Jon P Dobson

List of Publications by Citations

155 papers	14,597 citations	51 h-index	120 g-index
164 ext. papers	15,738 ext. citations	4.8 avg, IF	6.78 L-index

#	Paper	IF	Citations
155	Applications of magnetic nanoparticles in biomedicine. *Journal Physics D: Applied Physics*, **2003**, 36, R167-R181	3	4683
154	Progress in applications of magnetic nanoparticles in biomedicine. *Journal Physics D: Applied Physics* , **2009**, 42, 224001	3	1072
153	Synthesis and Characterization of Silica-Coated Iron Oxide Nanoparticles in Microemulsion: The Effect of Nonionic Surfactants. *Langmuir*, **2001**, 17, 2900-2906	4	675
152	Magnetic nanoparticles for drug delivery. *Drug Development Research*, **2006**, 67, 55-60	5.1	645
151	Gene therapy progress and prospects: magnetic nanoparticle-based gene delivery. *Gene Therapy*, **2006**, 13, 283-7	4	466
150	Magnetic nanoparticles for gene and drug delivery. *International Journal of Nanomedicine*, **2008**, 3, 169-80	7.3	439
149	Remote control of cellular behaviour with magnetic nanoparticles. *Nature Nanotechnology*, **2008**, 3, 139-43	33.7	423
148	Advantages of having a lateralized brain. *Proceedings of the Royal Society B: Biological Sciences*, **2004**, 271 Suppl 6, S420-2	4.4	340
147	Structural and magnetic properties of nanoscale iron oxide particles synthesized in the presence of dextran or polyvinyl alcohol. *Journal of Magnetism and Magnetic Materials*, **2001**, 225, 41-46	2.8	253
146	Bulk Synthesis of Transparent and Homogeneous Polymeric Hybrid Materials with ZnO Quantum Dots and PMMA. *Advanced Materials*, **2007**, 19, 4347-4352	24	201
145	Magnetic fluid hyperthermia: advances, challenges, and opportunity. *International Journal of Hyperthermia*, **2013**, 29, 706-14	3.7	178
144	Improved method of recombinant AAV2 delivery for systemic targeted gene therapy. *Molecular Therapy*, **2002**, 6, 106-12	11.7	158
143	Magnetic micro- and nano-particle-based targeting for drug and gene delivery. *Nanomedicine*, **2006**, 1, 31-7	5.6	155
142	Iron: the Redox-active center of oxidative stress in Alzheimer disease. *Neurochemical Research*, **2007**, 32, 1640-5	4.6	151
141	Selective activation of mechanosensitive ion channels using magnetic particles. *Journal of the Royal Society Interface*, **2008**, 5, 855-63	4.1	129
140	Nanoscale biogenic iron oxides and neurodegenerative disease. *FEBS Letters*, **2001**, 496, 1-5	3.8	127
139	Three-dimensional tomographic imaging and characterization of iron compounds within Alzheimer's plaque core material. *Journal of Alzheimer's Disease*, **2008**, 14, 235-45	4.3	115

138	Development of superparamagnetic iron oxide nanoparticles (SPIONS) for translation to clinical applications. *IEEE Transactions on Nanobioscience*, **2008**, 7, 298-305	3.4	114
137	Nanomedicine for targeted drug delivery. *Journal of Materials Chemistry*, **2009**, 19, 6294		110
136	Polyethyleneimine functionalized iron oxide nanoparticles as agents for DNA delivery and transfection. *Journal of Materials Chemistry*, **2007**, 17, 2561		110
135	Directing cell therapy to anatomic target sites in vivo with magnetic resonance targeting. *Nature Communications*, **2015**, 6, 8009	17.4	103
134	Magnetic nanoparticles as gene delivery agents: enhanced transfection in the presence of oscillating magnet arrays. *Nanotechnology*, **2008**, 19, 405102	3.4	102
133	In situ measurement of magnetization relaxation of internalized nanoparticles in live cells. *ACS Nano*, **2015**, 9, 231-40	16.7	98
