

Daniel H Reich

List of Publications by Year in descending order

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95
papers

5,795
citations

126708

33
h-index

82410

72
g-index

104
all docs

104
docs citations

104
times ranked

7562
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic microposts as an approach to apply forces to living cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14553-14558.	3.3	314
2	Assessment of lesions on magnetic resonance imaging in multiple sclerosis: practical guidelines. Brain, 2019, 142, 1858-1875.	3.7	303
3	2021 MAGNIMSâ€“CMSCâ€“NAIMS consensus recommendations on the use of MRI in patients with multiple sclerosis. Lancet Neurology, The, 2021, 20, 653-670.	4.9	302
4	Statistical normalization techniques for magnetic resonance imaging. NeuroImage: Clinical, 2014, 6, 9-19.	1.4	300
5	Association of Chronic Active Multiple Sclerosis Lesions With Disability In Vivo. JAMA Neurology, 2019, 76, 1474.	4.5	288
6	Magnetic Alignment of Fluorescent Nanowires. Nano Letters, 2001, 1, 155-158.	4.5	279
7	The central vein sign and its clinical evaluation for the diagnosis of multiple sclerosis: a consensus statement from the North American Imaging in Multiple Sclerosis Cooperative. Nature Reviews Neurology, 2016, 12, 714-722.	4.9	274
8	Pembrolizumab Treatment for Progressive Multifocal Leukoencephalopathy. New England Journal of Medicine, 2019, 380, 1597-1605.	13.9	260
9	Direct Observation of Field-Induced Incommensurate Fluctuations in a One-Dimensional $S=1/2$ Antiferromagnet. Physical Review Letters, 1997, 79, 1750-1753.	2.9	253
10	Gadolinium-based MRI characterization of leptomeningeal inflammation in multiple sclerosis. Neurology, 2015, 85, 18-28.	1.5	247
11	Persistent 7-tesla phase rim predicts poor outcome in new multiple sclerosis patient lesions. Journal of Clinical Investigation, 2016, 126, 2597-2609.	3.9	212
12	Autosomal recessive phosphoglucomutase 3 (PGM3) mutations link glycosylation defects to atopy, immune deficiency, autoimmunity, and neurocognitive impairment. Journal of Allergy and Clinical Immunology, 2014, 133, 1400-1409.e5.	1.5	193
13	Central vein sign differentiates Multiple Sclerosis from central nervous system inflammatory vasculopathies. Annals of Neurology, 2018, 83, 283-294.	2.8	160
14	Mechanical Coupling Between Myofibroblasts and Cardiomyocytes Slows Electric Conduction in Fibrotic Cell Monolayers. Circulation, 2011, 123, 2083-2093.	1.6	142
15	Optimization of Yield in Magnetic Cell Separations Using Nickel Nanowires of Different Lengths. Biotechnology Progress, 2008, 21, 509-515.	1.3	114
16	FLAIR*: A Combined MR Contrast Technique for Visualizing White Matter Lesions and Parenchymal Veins. Radiology, 2012, 265, 926-932.	3.6	106
17	Decoupling Cell and Matrix Mechanics in Engineered Microtissues Using Magnetically Actuated Microcantilevers. Advanced Materials, 2013, 25, 1699-1705.	11.1	89
18	Paramagnetic Rim Lesions are Specific to Multiple Sclerosis: An International Multicenter 3T MRI Study. Annals of Neurology, 2020, 88, 1034-1042.	2.8	89

