

# Xiaoxue Xu

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

2,992  
citations

186265

28  
h-index

161849

54  
g-index

73  
all docs

73  
docs citations

73  
times ranked

5179  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Feasibility evaluation of a Cu-38 Zn alloy for intrauterine devices: In vitro and in vivo studies. Acta Biomaterialia, 2022, 138, 561-575.  | 8.3  | 4         |
| 2  | Feasibility evaluation of a Zn-Cu alloy for intrauterine devices: In vitro and in vivo studies. Acta Biomaterialia, 2022, 142, 374-387.   | 8.3  | 10        |
| 3  | Highly Sensitive H <sub>2</sub> Sensors Based on Co <sub>3</sub> O <sub>4</sub> /PEI-CNTs at Room Temperature. Journal of Nanomaterials, 2022, 2022, 1-8.   | 2.7  | 0         |
| 4  | Recent advances in electrochemical analysis of hydrogen peroxide towards in vivo detection. Process Biochemistry, 2022, 115, 57-69.   | 3.7  | 20        |
| 5  | Topical hemostatic materials for coagulopathy. Journal of Materials Chemistry B, 2022, 10, 1946-1959.   | 5.8  | 11        |
| 6  | Preparation and properties of electrospun NaYF <sub>4</sub> : Yb <sup>3+</sup> , Er <sup>3+</sup> /PLGA-gelatin nanofibers. Journal of Applied Polymer Science, 2022, 139, .  | 2.6  | 3         |
| 7  | Analysis of Ti- and Pb-based particles in the aqueous environment of Melbourne (Australia) via single-particle ICP-MS. Analytical and Bioanalytical Chemistry, 2022, 414, 5671-5681.  | 3.7  | 15        |
| 8  | Effect of protein adsorption on electrospun hemoglobin/gelatin-MWCNTs microbelts modified electrode: Toward electrochemical measurement of hydrogen peroxide. Materials Chemistry and Physics, 2021, 257, 123827.                     | 4.0  | 7         |
| 9  | Bottom-Up Synthesis of Hexagonal Boron Nitride Nanoparticles with Intensity-Stabilized Quantum Emitters. Small, 2021, 17, e2008062.   | 10.0 | 13        |
| 10 | Reconstructing the Surface Structure of NaREF <sub>4</sub> Upconversion Nanocrystals with a Novel K Treatment. Chemistry of Materials, 2021, 33, 2548-2556.   | 6.7  | 5         |
| 11 | A Flexible Implantable Polyimide Catheter Device for Targeted Treatment of Cardiovascular Diseases by Aggregating Magnetic Nanoparticles. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 911-917. | 2.5  | 4         |
| 12 | Effective easing of the side effects of copper intrauterine devices using ultra-fine-grained Cu-0.4Mg alloy. Acta Biomaterialia, 2021, 128, 523-539.  | 8.3  | 11        |
| 13 | Metrology of convex-shaped nanoparticles via soft classification machine learning of TEM images. Nanoscale Advances, 2021, 3, 6956-6964.  | 4.6  | 6         |
| 14 | Optimization of the Discrete Structure in a Pressure Sensor Based on a Multiple-Contact Mechanism to Improve Sensitivity and Nonlinearity. IEEE Sensors Journal, 2021, 21, 21259-21267.   | 4.7  | 3         |
| 15 | Mono- to few-layer non-van der Waals 2D lanthanide-doped NaYF <sub>4</sub> nanosheets with upconversion luminescence. 2D Materials, 2021, 8, 015005.  | 4.4  | 3         |
| 16 | Surface defect-abundant one-dimensional graphitic carbon nitride nanorods boost photocatalytic nitrogen fixation. New Journal of Chemistry, 2020, 44, 20651-20658.  | 2.8  | 55        |
| 17 | Characterization of Upconversion Nanoparticles by Single-Particle ICP-MS Employing a Quadrupole Mass Filter with Increased Bandpass. Analytical Chemistry, 2020, 92, 15007-15016.   | 6.5  | 23        |
| 18 | Porous Upconversion Nanostructures as Bimodal Biomedical Imaging Contrast Agents. Journal of Physical Chemistry C, 2020, 124, 12168-12174.  | 3.1  | 18        |

