Eric T Ahrens

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/541686/publications.pdf

Version: 2024-02-01

61 papers	6,122 citations	126907 33 h-index	144013 57 g-index
62 all docs	62 docs citations	62 times ranked	5362 citing authors

#	Article	IF	Citations
1	In vivo visualization of gene expression using magnetic resonance imaging. Nature Biotechnology, 2000, 18, 321-325.	17.5	1,097
2	In vivo imaging platform for tracking immunotherapeutic cells. Nature Biotechnology, 2005, 23, 983-987.	17.5	579
3	A new transgene reporter for in vivo magnetic resonance imaging. Nature Medicine, 2005, 11, 450-454.	30.7	419
4	Tracking immune cells in vivo using magnetic resonance imaging. Nature Reviews Immunology, 2013, 13, 755-763.	22.7	399
5	In Vivo Observation of Cavitation and Embolism Repair Using Magnetic Resonance Imaging. Plant Physiology, 2001, 126, 27-31.	4.8	252
6	19F MRI for quantitative in vivo cell tracking. Trends in Biotechnology, 2010, 28, 363-370.	9.3	252
7	Self-delivering Nanoemulsions for Dual Fluorine-19 MRI and Fluorescence Detection. Journal of the American Chemical Society, 2008, 130, 2832-2841.	13.7	245
8	Fluorineâ€19 MRI for visualization and quantification of cell migration in a diabetes model. Magnetic Resonance in Medicine, 2007, 58, 725-734.	3.0	242
9	Clinical cell therapy imaging using a perfluorocarbon tracer and fluorineâ€19 MRI. Magnetic Resonance in Medicine, 2014, 72, 1696-1701.	3.0	203
10	Fluorineâ€containing nanoemulsions for MRI cell tracking. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 492-501.	6.1	160
11	Non-invasive imaging of transplanted human neural stem cells and ECM scaffold remodeling in the stroke-damaged rat brain by 19F- and diffusion-MRI. Biomaterials, 2012, 33, 2858-2871.	11.4	155
12	In vivo cytometry of antigenâ€specific t cells using ¹⁹F MRI. Magnetic Resonance in Medicine, 2009, 62, 747-753.	3.0	142
13	In vivo MRI cell tracking using perfluorocarbon probes and fluorineâ€19 detection. NMR in Biomedicine, 2013, 26, 860-871.	2.8	139
14	Paramagnetic fluorinated nanoemulsions for sensitive cellular fluorine-19 magnetic resonanceÂimaging. Nature Materials, 2016, 15, 662-668.	27.5	139
15	¹⁹F MRI detection of acute allograft rejection with in vivo perfluorocarbon labeling of immune cells. Magnetic Resonance in Medicine, 2011, 65, 1144-1153.	3.0	108
16	Functional assessment of human dendritic cells labeled for in vivo 19F magnetic resonance imaging cell tracking. Cytotherapy, 2010, 12, 238-250.	0.7	87
17	In vivo magnetic resonance imaging of ferritin-based reporter visualizes native neuroblast migration. NeuroImage, 2012, 59, 1004-1012.	4.2	87
18	MR microscopy of transgenic mice that spontaneously acquire experimental allergic encephalomyelitis. Magnetic Resonance in Medicine, 1998, 40, 119-132.	3.0	85