132	Controlled differentiation of human bone marrow stromal cells using magnetic nanoparticle technology. *Tissue Engineering - Part A*, **2010**, 16, 3241-50	3.9	98
131	Increased levels of magnetic iron compounds in Alzheimer's disease. *Journal of Alzheimer's Disease*, **2008**, 13, 49-52	4.3	97
130	Iron Biochemistry is Correlated with Amyloid Plaque Morphology in an Established Mouse Model of Alzheimer's Disease. *Cell Chemical Biology*, **2017**, 24, 1205-1215.e3	8.2	95
129	Preliminary evaluation of nanoscale biogenic magnetite in Alzheimer's disease brain tissue. *Proceedings of the Royal Society B: Biological Sciences*, **2003**, 270 Suppl 1, S62-4	4.4	93
128	A novel magnetic approach to enhance the efficacy of cell-based gene therapies. *Gene Therapy*, **2008**, 15, 902-10	4	87
127	In situ characterization and mapping of iron compounds in Alzheimer's disease tissue. *Journal of Alzheimer's Disease*, **2005**, 7, 267-72	4.3	83
126	Magnetic micro- and nanoparticle mediated activation of mechanosensitive ion channels. *Medical Engineering and Physics*, **2005**, 27, 754-62	2.4	82
125	Ferrous iron formation following the co-aggregation of ferric iron and the Alzheimer's disease peptide β-amyloid (1-42). *Journal of the Royal Society Interface*, **2014**, 11, 20140165	4.1	81
124	Redox cycling of iron by Abeta42. *Free Radical Biology and Medicine*, **2006**, 40, 557-69	7.8	81
123	Paleomagnetic evidence for clockwise rotation of the Simao region since the Cretaceous: A consequence of India-Asia collision. *Earth and Planetary Science Letters*, **1995**, 134, 203-217	5.3	81
122	Principles and design of a novel magnetic force mechanical conditioning bioreactor for tissue engineering, stem cell conditioning, and dynamic in vitro screening. *IEEE Transactions on Nanobioscience*, **2006**, 5, 173-7	3.4	80
121	TMIC-12. TUMOR-HOMING RNA-NANOPARTICLES REPROGRAM IMMUNE CELLS IN THE BRAIN TUMOR MICROENVIRONMENT. *Neuro-Oncology*, **2018**, 20, vi258-vi258	1	78

120	2173 RNA-nanoparticles to enhance and track dendritic cell migration. *Journal of Clinical and Translational Science*, **2018**, 2, 26-26	0.4	78
119	Magnetic properties of human hippocampal tissue--evaluation of artefact and contamination sources. *Brain Research Bulletin*, **1996**, 39, 255-9	3.9	76
118	Materials characterization of Feraheme/ferumoxytol and preliminary evaluation of its potential for magnetic fluid hyperthermia. *International Journal of Molecular Sciences*, **2013**, 14, 17501-10	6.3	75
117	Magnetic material in the human hippocampus. *Brain Research Bulletin*, **1995**, 36, 149-53	3.9	72
116	Mapping and characterization of iron compounds in Alzheimer's tissue. *Journal of Alzheimer's Disease*, **2006**, 10, 215-22	4.3	69
115	Mathematical modeling predicts synergistic antitumor effects of combining a macrophage-based, hypoxia-targeted gene therapy with chemotherapy. *Cancer Research*, **2011**, 71, 2826-37	10.1	67
114	Development of magnetic particle techniques for long-term culture of bone cells with intermittent mechanical activation. *IEEE Transactions on Nanobioscience*, **2002**, 1, 92-7	3.4	65
113	Nanoscale synchrotron X-ray speciation of iron and calcium compounds in amyloid plaque cores from Alzheimer's disease subjects. *Nanoscale*, **2018**, 10, 11782-11796	7.7	59
112	High field magnetic resonance microscopy of the human hippocampus in Alzheimer's disease: quantitative imaging and correlation with iron. *NeuroImage*, **2012**, 59, 1249-60	7.9	59
111	Preliminary observation of elevated levels of nanocrystalline iron oxide in the basal ganglia of neuroferritinopathy patients. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2007**, 1772, 21-5	6.9	55
