Angelique Y Louie

List of Publications by Year
in descending order

64 papers	4,940 citations	172207 29 h-index	128067 60 g-index
65 all docs	65 docs citations	65 times ranked	6719 citing authors

#	Article	IF	Citations
1	In vivo visualization of gene expression using magnetic resonance imaging. Nature Biotechnology, 2000, 18, 321-325.	9.4	1,097
2	Multimodality Imaging Probes: Design and Challenges. Chemical Reviews, 2010, 110, 3146-3195.	23.0	954
3	Metal Complexes as Enzyme Inhibitors. Chemical Reviews, 1999, 99, 2711-2734.	23.0	278
4	Core/Shell Quantum Dots with High Relaxivity and Photoluminescence for Multimodality Imaging. Journal of the American Chemical Society, 2007, 129, 3848-3856.	6.6	193
5	Synthesis of 64Cu-Labeled Magnetic Nanoparticles for Multimodal Imaging. Bioconjugate Chemistry, 2008, 19, 1496-1504.	1.8	157
6	Paramagnetic, Silicon Quantum Dots for Magnetic Resonance and Two-Photon Imaging of Macrophages. Journal of the American Chemical Society, 2010, 132, 2016-2023.	6.6	148
7	Gold-coated iron nanoparticles: a novel magnetic resonance agent forT1andT2weighted imaging. Nanotechnology, 2006, 17, 640-644.	1.3	120
8	PET Imaging and Biodistribution of Silicon Quantum Dots in Mice. ACS Medicinal Chemistry Letters, 2011, 2, 285-288.	1.3	115
9	A new solution route to hydrogen-terminated silicon nanoparticles: synthesis, functionalization and water stability. Nanotechnology, 2007, 18, 095601.	1.3	114
10	Rapid Size-Controlled Synthesis of Dextran-Coated, ⁶⁴Cu-Doped Iron Oxide Nanoparticles. ACS Nano, 2012, 6, 3461-3467.	7.3	113
11	Multimodal Magneticâ€Resonance/Opticalâ€Imaging Contrast Agent Sensitive to NADH. Angewandte Chemie - International Edition, 2009, 48, 6547-6551.	7.2	96
12	Size-controlled synthesis of dextran sulfate coated iron oxide nanoparticles for magnetic resonance imaging. Nanotechnology, 2007, 18, 035603.	1.3	93
13	Rapid microwave-assisted synthesis of dextran-coated iron oxide nanoparticles for magnetic resonance imaging. Nanotechnology, 2012, 23, 215602.	1.3	83
14	Comparative Evaluation of Substituent Effect on the Photochromic Properties of Spiropyrans and Spirooxazines. Journal of Organic Chemistry, 2016, 81, 8744-8758.	1.7	83
15	Two-way magnetic resonance tuning and enhanced subtraction imaging for non-invasive and quantitative biological imaging. Nature Nanotechnology, 2020, 15, 482-490.	15.6	78
16	Synthesis and Characterization of Manganese-Doped Silicon Nanoparticles:â€‰ Bifunctional Paramagnetic-Optical Nanomaterial. Journal of the American Chemical Society, 2007, 129, 10668-10669.	6.6	74
17	Modulation of T2 Relaxation Time by Light-Induced, Reversible Aggregation of Magnetic Nanoparticles. Journal of the American Chemical Society, 2010, 132, 5934-5935.	6.6	72
18	The Integration of Positron Emission Tomography With Magnetic Resonance Imaging. Proceedings of the IEEE, 2008, 96, 416-438.	16.4	69

#	Article	IF	Citations
19	Activatable T 1 and T 2 Magnetic Resonance Imaging Contrast Agents. Annals of Biomedical Engineering, 2011, 39, 1335-1348.	1.3	68
20	Novel Method to Label Solid Lipid Nanoparticles with ⁶⁴Cu for Positron Emission Tomography Imaging. Bioconjugate Chemistry, 2011, 22, 808-818.	1.8	64
21	Development of Iron-Doped Silicon Nanoparticles As Bimodal Imaging Agents. ACS Nano, 2012, 6, 5596-5604.	7.3	62
22	In Vivo Mapping of Vascular Inflammation Using Multimodal Imaging. PLoS ONE, 2010, 5, e13254.	1.1	55
23	Nanoparticle-based multimodal PET/MRI probes. Nanomedicine, 2015, 10, 1343-1359.	1.7	54
24	Synthesis and characterization of a redox- and light-sensitive MRI contrast agent. Tetrahedron, 2009, 65, 1241-1246.	1.0	51
25	Receptor-targeted iron oxide nanoparticles for molecular MR imaging of inflamed atherosclerotic plaques. Biomaterials, 2011, 32, 7209-7216.	5.7	51
26	Photochromically-controlled, reversibly-activated MRI and optical contrast agent. Chemical Communications, 2007, , 1331.	2.2	44
27	Development of Contrast Agents Targeted to Macrophage Scavenger Receptors for MRI of Vascular Inflammation. Bioconjugate Chemistry, 2006, 17, 538-547.	1.8	40
28	Receptor mediated uptake of a radiolabeled contrast agent sensitive to Î²-galactosidase activity. Nuclear Medicine and Biology, 2003, 30, 261-265.	0.3	38
29	An efficient microwave-assisted synthesis method for the production of water soluble amine-terminated Si nanoparticles. Nanotechnology, 2012, 23, 294006.	1.3	34
30	Systematic chemoenzymatic synthesis of O-sulfated sialyl Lewis x antigens. Chemical Science, 2016, 7, 2827-2831.	3.7	31
31	Firefly Luciferase Mutant with Enhanced Activity and Thermostability. ACS Omega, 2018, 3, 2628-2633.	1.6	29
32	Biological effects of MRI contrast agents: gadolinium retention, potential mechanisms and a role for phosphorus. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20170180.	1.6	28
33	Multimodality PET/MRI agents targeted to activated macrophages. Journal of Biological Inorganic Chemistry, 2014, 19, 247-258.	1.1	25
34	Microwave enhanced silica encapsulation of magnetic nanoparticles. Journal of Materials Chemistry, 2012, 22, 8449.	6.7	23
35	In VivoMRI of Functionalized Iron Oxide Nanoparticles for Brain Inflammation. Contrast Media and Molecular Imaging, 2018, 2018, 1-10.	0.4	23
36	Highly Sensitive and Selective Spiropyran-Based Sensor for Copper(II) Quantification. ACS Omega, 2021, 6, 10776-10789.	1.6	23

