Jeff W M Bulte

List of Publications by Year
in descending order

289 papers	25,551 citations	6760 80 h-index	8129 150 g-index
315 all docs	315 docs citations	315 times ranked	21028 citing authors

#	Article	IF	Citations
1	Iron oxide MR contrast agents for molecular and cellular imaging. NMR in Biomedicine, 2004, 17, 484-499.	2.9	1,412
2	Magnetodendrimers allow endosomal magnetic labeling and in vivo tracking of stem cells. Nature Biotechnology, 2001, 19, 1141-1147.	20.8	1,019
3	Safety and Immunological Effects of Mesenchymal Stem Cell Transplantation in Patients With Multiple Sclerosis and Amyotrophic Lateral Sclerosis. Archives of Neurology, 2010, 67, 1187-94.	4.5	822
4	Magnetic resonance tracking of dendritic cells in melanoma patients for monitoring of cellular therapy. Nature Biotechnology, 2005, 23, 1407-1413.	20.8	793
5	In Vivo Magnetic Resonance Imaging of Mesenchymal Stem Cells in Myocardial Infarction. Circulation, 2003, 107, 2290-2293.	9.3	697
6	Dynamic Imaging of Allogeneic Mesenchymal Stem Cells Trafficking to Myocardial Infarction. Circulation, 2005, 112, 1451-1461.	9.3	566
7	Mesoporous Silica-Coated Hollow Manganese Oxide Nanoparticles as Positive <i>T</i>₁ Contrast Agents for Labeling and MRI Tracking of Adipose-Derived Mesenchymal Stem Cells. Journal of the American Chemical Society, 2011, 133, 2955-2961.	14.6	494
8	Fluorine (¹⁹F) MRS and MRI in biomedicine. NMR in Biomedicine, 2011, 24, 114-129.	2.9	435
9	The Interaction of MS-325 with Human Serum Albumin and Its Effect on Proton Relaxation Rates. Journal of the American Chemical Society, 2002, 124, 3152-3162.	14.6	434
10	Feridex labeling of mesenchymal stem cells inhibits chondrogenesis but not adipogenesis or osteogenesis. NMR in Biomedicine, 2004, 17, 513-517.	2.9	415
11	Tracking immune cells in vivo using magnetic resonance imaging. Nature Reviews Immunology, 2013, 13, 755-763.	22.5	409
12	In Vivo MRI Cell Tracking: Clinical Studies. American Journal of Roentgenology, 2009, 193, 314-325.	2.8	389
13	Artificial reporter gene providing MRI contrast based on proton exchange. Nature Biotechnology, 2007, 25, 217-219.	20.8	387
14	Dual-Modality Monitoring of Targeted Intraarterial Delivery of Mesenchymal Stem Cells After Transient Ischemia. Stroke, 2008, 39, 1569-1574.	5.3	375
15	Natural <scp>D</scp>â€glucose as a biodegradable MRI contrast agent for detecting cancer. Magnetic Resonance in Medicine, 2012, 68, 1764-1773.	3.1	297
16	Quantifying exchange rates in chemical exchange saturation transfer agents using the saturation time and saturation power dependencies of the magnetization transfer effect on the magnetic resonance imaging signal (QUEST and QUESP): Ph calibration for poly-L-lysine and a starburst dendrimer. Magnetic Resonance in Medicine, 2006, 55, 836-847.	3.1	289
17	In Vivo Magnetic Resonance Tracking of Magnetically Labeled Cells after Transplantation. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 899-907.	4.6	286
18	Cellular MR Imaging. Molecular Imaging, 2005, 4, 153535002005051.	1.5	262

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19	Intracytoplasmic tagging of cells with ferumoxides and transfection agent for cellular magnetic resonance imaging after cell transplantation: methods and techniques. Transplantation, 2003, 76, 1123-1130.	1.1	239
20	Synthesis and relaxometry of high-generation (G = 5, 7, 9, and 10) PAMAM dendrimer-DOTA-gadolinium chelates. Journal of Magnetic Resonance Imaging, 1999, 9, 348-352.	3.6	234