110	Evaluation of magnetic nanoparticles for magnetic fluid hyperthermia. *International Journal of Hyperthermia*, **2019**, 36, 687-701	3.7	54
109	Modest amyloid deposition is associated with iron dysregulation, microglial activation, and oxidative stress. *Journal of Alzheimer's Disease*, **2012**, 28, 147-61	4.3	54
108	Magnetic iron compounds in the human brain: a comparison of tumour and hippocampal tissue. *Journal of the Royal Society Interface*, **2006**, 3, 833-41	4.1	53
107	On the sensitivity of the human brain to magnetic fields: evocation of epileptiform activity. *Brain Research Bulletin*, **1995**, 36, 155-9	3.9	53
106	Preparation and characterization of polyethylenimine-coated Fe3O4-MCM-48 nanocomposite particles as a novel agent for magnet-assisted transfection. *Journal of Biomedical Materials Research - Part A*, **2010**, 92, 386-92	5.4	52
105	Magnetic iron compounds in neurological disorders. *Annals of the New York Academy of Sciences*, **2004**, 1012, 183-92	6.5	52
104	Analysis of magnetic material in the human heart, spleen and liver. *BioMetals*, **1997**, 10, 351-5	3.4	50
103	Biotic, geochemical, and paleomagnetic changes across the Cretaceous/Tertiary boundary at Braggs, Alabama. *Geology*, **1987**, 15, 311	5	50

102	Synthesis of novel magnetic iron metal-silica (Fe-SBA-15) and magnetite-silica (Fe(3)O(4)-SBA-15) nanocomposites with a high iron content using temperature-programed reduction. *Nanotechnology* , **2008**, 19, 255606	3.4	48
101	Receptor-targeted, magneto-mechanical stimulation of osteogenic differentiation of human bone marrow-derived mesenchymal stem cells. *International Journal of Molecular Sciences*, **2013**, 14, 19276-93	6.3	45
100	Investigation of age-related variations in biogenic magnetite levels in the human hippocampus. *Experimental Brain Research*, **2002**, 144, 122-6	2.3	45
99	Permian-Triassic magnetostratigraphy□ew results from South China. *Physics of the Earth and Planetary Interiors*, **1995**, 89, 281-295	2.3	44
98	Magnetic targeting of mechanosensors in bone cells for tissue engineering applications. *Journal of Biomechanics*, **2007**, 40 Suppl 1, S96-104	2.9	41
97	Evidence of redox-active iron formation following aggregation of ferrihydrite and the Alzheimer's disease peptide □amyloid. *Inorganic Chemistry*, **2014**, 53, 2803-9	5.1	39
96	Surface activation and targeting strategies of superparamagnetic iron oxide nanoparticles in cancer-oriented diagnosis and therapy. *Nanomedicine*, **2010**, 5, 109-33	5.6	39
95	A mixture of ferritin and magnetite nanoparticles mimics the magnetic properties of human brain tissue. *Physical Review B*, **2006**, 73,	3.3	39
94	Control of smooth muscle □actin (SMA) up-regulation in HBMSCs using remote magnetic particle mechano-activation. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 45-55	6	36
93	DNA Aptamer Assembly as a Vascular Endothelial Growth Factor Receptor Agonist. *Nucleic Acid Therapeutics*, **2015**, 25, 227-34	4.8	36
92	Applications of magnetic nanoparticles in biomedicine: the story so far. *Journal Physics D: Applied Physics*, **2016**, 49, 501002	3	35
91	Expression of the mechanosensitive 2PK+ channel TREK-1 in human osteoblasts. *Journal of Cellular Physiology*, **2006**, 206, 738-48	7	34
90	A triple-layer design for polyethyleneimine-coated, nanostructured magnetic particles and their use in DNA binding and transfection. *Nanotechnology*, **2007**, 18, 435601	3.4	34
