Tiancong

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7498479/publications.pdf

Version: 2024-02-01

71 papers	6,239 citations	57758 44 h-index	85541 71 g-index
71 all docs	71 docs citations	71 times ranked	8854 citing authors

#	Article	IF	Citations
1	In vivo covalent cross-linking of photon-converted rare-earth nanostructures for tumour localization and theranostics. Nature Communications, 2016, 7, 10432.	12.8	376
2	One-Pot Reaction to Synthesize Water-Soluble Magnetite Nanocrystals. Chemistry of Materials, 2004, 16, 1391-1393.	6.7	338
3	Magnetic/Upconversion Fluorescent NaGdF₄:Yb,Er Nanoparticle-Based Dual-Modal Molecular Probes for Imaging Tiny Tumors in Vivo. ACS Nano, 2013, 7, 7227-7240.	14.6	336
4	Receptor-Mediated Delivery of Magnetic Nanoparticles across the Bloodâ€“Brain Barrier. ACS Nano, 2012, 6, 3304-3310.	14.6	272
5	Synthesis and Shape-Tailoring of Copper Sulfide/Indium Sulfide-Based Nanocrystals. Journal of the American Chemical Society, 2008, 130, 13152-13161.	13.7	246
6	Preparation of Water-Soluble Magnetite Nanocrystals from Hydrated Ferric Salts in 2-Pyrrolidone: Mechanism Leading to Fe3O4. Angewandte Chemie - International Edition, 2005, 44, 123-126.	13.8	229
7	NaGdF₄ Nanoparticle-Based Molecular Probes for Magnetic Resonance Imaging of Intraperitoneal Tumor Xenografts in Vivo. ACS Nano, 2013, 7, 330-338.	14.6	207
8	Dual-Ratiometric Target-Triggered Fluorescent Probe for Simultaneous Quantitative Visualization of Tumor Microenvironment Protease Activity and pH in Vivo. Journal of the American Chemical Society, 2018, 140, 211-218.	13.7	207
9	Anchoring Group Effects of Surface Ligands on Magnetic Properties of Fe₃O₄ Nanoparticles: Towards High Performance MRI Contrast Agents. Advanced Materials, 2014, 26, 2694-2698.	21.0	194
10	Are Rareâ€Earth Nanoparticles Suitable for In Vivo Applications?. Advanced Materials, 2014, 26, 6922-6932.	21.0	166
11	Tumor Microenvironmentâ€Triggered Aggregation of Antiphagocytosis ^{99m}Tcâ€Labeled Fe₃O₄ Nanoprobes for Enhanced Tumor Imaging In Vivo. Advanced Materials, 2017, 29, 1701095.	21.0	162
12	Metformin-Induced Stromal Depletion to Enhance the Penetration of Gemcitabine-Loaded Magnetic Nanoparticles for Pancreatic Cancer Targeted Therapy. Journal of the American Chemical Society, 2020, 142, 4944-4954.	13.7	153
13	Small is Smarter: Nano MRI Contrast Agents â€“ Advantages and Recent Achievements. Small, 2016, 12, 556-576.	10.0	147
14	Magnetically Engineered Semiconductor Quantum Dots as Multimodal Imaging Probes. Advanced Materials, 2014, 26, 6367-6386.	21.0	145
15	Coordinatively Unsaturated Fe³⁺ Based Activatable Probes for Enhanced MRI and Therapy of Tumors. Angewandte Chemie - International Edition, 2019, 58, 11088-11096.	13.8	143
16	Facile synthesis of ultrasmall PEGylated iron oxide nanoparticles for dual-contrastT₁- andT₂-weighted magnetic resonance imaging. Nanotechnology, 2011, 22, 245604.	2.6	126
17	Multispectral optoacoustic imaging of dynamic redox correlation and pathophysiological progression utilizing upconversion nanoprobes. Nature Communications, 2019, 10, 1087.	12.8	126
18	Quantitatively Visualizing Tumor-Related Protease Activity in Vivo Using a Ratiometric Photoacoustic Probe. Journal of the American Chemical Society, 2019, 141, 3265-3273.	13.7	123