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19	Leptomeningeal gadolinium enhancement across the spectrum of chronic neuroinflammatory diseases. <i>Neurology</i> , 2017, 88, 1439-1444.	1.5	85
20	Triplet Waves in a Quantum Spin Liquid. <i>Physical Review Letters</i> , 2000, 84, 4465-4468.	2.9	82
21	Enhancement of human iPSC-derived cardiomyocyte maturation by chemical conditioning in a 3D environment. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 138, 1-11.	0.9	80
22	Frustration-induced two-dimensional quantum disordered phase in piperazinium hexachlorodiprate. <i>Physical Review B</i> , 2001, 64, .	1.1	68
23	Correlation between microstructure and magnetotransport in organic semiconductor spin-valve structures. <i>Physical Review B</i> , 2009, 79, .	1.1	63
24	Magnetic microposts for mechanical stimulation of biological cells: Fabrication, characterization, and analysis. <i>Review of Scientific Instruments</i> , 2008, 79, 044302.	0.6	61
25	Correlations and Disorder in Arrays of Magnetically Coupled Superconducting Rings. <i>Physical Review Letters</i> , 1996, 76, 815-818.	2.9	58
26	Coinfection of Human Herpesviruses 6A (HHV-6A) and HHV-6B as Demonstrated by Novel Digital Droplet PCR Assay. <i>PLoS ONE</i> , 2014, 9, e92328.	1.1	56
27	Chronic White Matter Inflammation and Serum Neurofilament Levels in Multiple Sclerosis. <i>Neurology</i> , 2021, 97, e543-e553.	1.5	54
28	Force-driven evolution of mesoscale structure in engineered 3D microtissues and the modulation of tissue stiffening. <i>Biomaterials</i> , 2014, 35, 5056-5064.	5.7	52
29	Relationships between quantitative spinal cord MRI and retinal layers in multiple sclerosis. <i>Neurology</i> , 2015, 84, 720-728.	1.5	52
30	Diagnostic performance of central vein sign for multiple sclerosis with a simplified three-lesion algorithm. <i>Multiple Sclerosis Journal</i> , 2018, 24, 750-757.	1.4	50
31	Assessment of Early Evidence of Multiple Sclerosis in a Prospective Study of Asymptomatic High-Risk Family Members. <i>JAMA Neurology</i> , 2017, 74, 293.	4.5	46
32	The "central vein sign" in patients with diagnostic "red flags" for multiple sclerosis: A prospective multicenter 3T study. <i>Multiple Sclerosis Journal</i> , 2020, 26, 421-432.	1.4	44
33	Cu ₂ (1,4-diazacycloheptane) ₂ Cl ₄ : A quasi-one-dimensional S=1/2 spin liquid system. <i>Journal of Applied Physics</i> , 1996, 79, 5392.	1.1	37
34	Matrix viscoplasticity and its shielding by active mechanics in microtissue models: experiments and mathematical modeling. <i>Scientific Reports</i> , 2016, 6, 33919.	1.6	36
35	Dopant-Dependent Increase in Seebeck Coefficient and Electrical Conductivity in Blended Polymers with Offset Carrier Energies. <i>Advanced Electronic Materials</i> , 2019, 5, 1800618.	2.6	34
36	Longitudinal high-dimensional principal components analysis with application to diffusion tensor imaging of multiple sclerosis. <i>Annals of Applied Statistics</i> , 2014, 8, 2175-2202.	0.5	33

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37	MRI evaluation of thalamic volume differentiates MS from common mimics. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2017, 4, e387.	3.1	33
38	Probing cellular traction forces with magnetic nanowires and microfabricated force sensor arrays. <i>Nanotechnology</i> , 2012, 23, 075101.	1.3	31
39	CVSnet: A machine learning approach for automated central vein sign assessment in multiple sclerosis. <i>NMR in Biomedicine</i> , 2020, 33, e4283.	1.6	31
40	Diagnosis of Progressive Multiple Sclerosis From the Imaging Perspective. <i>JAMA Neurology</i> , 2021, 78, 351.	4.5	30
41	A microfabricated magnetic actuation device for mechanical conditioning of arrays of 3D microtissues. <i>Lab on A Chip</i> , 2015, 15, 2496-2503.	3.1	29
42	Direct MRI detection of impending plaque development in multiple sclerosis. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2015, 2, e145.	3.1	28
43	A 7T spine array based on electric dipole transmitters. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1189-1197.	1.9	27
44	Clinical 3-tesla FLAIR* MRI improves diagnostic accuracy in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2016, 22, 1578-1586.	1.4	27
45	Effects of carrier mobility and morphology in organic semiconductor spin valves. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	26
46	COVID-19: Post-vaccine Smell and Taste Disorders: Report of 6 Cases. <i>Ear, Nose and Throat Journal</i> , 2024, 103, NP104-NP107.	0.4	26
47	Proximity and coupling effects in superconductor/ferromagnet multilayers (invited). <i>Journal of Applied Physics</i> , 1997, 81, 5358-5363.	1.1	25
48	Brownian dynamics of colloidal probes during protein-layer formation at an oil-water interface. <i>Soft Matter</i> , 2011, 7, 7635.	1.2	25
49	X-ray and neutron reflectivity and electronic properties of PCBM-poly(bromo)styrene blends and bilayers with poly(3-hexylthiophene). <i>Journal of Materials Chemistry</i> , 2012, 22, 4364-4370.	6.7	24
50	Detection of demyelination in multiple sclerosis by analysis of T_2 relaxation at 7 T. <i>NeuroImage: Clinical</i> , 2015, 7, 709-714.	1.1	24
51	Effects of Geometry on the Mechanics and Alignment of Three-Dimensional Engineered Microtissues. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3843-3855.	2.6	23
52	Driven topological transitions in active nematic films. <i>Soft Matter</i> , 2020, 16, 9331-9338.	1.2	22
53	Paramagnetic Rim Lesions in Multiple Sclerosis: Comparison of Visualization at 1.5-T and 3-T MRI. <i>American Journal of Roentgenology</i> , 2022, 219, 120-131.	1.0	22
54	RimNet: A deep 3D multimodal MRI architecture for paramagnetic rim lesion assessment in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2020, 28, 102412.	1.4	21

