

# Thomas Neuberger

## List of Publications by Year in descending order

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72  
papers

3,687  
citations

201674

27  
h-index

128289

60  
g-index

75  
all docs

75  
docs citations

75  
times ranked

5923  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superparamagnetic nanoparticles for biomedical applications: Possibilities and limitations of a new drug delivery system. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 293, 483-496.	2.3	1,516
2	Surveying the plant's world by magnetic resonance imaging. <i>Plant Journal</i> , 2012, 70, 129-146.	5.7	149
3	Reconstruction and Morphometric Analysis of the Nasal Airway of the Dog ( <i>Canis familiaris</i> ) and Implications Regarding Olfactory Airflow. <i>Anatomical Record</i> , 2007, 290, 1325-1340.	1.4	136
4	In vivo detection limits of magnetically labeled embryonic stem cells in the rat brain using high-field (17.6 T) magnetic resonance imaging. <i>NeuroImage</i> , 2005, 24, 635-645.	4.2	112
5	Gradients of lipid storage, photosynthesis and plastid differentiation in developing soybean seeds. <i>New Phytologist</i> , 2005, 167, 761-776.	7.3	109
6	Seed Architecture Shapes Embryo Metabolism in Oilseed Rape. <i>Plant Cell</i> , 2013, 25, 1625-1640.	6.6	109
7	Effects of Subconcussive Head Trauma on the Default Mode Network of the Brain. <i>Journal of Neurotrauma</i> , 2014, 31, 1907-1913.	3.4	98
8	Mapping the functional network of medial prefrontal cortex by combining optogenetics and fMRI in awake rats. <i>NeuroImage</i> , 2015, 117, 114-123.	4.2	84
9	Experimental and numerical assessment of MRI-induced temperature change and SAR distributions in phantoms and in vivo. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 218-223.	3.0	64
10	The Use of Magnetic Resonance Spectroscopy in the Subacute Evaluation of Athletes Recovering from Single and Multiple Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2012, 29, 2297-2304.	3.4	63
11	Quantitative imaging of oil storage in developing crop seeds. <i>Plant Biotechnology Journal</i> , 2008, 6, 31-45.	8.3	60
12	The influence of complex and threatening environments in early life on brain size and behaviour. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152564.	2.6	52
13	The impact of lipid distribution, composition and mobility on xylem water refilling of the resurrection plant <i>Myrothamnus flabellifolia</i> . <i>New Phytologist</i> , 2003, 159, 487-505.	7.3	50
14	A functional imaging study of germinating oilseed rape seed. <i>New Phytologist</i> , 2017, 216, 1181-1190.	7.3	49
15	A multiscale lattice Boltzmann model of macro- to micro-scale transport, with applications to gut function. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2863-2880.	3.4	48
16	Preconception Zinc Deficiency Disrupts Postimplantation Fetal and Placental Development in Mice. <i>Biology of Reproduction</i> , 2014, 90, 83.	2.7	48
17	Quantitative analysis of peristaltic and segmental motion in vivo in the rat small intestine using dynamic MRI. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 116-126.	3.0	47
18	Metabolic alterations in corpus callosum may compromise brain functional connectivity in MTBI patients: An 1H-MRS study. <i>Neuroscience Letters</i> , 2012, 509, 5-8.	2.1	45