21	Tracking stem cells using magnetic nanoparticles. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2011, 3, 343-355.	6.8	227
22	Magnetic resonanceâ€"guided, real-time targeted delivery and imaging of magnetocapsules immunoprotecting pancreatic islet cells. Nature Medicine, 2007, 13, 986-991.	30.1	221
23	Positive contrast visualization of iron oxideâ€labeled stem cells using inversionâ€recovery with ONâ€resonant water suppression (IRON). Magnetic Resonance in Medicine, 2007, 58, 1072-1077.	3.1	215
24	Magnetic Intracellular Labeling of Mammalian Cells by Combining (FDA-Approved) Superparamagnetic Iron Oxide MR Contrast Agents and Commonly Used Transfection Agents. Academic Radiology, 2002, 9, S484-S487.	2.4	200
25	Paramagnetic viral nanoparticles as potential high-relaxivity magnetic resonance contrast agents. Magnetic Resonance in Medicine, 2005, 54, 807-812.	3.1	198
26	Sensitive NMR Detection of Cationic-Polymer-Based Gene Delivery Systems Using Saturation Transfer via Proton Exchange. Journal of the American Chemical Society, 2001, 123, 8628-8629.	14.6	197
27	Developing MR reporter genes: promises and pitfalls. NMR in Biomedicine, 2007, 20, 275-290.	2.9	197
28	Improved molecular imaging contrast agent for detection of human thrombus. Magnetic Resonance in Medicine, 2003, 50, 411-416.	3.1	195
29	MRI-detectable pH nanosensors incorporated intoÂhydrogels for inÂvivo sensing of transplanted-cell viability. Nature Materials, 2013, 12, 268-275.	26.6	192
30	Synthesis and Characterization of Soluble Iron Oxideâ^'Dendrimer Composites. Chemistry of Materials, 2001, 13, 2201-2209.	7.1	190
31	New â€œmulticolorâ€•polypeptide diamagnetic chemical exchange saturation transfer (DIACEST) contrast agents for MRI. Magnetic Resonance in Medicine, 2008, 60, 803-812.	3.1	189
32	Furin-mediated intracellular self-assembly of olsalazine nanoparticles for enhanced magnetic resonance imaging and tumour therapy. Nature Materials, 2019, 18, 1376-1383.	26.6	176
33	Monitoring Cell Therapy Using Iron Oxide MR Contrast Agents. Current Pharmaceutical Biotechnology, 2004, 5, 567-584.	1.7	169
34	MR tracking of transplanted cells with â€œpositive contrastâ€•using manganese oxide nanoparticles. Magnetic Resonance in Medicine, 2008, 60, 1-7.	3.1	165
35	Magnetoferritin: Characterization of a novel superparamagnetic MR contrast agent. Journal of Magnetic Resonance Imaging, 1994, 4, 497-505.	3.6	164
36	Preparation of Magnetically Labeled Cells for Cell Tracking by Magnetic Resonance Imaging. Methods in Enzymology, 2004, 386, 275-299.	1.7	164

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37	Applicability and limitations of MR tracking of neural stem cells with asymmetric cell division and rapid turnover: The case of the Shiverer dysmyelinated mouse brain. Magnetic Resonance in Medicine, 2007, 58, 261-269.	3.1	160
38	The relation between brain iron and NMR relaxation times: An invitro study. Magnetic Resonance in Medicine, 1996, 35, 56-61.	3.1	159
39	Chondrogenic differentiation of mesenchymal stem cells is inhibited after magnetic labeling with ferumoxides. Blood, 2004, 104, 3410-3413.	1.4	148
40	In vivo â€œhot spotâ€• MR imaging of neural stem cells using fluorinated nanoparticles. Magnetic Resonance in Medicine, 2008, 60, 1506-1511.	3.1	145
41	Superparamagnetic iron oxides as MPI tracers: A primer and review of early applications. Advanced Drug Delivery Reviews, 2019, 138, 293-301.	14.3	143