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55	Sample-size calculations for short-term proof-of-concept studies of tissue protection and repair in multiple sclerosis lesions via conventional clinical imaging. <i>Multiple Sclerosis Journal</i> , 2015, 21, 1693-1704.	1.4	20
56	The "central vein sign" in inflammatory demyelination: The role of fibrillar collagen type I. <i>Annals of Neurology</i> , 2019, 85, 934-942.	2.8	20
57	Association of White Matter Hyperintensities With HIV Status and Vascular Risk Factors. <i>Neurology</i> , 2021, 96, e1823-e1834.	1.5	20
58	Health Effects of Lesion Localization in Multiple Sclerosis: Spatial Registration and Confounding Adjustment. <i>PLoS ONE</i> , 2014, 9, e107263.	1.1	19
59	New Prospects for Ultra-High-Field Magnetic Resonance Imaging in Multiple Sclerosis. <i>Investigative Radiology</i> , 2021, 56, 773-784.	3.5	19
60	Synthesis, Fabrication, and Heterostructure of Charged, Substituted Polystyrene Multilayer Dielectrics and Their Effects in Pentacene Transistors. <i>Macromolecules</i> , 2016, 49, 3478-3489.	2.2	17
61	Central Vein Sign Profile of Newly Developing Lesions in Multiple Sclerosis. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2022, 9, .	3.1	17
62	Example based lesion segmentation. <i>Proceedings of SPIE</i> , 2014, 9034, .	0.8	16
63	Statistical estimation of T1 relaxation times using conventional magnetic resonance imaging. <i>NeuroImage</i> , 2016, 133, 176-188.	2.1	16
64	The central vein sign in multiple sclerosis patients with vascular comorbidities. <i>Multiple Sclerosis Journal</i> , 2021, 27, 1057-1065.	1.4	16
65	Optogenetic current in myofibroblasts acutely alters electrophysiology and conduction of co-cultured cardiomyocytes. <i>Scientific Reports</i> , 2021, 11, 4430.	1.6	16
66	7T MRI Visualization of Cortical Lesions in Adolescents and Young Adults with Pediatric Onset Multiple Sclerosis. <i>Journal of Neuroimaging</i> , 2017, 27, 447-452.	1.0	15
67	Dissecting fat-tailed fluctuations in the cytoskeleton with active micropost arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13839-13846.	3.3	15
68	Magnetic approaches to study collective three-dimensional cell mechanics in long-term cultures (invited). <i>Journal of Applied Physics</i> , 2014, 115, 172616.	1.1	14
69	Paramagnetic rim lesions are associated with pathogenic CSF profiles and worse clinical status in multiple sclerosis: A retrospective cross-sectional study. <i>Multiple Sclerosis Journal</i> , 2022, 28, 2046-2056.	1.4	13
70	Magnetic Resonance Imaging and Histopathological Visualization of Human Dural Lymphatic Vessels. <i>Bio-protocol</i> , 2018, 8, .	0.2	12
71	Clonidine administration during intraoperative monitoring for pediatric scoliosis surgery: Effects on central and peripheral motor responses. <i>Neurophysiologie Clinique</i> , 2018, 48, 93-102.	1.0	11
72	Highly Contrasting Static Charging and Bias Stress Effects in Pentacene Transistors with Polystyrene Heterostructures Incorporating Oxidizable $\text{N}^{\text{+}}$ -Bis(4-methoxyphenyl)aniline Side Chains as Gate Dielectrics. <i>Macromolecules</i> , 2018, 51, 6011-6020.	2.2	11