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|----|--|------|-----------|
| 19 | Video-rate upconversion display from optimized lanthanide ion doped upconversion nanoparticles. <i>Nanoscale</i> , 2020, 12, 18595-18599.  | 5.6  | 28        |
| 20 | Near Infrared Light Triggered Photo/Immuno-Therapy Toward Cancers. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 488.  | 4.1  | 54        |
| 21 | Photonic Nanobeam Cavities with Nanopockets for Efficient Integration of Fluorescent Nanoparticles. <i>Nano Letters</i> , 2020, 20, 2784-2790.   | 9.1  | 16        |
| 22 | Super-Resolution Mapping of Single Nanoparticles inside Tumor Spheroids. <i>Small</i> , 2020, 16, e1905572.  | 10.0 | 32        |
| 23 | A Heterogeneous Integrated MEMS Inertial Switch With Compliant Cantilevers Fixed Electrode and Electrostatic Locking to Realize Stable On-State. <i>Journal of Microelectromechanical Systems</i> , 2019, 28, 977-986. | 2.5  | 11        |
| 24 | Optimising passivation shell thickness of single upconversion nanoparticles using a time-resolved spectrometer. <i>APL Photonics</i> , 2019, 4, 026104.  | 5.7  | 25        |
| 25 | Large-scale dewetting assembly of gold nanoparticles for plasmonic enhanced upconversion nanoparticles. <i>Nanoscale</i> , 2018, 10, 6270-6276.  | 5.6  | 39        |
| 26 | A supramolecular self-assembly strategy for upconversion nanoparticle bioconjugation. <i>Chemical Communications</i> , 2018, 54, 3851-3854.  | 4.1  | 33        |
| 27 | Surface Functionalisation of Upconversion Nanoparticles with Different Moieties for Biomedical Applications. <i>Surfaces</i> , 2018, 1, 96-121.  | 2.3  | 27        |
| 28 | A micro electromagnetically-driven scanner by 2-DOF second-order resonance to extend scanning scale for ultra-thin single-fiber endoscope application. , 2018, , .   |      | 0         |
| 29 | Optimal Sensitizer Concentration in Single Upconversion Nanocrystals. <i>Nano Letters</i> , 2017, 17, 2858-2864.   | 9.1  | 159       |
| 30 | Depth-profiling of Yb <sup>3+</sup> sensitizer ions in NaYF <sub>4</sub> upconversion nanoparticles. <i>Nanoscale</i> , 2017, 9, 7719-7726.  | 5.6  | 36        |
| 31 | Enhanced energy transfer in heterogeneous nanocrystals for near infrared upconversion photocurrent generation. <i>Nanoscale</i> , 2017, 9, 18661-18667.  | 5.6  | 14        |
| 32 | Seed mediated one-pot growth of versatile heterogeneous upconversion nanocrystals for multimodal bioimaging. , 2016, , .   |      | 1         |
| 33 | Emission stability and reversibility of upconversion nanocrystals. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9227-9234.   | 5.5  | 27        |
| 34 | Probing the Interior Crystal Quality in the Development of More Efficient and Smaller Upconversion Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3252-3258.                                   | 4.6  | 42        |
| 35 | Aligned Nanofibers from Polypyrrole/Graphene as Electrodes for Regeneration of Optic Nerve via Electrical Stimulation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 6834-6840.                             | 8.0  | 102       |
| 36 | Three-dimensional controlled growth of monodisperse sub-50 nm heterogeneous nanocrystals. <i>Nature Communications</i> , 2016, 7, 10254.   | 12.8 | 267       |