42	Specific MR imaging of human lymphocytes by monoclonal antibodyâ€guided dextranâ€magnetite particles. Magnetic Resonance in Medicine, 1992, 25, 148-157.	3.1	142
43	Selective MR imaging of labeled human peripheral blood mononuclear cells by liposome mediated incorporation of dextran-magnetite particles. Magnetic Resonance in Medicine, 1993, 29, 32-37.	3.1	141
44	MR microscopy of magnetically labeled neurospheres transplanted into the Lewis EAE rat brain. Magnetic Resonance in Medicine, 2003, 50, 201-205.	3.1	140
45	Relaxometry and magnetometry of ferritin. Magnetic Resonance in Medicine, 1998, 40, 227-235.	3.1	131
46	Cell Size and Velocity of Injection are Major Determinants of the Safety of Intracarotid Stem Cell Transplantation. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 921-927.	4.6	131
47	Hot spot MRI emerges from the background. Nature Biotechnology, 2005, 23, 945-946.	20.8	130
48	Combination of transfection agents and magnetic resonance contrast agents for cellular imaging: Relationship between relaxivities, electrostatic forces, and chemical composition. Magnetic Resonance in Medicine, 2003, 50, 275-282.	3.1	129
49	The survival of engrafted neural stem cells within hyaluronic acid hydrogels. Biomaterials, 2013, 34, 5521-5529.	11.8	129
50	Imaging of cellular therapies. Advanced Drug Delivery Reviews, 2010, 62, 1080-1093.	14.3	127
51	Trimodal Gadolinium-Gold Microcapsules Containing Pancreatic Islet Cells Restore Normoglycemia in Diabetic Mice and Can Be Tracked by Using US, CT, and Positive-Contrast MR Imaging. Radiology, 2011, 260, 790-798.	8.8	127
52	Oral Administration of Salecan-Based Hydrogels for Controlled Insulin Delivery. Journal of Agricultural and Food Chemistry, 2018, 66, 10479-10489.	5.3	119
53	Quantitative â€œHot-Spotâ€• Imaging of Transplanted Stem Cells Using Superparamagnetic Tracers and Magnetic Particle Imaging. Tomography, 2015, 1, 91-97.	1.9	118
54	Sensitive CEST agents based on nucleic acid imino proton exchange: Detection of poly(rU) and of a dendrimer-poly(rU) model for nucleic acid delivery and pharmacology. Magnetic Resonance in Medicine, 2003, 49, 998-1005.	3.1	117

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55	Noninvasive Detection of Macrophage-Rich Atherosclerotic Plaque in Hyperlipidemic Rabbits Using â€œPositive Contrastâ€• Magnetic Resonance Imaging. Journal of the American College of Cardiology, 2008, 52, 483-491.	5.6	111
56	Frequency dependence of MR relaxation times II. Iron oxides. Journal of Magnetic Resonance Imaging, 1993, 3, 641-648.	3.6	107
57	Dual in vivo magnetic resonance evaluation of magnetically labeled mouse embryonic stem cells and cardiac function at 1.5 t. Magnetic Resonance in Medicine, 2006, 55, 203-209.	3.1	106
58	Longâ€term MR cell tracking of neural stem cells grafted in immunocompetent versus immunodeficient mice reveals distinct differences in contrast between live and dead cells. Magnetic Resonance in Medicine, 2011, 65, 564-574.	3.1	105
59	In vivo multicolor molecular MR imaging using diamagnetic chemical exchange saturation transfer liposomes. Magnetic Resonance in Medicine, 2012, 67, 1106-1113.	3.1	105
60	MRI/SPECT/Fluorescent Triâ€Modal Probe for Evaluating the Homing and Therapeutic Efficacy of Transplanted Mesenchymal Stem Cells in a Rat Ischemic Stroke Model. Advanced Functional Materials, 2015, 25, 1024-1034.	16.5	105
61	Highâ€throughput screening of chemical exchange saturation transfer MR contrast agents. Contrast Media and Molecular Imaging, 2010, 5, 162-170.	1.0	103
