Xiaoxue Xu

List of Publications by Year
in descending order

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		186265	161849
60	2,992	28	54
papers	citations	h-index	g-index

73	73	73	5179
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on biodegradable polymeric materials for bone tissue engineering applications. Journal of Materials Science, 2009, 44, 5713-5724.	3.7	529
2	Three-dimensional controlled growth of monodisperse sub-50â€‰nm heterogeneous nanocrystals. Nature Communications, 2016, 7, 10254.	12.8	267
3	Lithium storage in hollow spherical ZnFe2O4 as anode materials for lithium ion batteries. Electrochemistry Communications, 2010, 12, 847-850.	4.7	216
4	Preparation and characterization of electrospun PLGA/gelatin nanofibers as a potential drug delivery system. Colloids and Surfaces B: Biointerfaces, 2011, 84, 97-102.	5.0	191
5	Optimal Sensitizer Concentration in Single Upconversion Nanocrystals. Nano Letters, 2017, 17, 2858-2864.	9.1	159
6	Bioelectrochemistry of hemoglobin immobilized on a sodium alginate-multiwall carbon nanotubes composite film. Biosensors and Bioelectronics, 2009, 24, 2352-2357.	10.1	140
7	High specific strength and stiffness structures produced using selective laser melting. Materials & Design, 2014, 63, 783-788.	5.1	127
8	Aligned Nanofibers from Polypyrrole/Graphene as Electrodes for Regeneration of Optic Nerve via Electrical Stimulation. ACS Applied Materials & Interfaces, 2016, 8, 6834-6840.	8.0	102
9	Failure modes in high strength and stiffness to weight scaffolds produced by Selective Laser Melting. Materials & Design, 2015, 67, 501-508.	5.1	76
10	Phase formation of Niâ€“Ti via solid state reaction. Physica Scripta, 2007, T129, 250-254.	2.5	58
11	Electrospun Chitosan-graft-PLGA nanofibres with significantly enhanced hydrophilicity and improved mechanical property. Colloids and Surfaces B: Biointerfaces, 2013, 102, 674-681.	5.0	58
12	A glucose/O2 biofuel cell base on nanographene platelet-modified electrodes. Electrochemistry Communications, 2010, 12, 869-871.	4.7	55
13	Surface defect-abundant one-dimensional graphitic carbon nitride nanorods boost photocatalytic nitrogen fixation. New Journal of Chemistry, 2020, 44, 20651-20658.	2.8	55
14	Near Infrared Light Triggered Photo/Immuno-Therapy Toward Cancers. Frontiers in Bioengineering and Biotechnology, 2020, 8, 488.	4.1	54
15	Self-assembled structures of CuO primary crystals synthesized from Cu(CH3COO)2â€“NaOH aqueous systems. CrystEngComm, 2012, 14, 5289.	2.6	44
16	Probing the Interior Crystal Quality in the Development of More Efficient and Smaller Upconversion Nanoparticles. Journal of Physical Chemistry Letters, 2016, 7, 3252-3258.	4.6	42
17	A novel amperometric hydrogen peroxide biosensor based on immobilized Hb in Pluronic P123-nanographene platelets composite. Colloids and Surfaces B: Biointerfaces, 2011, 84, 427-432.	5.0	41
18	Large-scale dewetting assembly of gold nanoparticles for plasmonic enhanced upconversion nanoparticles. Nanoscale, 2018, 10, 6270-6276.	5.6	39