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|----|---|-----|-----------|
| 37 | Failure modes in high strength and stiffness to weight scaffolds produced by Selective Laser Melting. <i>Materials &amp; Design</i> , 2015, 67, 501-508.  | 5.1 | 76        |
| 38 | Functionalized ZnO@TiO <sub>2</sub> nanorod array film loaded with ZnIn <sub>0.25</sub> Cu <sub>0.02</sub> S <sub>1.395</sub> solid-solution: synthesis, characterization and enhanced visible light driven water splitting. <i>Nanoscale</i> , 2015, 7, 11082-11092. | 5.6 | 18        |
| 39 | A novel biofuel cell based on electrospun collagen-carbon nanotube nanofibres. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 229-235.  | 0.6 | 8         |
| 40 | High specific strength and stiffness structures produced using selective laser melting. <i>Materials &amp; Design</i> , 2014, 63, 783-788.  | 5.1 | 127       |
| 41 | A novel hydrogen peroxide biosensor based on hemoglobin-collagen-CNTs composite nanofibers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 118, 77-82.   | 5.0 | 38        |
| 42 | Electrospun Chitosan-graft-PLGA nanofibres with significantly enhanced hydrophilicity and improved mechanical property. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 674-681.   | 5.0 | 58        |
| 43 | A novel copper/polydimethylsiloxane nanocomposite for copper-containing intrauterine contraceptive devices. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101, 1428-1436.   | 3.4 | 18        |
| 44 | Self-assembled structures of CuO primary crystals synthesized from Cu(CH <sub>3</sub> COO) <sub>2</sub> •NaOH aqueous systems. <i>CrystEngComm</i> , 2012, 14, 5289.  | 2.6 | 44        |
| 45 | Effective inhibition of the early copper ion burst release with ultra-fine grained copper and single crystal copper for intrauterine device application. <i>Acta Biomaterialia</i> , 2012, 8, 886-896.  | 8.3 | 37        |
| 46 | Immobilizing natural macromolecule on PLGA electrospun nanofiber with surface entrapment and entrapment-graft techniques. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 94, 44-50.  | 5.0 | 28        |
| 47 | Formation mechanism of novel two-dimensional single crystalline dendritic copper plates in an aqueous environment. <i>Acta Materialia</i> , 2011, 59, 7177-7188.  | 7.9 | 6         |
| 48 | A novel amperometric hydrogen peroxide biosensor based on immobilized Hb in Pluronic P123-nanographene platelets composite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 427-432.  | 5.0 | 41        |
| 49 | Preparation and characterization of electrospun PLGA/gelatin nanofibers as a potential drug delivery system. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 97-102.  | 5.0 | 191       |
| 50 | A novel amperometric hydrogen peroxide biosensor based on electrospun Hb-collagen composite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 86, 140-145.   | 5.0 | 36        |
| 51 | Carbon nanotube-hydroxyapatite-hemoglobin nanocomposites with high bioelectrocatalytic activity. <i>Bioelectrochemistry</i> , 2010, 78, 124-129.  | 4.6 | 33        |
| 52 | Electrochemistry of bilirubin oxidase at carbon nanotubes. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 249-254.  | 2.5 | 17        |
| 53 | Corrosion and ion release behavior of ultra-fine grained bulk pure copper fabricated by ECAP in Hanks solution as potential biomaterial for contraception. <i>Materials Letters</i> , 2010, 64, 524-527.  | 2.6 | 38        |
| 54 | Lithium storage in hollow spherical ZnFe <sub>2</sub> O <sub>4</sub> as anode materials for lithium ion batteries. <i>Electrochemistry Communications</i> , 2010, 12, 847-850.  | 4.7 | 216       |

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|----|---|------|-----------|
| 55 | A glucose/O <sub>2</sub> biofuel cell base on nanographene platelet-modified electrodes. <i>Electrochemistry Communications</i> , 2010, 12, 869-871.  | 4.7  | 55        |
| 56 | A review on biodegradable polymeric materials for bone tissue engineering applications. <i>Journal of Materials Science</i> , 2009, 44, 5713-5724.  | 3.7  | 529       |
| 57 | Bioelectrochemistry of hemoglobin immobilized on a sodium alginate-multiwall carbon nanotubes composite film. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2352-2357.                                 | 10.1 | 140       |
| 58 | Analysis and elimination of the "skip contact"™ phenomenon in an inertial micro-switch for prolonging its contact time. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 045017.         | 2.6  | 32        |
| 59 | Phase formation of Ni-Ti via solid state reaction. <i>Physica Scripta</i> , 2007, T129, 250-254.  | 2.5  | 58        |
| 60 | Analysis on the Relationship Between Carbon Emission Reduction and Company Market Value Using Resource-Based Theory. <i>International Journal of Simulation: Systems, Science and Technology</i> , 0, , . | 0.0  | 0         |