62	Fluorocapsules for Improved Function, Immunoprotection, and Visualization of Cellular Therapeutics with MR, US, and CT Imaging. Radiology, 2011, 258, 182-191.	8.8	101
63	In Vivo Micro-CT Imaging of Human Mesenchymal Stem Cells Labeled with Gold-Poly-<scp>l</scp>-Lysine Nanocomplexes. Advanced Functional Materials, 2017, 27, 1604213.	16.5	100
64	Gene expression profiling reveals early cellular responses to intracellular magnetic labeling with superparamagnetic iron oxide nanoparticles. Magnetic Resonance in Medicine, 2010, 63, 1031-1043.	3.1	99
65	Imaging of stem cells using MRI. Basic Research in Cardiology, 2008, 103, 105-113.	6.0	97
66	Relaxometry and magnetometry of the MR contrast agent MION-46L. Magnetic Resonance in Medicine, 1999, 42, 379-384.	3.1	95
67	Preparation, relaxometry, and biokinetics of PEGylated magnetoliposomes as MR contrast agent. Journal of Magnetism and Magnetic Materials, 1999, 194, 204-209.	2.3	92
68	Clinical Tracking of Cell Transfer and Cell Transplantation: Trials and Tribulations. Radiology, 2018, 289, 604-615.	8.8	92
69	Hepatic hemosiderosis in non-human primates: Quantification of liver iron using different field strengths. Magnetic Resonance in Medicine, 1997, 37, 530-536.	3.1	89
70	Serial in vivo MR tracking of magnetically labeled neural spheres transplanted in chronic EAE mice. Magnetic Resonance in Medicine, 2007, 57, 164-171.	3.1	89
71	Cell motility of neural stem cells is reduced after SPIOâ€labeling, which is mitigated after exocytosis. Magnetic Resonance in Medicine, 2013, 69, 255-262.	3.1	89
72	The NIH Somatic Cell Genome Editing program. Nature, 2021, 592, 195-204.	36.2	89

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73	In vivo magnetic resonance tracking of olfactory ensheathing glia grafted into the rat spinal cord. Experimental Neurology, 2004, 187, 509-516.	4.1	88
74	In vivo and ex vivo MRI detection of localized and disseminated neural stem cell grafts in the mouse brain. NeuroImage, 2005, 26, 744-754.	4.4	88
75	T1 andT2 of ferritin solutions: Effect of loading factor. Magnetic Resonance in Medicine, 1996, 36, 61-65.	3.1	85
76	Short- vs. long-circulating magnetoliposomes as bone marrow-seeking MR contrast agents. Journal of Magnetic Resonance Imaging, 1999, 9, 329-335.	3.6	84
77	MR-trackable intramyocardial injection catheter. Magnetic Resonance in Medicine, 2004, 51, 1163-1172.	3.1	84
78	Sensitivity of magnetic resonance imaging of dendritic cells for in vivo tracking of cellular cancer vaccines. International Journal of Cancer, 2006, 120, 978-984.	5.4	84
79	Monitoring Enzyme Activity Using a Diamagnetic Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agent. Journal of the American Chemical Society, 2011, 133, 16326-16329.	14.6	84
80	Dy-DTPA derivatives as relaxation agents for very high field MRI: The beneficial effect of slow water exchange on the transverse relaxivities. Magnetic Resonance in Medicine, 2002, 47, 1121-1130.	3.1	83
81	Use of perfluorocarbon nanoparticles for nonâ€invasive multimodal cell tracking of human pancreatic islets. Contrast Media and Molecular Imaging, 2011, 6, 251-259.	1.0	83
82	Transforming Thymidine into a Magnetic Resonance Imaging Probe for Monitoring Gene Expression. Journal of the American Chemical Society, 2013, 135, 1617-1624.	14.6	82
83	Magnetoelectroporation: improved labeling of neural stem cells and leukocytes for cellular magnetic resonance imaging using a single FDA-approved agent. Nanomedicine: Nanotechnology, Biology, and Medicine, 2006, 2, 89-94.	3.5	81