89	Detection limits for ferrimagnetic particle concentrations using magnetic resonance imaging based proton transverse relaxation rate measurements. *Physics in Medicine and Biology*, **2003**, 48, N89-95	3.8	34
88	Changes in paroxysmal brainwave patterns of epileptics by weak-field magnetic stimulation. *Bioelectromagnetics*, **2000**, 21, 94-9	1.6	34
87	Magnetic investigations of framboidal greigite formation: a record of anthropogenic environmental changes in eutrophic Lake St Moritz, Switzerland. *Holocene*, **1996**, 6, 235-241	2.6	32
86	Dendritic Cell-Activating Magnetic Nanoparticles Enable Early Prediction of Antitumor Response with Magnetic Resonance Imaging. *ACS Nano*, **2019**, 13, 13884-13898	16.7	31
85	Detection, identification and mapping of iron anomalies in brain tissue using X-ray absorption spectroscopy. *Journal of the Royal Society Interface*, **2005**, 2, 33-7	4.1	28

84	The influence of static magnetic fields on mechanosensitive ion channel activity in artificial liposomes. *European Biophysics Journal*, **2005**, 34, 461-8	1.9	28
83	Low-temperature magnetic properties of lepidocrocite. *Journal of Geophysical Research*, **2002**, 107, EPM 5-1-EPM 5-9		28
82	Magnetic analysis of human brain tissue. *BioMetals*, **1999**, 12, 67-72	3.4	28
81	An in vitro model of mesenchymal stem cell targeting using magnetic particle labelling. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 724-33	4.4	27
80	Looking for biogenic magnetite in brain ferritin using NMR relaxometry. *NMR in Biomedicine*, **2005**, 18, 469-72	4.4	27
79	Low-temperature magnetic behavior of ferrihydrite. *Journal of Geophysical Research*, **2000**, 105, 8297-8303		27
78	Magnetic nanoparticles loaded with functional RNA nanoparticles. *Nanoscale*, **2018**, 10, 17761-17770	7.7	27
77	Magnetic properties of metal-substituted haematite. *Geophysical Journal International*, **1999**, 138, 571-580	2.6	26
76	Improved transfection of HUVEC and MEF cells using DNA complexes with magnetic nanoparticles in an oscillating field. *Journal of Genetics*, **2012**, 91, 223-7	1.2	25
75	Application of the ferromagnetic transduction model to D.C. and pulsed magnetic fields: effects on epileptogenic tissue and implications for cellular phone safety. *Biochemical and Biophysical Research Communications*, **1996**, 227, 718-23	3.4	25
74	Analysis of EEG data from weak-field magnetic stimulation of mesial temporal lobe epilepsy patients. *Brain Research*, **2000**, 868, 386-91	3.7	24
73	Theoretical evaluation of cell membrane ion channel activation by applied magnetic fields. *European Biophysics Journal*, **2000**, 29, 455-6	1.9	24
72	Remagnetization in southeast China and the collision and suturing of the Huanan and Yangtze Blocks. *Earth and Planetary Science Letters*, **1992**, 111, 11-21	5.3	24
71	Uptake of systemically administered magnetic nanoparticles (MNPs) in areas of experimental spinal cord injury (SCI). *Journal of Tissue Engineering and Regenerative Medicine*, **2009**, 3, 153-7	4.4	23
70	Delivery of short interfering ribonucleic acid-complexed magnetic nanoparticles in an oscillating field occurs via caveolae-mediated endocytosis. *PLoS ONE*, **2012**, 7, e51350	3.7	23
69	Triassic paleomagnetic results from the Yangtze Block, S.E. China. *Geophysical Research Letters*, **1993**, 20, 1391-1394	4.9	22
68	Biomedical applications of mesoscale magnetic particles. *MRS Bulletin*, **2013**, 38, 927-932	3.2	21
67	Nanomagnetic Gene Transfection for Non-Viral Gene Delivery in NIH 3T3 Mouse Embryonic Fibroblasts. *Materials*, **2013**, 6, 255-264	3.5	21