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19	Corrosion and ion release behavior of ultra-fine grained bulk pure copper fabricated by ECAP in Hanks solution as potential biomaterial for contraception. Materials Letters, 2010, 64, 524-527.	2.6	38
20	A novel hydrogen peroxide biosensor based on hemoglobin-collagen-CNTs composite nanofibers. Colloids and Surfaces B: Biointerfaces, 2014, 118, 77-82.	5.0	38
21	Effective inhibition of the early copper ion burst release with ultra-fine grained copper and single crystal copper for intrauterine device application. Acta Biomaterialia, 2012, 8, 886-896.	8.3	37
22	A novel amperometric hydrogen peroxide biosensor based on electrospun Hbâ€“collagen composite. Colloids and Surfaces B: Biointerfaces, 2011, 86, 140-145.	5.0	36
23	Depth-profiling of Yb³⁺ sensitizer ions in NaYF₄ upconversion nanoparticles. Nanoscale, 2017, 9, 7719-7726.	5.6	36
24	Carbon nanotubeâ€“hydroxyapatiteâ€“hemoglobin nanocomposites with high bioelectrocatalytic activity. Bioelectrochemistry, 2010, 78, 124-129.	4.6	33
25	A supramolecular self-assembly strategy for upconversion nanoparticle bioconjugation. Chemical Communications, 2018, 54, 3851-3854.	4.1	33
26	Analysis and elimination of the â€˜skip contactâ€™ phenomenon in an inertial micro-switch for prolonging its contact time. Journal of Micromechanics and Microengineering, 2009, 19, 045017.	2.6	32
27	Superâ€Resolution Mapping of Single Nanoparticles inside Tumor Spheroids. Small, 2020, 16, e1905572.	10.0	32
28	Immobilizing natural macromolecule on PLGA electrospun nanofiber with surface entrapment and entrapment-graft techniques. Colloids and Surfaces B: Biointerfaces, 2012, 94, 44-50.	5.0	28
29	Video-rate upconversion display from optimized lanthanide ion doped upconversion nanoparticles. Nanoscale, 2020, 12, 18595-18599.	5.6	28
30	Emission stability and reversibility of upconversion nanocrystals. Journal of Materials Chemistry C, 2016, 4, 9227-9234.	5.5	27
31	Surface Functionalisation of Upconversion Nanoparticles with Different Moieties for Biomedical Applications. Surfaces, 2018, 1, 96-121.	2.3	27
32	Optimising passivation shell thickness of single upconversion nanoparticles using a time-resolved spectrometer. APL Photonics, 2019, 4, 026104.	5.7	25
33	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
34	Recent advances in electrochemical analysis of hydrogen peroxide towards in vivo detection. Process Biochemistry, 2022, 115, 57-69.	3.7	20
35	A novel copper/polydimethiylsiloxane nanocomposite for copperâ€containing intrauterine contraceptive devices. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101, 1428-1436.	3.4	18
36	Functionalized ZnO@TiO2nanorod array film loaded with ZnIn0.25Cu0.02S1.395solid-solution: synthesis, characterization and enhanced visible light driven water splitting. Nanoscale, 2015, 7, 11082-11092.	5.6	18

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37	Porous Upconversion Nanostructures as Bimodal Biomedical Imaging Contrast Agents. Journal of Physical Chemistry C, 2020, 124, 12168-12174.	3.1	18
38	Electrochemistry of bilirubin oxidase at carbon nanotubes. Journal of Solid State Electrochemistry, 2010, 14, 249-254.	2.5	17
39	Photonic Nanobeam Cavities with Nanopockets for Efficient Integration of Fluorescent Nanoparticles. Nano Letters, 2020, 20, 2784-2790.	9.1	16
40	Analysis of Ti- and Pb-based particles in the aqueous environment of Melbourne (Australia) via singleÂparticle ICP-MS. Analytical and Bioanalytical Chemistry, 2022, 414, 5671-5681.	3.7	15
41	Enhanced energy transfer in heterogeneous nanocrystals for near infrared upconversion photocurrent generation. Nanoscale, 2017, 9, 18661-18667.	5.6	14
42	Bottomâ€Up Synthesis of Hexagonal Boron Nitride Nanoparticles with Intensityâ€Stabilized Quantum Emitters. Small, 2021, 17, e2008062.	10.0	13
43	A Heterogeneous Integrated MEMS Inertial Switch With Compliant Cantilevers Fixed Electrode and Electrostatic Locking to Realize Stable On-State. Journal of Microelectromechanical Systems, 2019, 28, 977-986.	2.5	11
44	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
45	Topical hemostatic materials for coagulopathy. Journal of Materials Chemistry B, 2022, 10, 1946-1959.	5.8	11
46	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
47	A novel biofuel cell based on electrospun collagen-carbon nanotube nanofibres. Bio-Medical Materials and Engineering, 2014, 24, 229-235.	0.6	8
48	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
49	Formation mechanism of novel two-dimensional single crystalline dendritic copper plates in an aqueous environment. Acta Materialia, 2011, 59, 7177-7188.	7.9	6
50	Metrology of convex-shaped nanoparticles via soft classification machine learning of TEM images. Nanoscale Advances, 2021, 3, 6956-6964.	4.6	6
51	Reconstructing the Surface Structure of NaREF₄ Upconversion Nanocrystals with a Novel K⁺ Treatment. Chemistry of Materials, 2021, 33, 2548-2556.	6.7	5
52	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
53	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
54	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

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55	Mono- to few-layer non-van der Waals 2D lanthanide-doped NaYF₄nanosheets with upconversion luminescence. 2D Materials, 2021, 8, 015005.	4.4	3
56	Preparation and properties of electrospun <scp>NaYF₄</scp>: <scp>Yb³⁺, Er³</scp>⁺â€<scp>PLGA</scp>â€gelatin nanofibers. Journal of Applied Polymer Science, 2022, 139, .	2.6	3
57	Seed mediated one-pot growth of versatile heterogeneous upconversion nanocrystals for multimodal bioimaging. , 2016, , .		1
58	A micro electromagnetically-driven scanner by 2-DOF second-order resonance to extend scanning scale for ultra-thin single-fiber endoscope application. , 2018, , .		0
59	Analysis on the Relationship Between Carbon Emission Reduction and Company Market Value Using Resource-Based Theory. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	0
60	Highly Sensitive H2 Sensors Based on Co3O4/PEI-CNTs at Room Temperature. Journal of Nanomaterials, 2022, 2022, 1-8.	2.7	0