84	Seeing Stem Cells at Work In Vivo. Stem Cell Reviews and Reports, 2014, 10, 127-144.	5.5	81
85	Accelerating stem cell trials for Alzheimer's disease. Lancet Neurology, The, 2016, 15, 219-230.	10.4	80
86	Magnetic resonance imaging of brain iron in health and disease. Journal of the Neurological Sciences, 1995, 134, 19-26.	0.6	79
87	Study of relapsing remitting experimental allergic encephalomyelitis SJL mouse model using MION-46L enhanced in vivo MRI: Early histopathological correlation. Journal of Neuroscience Research, 1998, 52, 549-558.	3.0	78
88	Advances in using MRI probes and sensors for <i>in vivo</i> cell tracking as applied to regenerative medicine. DMM Disease Models and Mechanisms, 2015, 8, 323-336.	2.4	78
89	Label-free CEST MRI Detection of Citicoline-Liposome Drug Delivery in Ischemic Stroke. Theranostics, 2016, 6, 1588-1600.	9.9	78
90	Magnetic Resonance Imaging of Ferumoxide-Labeled Mesenchymal Stem Cells Seeded on Collagen Scaffoldsâ€"Relevance to Tissue Engineering. Tissue Engineering, 2006, 12, 2765-2775.	4.9	77

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91	Multifunctional Capsuleâ€inâ€Capsules for Immunoprotection and Trimodal Imaging. Angewandte Chemie - International Edition, 2011, 50, 2317-2321.	14.8	77
92	MR imaging of lineage-restricted neural precursors following transplantation into the adult spinal cord. Experimental Neurology, 2006, 201, 49-59.	4.1	76
93	Effect of MOG sensitization on somatosensory evoked potential in Lewis rats. Journal of the Neurological Sciences, 2009, 284, 81-89.	0.6	72
94	Molecular factors that determine Curie spin relaxation in dysprosium complexes. Magnetic Resonance in Medicine, 2001, 46, 917-922.	3.1	71
95	Single ¹⁹F Probe for Simultaneous Detection of Multiple Metal Ions Using miCEST MRI. Journal of the American Chemical Society, 2015, 137, 78-81.	14.6	71
96	Comparison of t2 relaxation in blood, brain, and ferritin. Journal of Magnetic Resonance Imaging, 1995, 5, 446-450.	3.6	70
97	Personalized nanomedicine advancements for stem cell tracking. Advanced Drug Delivery Reviews, 2012, 64, 1488-1507.	14.3	70
98	Metal Ion Sensing Using Ion Chemical Exchange Saturation Transfer¹⁹F Magnetic Resonance Imaging. Journal of the American Chemical Society, 2013, 135, 12164-12167.	14.6	67
99	Human Protamine-1 as an MRI Reporter Gene Based on Chemical Exchange. ACS Chemical Biology, 2014, 9, 134-138.	3.6	67
100	Evoked potential and behavioral outcomes for experimental autoimmune encephalomyelitis in Lewis rats. Neurological Sciences, 2010, 31, 595-601.	2.0	66
101	Label-free imaging of gelatin-containing hydrogel scaffolds. Biomaterials, 2015, 42, 144-150.	11.8	66
102	Size-Induced Enhancement of Chemical Exchange Saturation Transfer (CEST) Contrast in Liposomes. Journal of the American Chemical Society, 2008, 130, 5178-5184.	14.6	65
103	Real-time MRI for precise and predictable intra-arterial stem cell delivery to the central nervous system. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2346-2358.	4.6	65
104	Magnetic Resonance Imaging of Cell Surface Receptors Using Targeted Contrast Agents. Current Pharmaceutical Biotechnology, 2004, 5, 485-494.	1.7	64
105	Magnetoliposomes as Contrast Agents. Methods in Enzymology, 2003, 373, 175-198.	1.7	62
106	Label-free in vivo molecular imaging of underglycosylated mucin-1 expression in tumour cells. Nature Communications, 2015, 6, 6719.	13.2	62
