

Alan Pradip Jasanoff

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,440
citations

201674

27
h-index

144013

57
g-index

66
all docs

66
docs citations

66
times ranked

5417
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional dissection of neural circuitry using a genetic reporter for fMRI. <i>Nature Neuroscience</i> , 2022, 25, 390-398.	14.8	11
2	Customizing MRI-compatible Multifunctional Neural Interfaces through Fiber Drawing. <i>Advanced Functional Materials</i> , 2021, 31, 2104857.	14.9	21
3	Molecular fMRI of neurochemical signaling. <i>Journal of Neuroscience Methods</i> , 2021, 364, 109372.	2.5	7
4	Single-nanometer iron oxide nanoparticles as tissue-permeable MRI contrast agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	20
5	Hemodynamic molecular imaging of tumor-associated enzyme activity in the living brain. <i>ELife</i> , 2021, 10, .	6.0	1
6	Metallotexaphyrins as MRI-Active Catalytic Antioxidants for Neurodegenerative Disease: A Study on Alzheimer's Disease. <i>CheM</i> , 2020, 6, 703-724.	11.7	17
7	Image-guided neural activity manipulation with a paramagnetic drug. <i>Nature Communications</i> , 2020, 11, 136.	12.8	9
8	Pro-organic radical contrast agents (pro-ORCAs) for real-time MRI of pro-drug activation in biological systems. <i>Polymer Chemistry</i> , 2020, 11, 4768-4779.	3.9	20
9	Molecular Magnetic Resonance Imaging of Nitric Oxide in Biological Systems. <i>ACS Sensors</i> , 2020, 5, 1674-1682.	7.8	18
10	Local and global consequences of reward-evoked striatal dopamine release. <i>Nature</i> , 2020, 580, 239-244.	27.8	55
11	Target-responsive vasoactive probes for ultrasensitive molecular imaging. <i>Nature Communications</i> , 2020, 11, 2399.	12.8	13
12	Neurotransmitter-Responsive Nanosensors for T ₂ -Weighted Magnetic Resonance Imaging. <i>Journal of the American Chemical Society</i> , 2019, 141, 15751-15754.	13.7	30
13	Polyoxazoline-Based Bottlebrush and Brush-Arm Star Polymers via ROMP: Syntheses and Applications as Organic Radical Contrast Agents. <i>ACS Macro Letters</i> , 2019, 8, 473-478.	4.8	55
14	Sensing intracellular calcium ions using a manganese-based MRI contrast agent. <i>Nature Communications</i> , 2019, 10, 897.	12.8	75
15	Wireless resonant circuits for the minimally invasive sensing of biophysical processes in magnetic resonance imaging. <i>Nature Biomedical Engineering</i> , 2019, 3, 69-78.	22.5	20
16	Probing the brain with molecular fMRI. <i>Current Opinion in Neurobiology</i> , 2018, 50, 201-210.	4.2	30
17	Calcium-dependent molecular fMRI using a magnetic nanosensor. <i>Nature Nanotechnology</i> , 2018, 13, 473-477.	31.5	71
18	Triply Loaded Nitroxide Brush-Arm Star Polymers Enable Metal-Free Millimetric Tumor Detection by Magnetic Resonance Imaging. <i>ACS Nano</i> , 2018, 12, 11343-11354.	14.6	56

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19	Bacterial encapsulins as orthogonal compartments for mammalian cell engineering. <i>Nature Communications</i> , 2018, 9, 1990.	12.8	88
20	Exceedingly small iron oxide nanoparticles as positive MRI contrast agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2325-2330.	7.1	374
21	Nitroxide-Based Macromolecular Contrast Agents with Unprecedented Transverse Relaxivity and Stability for Magnetic Resonance Imaging of Tumors. <i>ACS Central Science</i> , 2017, 3, 800-811.	11.3	126
22	Reward magnitude tracking by neural populations in ventral striatum. <i>NeuroImage</i> , 2017, 146, 1003-1015.	4.2	9
23	Molecular imaging with engineered physiology. <i>Nature Communications</i> , 2016, 7, 13607.	12.8	33
24	Molecular fMRI. <i>Journal of Neuroscience</i> , 2016, 36, 4139-4148.	3.6	39
25	Membrane-Permeable Mn(III) Complexes for Molecular Magnetic Resonance Imaging of Intracellular Targets. <i>Journal of the American Chemical Society</i> , 2016, 138, 5483-5486.	13.7	27
26	Molecular fMRI of Serotonin Transport. <i>Neuron</i> , 2016, 92, 754-765.	8.1	37
27	High-Performance Ferrite Nanoparticles through Nonaqueous Redox Phase Tuning. <i>Nano Letters</i> , 2016, 16, 1345-1351.	9.1	84
28	Problems on the back of an envelope. <i>ELife</i> , 2016, 5, .	6.0	18
29	Engineering intracellular biomineralization and biosensing by a magnetic protein. <i>Nature Communications</i> , 2015, 6, 8721.	12.8	51
30	Contrast Agents for Molecular-Level fMRI. <i>Biological Magnetic Resonance</i> , 2015, , 865-894.	0.4	0
31	Molecular-Level Functional Magnetic Resonance Imaging of Dopaminergic Signaling. <i>Science</i> , 2014, 344, 533-535.	12.6	115
32	Magnetic nanosensors optimized for rapid and reversible self-assembly. <i>Chemical Communications</i> , 2014, 50, 3595-3598.	4.1	10
33	Screen-Based Analysis of Magnetic Nanoparticle Libraries Formed Using Peptidic Iron Oxide Ligands. <i>Journal of the American Chemical Society</i> , 2014, 136, 12516-12519.	13.7	5
34	Magneto-fluorescent core-shell supernanoparticles. <i>Nature Communications</i> , 2014, 5, 5093.	12.8	223
35	MRI-Based Detection of Alkaline Phosphatase Gene Reporter Activity Using a Porphyrin Solubility Switch. <i>Chemistry and Biology</i> , 2014, 21, 422-429.	6.0	26
36	Metalloproteinâ€¢based MRI probes. <i>FEBS Letters</i> , 2013, 587, 1021-1029.	2.8	23