66	Biogenic magnetite in the nematode caenorhabditis elegans. *Proceedings of the Royal Society B: Biological Sciences*, **2004**, 271 Suppl 6, S436-9	4.4	19
65	Superconducting quantum interference device measurements of dilute magnetic materials in biological samples. *Review of Scientific Instruments*, **2005**, 76, 045101	1.7	18
64	A coil system for real-time magnetic fluid hyperthermia microscopy studies. *International Journal of Hyperthermia*, **2016**, 32, 112-20	3.7	17
63	Toxicological aspects and applications of nanoparticles in paediatric respiratory disease. *Paediatric Respiratory Reviews*, **2007**, 8, 62-6	4.8	17
62	Remote manipulation of magnetic nanoparticles using magnetic field gradient to promote cancer cell death. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1	2.6	16
61	Preliminary paleomagnetic results from the Upper Carboniferous of Uliastai Block, Inner Mongolia, China. *Geophysical Research Letters*, **1997**, 24, 2833-2836	4.9	16
60	Use of magnetic particles to apply mechanical forces for bone tissue engineering purposes. *Journal of Physics: Conference Series*, **2005**, 17, 77-80	0.3	16
59	Alternating current (AC) susceptibility as a particle-focused probe of coating and clustering behaviour in magnetic nanoparticle suspensions. *Journal of Colloid and Interface Science*, **2018**, 532, 536-545	8.2	15
58	Efficient transfection of MG-63 osteoblasts using magnetic nanoparticles and oscillating magnetic fields. *Journal of Tissue Engineering and Regenerative Medicine*, **2014**, 8, 169-75	4.4	15
57	Iron stored in ferritin is chemically reduced in the presence of aggregating A(1-42). *Scientific Reports*, **2020**, 10, 10332	4.9	14
56	High-resolution x-ray absorption spectroscopy studies of metal compounds in neurodegenerative brain tissue. *Journal of Physics: Conference Series*, **2005**, 17, 54-60	0.3	14
55	Paleomagnetic and rock magnetic investigations of the Changxing Permian-Triassic section, Zhejiang Province, China. *Geophysical Research Letters*, **1993**, 20, 1667-1670	4.9	14
54	Remotely Triggered Activation of TGF- With Magnetic Nanoparticles. *IEEE Magnetics Letters*, **2015**, 6, 1-4	1.6	13
53	Characterization of iron compounds in tumour tissue from temporal lobe epilepsy patients using low temperature magnetic methods. *BioMetals*, **2005**, 18, 191-7	3.4	13
52	DNA Targeting Sequence Improves Magnetic Nanoparticle-Based Plasmid DNA Transfection Efficiency in Model Neurons. *International Journal of Molecular Sciences*, **2015**, 16, 19369-86	6.3	12
51	Oscillating magnet array-based nanomagnetic gene transfection of human mesenchymal stem cells. *Nanomedicine*, **2014**, 9, 989-97	5.6	12
50	Novel magnetite-silica nanocomposite (Fe3O4-SBA-15) particles for DNA binding and gene delivery aided by a magnet array. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 3586-91	1.3	11
49	Carbodiimide Conjugation of Latent Transforming Growth Factor 1 to Superparamagnetic Iron Oxide Nanoparticles for Remote Activation. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	10

48	Hyperpolarization of human mesenchymal stem cells in response to magnetic force. *IEEE Transactions on Nanobioscience*, **2010**, 9, 71-4	3.4	10
47	PRELIMINARY EVIDENCE FOR WEAK MAGNETIC FIELD EFFECTS ON MECHANOSENSITIVE ION CHANNEL SUBCONDUCTING STATES IN ESCHERICHIA COLI. *Electromagnetic Biology and Medicine*, **2002**, 21, 89-95	2.2	10
46	Magnetically triggered release of biologics. *International Materials Reviews*, **2019**, 64, 63-90	16.1	9
