fabricate tunable length polymeric microneedle patches for controllable transdermal drug delivery. RSC Advances, 2020, 10, 15541-15546. | 3 . 6 | 19 |
| 58 | Hyaluronic-acid-based \hat{l}^2 -cyclodextrin grafted copolymers as biocompatible supramolecular hosts to enhance the water solubility of tocopherol. International Journal of Pharmaceutics, 2020, 586, 119542. | 5.2 | 18 |
| 59 | Depth-Profiling of Environmental Pharmaceuticals in Biological Tissue by Solid-Phase Microextraction. Analytical Chemistry, 2012, 84, 6956-6962. | 6. 5 | 17 |
| 60 | The Adsorption of Dextranase onto Mg/Fe-Layered Double Hydroxide: Insight into the Immobilization. Nanomaterials, 2018, 8, 173. | 4.1 | 16 |
| 61 | Temperature-dependent selective purification of plasmid DNA using magnetic nanoparticles in an RNase-free process. Analytical Biochemistry, 2011, 412, 117-119. | 2.4 | 15 |
| 62 | \hat{l}^2 -Cyclodextrin-grafted hyaluronic acid as a supramolecular polysaccharide carrier for cell-targeted drug delivery. International Journal of Pharmaceutics, 2021, 602, 120602. | 5 . 2 | 15 |
| 63 | Regenerative nanobots based on magnetic layered double hydroxide for azo dye removal and degradation. Chemical Communications, 2017, 53, 10456-10458. | 4.1 | 14 |
| 64 | Calibration of pre-equilibrium HF-LPME and its application to the rapid determination of free analytes in biological fluids. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 980, 28-33. | 2.3 | 13 |
| 65 | Surface interaction of doxorubicin with anatase determines its photodegradation mechanism: insights into removal of waterborne pharmaceuticals by TiO2 nanoparticles. Environmental Science: Nano, 2018, 5, 1027-1035. | 4.3 | 12 |
| 66 | Prevention of doxorubicin sorptive losses in drug delivery studies using polyethylene glycol. RSC Advances, 2015, 5, 25693-25698. | 3.6 | 11 |
| 67 | Cu-DNAzyme facilitates highly sensitive immunoassay. Chinese Chemical Letters, 2019, 30, 1652-1654. | 9.0 | 11 |
| 68 | The mass transfer dynamics of hollow fiber liquid-phase microextraction and its application for rapid analysis of biological samples. Journal of Chromatography A, 2012, 1266, 10-16. | 3.7 | 10 |
| 69 | Graphene oxide and CuO double quantum dot composites (GOQD-q-CuO) with enhanced haloperoxidase-like activity and its application in colorimetric detection of H2O2 and glucose. Materials Chemistry and Physics, 2021, 260, 124126. | 4.0 | 10 |
| 70 | Rapid photodegradation mechanism enabled by broad-spectrum absorbing black anatase and reduced graphene oxide nanocomposites. Applied Surface Science, 2022, 575, 151718. | 6.1 | 10 |
| 71 | Highly Hybridizable Spherical Nucleic Acids by Tandem Glutathione Treatment and Polythymine Spacing. ACS Applied Materials & Samp; Interfaces, 2016, 8, 12504-12513. | 8.0 | 9 |
| 72 | Carrier-mediated solvent bar microextraction coupled with HPLC-DAD for the quantitative analysis of the hydrophilic antihypertensive peptide VLPVPR in human plasma. Analytical Methods, 2018, 10, 69-75. | 2.7 | 9 |

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|----|--|------|-----------|
| 73 | Biofilm eradication by in situ generation of reactive chlorine species on nano-CuO surfaces. Journal of Materials Science, 2020, 55, 11609-11621. | 3.7 | 7 |
| 74 | Determination of ethambutol in biological samples using graphene oxide based dispersive solid-phase microextraction followed by ion mobility spectrometry. International Journal for Ion Mobility Spectrometry, 2020, 23, 19-27. | 1.4 | 6 |
| 75 | Nitrite-enhanced copper-based Fenton reactions for biofilm removal. Chemical Communications, 2021, 57, 5514-5517. | 4.1 | 6 |
| 76 | Anion-exchange membrane-separated electrochemical cells enable the use of sacrificial anodes for hydrogen peroxide detection with enhanced dynamic ranges. Electrochimica Acta, 2017, 246, 707-711. | 5.2 | 4 |
| 77 | Ultrasensitive and Remote SERS Enabled by Oxygen-free Integrated Plasmonic Field Transmission. Cell Reports Physical Science, 2020, 1, 100189. | 5.6 | 4 |
| 78 | Exacerbated Protein Oxidation and Tyrosine Nitration through Nitrite-Enhanced Fenton Chemistry. Journal of Agricultural and Food Chemistry, 2022, 70, 353-359. | 5.2 | 4 |
| 79 | Analysis of Local Anesthetics in Biological Samples via Kinetically Calibrated Liquid-Phase Solvent Bar Micro-Extraction Combined with HPLC. Chromatographia, 2014, 77, 1213-1221. | 1.3 | 3 |
| 80 | Quantitation of polymeric-microneedle-delivered HA15 in tissues using liquid chromatography-tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2020, 185, 113230. | 2.8 | 3 |
| 81 | <scp>Noteworthy</scp> issues for producing and transforming bioproducts by electrodalysis. Journal of Chemical Technology and Biotechnology, 2014, 89, 1437-1444. | 3.2 | 2 |
| 82 | Reduced Graphene Oxide-Cadmium Sulfide Quantum Dots Nanocomposite Based Dispersive Solid Phase Microextraction for Ultra-Trace Determination of Carbamazepine and Phenobarbital. Journal of the Brazilian Chemical Society, $0, , .$ | 0.6 | 1 |
| 83 | Drug Co-Delivery: Biodegradable Photothermal and pH Responsive Calcium Carbonate@Phospholipid@Acetalated Dextran Hybrid Platform for Advancing Biomedical Applications (Adv. Funct. Mater. 34/2016). Advanced Functional Materials, 2016, 26, 6138-6138. | 14.9 | 0 |