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37	Profoundly different prion diseases in knock-in mice carrying single PrP codon substitutions associated with human diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14759-14764.	7.1	47
38	Directed Evolution of Protein-Based Neurotransmitter Sensors for MRI. <i>Methods in Molecular Biology</i> , 2013, 995, 193-205.	0.9	3
39	Bioengineered Probes for Molecular Magnetic Resonance Imaging in the Nervous System. <i>ACS Chemical Neuroscience</i> , 2012, 3, 593-602.	3.5	16
40	Structure-Guided Directed Evolution of Highly Selective P450-Based Magnetic Resonance Imaging Sensors for Dopamine and Serotonin. <i>Journal of Molecular Biology</i> , 2012, 422, 245-262.	4.2	40
41	Metal-Substituted Protein MRI Contrast Agents Engineered for Enhanced Relaxivity and Ligand Sensitivity. <i>Journal of the American Chemical Society</i> , 2011, 133, 649-651.	13.7	83
42	Challenges for molecular neuroimaging with MRI. <i>International Journal of Imaging Systems and Technology</i> , 2010, 20, 71-79.	4.1	18
43	A Secreted Enzyme Reporter System for MRI. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3909-3911.	13.8	26
44	In Vivo Imaging with a Cell-Permeable Porphyrin-Based MRI Contrast Agent. <i>Chemistry and Biology</i> , 2010, 17, 665-673.	6.0	74
45	Directed evolution of a magnetic resonance imaging contrast agent for noninvasive imaging of dopamine. <i>Nature Biotechnology</i> , 2010, 28, 264-270.	17.5	151
46	MRI Sensing Based on the Displacement of Paramagnetic Ions from Chelated Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 2589-2591.	4.0	17
47	Context-dependent perturbation of neural systems in transgenic mice expressing a cytosolic prion protein. <i>NeuroImage</i> , 2010, 49, 2607-2617.	4.2	11
48	Protein Nanoparticles Engineered to Sense Kinase Activity in MRI. <i>Journal of the American Chemical Society</i> , 2009, 131, 2484-2486.	13.7	73
49	Spontaneous Generation of Prion Infectivity in Fatal Familial Insomnia Knockin Mice. <i>Neuron</i> , 2009, 63, 438-450.	8.1	131
50	T2 relaxation induced by clusters of superparamagnetic nanoparticles: Monte Carlo simulations. <i>Magnetic Resonance Imaging</i> , 2008, 26, 994-998.	1.8	128
51	Water-soluble porphyrins as a dual-function molecular imaging platform for MRI and fluorescence zinc sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10780-10785.	7.1	276
52	Bloodless fMRI. <i>Trends in Neurosciences</i> , 2007, 30, 603-610.	8.6	25
53	Genetically controlled MRI contrast mechanisms and their prospects in systems neuroscience research. <i>Magnetic Resonance Imaging</i> , 2007, 25, 1004-1010.	1.8	26
54	Preparation of iron oxide-based calcium sensors for MRI. <i>Nature Protocols</i> , 2007, 2, 2582-2589.	12.0	28

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55	MRI contrast agents for functional molecular imaging of brain activity. <i>Current Opinion in Neurobiology</i> , 2007, 17, 593-600.	4.2	70
56	Dynamic imaging with MRI contrast agents: quantitative considerations. <i>Magnetic Resonance Imaging</i> , 2006, 24, 449-462.	1.8	67
57	Calcium-sensitive MRI contrast agents based on superparamagnetic iron oxide nanoparticles and calmodulin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14707-14712.	7.1	220
58	Functional MRI using molecular imaging agents. <i>Trends in Neurosciences</i> , 2005, 28, 120-126.	8.6	45
59	In vivo oxygen detection using exogenous hemoglobin as a contrast agent in magnetic resonance microscopy. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 609-614.	3.0	19
60	In vivo magnetic resonance microscopy of brain structure in unanesthetized flies. <i>Journal of Magnetic Resonance</i> , 2002, 158, 79-85.	2.1	27