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19	Brain phenotypes in two FGFR2 mouse models for Apert syndrome. <i>Developmental Dynamics</i> , 2010, 239, 987-997.	1.8	42
20	Methodology description for detection of cellular uptake of PVA coated superparamagnetic iron oxide nanoparticles (SPION) in synovial cells of sheep. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 293, 411-418.	2.3	37
21	Nuclear magnetic resonance imaging of lipid in living plants. <i>Progress in Lipid Research</i> , 2013, 52, 465-487.	11.6	37
22	A Noninvasive Platform for Imaging and Quantifying Oil Storage in Submillimeter Tobacco Seed. <i>Plant Physiology</i> , 2013, 161, 583-593.	4.8	33
23	In Vitro Quantification of Time Dependent Thrombus Size Using Magnetic Resonance Imaging and Computational Simulations of Thrombus Surface Shear Stresses. <i>Journal of Biomechanical Engineering</i> , 2014, 136, .	1.3	32
24	Design of a sustainable prepolarizing magnetic resonance imaging system for infant hydrocephalus. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 665-676.	2.0	32
25	Reconstruction and Morphometric Analysis of the Nasal Airway of the White-tailed Deer ( <i>Odocoileus virginianus</i> ) and Implications Regarding Respiratory and Olfactory Airflow. <i>Anatomical Record</i> , 2014, 297, 2138-2147.	1.4	30
26	Integration of Brain and Skull in Prenatal Mouse Models of Apert and Crouzon Syndromes. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 369.	2.0	30
27	Fractional order analysis of Sephadex gel structures: NMR measurements reflecting anomalous diffusion. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 4581-4587.	3.3	29
28	High-resolution MR imaging of the rat spinal cord in vivo in a wide-bore magnet at 17.6 Tesla. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004, 17, 353-358.	2.0	28
29	High Q calcium titanate cylindrical dielectric resonators for magnetic resonance microimaging. <i>Journal of Magnetic Resonance</i> , 2009, 200, 349-353.	2.1	28
30	Quantifying the effects of inactin vs Isoflurane anesthesia on gastrointestinal motility in rats using dynamic magnetic resonance imaging and spatio-temporal maps. <i>Neurogastroenterology and Motility</i> , 2014, 26, 1477-1486.	3.0	28
31	Localization of osteoblast inflammatory cytokines MCP-1 and VEGF to the matrix of the trabecula of the femur, a target area for metastatic breast cancer cell colonization. <i>Clinical and Experimental Metastasis</i> , 2010, 27, 331-340.	3.3	26
32	Design of a ceramic dielectric resonator for NMR microimaging at 14.1 tesla. <i>Concepts in Magnetic Resonance Part B</i> , 2008, 33B, 109-114.	0.7	25
33	Design of a mobile, homogeneous, and efficient electromagnet with a large field of view for neonatal low-field MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 691-698.	2.0	24
34	The dynamics of brain and cerebrospinal fluid growth in normal versus hydrocephalic mice. <i>Journal of Neurosurgery: Pediatrics</i> , 2010, 6, 1-10.	1.3	23
35	Non-invasive Mapping of Lipids in Plant Tissue Using Magnetic Resonance Imaging. <i>Methods in Molecular Biology</i> , 2009, 579, 485-496.	0.9	23
36	Porous tissue strands: avascular building blocks for scalable tissue fabrication. <i>Biofabrication</i> , 2019, 11, 015009.	7.1	22

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37	Chronic coronary artery stenosis induces impaired function of remote myocardium: MRI and spectroscopy study in rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H2712-H2721.	3.2	21
38	<sup>23</sup> Na microscopy of the mouse heart in vivo using density-weighted chemical shift imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004, 17, 196-200.	2.0	21
39	Using spectral and cumulative spectral entropy to classify anomalous diffusion in Sephadex <sup>®</sup> gels. <i>Computers and Mathematics With Applications</i> , 2017, 73, 765-774.	2.7	21
40	Simultaneous NMR microimaging of multiple single-cell samples. <i>Concepts in Magnetic Resonance</i> , 2004, 22B, 7-14.	1.3	19
41	Transmit-receive coil-arrays at 17.6T, configurations for <sup>1</sup> H, <sup>23</sup> Na, and <sup>31</sup> P MRI. <i>Concepts in Magnetic Resonance Part B</i> , 2006, 29B, 20-27.	0.7	19
42	Low and High Field Magnetic Resonance for in Vivo Analysis of Seeds. <i>Materials</i> , 2011, 4, 1426-1439.	2.9	19
43	Radiofrequency coils for magnetic resonance microscopy. <i>NMR in Biomedicine</i> , 2009, 22, 975-981.	2.8	16
44	Global brain signal in awake rats. <i>Brain Structure and Function</i> , 2020, 225, 227-240.	2.3	16
45	In vitro real-time magnetic resonance imaging for quantification of thrombosis. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 285-295.	2.0	16
46	Reliability and Validity of a Novel Muscle Contusion Device. <i>Journal of Athletic Training</i> , 2009, 44, 275-278.	1.8	15
47	Faraday shields within a solenoidal coil to reduce sample heating: Numerical comparison of designs and experimental verification. <i>Journal of Magnetic Resonance</i> , 2010, 202, 72-77.	2.1	14
48	Sodium renal imaging in mice at high magnetic fields. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 1067-1071.	3.0	13
49	Neurobiological effect of selective brain cooling after concussive injury. <i>Brain Imaging and Behavior</i> , 2018, 12, 891-900.	2.1	12
50	The Arrangement of Fascicles in Whole Muscle. <i>Anatomical Record</i> , 2012, 295, 1174-1180.	1.4	11
51	No Effect of Diet-Induced Mild Hyperhomocysteinemia on Vascular Methylating Capacity, Atherosclerosis Progression, and Specific Histone Methylation. <i>Nutrients</i> , 2020, 12, 2182.	4.1	11
52	Development of a Lattice-Boltzmann Method for Multiscale Transport and Absorption with Application to Intestinal Function. , 2010, , 69-96.		11
53	A Hypomethylating Ketogenic Diet in Apolipoprotein E-Deficient Mice: A Pilot Study on Vascular Effects and Specific Epigenetic Changes. <i>Nutrients</i> , 2021, 13, 3576.	4.1	10
54	The Effect of Nutritional Ketosis on Aquaporin Expression in Apolipoprotein E-Deficient Mice: Potential Implications for Energy Homeostasis. <i>Biomedicines</i> , 2022, 10, 1159.	3.2	7