#	Article	IF	Citations
19	Recent advancements in biocompatible inorganic nanoparticles towards biomedical applications. Biomaterials Science, 2018, 6, 726-745.	5.4	121
20	Superdispersible PVP-Coated Fe₃O₄ Nanocrystals Prepared by a â€œOne-Potâ€• Reaction. Journal of Physical Chemistry B, 2008, 112, 14390-14394.	2.6	115
21	Magnetically engineered Cd-free quantum dots as dual-modality probes for fluorescence/magnetic resonance imaging of tumors. Biomaterials, 2014, 35, 1608-1617.	11.4	110
22	Protease-Activated Ratiometric Fluorescent Probe for pH Mapping of Malignant Tumors. ACS Nano, 2015, 9, 3199-3205.	14.6	102
23	Fluorometric determination of the antibiotic kanamycin by aptamer-induced FRET quenching and recovery between MoS2 nanosheets and carbon dots. Mikrochimica Acta, 2017, 184, 203-210.	5.0	102
24	No king without a crown â€“ impact of the nanomaterial-protein corona on nanobiomedicine. Nanomedicine, 2015, 10, 503-519.	3.3	101
25	pHâ€Responsive Fe(III)â€“Gallic Acid Nanoparticles for In Vivo Photoacousticâ€Imagingâ€Guided Photothermal Therapy. Advanced Healthcare Materials, 2016, 5, 772-780.	7.6	94
26	Molecular Imaging of Vulnerable Atherosclerotic Plaques in Vivo with Osteopontin-Specific Upconversion Nanoprobes. ACS Nano, 2017, 11, 1816-1825.	14.6	91
27	Ultrasensitive in Vivo Detection of Primary Gastric Tumor and Lymphatic Metastasis Using Upconversion Nanoparticles. ACS Nano, 2015, 9, 2120-2129.	14.6	90
28	Biodegradable Inorganic Nanoparticles for Cancer Theranostics: Insights into the Degradation Behavior. Bioconjugate Chemistry, 2020, 31, 315-331.	3.6	82
29	Ultra-small nanocluster mediated synthesis of Nd 3+ -doped core-shell nanocrystals with emission in the second near-infrared window for multimodal imaging of tumor vasculature. Biomaterials, 2018, 175, 30-43.	11.4	81
30	A Novel Type of Dual-Modality Molecular Probe for MR and Nuclear Imaging of Tumor: Preparation, Characterization and in Vivo Application. Molecular Pharmaceutics, 2009, 6, 1074-1082.	4.6	79
31	Surface engineering of gold nanoparticles for in vitro siRNA delivery. Nanoscale, 2012, 4, 5102.	5.6	75
32	MRI/optical dual-modality imaging of vulnerable atherosclerotic plaque with an osteopontin-targeted probe based on Fe 3 O 4 nanoparticles. Biomaterials, 2017, 112, 336-345.	11.4	71
33	Gelification: An Effective Measure for Achieving Differently Sized Biocompatible Fe₃O₄ Nanocrystals through a Single Preparation Recipe. Journal of the American Chemical Society, 2011, 133, 19512-19523.	13.7	66
34	Investigations on the Interactions between Plasma Proteins and Magnetic Iron Oxide Nanoparticles with Different Surface Modifications. Journal of Physical Chemistry C, 2010, 114, 21270-21276.	3.1	64
35	Flow Synthesis of Biocompatible Fe₃O₄ Nanoparticles: Insight into the Effects of Residence Time, Fluid Velocity, and Tube Reactor Dimension on Particle Size Distribution. Chemistry of Materials, 2015, 27, 1299-1305.	6.7	64
36	Ultrasmall superparamagnetic iron oxide nanoparticles: A next generation contrast agent for magnetic resonance imaging. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1740.	6.1	60

#	ARTICLE	IF	CITATIONS
37	Aqueous Manganese-Doped Core/Shell CdTe/ZnS Quantum Dots with Strong Fluorescence and High Relaxivity. Journal of Physical Chemistry C, 2013, 117, 18752-18761.	3.1	58
38	Quantitative Mapping of Glutathione within Intracranial Tumors through Interlocked MRI Signals of a Responsive Nanoprobe. Angewandte Chemie - International Edition, 2021, 60, 8130-8138.	13.8	57
39	Preparation of magnetite nanocrystals with surface reactive moieties by one-pot reaction. Journal of Colloid and Interface Science, 2007, 311, 469-474.	9.4	55
40	In vivo multimodality imaging of miRNA-16 iron nanoparticle reversing drug resistance to chemotherapy in a mouse gastric cancer model. Nanoscale, 2014, 6, 14343-14353.	5.6	54
41	Biodegradable Nanoagents with Short Biological Halfâ€Life for SPECT/PAI/MRI Multimodality Imaging and PTT Therapy of Tumors. Small, 2018, 14, 1702700.	10.0	51
42	In situ111In-doping for achieving biocompatible and non-leachable 111In-labeled Fe3O4 nanoparticles. Chemical Communications, 2014, 50, 2170.	4.1	50
43	Upconversion luminescence nanoparticles-based lateral flow immunochromatographic assay for cephalexin detection. Journal of Materials Chemistry C, 2014, 2, 9637-9642.	5.5	48
44	â€œSmartâ€•Nanoprobes for Visualization of Tumor Microenvironments. Advanced Healthcare Materials, 2018, 7, e1800391.	7.6	47
45	Emitting/Sensitizing Ions Spatially Separated Lanthanide Nanocrystals for Visualizing Tumors Simultaneously through Upâ€•and Downâ€€Conversion Nearâ€Infrared II Luminescence In Vivo. Small, 2019, 15, e1905344.	10.0	41
46	Quantum dot-antisense oligonucleotide conjugates for multifunctional gene transfection, mRNA regulation, and tracking of biological processes. Biomaterials, 2011, 32, 1923-1931.	11.4	40
47	Detection of early primary colorectal cancer with upconversion luminescent NP-based molecular probes. Nanoscale, 2016, 8, 12579-12587.	5.6	36
48	Nanoparticles weaponized with builtâ€in functions for imagingâ€guided cancer therapy. View, 2020, 1, e19.	5.3	35
49	Revisiting the coordination chemistry for preparing manganese oxide nanocrystals in the presence of oleylamine and oleic acid. Nanoscale, 2014, 6, 5918.	5.6	34
50	Differently sized magnetic/upconversion luminescent NaGdF₄:Yb,Er nanocrystals: flow synthesis and solvent effects. Chemical Communications, 2016, 52, 5872-5875.	4.1	28
51	Detection of lymph node metastasis with near-infrared upconversion luminescent nanoprobes. Nanoscale, 2018, 10, 21772-21781.	5.6	28
52	Rational Design and Synthesis of a Metalloproteinase-Activatable Probe for Dual-Modality Imaging of Metastatic Lymph Nodes in Vivo. Journal of Organic Chemistry, 2019, 84, 6126-6133.	3.2	25
53	Chemical Spacer Design for Engineering the Relaxometric Properties of Coreâ€“Shell Structured Rare Earth Nanoparticles. Chemistry of Materials, 2015, 27, 7918-7925.	6.7	24
54	Timely Visualization of the Collaterals Formed during Acute Ischemic Stroke with Fe₃O₄ Nanoparticleâ€based MR Imaging Probe. Small, 2018, 14, e1800573.	10.0	24

