Daniel H Reich

List of Publications by Year
in descending order

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	COVID-19: Post-vaccine Smell and Taste Disorders: Report of 6 Cases. Ear, Nose and Throat Journal, 2024, 103, NP104-NP107.	0.4	26
2	Paramagnetic Rim Lesions in Multiple Sclerosis: Comparison of Visualization at 1.5-T and 3-T MRI. American Journal of Roentgenology, 2022, 219, 120-131.	1.0	22
3	Central Vein Sign Profile of Newly Developing Lesions in Multiple Sclerosis. Neurology: Neuroimmunology and NeuroInflammation, 2022, 9, .	3.1	17
4	Outlier detection in multimodal <scp>MRI</scp> identifies rare individual phenotypes among more than 15,000 brains. Human Brain Mapping, 2022, 43, 1766-1782.	1.9	3
5	Measuring Cytoskeletal Mechanical Fluctuations and Rheology with Active Micropost Arrays. Current Protocols, 2022, 2, .	1.3	2
6	Paramagnetic rim lesions are associated with pathogenic CSF profiles and worse clinical status in multiple sclerosis: A retrospective cross-sectional study. Multiple Sclerosis Journal, 2022, 28, 2046-2056.	1.4	13
7	The central vein sign in multiple sclerosis patients with vascular comorbidities. Multiple Sclerosis Journal, 2021, 27, 1057-1065.	1.4	16
8	Association of White Matter Hyperintensities With HIV Status and Vascular Risk Factors. Neurology, 2021, 96, e1823-e1834.	1.5	20
9	Making a difference, an integrated PACS workflow for evaluating longitudinal changes across serial imaging. , 2021, , .		1
10	Optogenetic current in myofibroblasts acutely alters electrophysiology and conduction of co-cultured cardiomyocytes. Scientific Reports, 2021, 11, 4430.	1.6	16
11	Diagnosis of Progressive Multiple Sclerosis From the Imaging Perspective. JAMA Neurology, 2021, 78, 351.	4.5	30
12	Charge Trapping in Polymer Electrets with Highly Dilute Blended Arylamine Donors. ACS Applied Electronic Materials, 2021, 3, 1656-1662.	2.0	5
13	Extracellular Matrix Alignment Directs Provisional Matrix Assembly and Three Dimensional Fibrous Tissue Closure. Tissue Engineering - Part A, 2021, , .	1.6	5
14	Chronic White Matter Inflammation and Serum Neurofilament Levels in Multiple Sclerosis. Neurology, 2021, 97, e543-e553.	1.5	54
15	New Prospects for Ultra-High-Field Magnetic Resonance Imaging in Multiple Sclerosis. Investigative Radiology, 2021, 56, 773-784.	3.5	19
16	Maximized Hole Trapping in a Polystyrene Transistor Dielectric from a Highly Branched Iminobis(aminoarene) Side Chain. ACS Applied Materials & Interfaces, 2021, 13, 34584-34596.	4.0	3
17	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
18	Occipital Epilepsy With Subcortical Atrophy in Celiac Disease. Neurology: Clinical Practice, 2021, 11, e744-e746.	0.8	0

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19	Pervasive cytoquakes in the actomyosin cortex across cell types and substrate stiffness. Integrative Biology (United Kingdom), 2021, 13, 246-257.	0.6	3
20	The â€œcentral vein signâ€•in patients with diagnostic â€œred flagsâ€•for multiple sclerosis: A prospective multicenter 3T study. Multiple Sclerosis Journal, 2020, 26, 421-432.	1.4	44
21	Enhancement of human iPSC-derived cardiomyocyte maturation by chemical conditioning in a 3D environment. Journal of Molecular and Cellular Cardiology, 2020, 138, 1-11.	0.9	80
22	RimNet: A deep 3D multimodal MRI architecture for paramagnetic rim lesion assessment in multiple sclerosis. NeuroImage: Clinical, 2020, 28, 102412.	1.4	21
23	Progressive multifocal leukoencephalopathy lesion and brain parenchymal segmentation from MRI using serial deep convolutional neural networks. NeuroImage: Clinical, 2020, 28, 102499.	1.4	4
24	Paramagnetic Rim Lesions are Specific to Multiple Sclerosis: An International Multicenter 3T MRI Study. Annals of Neurology, 2020, 88, 1034-1042.	2.8	89
25	Driven topological transitions in active nematic films. Soft Matter, 2020, 16, 9331-9338.	1.2	22
26	Force-dependent trans-endocytosis by breast cancer cells depletes costimulatory receptor CD80 and attenuates T cell activation. Biosensors and Bioelectronics, 2020, 165, 112389.	5.3	11
27	Is selective dorsal rhizotomy a wellâ€founded treatment for spasticity?. Developmental Medicine and Child Neurology, 2020, 62, 656-656.	1.1	0
28	CVSnet: A machine learning approach for automated central vein sign assessment in multiple sclerosis. NMR in Biomedicine, 2020, 33, e4283.	1.6	31
29	Induced pluripotent stem cell-derived vascular smooth muscle cells. Vascular Biology (Bristol,) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.2	8
30	Association of Chronic Active Multiple Sclerosis Lesions With Disability In Vivo. JAMA Neurology, 2019, 76, 1474.	4.5	288
31	Assessment of lesions on magnetic resonance imaging in multiple sclerosis: practical guidelines. Brain, 2019, 142, 1858-1875.	3.7	303
32	Dissecting fat-tailed fluctuations in the cytoskeleton with active micropost arrays. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13839-13846.	3.3	15
33	The â€œcentral vein signâ€•in inflammatory demyelination: The role of fibrillar collagen type I. Annals of Neurology, 2019, 85, 934-942.	2.8	20
34	Pembrolizumab Treatment for Progressive Multifocal Leukoencephalopathy. New England Journal of Medicine, 2019, 380, 1597-1605.	13.9	260
35	Dopantâ€Dependent Increase in Seebeck Coefficient and Electrical Conductivity in Blended Polymers with Offset Carrier Energies. Advanced Electronic Materials, 2019, 5, 1800618.	2.6	34
36	Imaging of meningeal inflammation should become part of the routine MRI protocol â€“ Yes. Multiple Sclerosis Journal, 2019, 25, 330-331.	1.4	4