45	Safety implications of high-field MRI: actuation of endogenous magnetic iron oxides in the human body. *PLoS ONE*, **2009**, 4, e5431	3.7	9
44	Magnetic Capture of a Molecular Biomarker from Synovial Fluid in a Rat Model of Knee Osteoarthritis. *Annals of Biomedical Engineering*, **2016**, 44, 1159-69	4.7	8
43	Design and characterization of a magnetite/PEI multifunctional nanohybrid as non-viral vector and cell isolation system. *International Journal of Pharmaceutics*, **2017**, 518, 270-280	6.5	8
42	Investigation of the Capture of Magnetic Particles From High-Viscosity Fluids Using Permanent Magnets. *IEEE Transactions on Biomedical Engineering*, **2016**, 63, 372-8	5	8
41	Preliminary evaluation of nanoscale biogenic magnetite-based ferromagnetic transduction mechanisms for mobile phone bioeffects. *IEEE Transactions on Nanobioscience*, **2003**, 2, 40-3	3.4	8
40	Magnetic iron biomineralization in rat brains: effects of iron loading. *BioMetals*, **1999**, 12, 77-82	3.4	8
39	From oleic acid-capped iron oxide nanoparticles to polyethyleneimine-coated single-particle magnetofectins. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	8
38	Multifunctional nanoparticles for intracellular drug delivery and photoacoustic imaging of mesenchymal stem cells. *Drug Delivery and Translational Research*, **2019**, 9, 652-666	6.2	7
37	Enhanced nanomagnetic gene transfection of human prenatal cardiac progenitor cells and adult cardiomyocytes. *PLoS ONE*, **2013**, 8, e69812	3.7	7
36	Synchrotron XRF imaging of Alzheimer's disease basal ganglia reveals linear dependence of high-field magnetic resonance microscopy on tissue iron concentration. *Journal of Neuroscience Methods*, **2019**, 319, 28-39	3	6
35	Preparation and characterization of iron oxide-silica composite particles using mesoporous SBA-15 silica as template and their internalization into mesenchymal stem cell and human bone cell lines. *IEEE Transactions on Nanobioscience*, **2010**, 9, 165-70	3.4	6
34	Multimodal investigation of thermally induced changes in magnetic fabric and magnetic mineralogy. *Geophysical Journal International*, **1998**, 135, 988-998	2.6	6
33	Low temperature magnetic analysis in the identification of iron compounds from human brain tumour tissue. *Journal of Physics: Conference Series*, **2005**, 17, 61-64	0.3	6
32	Exposure of magnetic bacteria to simulated mobile phone-type RF radiation has no impact on mortality. *IEEE Transactions on Nanobioscience*, **2003**, 2, 146-9	3.4	6
31	Triassic paleomagnetic results from the Huanan Block, SE China. *Physics of the Earth and Planetary Interiors*, **1999**, 112, 203-210	2.3	6

30	Controlled release of a heterogeneous human placental matrix from PLGA microparticles to modulate angiogenesis. *Drug Delivery and Translational Research*, **2016**, 6, 174-83	6.2	5
29	Oscillating Magnet Array-Based Nanomagnetic Gene Transfection: A Valuable Tool for Molecular Neurobiology Studies. *Nanomaterials*, **2017**, 7,	5.4	5
28	Early Triassic paleomagnetism and tectonics, South China. *Journal of Southeast Asian Earth Sciences*, **1993**, 8, 269-276		5
27	Magnetic stratigraphy and magnetic mineralogy at the Cretaceous-Tertiary boundary section, Braggs, Alabama. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **1989**, 69, 267-277	2.9	5
26	Practical bioinstrumentation developments for AC magnetic field-mediated magnetic nanoparticle heating applications. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1	2.6	5
25	Poly(Lactic Acid) Magnetic Microparticle Synthesis and Surface Functionalization. *IEEE Magnetics Letters*, **2017**, 8, 1-5	1.6	4
