Eric T Ahrens

List of Publications by Year
in descending order

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	Click-Ready Perfluorocarbon Nanoemulsion for ¹⁹F MRI and Multimodal Cellular Detection. ACS Nanoscience Au, 2022, 2, 102-110.	4.8	7
2	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
3	Emergent Fluorous Molecules and Their Uses in Molecular Imaging. Accounts of Chemical Research, 2021, 54, 3060-3070.	15.6	22
4	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
5	Paramagnetic Fluorinated Nanoemulsions for in vivo F-19 MRI. Molecular Imaging and Biology, 2020, 22, 665-674.	2.6	14
6	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
7	Spinal subpial delivery of AAV9 enables widespread gene silencing and blocks motoneuron degeneration in ALS. Nature Medicine, 2020, 26, 118-130.	30.7	80
8	Metallo-Fluorocarbon Nanoemulsion for Inflammatory Macrophage Detection via PET and MRI. Journal of Nuclear Medicine, 2020, 62, jnumed.120.255273.	5.0	14
9	Î²-Diketonate-Iron(III) Complex: A Versatile Fluorine-19 MRI Signal Enhancement Agent. ACS Applied Bio Materials, 2019, 2, 3836-3842.	4.6	15
10	Fluorous-Soluble Metal Chelate for Sensitive Fluorine-19 Magnetic Resonance Imaging Nanoemulsion Probes. ACS Nano, 2019, 13, 143-151.	14.6	43
11	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
12	Fluorine-19 MRI for detection and quantification of immune cell therapy for cancer. , 2018, 6, 105.		75
13	Fluorine-19 nuclear magnetic resonance of chimeric antigen receptor T cell biodistribution in murine cancer model. Scientific Reports, 2017, 7, 17748.	3.3	29
14	Spike localization in Zero Time of Echo (ZTE) magnetic resonance imaging. , 2017, , .		0
15	Chapter 6. Fluorine-based Contrast Agents. New Developments in NMR, 2017, , 479-498.	0.1	2
16	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
17	Paramagnetic fluorinated nanoemulsions for sensitive cellular fluorine-19 magnetic resonanceÂimaging. Nature Materials, 2016, 15, 662-668.	27.5	139
18	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

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19	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
20	Clinical cell therapy imaging using a perfluorocarbon tracer and fluorineâ€19 MRI. Magnetic Resonance in Medicine, 2014, 72, 1696-1701.	3.0	203
21	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
22	Clinical cell therapy imaging using a perfluorocarbon tracer and fluorine-19 MRI. Magnetic Resonance in Medicine, 2014, 72, spcone-spcone.	3.0	2
23	Accelerated fluorineâ€19 MRI cell tracking using compressed sensing. Magnetic Resonance in Medicine, 2013, 69, 1683-1690.	3.0	60
24	Tracking immune cells in vivo using magnetic resonance imaging. Nature Reviews Immunology, 2013, 13, 755-763.	22.7	399
25	In vivo MRI cell tracking using perfluorocarbon probes and fluorineâ€19 detection. NMR in Biomedicine, 2013, 26, 860-871.	2.8	139
26	Intracellular pH Measurements Using Perfluorocarbon Nanoemulsions. Journal of the American Chemical Society, 2013, 135, 18445-18457.	13.7	68
27	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
28	Engineered Mitochondrial Ferritin as a Magnetic Resonance Imaging Reporter in Mouse Olfactory Epithelium. PLoS ONE, 2013, 8, e72720.	2.5	20
29	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
30	Assaying macrophage activity in a murine model of inflammatory bowel disease using fluorine-19 MRI. Laboratory Investigation, 2012, 92, 636-645.	3.7	57
31	Visualizing arthritic inflammation and therapeutic response by fluorine-19 magnetic resonance imaging (19F MRI). Journal of Inflammation, 2012, 9, 24.	3.4	42
32	In vivo magnetic resonance imaging of ferritin-based reporter visualizes native neuroblast migration. NeuroImage, 2012, 59, 1004-1012.	4.2	87
33	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
34	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
35	Rapid quantification of inflammation in tissue samples using perfluorocarbon emulsion and fluorine-19 nuclear magnetic resonance. BioTechniques, 2011, 50, 229-234.	1.8	61
36	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

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37	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
38	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
39	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
40	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
41	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
42	19F MRI for quantitative in vivo cell tracking. Trends in Biotechnology, 2010, 28, 363-370.	9.3	252
43	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
44	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
45	Functional assessment of human dendritic cells labeled for in vivo 19F magnetic resonance imaging cell tracking. Cytotherapy, 2010, 12, 238-250.	0.7	87
46	In vivo cytometry of antigenâ€specific t cells using ¹⁹F MRI. Magnetic Resonance in Medicine, 2009, 62, 747-753.	3.0	142
47	Fluorineâ€containing nanoemulsions for MRI cell tracking. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 492-501.	6.1	160
48	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
49	Self-delivering Nanoemulsions for Dual Fluorine-19 MRI and Fluorescence Detection. Journal of the American Chemical Society, 2008, 130, 2832-2841.	13.7	245
50	Profound phenotypic variation among mice deficient in the maintenance of genomic imprints. Human Reproduction, 2008, 23, 807-818.	0.9	26
51	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
52	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
53	In vivo imaging platform for tracking immunotherapeutic cells. Nature Biotechnology, 2005, 23, 983-987.	17.5	579
54	A new transgene reporter for in vivo magnetic resonance imaging. Nature Medicine, 2005, 11, 450-454.	30.7	419

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55	Postpubertal Sex Differentiation of Forebrain Structures and Functions Depend on Transforming Growth Factor-Â. Journal of Neuroscience, 2005, 25, 3870-3880.	3.6	19
56	Preface. Current Topics in Developmental Biology, 2005, 70, xi.	2.2	0
57	In Vivo Imaging of Autoimmune Disease in Model Systems. Current Topics in Developmental Biology, 2005, 70, 215-238.	2.2	2
58	Sex-specific, postpuberty changes in mouse brain structures revealed by three-dimensional magnetic resonance microscopy. NeuroImage, 2004, 22, 1636-1645.	4.2	57
59	In Vivo Observation of Cavitation and Embolism Repair Using Magnetic Resonance Imaging. Plant Physiology, 2001, 126, 27-31.	4.8	252
60	In vivo visualization of gene expression using magnetic resonance imaging. Nature Biotechnology, 2000, 18, 321-325.	17.5	1,097
61	MR microscopy of transgenic mice that spontaneously acquire experimental allergic encephalomyelitis. Magnetic Resonance in Medicine, 1998, 40, 119-132.	3.0	85