#	Article	IF	Citations
19	Spinal subpial delivery of AAV9 enables widespread gene silencing and blocks motoneuron degeneration in ALS. Nature Medicine, 2020, 26, 118-130.	30.7	80
20	Fluorine-19 MRI for detection and quantification of immune cell therapy for cancer. , 2018, 6, 105.		75
21	Intracellular pH Measurements Using Perfluorocarbon Nanoemulsions. Journal of the American Chemical Society, 2013, 135, 18445-18457.	13.7	68
22	Inflammation Driven by Overexpression of the Hypoglycosylated Abnormal Mucin 1 (MUC1) Links Inflammatory Bowel Disease and Pancreatitis. Pancreas, 2010, 39, 510-515.	1.1	67
23	Rapid quantification of inflammation in tissue samples using perfluorocarbon emulsion and fluorine-19 nuclear magnetic resonance. BioTechniques, 2011, 50, 229-234.	1.8	61
24	A novel ¹⁹F agent for detection and quantification of human dendritic cells using magnetic resonance imaging. International Journal of Cancer, 2011, 129, 365-373.	5.1	61
25	Accelerated fluorineâ€19 MRI cell tracking using compressed sensing. Magnetic Resonance in Medicine, 2013, 69, 1683-1690.	3.0	60
26	Sex-specific, postpuberty changes in mouse brain structures revealed by three-dimensional magnetic resonance microscopy. NeuroImage, 2004, 22, 1636-1645.	4.2	57
27	Assaying macrophage activity in a murine model of inflammatory bowel disease using fluorine-19 MRI. Laboratory Investigation, 2012, 92, 636-645.	3.7	57
28	In vivo observation of intracellular oximetry in perfluorocarbonâ€labeled glioma cells and chemotherapeutic response in the CNS using fluorineâ€19 MRI. Magnetic Resonance in Medicine, 2010, 64, 1252-1259.	3.0	55
29	Design and characterization of a chimeric ferritin with enhanced iron loading and transverse NMR relaxation rate. Journal of Biological Inorganic Chemistry, 2010, 15, 957-965.	2.6	54
30	Analysis of spatial and temporal dynamics of xylem refilling in Acer rubrum L. using magnetic resonance imaging. Frontiers in Plant Science, 2013, 4, 265.	3.6	52
31	Fluorous-Soluble Metal Chelate for Sensitive Fluorine-19 Magnetic Resonance Imaging Nanoemulsion Probes. ACS Nano, 2019, 13, 143-151.	14.6	43
32	Visualizing arthritic inflammation and therapeutic response by fluorine-19 magnetic resonance imaging (19F MRI). Journal of Inflammation, 2012, 9, 24.	3.4	42
33	Cell penetrating peptide functionalized perfluorocarbon nanoemulsions for targeted cell labeling and enhanced fluorineâ€19 MRI detection. Magnetic Resonance in Medicine, 2020, 83, 974-987.	3.0	40
34	19F spinâ€“lattice relaxation of perfluoropolyethers: Dependence on temperature and magnetic field strength (7.0â€“14.1T). Journal of Magnetic Resonance, 2014, 242, 18-22.	2.1	37
35	Potent spinal parenchymal AAV9-mediated gene delivery by subpial injection in adult rats and pigs. Molecular Therapy - Methods and Clinical Development, 2016, 3, 16046.	4.1	34
36	Visualization of macrophage recruitment in head and neck carcinoma model using fluorineâ€19 magnetic resonance imaging. Magnetic Resonance in Medicine, 2018, 79, 1972-1980.	3.0	31