24	The Use of Magnetic Particles in Tissue Engineering **2011**,		4
23	A potential iron-based mechanism for enhanced deposition of amyloid plaques due to cognitive stimulation in Alzheimer disease. *Journal of Neuropathology and Experimental Neurology*, **2004**, 63, 674-5	3.1	4
22	EVIDENCE FOR MECHANOSENSITIVE TRANSMEMBRANE ION CHANNELS OF SMALL CONDUCTANCE IN MAGNETOTACTIC BACTERIA. *Electromagnetic Biology and Medicine*, **2000**, 19, 81-89		4
21	Probing Osteoarthritis Biomarkers with Magnetic Nanoparticles. *Biophysical Journal*, **2014**, 106, 624a	2.9	3
20	On the significance of the time constants of magnetic field sensitivity in animals. *Bioelectromagnetics*, **2005**, 26, 234-7	1.6	3
19	Nanoscale Examination of Biological Tissues Using X-ray Spectromicroscopy. *Microscopy and Microanalysis*, **2018**, 24, 490-491	0.5	3
18	Experimental evaluation of the magnetic properties of commercially available magnetic microspheres. *Bio-Medical Materials and Engineering*, **2005**, 15, 421-31	1	3
17	Magnetic collection of joint-level osteoarthritis biomarkers. *Osteoarthritis and Cartilage*, **2013**, 21, S84-S85	6.2	2
16	DNA delivery using polyethyleneimine (PEI) coated iron oxide-silica mesostructured particles.. *Studies in Surface Science and Catalysis*, **2007**, 165, 869-872	1.8	2
15	Magnetic particle translation as a surrogate measure for synovial fluid mechanics. *Journal of Biomechanics*, **2017**, 60, 9-14	2.9	2
14	Use of magnetic capture to identify elevated levels of CCL2 following intra-articular injection of monoiodoacetate in rats. *Connective Tissue Research*, **2020**, 61, 485-497	3.3	2
13	Magnetically Responsive Polymeric Microparticles for the Triggered Delivery of a Complex Mixture of Human Placental Proteins. *Macromolecular Bioscience*, **2021**, 21, e2000249	5.5	2

12	Magnetic Properties of the Heart, Spleen and Liver: Evidence for Biogenic Magnetite in Human Organs **1999**, 529-532		2
11	Theoretical Evaluation of Cellular Phone Safety Aspects. *Electromagnetic Biology and Medicine*, **1998**, 17, 351-359		1
10	Paleomagnetic results from the upper silurian of the Shan-Thai-Malay Block, southwest Yunnan, China. *Geophysical Research Letters*, **1996**, 23, 3405-3408	4.9	1
9	Cytotoxic effect of PEI-coated magnetic nanoparticles on the regulation of cellular focal adhesions and actin stress fibres. *Materialia*, **2020**, 13, 100848	3.2	1
8	Model of Magnetic Particle Capture Under Physiological Flow Rates for Cytokine Removal During Cardiopulmonary Bypass. *IEEE Transactions on Biomedical Engineering*, **2021**, 68, 1198-1207	5	1
7	Response to Comment on Mapping and Characterization of Iron Compounds in Alzheimer's Tissue *Journal of Alzheimer's Disease*, **2007**, 11, 469-470	4.3	
6	Nanoscale Iron Compounds Related to Neurodegenerative Disorders461-490		
5	Comment: "Dantrolene modulates the influence of steady magnetic fields on hippocampal evoked potentials in vitro". *Bioelectromagnetics*, **2001**, 22, 216-7	1.6	
4	Magnetically triggered release of active TGF-B from spin vortex microdiscs. *Journal of Magnetism and Magnetic Materials*, **2021**, 546, 168732	2.8	
3	Experimental and Theoretical Evaluation of the Interaction of Biogenic Magnetite with Magnetic Fields **1999**, 401-404		
2	Nanomagnetic Gene Transfection **2012**, 333-350		
1	Regenerative Medicine in the State of Florida: Letter Outlining the Florida Organization for Regenerative Medicine. *Stem Cells Translational Medicine*, **2018**, 7, 511-512	6.9	