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73	Force-dependent trans-endocytosis by breast cancer cells depletes costimulatory receptor CD80 and attenuates T cell activation. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112389.	5.3	11
74	Can leptomeningeal enhancement be linked to multiple sclerosis?. <i>Neurology</i> , 2015, 84, 762-763.	1.5	8
75	Induced pluripotent stem cell-derived vascular smooth muscle cells. <i>Vascular Biology (Bristol)</i> , 2021, 33, 112389.	1.2	8
76	Recurrent natalizumab-related aseptic meningitis in a patient with multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2017, 23, 1424-1427.	1.4	7
77	Effects of trifluoromethyl substituents on interfacial and bulk polarization of polystyrene gate dielectrics. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	6
78	Charge Trapping in Polymer Electrets with Highly Dilute Blended Arylamine Donors. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1656-1662.	2.0	5
79	Extracellular Matrix Alignment Directs Provisional Matrix Assembly and Three Dimensional Fibrous Tissue Closure. <i>Tissue Engineering - Part A</i> , 2021, , .	1.6	5
80	Statistical image analysis of longitudinal RAVENS images. <i>Frontiers in Neuroscience</i> , 2015, 9, 368.	1.4	4
81	Imaging of meningeal inflammation should become part of the routine MRI protocol – Yes. <i>Multiple Sclerosis Journal</i> , 2019, 25, 330-331.	1.4	4
82	Progressive multifocal leukoencephalopathy lesion and brain parenchymal segmentation from MRI using serial deep convolutional neural networks. <i>NeuroImage: Clinical</i> , 2020, 28, 102499.	1.4	4
83	Fabrication and Mechanical Properties Measurements of 3D Microtissues for the Study of Cell–Matrix Interactions. <i>Methods in Molecular Biology</i> , 2018, 1722, 303-328.	0.4	3
84	Maximized Hole Trapping in a Polystyrene Transistor Dielectric from a Highly Branched Iminobis(aminoarene) Side Chain. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34584-34596.	4.0	3
85	Pervasive cytoquakes in the actomyosin cortex across cell types and substrate stiffness. <i>Integrative Biology (United Kingdom)</i> , 2021, 13, 246-257.	0.6	3
86	Outlier detection in multimodal MRI identifies rare individual phenotypes among more than 15,000 brains. <i>Human Brain Mapping</i> , 2022, 43, 1766-1782.	1.9	3
87	Does sensitivity to arousal improve the prognostic value of somatosensory evoked potentials in newborn infants?. <i>Developmental Medicine and Child Neurology</i> , 2017, 59, 890-890.	1.1	2
88	Visualization of cortical MS lesions with MRI need not be further improved – Commentary. <i>Multiple Sclerosis Journal</i> , 2017, 23, 19-20.	1.4	2
89	Measuring Cytoskeletal Mechanical Fluctuations and Rheology with Active Micropost Arrays. <i>Current Protocols</i> , 2022, 2, .	1.3	2
90	Intensity standardization of longitudinal images using 4D clustering. , 2013, , .		1

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91	Making a difference, an integrated PACS workflow for evaluating longitudinal changes across serial imaging. , 2021, , .		1
92	The need for specific paediatric tools for stroke recognition. Developmental Medicine and Child Neurology, 2018, 60, 1069-1069.	1.1	0
93	Is selective dorsal rhizotomy a well-founded treatment for spasticity?. Developmental Medicine and Child Neurology, 2020, 62, 656-656.	1.1	0
94	Case 10: it's "the vision thing". MedGenMed: Medscape General Medicine, 2005, 7, 58.	0.2	0
95	Occipital Epilepsy With Subcortical Atrophy in Celiac Disease. Neurology: Clinical Practice, 2021, 11, e744-e746.	0.8	0