#	ARTICLE	IF	CITATIONS
55	An MRI contrast agent based on a zwitterionic metal-chelating polymer for hepatorenal angiography and tumor imaging. Journal of Materials Chemistry B, 2020, 8, 6956-6963.	5.8	24
56	Self-Illuminating Agents for Deep-Tissue Optical Imaging. Frontiers in Bioengineering and Biotechnology, 2019, 7, 326.	4.1	23
57	A Cyclodextrinâ€Hosted Ir(III) Complex for Ratiometric Mapping of Tumor Hypoxia In Vivo. Advanced Science, 2021, 8, 2004044.	11.2	22
58	Doping Lanthanide Nanocrystals With Non-lanthanide Ions to Simultaneously Enhance Up- and Down-Conversion Luminescence. Frontiers in Chemistry, 2020, 8, 832.	3.6	21
59	Detection of toxoplasmic lesions in mouse brain by USPIO-enhanced magnetic resonance imaging. Magnetic Resonance Imaging, 2007, 25, 1442-1448.	1.8	19
60	Ultrasmall PEGylated MnxFe3â^'xO4 (x = 0â€“0.34) nanoparticles: effects of Mn(ii) doping on T1- and T2-weighted magnetic resonance imaging. RSC Advances, 2013, 3, 23454.	3.6	19
61	Anchoring Group-Mediated Radiolabeling of Inorganic Nanoparticlesâ”€A Universal Method for Constructing Nuclear Medicine Imaging Nanoprobes. ACS Applied Materials & Interfaces, 2022, 14, 8838-8846.	8.0	19
62	Coordinatively Unsaturated Fe 3+ Based Activatable Probes for Enhanced MRI and Therapy of Tumors. Angewandte Chemie, 2019, 131, 11205-11213.	2.0	18
63	The Yin and Yang of coordinating co-solvents in the size-tuning of Fe₃O₄ nanocrystals through flow synthesis. Nanoscale, 2017, 9, 18609-18612.	5.6	14
64	An APNâ€Activated Chemiluminescent Probe for Imageâ€Guided Surgery of Malignant Tumors. Advanced Optical Materials, 2022, 10, .	7.3	14
65	A Novel Histochemical Staining Approach for Rareâ€Earthâ€Based Nanoprobes. Advanced Therapeutics, 2018, 1, 1800005.	3.2	11
66	Upconversion luminescence mediated photodynamic therapy through hydrophilically engineered porphyrin. Chemical Engineering and Processing: Process Intensification, 2019, 142, 107551.	3.6	9
67	Recent Advances in Renal Clearable Inorganic Nanoparticles for Cancer Diagnosis. Particle and Particle Systems Characterization, 2021, 38, 2000270.	2.3	8
68	MRI Probes: Timely Visualization of the Collaterals Formed during Acute Ischemic Stroke with Fe₃O₄ Nanoparticleâ€based MR Imaging Probe (Small 23/2018). Small, 2018, 14, 1870108.	10.0	6
69	Quantitative Mapping of Glutathione within Intracranial Tumors through Interlocked MRI Signals of a Responsive Nanoprobe. Angewandte Chemie, 2021, 133, 8211-8219.	2.0	6
70	One-pot synthesis of PVP-coated Ni0.6Fe2.4O4 nanocrystals. Science Bulletin, 2010, 55, 3472-3478.	1.7	5
71	A Pretargeting Strategy Enabled by Bioorthogonal Reactions Towards Advanced Nuclear Medicines: Application and Perspective. Chemical Research in Chinese Universities, 2021, 37, 870-879.	2.6	2