

Robia G Pautler

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,308
citations

186265

28
h-index

302126

39
g-index

40
all docs

40
docs citations

40
times ranked

4714
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo neuronal tract tracing using manganese-enhanced magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 740-748.	3.0	434
2	Tracing Odor-Induced Activation in the Olfactory Bulbs of Mice Using Manganese-Enhanced Magnetic Resonance Imaging. <i>NeuroImage</i> , 2002, 16, 441-448.	4.2	225
3	Nanoshells with Targeted Simultaneous Enhancement of Magnetic and Optical Imaging and Photothermal Therapeutic Response. <i>Advanced Functional Materials</i> , 2009, 19, 3901-3909.	14.9	208
4	Overexpression of SOD-2 reduces hippocampal superoxide and prevents memory deficits in a mouse model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13576-13581.	7.1	197
5	Highly efficient conversion of superoxide to oxygen using hydrophilic carbon clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2343-2348.	7.1	173
6	Statistical diffusion tensor histology reveals regional dysmyelination effects in the shiverer mouse mutant. <i>NeuroImage</i> , 2006, 29, 1058-1065.	4.2	164
7	Tracking of Multimodal Therapeutic Nanocomplexes Targeting Breast Cancer in Vivo. <i>Nano Letters</i> , 2010, 10, 4920-4928.	9.1	157
8	In vivo axonal transport rates decrease in a mouse model of Alzheimer's disease. <i>NeuroImage</i> , 2007, 35, 1401-1408.	4.2	137
9	In vivo trans-synaptic tract tracing from the murine striatum and amygdala utilizing manganese enhanced MRI (MEMRI). <i>Magnetic Resonance in Medicine</i> , 2003, 50, 33-39.	3.0	135
10	In vivo, trans-synaptic tract-tracing utilizing manganese-enhanced magnetic resonance imaging (MEMRI). <i>NMR in Biomedicine</i> , 2004, 17, 595-601.	2.8	132
11	Amyloid β -Induced Impairments in Hippocampal Synaptic Plasticity Are Rescued by Decreasing Mitochondrial Superoxide. <i>Journal of Neuroscience</i> , 2011, 31, 5589-5595.	3.6	132
12	Manganese-enhanced MRI of mouse heart during changes in inotropy. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 884-890.	3.0	121
13	Antioxidant Carbon Particles Improve Cerebrovascular Dysfunction Following Traumatic Brain Injury. <i>ACS Nano</i> , 2012, 6, 8007-8014.	14.6	108
14	A Molecularly Targeted Theranostic Probe for Ovarian Cancer. <i>Molecular Cancer Therapeutics</i> , 2010, 9, 1028-1038.	4.1	77
15	Manganese enhanced MRI (MEMRI): neurophysiological applications. <i>Reviews in the Neurosciences</i> , 2011, 22, 675-94.	2.9	74
16	Hyperglycemia Induces Oxidative Stress and Impairs Axonal Transport Rates in Mice. <i>PLoS ONE</i> , 2010, 5, e13463.	2.5	73
17	Manganese-Enhanced Magnetic Resonance Imaging (MEMRI). <i>Methods in Molecular Biology</i> , 2011, 711, 145-174.	0.9	66
18	In vivo axonal transport deficits in a mouse model of fronto-temporal dementia. <i>NeuroImage: Clinical</i> , 2014, 4, 711-717.	2.7	63

#	ARTICLE	IF	CITATIONS
19	Targeting pancreatic cancer with magneto-fluorescent theranostic gold nanoshells. <i>Nanomedicine</i> , 2014, 9, 1209-1222.	3.3	62
20	Fluorinated Eu ^{III} -based multimodal contrast agent for temperature- and redox-responsive magnetic resonance imaging. <i>Chemical Science</i> , 2017, 8, 8345-8350.	7.4	60
21	Mitochondrial Superoxide Contributes to Blood Flow and Axonal Transport Deficits in the Tg2576 Mouse Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2010, 5, e10561.	2.5	57
22	Mitochondrial superoxide: a key player in Alzheimer's disease. <i>Aging</i> , 2009, 1, 758-761.	3.1	50
23	Mouse MRI: Concepts and Applications in Physiology. <i>Physiology</i> , 2004, 19, 168-175.	3.1	47
24	Biological Applications of Manganese-Enhanced Magnetic Resonance Imaging. , 2006, 124, 365-386.		47
25	Pharmacologic treatment with histone deacetylase 6 inhibitor (ACY-738) recovers Alzheimer's disease phenotype in amyloid precursor protein/presenilin 1 (APP/PS1) mice. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2015, 1, 170-181.	3.7	47
26	The year(s) of the contrast agent "micro-MRI in the new millennium. <i>Current Opinion in Immunology</i> , 2003, 15, 385-392.	5.5	46
27	Preferential uptake of antioxidant carbon nanoparticles by T lymphocytes for immunomodulation. <i>Scientific Reports</i> , 2016, 6, 33808.	3.3	32
28	R-flurbiprofen improves axonal transport in the Tg2576 mouse model of Alzheimer's Disease as determined by MEMRI. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1423-1429.	3.0	30
29	Assessing transneuronal dysfunction utilizing manganese-enhanced MRI (MEMRI). <i>Magnetic Resonance in Medicine</i> , 2008, 60, 169-175.	3.0	28
30	Convergence of Presenilin- and Tau-Mediated Pathways on Axonal Trafficking and Neuronal Function. <i>Journal of Neuroscience</i> , 2010, 30, 13409-13418.	3.6	26
31	Increased Human Wildtype Tau Attenuates Axonal Transport Deficits Caused by Loss of App in Mouse Models. <i>Magnetic Resonance Insights</i> , 2010, 4, MRI.S5237.	2.5	23
32	Use of Magnetization Transfer Contrast MRI to Detect Early Molecular Pathology in Alzheimer's Disease. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 333-338.	3.0	23
33	Eliminating Nox2 reactive oxygen species production protects dystrophic skeletal muscle from pathological calcium influx assessed <i>in vivo</i> by manganese-enhanced magnetic resonance imaging. <i>Journal of Physiology</i> , 2016, 594, 6395-6405.	2.9	17
34	Dual-Mode Tumor Imaging Using Probes That Are Responsive to Hypoxia-Induced Pathological Conditions. <i>Biosensors</i> , 2022, 12, 478.	4.7	10
35	Improvements in a Mouse Model of Alzheimer's Disease through Sod2 Overexpression Are Due to Functional and Not Structural Alterations. <i>Magnetic Resonance Insights</i> , 2012, 5, MRI.S9352.	2.5	9
36	Neuroimaging in Alzheimer's disease: preclinical challenges toward clinical efficacy. <i>Translational Research</i> , 2016, 175, 37-53.	5.0	6

#	ARTICLE	IF	CITATIONS
37	Characterization of a novel MRâ€detectable nanoantioxidant that mitigates the recall immune response. NMR in Biomedicine, 2016, 29, 1436-1444.	2.8	5
38	Magnetic resonance thermometry using a GdIII-based contrast agent. Chemical Communications, 2021, 57, 1770-1773.	4.1	4
39	Maternal stress in Shank3ex4-9 mice increases pup-directed care and alters brain white matter in male offspring. PLoS ONE, 2019, 14, e0224876.	2.5	2
40	Use of a bioengineered antioxidant in mouse models of metabolic syndrome. Expert Opinion on Investigational Drugs, 2020, 29, 209-219.	4.1	1