107	Human glial-restricted progenitors survive, proliferate, and preserve electrophysiological function in rats with focal inflammatory spinal cord demyelination. Glia, 2011, 59, 499-510.	5.3	61
108	Multimodal imaging of sustained drug release from 3-D poly(propylene fumarate) (PPF) scaffolds. Journal of Controlled Release, 2011, 156, 239-245.	10.2	60

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109	Monitoring Stem Cell Therapy in Vivo Using Magnetodendrimers as a New Class of Cellular MR Contrast Agents. Academic Radiology, 2002, 9, S332-S335.	2.4	58
110	Noninvasive monitoring of stem cell transfer for muscle disorders. Magnetic Resonance in Medicine, 2004, 51, 273-277.	3.1	58
111	MRI biosensor for protein kinase A encoded by a single synthetic gene. Magnetic Resonance in Medicine, 2012, 68, 1919-1923.	3.1	56
112	Long-Term MRI Cell Tracking after Intraventricular Delivery in a Patient with Global Cerebral Ischemia and Prospects for Magnetic Navigation of Stem Cells within the CSF. PLoS ONE, 2014, 9, e97631.	2.5	55
113	A diaCEST MRI approach for monitoring liposomal accumulation in tumors. Journal of Controlled Release, 2014, 180, 51-59.	10.2	53
114	Use of MR Cell Tracking to Evaluate Targeting of Glial Precursor Cells to Inflammatory Tissue by Exploiting the Very Late Antigen-4 Docking Receptor. Radiology, 2012, 265, 175-185.	8.8	52
115	CEST phase mapping using a length and offset varied saturation (LOVARS) scheme. Magnetic Resonance in Medicine, 2012, 68, 1074-1086.	3.1	51
116	Highly efficient magnetic labelling allows MRI tracking of the homing of stem cellâ€derived extracellular vesicles following systemic delivery. Journal of Extracellular Vesicles, 2021, 10, e12054.	12.4	51
117	In Vivo Imaging of Composite Hydrogel Scaffold Degradation Using CEST MRI and Twoâ€Color NIR Imaging. Advanced Functional Materials, 2019, 29, 1903753.	16.5	50
118	Tagging of T cells with superparamagnetic iron oxide: Uptake kinetics and relaxometry. Academic Radiology, 1996, 3, S301-S303.	2.4	48
119	Biotargeted Nanomedicines for Cancer: Six Tenets Before You Begin. Nanomedicine, 2013, 8, 299-308.	3.5	48
120	Carbon Dots as a New Class of Diamagnetic Chemical Exchange Saturation Transfer (diaCEST) MRI Contrast Agents. Angewandte Chemie - International Edition, 2019, 58, 9871-9875.	14.8	48
121	Clinical magnetic hyperthermia requires integrated magnetic particle imaging. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1779.	6.8	48
122	Comparison of red-shifted firefly luciferase Ppy RE9 and conventional Luc2 as bioluminescence imaging reporter genes for <italic>in vivo</italic> imaging of stem cells. Journal of Biomedical Optics, 2012, 17, 016004.	2.8	47
123	Tumorâ€specific expression and detection of a CEST reporter gene. Magnetic Resonance in Medicine, 2015, 74, 544-549.	3.1	47
124	Frequency dependence of MR relaxation times I. Paramagnetic ions. Journal of Magnetic Resonance Imaging, 1993, 3, 637-640.	3.6	46
125	Conserved fate and function of ferumoxidesâ€labeled neural precursor cells in vitro and in vivo. Journal of Neuroscience Research, 2010, 88, 936-944.	3.0	46
126	Dysprosium-DOTA-PAMAM Dendrimers as Macromolecular T2 Contrast Agents. Investigative Radiology, 1998, 33, 841-845.	6.3	45

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127	Dextran-magnetite particles: Contrast-enhanced MRI of bloodâ€“brain barrier disruption in a rat model. Magnetic Resonance in Medicine, 1992, 23, 215-223.	3.1	44
