

# Angelique Y Louie

## List of Publications by Year in descending order

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64  
papers

4,940  
citations

172457

29  
h-index

128289

60  
g-index

65  
all docs

65  
docs citations

65  
times ranked

6719  
citing authors

#	ARTICLE	IF	CITATIONS
1	Click-Ready Perfluorocarbon Nanoemulsion for <sup>19</sup> F MRI and Multimodal Cellular Detection. ACS Nanoscience Au, 2022, 2, 102-110.	4.8	7
2	Magnetic resonance imaging of tumor-associated-macrophages (TAMs) with a nanoparticle contrast agent. RSC Advances, 2022, 12, 7742-7756.	3.6	9
3	Highly Sensitive and Selective Spiropyran-Based Sensor for Copper(II) Quantification. ACS Omega, 2021, 6, 10776-10789.	3.5	23
4	Binary activated iron oxide/SiO <sub>2</sub> /NaGdF <sub>4</sub> :RE (RE = Ce, and Eu; Yb, and Er) nanoparticles: synthesis, characterization and their potential for dual T <sub>1</sub> weighted imaging. New Journal of Chemistry, 2020, 44, 832-844.	2.8	4
5	A nephrotoxicity-free, iron-based contrast agent for magnetic resonance imaging of tumors. Biomaterials, 2020, 257, 120234.	11.4	21
6	Effect of Structure and Intramolecular Distances on Photoswitchable Magnetic Resonance Imaging Contrast Agents. Journal of Organic Chemistry, 2020, 85, 7333-7341.	3.2	2
7	Synthesis and Comparative Evaluation of Photoswitchable Magnetic Resonance Imaging Contrast Agents. ACS Omega, 2020, 5, 14759-14766.	3.5	7
8	A novel gamma GLM approach to MRI relaxometry comparisons. Magnetic Resonance in Medicine, 2020, 84, 1592-1604.	3.0	3
9	Two-way magnetic resonance tuning and enhanced subtraction imaging for non-invasive and quantitative biological imaging. Nature Nanotechnology, 2020, 15, 482-490.	31.5	78
10	Antioxidant Sensing by Spiropyrans: Substituent Effects and NMR Spectroscopic Studies. Journal of Physical Chemistry B, 2019, 123, 6799-6809.	2.6	10
11	Firefly Luciferase Mutant with Enhanced Activity and Thermostability. ACS Omega, 2018, 3, 2628-2633.	3.5	29
12	<i>In Vivo</i> MRI of Functionalized Iron Oxide Nanoparticles for Brain Inflammation. Contrast Media and Molecular Imaging, 2018, 2018, 1-10.	0.8	23
13	PET/SPECT/MRI Multimodal Nanoparticles. , 2017, , 205-228.		1
14	EPR and Structural Characterization of Water-Soluble Mn <sup>2+</sup> -Doped Si Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 1948-1956.	3.1	8
15	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.	3.4	28
16	A Metal-Free Method for Producing MRI Contrast at Amyloid- $\beta$ . Journal of Alzheimer's Disease, 2016, 55, 1667-1681.	2.6	9
17	Systematic chemoenzymatic synthesis of O-sulfated sialyl Lewis x antigens. Chemical Science, 2016, 7, 2827-2831.	7.4	31
18	Comparative Evaluation of Substituent Effect on the Photochromic Properties of Spiropyrans and Spirooxazines. Journal of Organic Chemistry, 2016, 81, 8744-8758.	3.2	83

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19	Quantitative Assessment of Binding Affinities for Nanoparticles Targeted to Vulnerable Plaque. <i>Bioconjugate Chemistry</i> , 2015, 26, 1086-1094.	3.6	4
20	Nanoparticle-based multimodal PET/MRI probes. <i>Nanomedicine</i> , 2015, 10, 1343-1359.	3.3	54
21	Preparation of a conjugation-ready thiol responsive molecular switch. <i>Tetrahedron Letters</i> , 2015, 56, 6569-6573.	1.4	9
22	Multimodality PET/MRI agents targeted to activated macrophages. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 247-258.	2.6	25
23	Size-Stable Solid Lipid Nanoparticles Loaded with Gd-DOTA for Magnetic Resonance Imaging. <i>Bioconjugate Chemistry</i> , 2013, 24, 1455-1467.	3.6	20
24	MRI biosensors: A short primer. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 530-539.	3.4	12
25	Clinical Needs Finding: Developing the Virtual Experience—A Case Study. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1899-1912.	2.5	4
26	Strategies for the development of gadolinium-based $\text{q}/\text{i}$ -activatable MRI contrast agents. <i>NMR in Biomedicine</i> , 2013, 26, 781-787.	2.8	22
27	Tracking retention and transport of ultrafine polystyrene in an asthmatic mouse model using positron emission tomography. <i>Experimental Lung Research</i> , 2013, 39, 304-313.	1.2	8
28	Reversible Low-Light Induced Photoswitching of Crowned Spiropyran-DO3A Complexed with Gadolinium(III) Ions. <i>Molecules</i> , 2012, 17, 6605-6624.	3.8	14
29	Microwave enhanced silica encapsulation of magnetic nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, 22, 8449.	6.7	23
30	An efficient microwave-assisted synthesis method for the production of water soluble amine-terminated Si nanoparticles. <i>Nanotechnology</i> , 2012, 23, 294006.	2.6	34
31	Development of Iron-Doped Silicon Nanoparticles As Bimodal Imaging Agents. <i>ACS Nano</i> , 2012, 6, 5596-5604.	14.6	62
32	Rapid Size-Controlled Synthesis of Dextran-Coated, $^{64}\text{Cu}$ -Doped Iron Oxide Nanoparticles. <i>ACS Nano</i> , 2012, 6, 3461-3467.	14.6	113
33	Nanoformulations for molecular MRI. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2012, 4, 448-457.	6.1	22
34	Rapid microwave-assisted synthesis of dextran-coated iron oxide nanoparticles for magnetic resonance imaging. <i>Nanotechnology</i> , 2012, 23, 215602.	2.6	83
35	Novel Method to Label Solid Lipid Nanoparticles with $^{64}\text{Cu}$ for Positron Emission Tomography Imaging. <i>Bioconjugate Chemistry</i> , 2011, 22, 808-818.	3.6	64
36	PET Imaging and Biodistribution of Silicon Quantum Dots in Mice. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 285-288.	2.8	115