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37	Effects of trifluoromethyl substituents on interfacial and bulk polarization of polystyrene gate dielectrics. Applied Physics Letters, 2019, 114, .	1.5	6
38	Effects of Geometry on the Mechanics and Alignment of Three-Dimensional Engineered Microtissues. ACS Biomaterials Science and Engineering, 2019, 5, 3843-3855.	2.6	23
39	Clonidine administration during intraoperative monitoring for pediatric scoliosis surgery: Effects on central and peripheral motor responses. Neurophysiologie Clinique, 2018, 48, 93-102.	1.0	11
40	Fabrication and Mechanical Properties Measurements of 3D Microtissues for the Study of Cellâ€“Matrix Interactions. Methods in Molecular Biology, 2018, 1722, 303-328.	0.4	3
41	Central vein sign differentiates Multiple Sclerosis from central nervous system inflammatory vasculopathies. Annals of Neurology, 2018, 83, 283-294.	2.8	160
42	Diagnostic performance of central vein sign for multiple sclerosis with a simplified three-lesion algorithm. Multiple Sclerosis Journal, 2018, 24, 750-757.	1.4	50
43	Highly Contrasting Static Charging and Bias Stress Effects in Pentacene Transistors with Polystyrene Heterostructures Incorporating Oxidizable N,Nâ€²-Bis(4-methoxyphenyl)aniline Side Chains as Gate Dielectrics. Macromolecules, 2018, 51, 6011-6020.	2.2	11
44	The need for specific paediatric tools for stroke recognition. Developmental Medicine and Child Neurology, 2018, 60, 1069-1069.	1.1	0
45	Magnetic Resonance Imaging and Histopathological Visualization of Human Dural Lymphatic Vessels. Bio-protocol, 2018, 8, .	0.2	12
46	Assessment of Early Evidence of Multiple Sclerosis in a Prospective Study of Asymptomatic High-Risk Family Members. JAMA Neurology, 2017, 74, 293.	4.5	46
47	Leptomeningeal gadolinium enhancement across the spectrum of chronic neuroinflammatory diseases. Neurology, 2017, 88, 1439-1444.	1.5	85
48	Does sensitivity to arousal improve the prognostic value of somatosensory evoked potentials in newborn infants?. Developmental Medicine and Child Neurology, 2017, 59, 890-890.	1.1	2
49	MRI evaluation of thalamic volume differentiates MS from common mimics. Neurology: Neuroimmunology and NeuroInflammation, 2017, 4, e387.	3.1	33
50	7T MRI Visualization of Cortical Lesions in Adolescents and Young Adults with Pediatricâ€Onset Multiple Sclerosis. Journal of Neuroimaging, 2017, 27, 447-452.	1.0	15
51	Recurrent natalizumab-related aseptic meningitis in a patient with multiple sclerosis. Multiple Sclerosis Journal, 2017, 23, 1424-1427.	1.4	7
52	Visualization of cortical MS lesions with MRI need not be further improved â€“ Commentary. Multiple Sclerosis Journal, 2017, 23, 19-20.	1.4	2
53	Statistical estimation of T1 relaxation times using conventional magnetic resonance imaging. NeuroImage, 2016, 133, 176-188.	2.1	16
54	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