128	Stem cell profiling by nuclear magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2006, 56, 666-670.	3.1	44
129	Imaging of pancreatic islet cells. Diabetes/Metabolism Research and Reviews, 2011, 27, 761-766.	4.2	44
130	Molecular Engineering of Nonmetallic Biosensors for CEST MRI. ACS Chemical Biology, 2015, 10, 1160-1170.	3.6	44
131	Two decades of dendrimers as versatile <scp>MRI</scp> agents: a tale with and without metals. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2018, 10, e1496.	6.8	44
132	Direct saturation MRI: Theory and application to imaging brain iron. Magnetic Resonance in Medicine, 2009, 62, 384-393.	3.1	42
133	Magnetic resonance imaging of cells in experimental disease models. Progress in Nuclear Magnetic Resonance Spectroscopy, 2009, 55, 61-77.	8.1	42
134	Microcapsules with intrinsic barium radiopacity for immunoprotection and X-ray/CT imaging of pancreatic islet cells. Biomaterials, 2012, 33, 4681-4689.	11.8	42
135	Structure-Specific Patterns of Neural Stem Cell Engraftment After Transplantation in the Adult Mouse Brain. Human Gene Therapy, 2006, 17, 693-704.	3.0	41
136	Noninvasive imaging of infection after treatment with tumorâ€homing bacteria using Chemical Exchange Saturation Transfer (CEST) MRI. Magnetic Resonance in Medicine, 2013, 70, 1690-1698.	3.1	41
137	Supercharged green fluorescent proteins as bimodal reporter genes for CEST MRI and optical imaging. Chemical Communications, 2015, 51, 4869-4871.	4.2	41
138	Magnetoferritin. Investigative Radiology, 1994, 29, S214-S216.	6.3	40
139	Magnetic nanoparticles as markers for cellular MR imaging. Journal of Magnetism and Magnetic Materials, 2005, 289, 423-427.	2.3	40
140	Transplanted adipose-derived stem cells can be short-lived yet accelerate healing of acid-burn skin wounds: a multimodal imaging study. Scientific Reports, 2017, 7, 4644.	3.4	40
141	In Vivo Imaging of Stem Cells and Beta Cells Using Direct Cell Labeling and Reporter Gene Methods. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1025-1030.	4.7	39
142	Immunomodulation by Transplanted Human Embryonic Stem Cellâ€Derived Oligodendroglial Progenitors in Experimental Autoimmune Encephalomyelitis. Stem Cells, 2012, 30, 2820-2829.	3.6	38
143	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.	2.2	38
144	Diamagnetic chemical exchange saturation transfer (<scp>diaCEST</scp>) liposomes: physicochemical properties and imaging applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2014, 6, 111-124.	6.8	38

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145	Fluorine-19 Labeling of Stromal Vascular Fraction Cells for Clinical Imaging Applications. Stem Cells Translational Medicine, 2015, 4, 1472-1481.	3.5	37
146	Design of Targeted Cardiovascular Molecular Imaging Probes. Journal of Nuclear Medicine, 2010, 51, 3S-17S.	6.1	36
147	Furinâ€Mediated Selfâ€Assembly of Olsalazine Nanoparticles for Targeted Raman Imaging of Tumors. Angewandte Chemie - International Edition, 2021, 60, 3923-3927.	14.8	36
148	Initial assessment of magnetoferritin biokinetics and proton relaxation enhancement in rats. Academic Radiology, 1995, 2, 871-878.	2.4	35
149	Microencapsulated cell tracking. NMR in Biomedicine, 2013, 26, 850-859.	2.9	35
150	Non-invasive temperature mapping using temperature-responsive water saturation shift referencing (T-WASSR) MRI. NMR in Biomedicine, 2014, 27, 320-331.	2.9	35