#	Article	IF	Citations
37	Positron emission tomography: A novel technique for investigating the biodistribution and transport of nanoparticles. Inhalation Toxicology, 2010, 22, 657-688.	0.8	22
38	Nanoformulations for molecular MRI. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2012, 4, 448-457.	3.3	22
39	Strategies for the development of gadoliniumâ€based â€˜qâ€™â€activatable MRI contrast agents. NMR in Biomedicine, 2013, 26, 781-787.	1.6	22
40	A nephrotoxicity-free, iron-based contrast agent for magnetic resonance imaging of tumors. Biomaterials, 2020, 257, 120234.	5.7	21
41	Size-Stable Solid Lipid Nanoparticles Loaded with Gd-DOTA for Magnetic Resonance Imaging. Bioconjugate Chemistry, 2013, 24, 1455-1467.	1.8	20
42	Photo-Gated Charge Transfer of Organized Assemblies of CdSe Quantum Dots. Langmuir, 2006, 22, 787-793.	1.6	19
43	Reversible Low-Light Induced Photoswitching of Crowned Spiropyran-DO3A Complexed with Gadolinium(III) Ions. Molecules, 2012, 17, 6605-6624.	1.7	14
44	MRI biosensors: A short primer. Journal of Magnetic Resonance Imaging, 2013, 38, 530-539.	1.9	12
45	Antioxidant Sensing by Spiropyrans: Substituent Effects and NMR Spectroscopic Studies. Journal of Physical Chemistry B, 2019, 123, 6799-6809.	1.2	10
46	Preparation of a conjugation-ready thiol responsive molecular switch. Tetrahedron Letters, 2015, 56, 6569-6573.	0.7	9
47	A Metal-Free Method for Producing MRI Contrast at Amyloid-Î². Journal of Alzheimer's Disease, 2016, 55, 1667-1681.	1.2	9
48	Magnetic resonance imaging of tumor-associated-macrophages (TAMs) with a nanoparticle contrast agent. RSC Advances, 2022, 12, 7742-7756.	1.7	9
49	Tracking retention and transport of ultrafine polystyrene in an asthmatic mouse model using positron emission tomography. Experimental Lung Research, 2013, 39, 304-313.	0.5	8
50	EPR and Structural Characterization of Water-Soluble Mn2+-Doped Si Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 1948-1956.	1.5	8
51	Synthesis and Comparative Evaluation of Photoswitchable Magnetic Resonance Imaging Contrast Agents. ACS Omega, 2020, 5, 14759-14766.	1.6	7
52	Design and Characterization of Magnetic Resonance Imaging Gene Reporters. , 2006, 124, 401-417.		7
53	Click-Ready Perfluorocarbon Nanoemulsion for ¹⁹F MRI and Multimodal Cellular Detection. ACS Nanoscience Au, 2022, 2, 102-110.	2.0	7
54	Mapping Gene Expression by MRI. , 2002, , 819-828.		5

#	Article	IF	Citations
55	Magnetic Resonance Imaging Contrast Agents in the Study of Development. Current Topics in Developmental Biology, 2005, 70, 35-56.	1.0	4
56	Biomedical Imaging Graduate Curricula and Courses: Report from the 2005 Whitaker Biomedical Engineering Educational Summit. Annals of Biomedical Engineering, 2006, 34, 239-247.	1.3	4
57	Clinical Needs Finding: Developing the Virtual Experienceâ€"A Case Study. Annals of Biomedical Engineering, 2013, 41, 1899-1912.	1.3	4
58	Quantitative Assessment of Binding Affinities for Nanoparticles Targeted to Vulnerable Plaque. Bioconjugate Chemistry, 2015, 26, 1086-1094.	1.8	4
59	Binary activated iron oxide/SiO₂/NaGdF₄:RE (RE = Ce, and Eu; Yb, and Er) nanoparticles: synthesis, characterization and their potential for dual T₁â€"T₂ weighted imaging. New Journal of Chemistry, 2020, 44, 832-844.	1.4	4
60	Fluorescence resonance energy transfer: FRET studies of ligand binding to cell surface receptors. Journal of Fluorescence, 1998, 8, 13-20.	1.3	3
61	A novel gamma GLM approach to MRI relaxometry comparisons. Magnetic Resonance in Medicine, 2020, 84, 1592-1604.	1.9	3
62	Effect of Structure and Intramolecular Distances on Photoswitchable Magnetic Resonance Imaging Contrast Agents. Journal of Organic Chemistry, 2020, 85, 7333-7341.	1.7	2
63	PET/SPECT/MRI Multimodal Nanoparticles. , 2017, , 205-228.		1
64	Special Issue on Biomedical Engineering in the University of California System. Annals of Biomedical Engineering, 2011, 39, 1155-1155.	1.3	0