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37	Receptor-targeted iron oxide nanoparticles for molecular MR imaging of inflamed atherosclerotic plaques. <i>Biomaterials</i> , 2011, 32, 7209-7216.	11.4	51
38	Activatable T 1 and T 2 Magnetic Resonance Imaging Contrast Agents. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1335-1348.	2.5	68
39	Special Issue on Biomedical Engineering in the University of California System. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1155-1155.	2.5	0
40	Modulation of T2 Relaxation Time by Light-Induced, Reversible Aggregation of Magnetic Nanoparticles. <i>Journal of the American Chemical Society</i> , 2010, 132, 5934-5935.	13.7	72
41	Positron emission tomography: A novel technique for investigating the biodistribution and transport of nanoparticles. <i>Inhalation Toxicology</i> , 2010, 22, 657-688.	1.6	22
42	Multimodality Imaging Probes: Design and Challenges. <i>Chemical Reviews</i> , 2010, 110, 3146-3195.	47.7	954
43	Paramagnetic, Silicon Quantum Dots for Magnetic Resonance and Two-Photon Imaging of Macrophages. <i>Journal of the American Chemical Society</i> , 2010, 132, 2016-2023.	13.7	148
44	In Vivo Mapping of Vascular Inflammation Using Multimodal Imaging. <i>PLoS ONE</i> , 2010, 5, e13254.	2.5	55
45	Multimodal Magneticâ€Resonance/Opticalâ€Imaging Contrast Agent Sensitive to NADH. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6547-6551.	13.8	96
46	Synthesis and characterization of a redox- and light-sensitive MRI contrast agent. <i>Tetrahedron</i> , 2009, 65, 1241-1246.	1.9	51
47	The Integration of Positron Emission Tomography With Magnetic Resonance Imaging. <i>Proceedings of the IEEE</i> , 2008, 96, 416-438.	21.3	69
48	Synthesis of <sup>64</sup> Cu-Labeled Magnetic Nanoparticles for Multimodal Imaging. <i>Bioconjugate Chemistry</i> , 2008, 19, 1496-1504.	3.6	157
49	Size-controlled synthesis of dextran sulfate coated iron oxide nanoparticles for magnetic resonance imaging. <i>Nanotechnology</i> , 2007, 18, 035603.	2.6	93
50	Photochromically-controlled, reversibly-activated MRI and optical contrast agent. <i>Chemical Communications</i> , 2007, , 1331.	4.1	44
51	Core/Shell Quantum Dots with High Relaxivity and Photoluminescence for Multimodality Imaging. <i>Journal of the American Chemical Society</i> , 2007, 129, 3848-3856.	13.7	193
52	A new solution route to hydrogen-terminated silicon nanoparticles: synthesis, functionalization and water stability. <i>Nanotechnology</i> , 2007, 18, 095601.	2.6	114
53	Synthesis and Characterization of Manganese-Doped Silicon Nanoparticles:â€Bifunctional Paramagnetic-Optical Nanomaterial. <i>Journal of the American Chemical Society</i> , 2007, 129, 10668-10669.	13.7	74
54	Gold-coated iron nanoparticles: a novel magnetic resonance agent for T1 and T2 weighted imaging. <i>Nanotechnology</i> , 2006, 17, 640-644.	2.6	120

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55	Development of Contrast Agents Targeted to Macrophage Scavenger Receptors for MRI of Vascular Inflammation. Bioconjugate Chemistry, 2006, 17, 538-547.	3.6	40
56	Photo-Gated Charge Transfer of Organized Assemblies of CdSe Quantum Dots. Langmuir, 2006, 22, 787-793.	3.5	19
57	Biomedical Imaging Graduate Curricula and Courses: Report from the 2005 Whitaker Biomedical Engineering Educational Summit. Annals of Biomedical Engineering, 2006, 34, 239-247.	2.5	4
58	Design and Characterization of Magnetic Resonance Imaging Gene Reporters. , 2006, 124, 401-417.		7
59	Magnetic Resonance Imaging Contrast Agents in the Study of Development. Current Topics in Developmental Biology, 2005, 70, 35-56.	2.2	4
60	Receptor mediated uptake of a radiolabeled contrast agent sensitive to $\beta$ -galactosidase activity. Nuclear Medicine and Biology, 2003, 30, 261-265.	0.6	38
61	Mapping Gene Expression by MRI. , 2002, , 819-828.		5
62	In vivo visualization of gene expression using magnetic resonance imaging. Nature Biotechnology, 2000, 18, 321-325.	17.5	1,097
63	Metal Complexes as Enzyme Inhibitors. Chemical Reviews, 1999, 99, 2711-2734.	47.7	278
64	Fluorescence resonance energy transfer: FRET studies of ligand binding to cell surface receptors. Journal of Fluorescence, 1998, 8, 13-20.	2.5	3