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55	Improved time efficiency and accuracy in diffusion tensor microimaging with multiple-echo acquisition. <i>Journal of Magnetic Resonance</i> , 2005, 177, 329-335.	2.1	6
56	An Atherogenic Diet Disturbs Aquaporin 5 Expression in Liver and Adipocyte Tissues of Apolipoprotein E-Deficient Mice: New Insights into an Old Model of Experimental Atherosclerosis. <i>Biomedicines</i> , 2021, 9, 150.	3.2	6
57	Motility and absorption in the small intestines: Integrating MRI with lattice Boltzmann models. , 2009, , .		5
58	Magnetic resonance imaging of acute injury in rats and the effects of buprenorphine on limb volume. <i>Journal of the American Association for Laboratory Animal Science</i> , 2009, 48, 147-51.	1.2	5
59	Development and Experimental Testing of Microstrip Patch Antenna-Inspired RF Probes for 14 T MRI Scanners. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 443-453.	4.6	4
60	Feasibility and safety of longitudinal magnetic resonance imaging in a rodent model with intracortical microwire implants. <i>Journal of Neural Engineering</i> , 2009, 6, 034001.	3.5	3
61	Temperature mapping near the surface of ultrasound transducers using susceptibility- compensated magnetic resonance imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 1145-1150.	3.0	3
62	Ceramic dielectric resonators for high-field magnetic resonance imaging. , 2007, , .		2
63	Modified design of the coil probe for high field MRI. , 2015, , .		2
64	Altering the Mechanical Load Environment During Growth Does Not Affect Adult Achilles Tendon Properties in an Avian Bipedal Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 994.	4.1	2
65	Approaches to designing microâ€solenoidal RF probes for 14 T MRI studies of millimeterâ€™range sized objects. <i>Concepts in Magnetic Resonance Part B</i> , 2016, 46B, 178-185.	0.7	1
66	Unconventional designs of RF probes for high-field MRI to enhance magnetic field uniformity. , 2017, , .		1
67	Mild Hyperhomocysteinemia Induced by a Hypomethylating Diet Does Not Favor Aortic Plaque Formation in apoE Knockout Mice (P24-037-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz044.P24-037-19.	0.3	1
68	Quantitative monitoring of paramagnetic contrast agents and their allocation in plant tissues via DCE-MRI. <i>Plant Methods</i> , 2022, 18, 47.	4.3	1
69	Fractional order NMR reflects anomalous diffusion. , 2009, , .		0
70	Magnetic Resonance Fusion Imaging of Chronic Myocardial Ischemia. <i>Lecture Notes in Computer Science</i> , 2003, , 272-277.	1.3	0
71	Experimental and Computational Studies of a Formed Thrombus Within a Backward-Facing Step Geometry. , 2012, , .		0
72	Nutritional Ketosis, Aquaporins, and Energy Homeostasis. <i>Current Developments in Nutrition</i> , 2022, 6, 438.	0.3	0