#	Article	IF	Citations
37	Sensitive and automated detection of iron-oxide-labeled cells using phase image cross-correlation analysis. Magnetic Resonance Imaging, 2008, 26, 618-628.	1.8	30
38	Automated detection and characterization of SPIOâ€labeled cells and capsules using magnetic field perturbations. Magnetic Resonance in Medicine, 2012, 67, 278-289.	3.0	30
39	Fluorine-19 nuclear magnetic resonance of chimeric antigen receptor T cell biodistribution in murine cancer model. Scientific Reports, 2017, 7, 17748.	3.3	29
40	In Vivo Quantification of Inflammation in Experimental Autoimmune Encephalomyelitis Rats Using Fluorine-19 Magnetic Resonance Imaging Reveals Immune Cell Recruitment outside the Nervous System. PLoS ONE, 2015, 10, e0140238.	2.5	29
41	Profound phenotypic variation among mice deficient in the maintenance of genomic imprints. Human Reproduction, 2008, 23, 807-818.	0.9	26
42	Combining perfluorocarbon and superparamagnetic ironâ€oxide cell labeling for improved and expanded applications of cellular MRI. Magnetic Resonance in Medicine, 2015, 73, 367-375.	3.0	22
43	Emergent Fluorous Molecules and Their Uses in Molecular Imaging. Accounts of Chemical Research, 2021, 54, 3060-3070.	15.6	22
44	In Vivo Intracellular Oxygen Dynamics in Murine Brain Glioma and Immunotherapeutic Response of Cytotoxic T Cells Observed by Fluorine-19 Magnetic Resonance Imaging. PLoS ONE, 2013, 8, e59479.	2.5	21
45	Engineered Mitochondrial Ferritin as a Magnetic Resonance Imaging Reporter in Mouse Olfactory Epithelium. PLoS ONE, 2013, 8, e72720.	2.5	20
46	Postpubertal Sex Differentiation of Forebrain Structures and Functions Depend on Transforming Growth Factor-Â. Journal of Neuroscience, 2005, 25, 3870-3880.	3.6	19
47	Gene expression analysis of dendritic cells that prevent diabetes in NOD mice: analysis of chemokines and costimulatory molecules. Journal of Leukocyte Biology, 2011, 90, 539-550.	3.3	19
48	Interspecies chimera between primate embryonic stem cells and mouse embryos: Monkey ESCs engraft into mouse embryos, but not post-implantation fetuses. Stem Cell Research, 2011, 7, 28-40.	0.7	17
49	Î²-Diketonate-Iron(III) Complex: A Versatile Fluorine-19 MRI Signal Enhancement Agent. ACS Applied Bio Materials, 2019, 2, 3836-3842.	4.6	15
50	Paramagnetic Fluorinated Nanoemulsions for in vivo F-19 MRI. Molecular Imaging and Biology, 2020, 22, 665-674.	2.6	14
51	Metallo-Fluorocarbon Nanoemulsion for Inflammatory Macrophage Detection via PET and MRI. Journal of Nuclear Medicine, 2020, 62, jnumed.120.255273.	5.0	14
52	Assessing Oximetry Response to Chimeric Antigen Receptor T-cell Therapy against Glioma with 19F MRI in a Murine Model. Radiology Imaging Cancer, 2021, 3, e200062.	1.6	7
53	Click-Ready Perfluorocarbon Nanoemulsion for ¹⁹F MRI and Multimodal Cellular Detection. ACS Nanoscience Au, 2022, 2, 102-110.	4.8	7
54	Semiquantitative histopathology and 3D magnetic resonance microscopy as collaborative platforms for tissue identification and comparison within teratomas derived from pedigreed primate embryonic stem cells. Stem Cell Research, 2010, 5, 201-211.	0.7	6

#	Article	IF	Citations
55	Enhanced detection of paramagnetic fluorineâ€19 magnetic resonance imaging agents using zero echo time sequence and compressed sensing. NMR in Biomedicine, 2022, 35, e4725.	2.8	5
56	In Vivo Imaging of Autoimmune Disease in Model Systems. Current Topics in Developmental Biology, 2005, 70, 215-238.	2.2	2
57	Clinical cell therapy imaging using a perfluorocarbon tracer and fluorine-19 MRI. Magnetic Resonance in Medicine, 2014, 72, spcone-spcone.	3.0	2
58	Chapter 6. Fluorine-based Contrast Agents. New Developments in NMR, 2017, , 479-498.	0.1	2
59	Preface. Current Topics in Developmental Biology, 2005, 70, xi.	2.2	0
60	Spike localization in Zero Time of Echo (ZTE) magnetic resonance imaging. , 2017, , .		0
61	Overexpression of abnormal epithelial glycoprotein MUC1 is associated with pancreatitis and other extraintestinal complications in inflammatory bowel disease (IBD). FASEB Journal, 2008, 22, 450-450.	0.5	0