151	Transplanted human glial-restricted progenitors can rescue the survival of dysmyelinated mice independent of the production of mature, compact myelin. Experimental Neurology, 2017, 291, 74-86.	4.1	35
152	Characterization of tumor vascular permeability using natural dextrans and CEST MRI. Magnetic Resonance in Medicine, 2018, 79, 1001-1009.	3.1	35
153	Feridex-Labeled Mesenchymal Stem Cells: Cellular Differentiation and MR Assessment in a Canine Myocardial Infarction Model. Academic Radiology, 2005, 12, S2-S6.	2.4	33
154	Feasibility of concurrent dual contrast enhancement using CEST contrast agents and superparamagnetic iron oxide particles. Magnetic Resonance in Medicine, 2009, 61, 970-974.	3.1	33
155	X-Ray-Visible Microcapsules Containing Mesenchymal Stem Cells Improve Hind Limb Perfusion in a Rabbit Model of Peripheral Arterial Disease. Stem Cells, 2012, 30, 1286-1296.	3.6	33
156	Multimodality Evaluation of the Viability of Stem Cells Delivered Into Different Zones of Myocardial Infarction. Circulation: Cardiovascular Imaging, 2008, 1, 6-13.	2.7	32
157	In Vivo¹⁹F MR Imaging Cell Tracking of Inflammatory Macrophages and Site-specific Development of Colitis-associated Dysplasia. Radiology, 2017, 282, 194-201.	8.8	31
158	An immunocompetent mouse model of human glioblastoma. Oncotarget, 2017, 8, 61072-61082.	2.1	31
159	MPI cell tracking: what can we learn from MRI?. Proceedings of SPIE, 2011, 7965, 79650z.	1.0	30
160	Automated detection and characterization of SPIOâ€labeled cells and capsules using magnetic field perturbations. Magnetic Resonance in Medicine, 2012, 67, 278-289.	3.1	30
161	MR Monitoring of Minimally Invasive Delivery of Mesenchymal Stem Cells into the Porcine Intervertebral Disc. PLoS ONE, 2013, 8, e74658.	2.5	30
162	Real-Time MRI Guidance for Reproducible Hyperosmolar Opening of the Blood-Brain Barrier in Mice. Frontiers in Neurology, 2018, 9, 921.	2.5	30

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163	Neural precursors exhibit distinctly different patterns of cell migration upon transplantation during either the acute or chronic phase of EAE: A serial MR imaging study. Magnetic Resonance in Medicine, 2011, 65, 1738-1749.	3.1	29
164	ICVâ€transplanted human glial precursor cells are shortâ€lived yet exert immunomodulatory effects in mice with EAE. Glia, 2012, 60, 1117-1129.	5.3	29
165	Development of a Staphylococcus aureus reporter strain with click beetle red luciferase for enhanced in vivo imaging of experimental bacteremiaÂand mixed infections. Scientific Reports, 2019, 9, 16663.	3.4	29
166	Stem Cell Therapy for Myelin Diseases. Current Drug Targets, 2005, 6, 3-19.	2.3	28
167	Iron uptake by ferritin: NMR relaxometry studies at low iron loads. Journal of Inorganic Biochemistry, 1998, 71, 153-157.	3.7	27
168	T1 and T2 relaxometry of monocrystalline iron oxide nanoparticles (MION-46L): Theory and experiment. Academic Radiology, 1998, 5, S137-S140.	2.4	27
169	Neural progenitor cell survival in mouse brain can be improved by co-transplantation of helper cells expressing bFGF under doxycycline control. Experimental Neurology, 2013, 247, 73-79.	4.1	27
170	Multiâ€echo Length and Offset VARied Saturation (MeLOVARS) method for improved CEST imaging. Magnetic Resonance in Medicine, 2015, 73, 488-496.	3.1	27
171	Magnetic Nanoparticles as Contrast Agents for MR Imaging. , 1997, , 527-543.		26
172	Microscopic R2* mapping of reduced brain iron in the Belgrade rat. Annals of Neurology, 2002, 52, 102-105.	5.8	25
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