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55	Matrix viscoplasticity and its shielding by active mechanics in microtissue models: experiments and mathematical modeling. Scientific Reports, 2016, 6, 33919.	1.6	36
56	Synthesis, Fabrication, and Heterostructure of Charged, Substituted Polystyrene Multilayer Dielectrics and Their Effects in Pentacene Transistors. Macromolecules, 2016, 49, 3478-3489.	2.2	17
57	Clinical 3-tesla FLAIR* MRI improves diagnostic accuracy in multiple sclerosis. Multiple Sclerosis Journal, 2016, 22, 1578-1586.	1.4	27
58	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
59	A 7T spine array based on electric dipole transmitters. Magnetic Resonance in Medicine, 2015, 74, 1189-1197.	1.9	27
60	Statistical image analysis of longitudinal RAVENS images. Frontiers in Neuroscience, 2015, 9, 368.	1.4	4
61	A microfabricated magnetic actuation device for mechanical conditioning of arrays of 3D microtissues. Lab on A Chip, 2015, 15, 2496-2503.	3.1	29
62	Detection of demyelination in multiple sclerosis by analysis of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msubsup><mml:mrow><mml:mi>T</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mrow><mml:mi mathvariant="normal">*</mml:mi></mml:mrow></mml:msubsup></mml:math> relaxation at 7 T. NeuroImage: Clinical, 2015, 7, 709-714.	1.4	24
63	Sample-size calculations for short-term proof-of-concept studies of tissue protection and repair in multiple sclerosis lesions via conventional clinical imaging. Multiple Sclerosis Journal, 2015, 21, 1693-1704.	1.4	20
64	Relationships between quantitative spinal cord MRI and retinal layers in multiple sclerosis. Neurology, 2015, 84, 720-728.	1.5	52
65	Can leptomeningeal enhancement be linked to multiple sclerosis?. Neurology, 2015, 84, 762-763.	1.5	8
66	Gadolinium-based MRI characterization of leptomeningeal inflammation in multiple sclerosis. Neurology, 2015, 85, 18-28.	1.5	247
67	Direct MRI detection of impending plaque development in multiple sclerosis. Neurology: Neuroimmunology and NeuroInflammation, 2015, 2, e145.	3.1	28
68	Health Effects of Lesion Localization in Multiple Sclerosis: Spatial Registration and Confounding Adjustment. PLoS ONE, 2014, 9, e107263.	1.1	19
69	Magnetic approaches to study collective three-dimensional cell mechanics in long-term cultures (invited). Journal of Applied Physics, 2014, 115, 172616.	1.1	14
70	Example based lesion segmentation. Proceedings of SPIE, 2014, 9034, .	0.8	16
71	Force-driven evolution of mesoscale structure in engineered 3D microtissues and the modulation of tissue stiffening. Biomaterials, 2014, 35, 5056-5064.	5.7	52
72	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

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73	Statistical normalization techniques for magnetic resonance imaging. NeuroImage: Clinical, 2014, 6, 9-19.	1.4	300
74	Longitudinal high-dimensional principal components analysis with application to diffusion tensor imaging of multiple sclerosis. Annals of Applied Statistics, 2014, 8, 2175-2202.	0.5	33
75	Coinfection of Human Herpesviruses 6A (HHV-6A) and HHV-6B as Demonstrated by Novel Digital Droplet PCR Assay. PLoS ONE, 2014, 9, e92328.	1.1	56
76	Intensity standardization of longitudinal images using 4D clustering. , 2013, , .		1
77	Decoupling Cell and Matrix Mechanics in Engineered Microtissues Using Magnetically Actuated Microcantilevers. Advanced Materials, 2013, 25, 1699-1705.	11.1	89
78	Probing cellular traction forces with magnetic nanowires and microfabricated force sensor arrays. Nanotechnology, 2012, 23, 075101.	1.3	31
79	FLAIR*: A Combined MR Contrast Technique for Visualizing White Matter Lesions and Parenchymal Veins. Radiology, 2012, 265, 926-932.	3.6	106
80	X-ray and neutron reflectivity and electronic properties of PCBM-poly(bromo)styrene blends and bilayers with poly(3-hexylthiophene). Journal of Materials Chemistry, 2012, 22, 4364-4370.	6.7	24
81	Brownian dynamics of colloidal probes during protein-layer formation at an oilâ€“water interface. Soft Matter, 2011, 7, 7635.	1.2	25
82	Mechanical Coupling Between Myofibroblasts and Cardiomyocytes Slows Electric Conduction in Fibrotic Cell Monolayers. Circulation, 2011, 123, 2083-2093.	1.6	142
83	Effects of carrier mobility and morphology in organic semiconductor spin valves. Journal of Applied Physics, 2009, 105, .	1.1	26
84	Correlation between microstructure and magnetotransport in organic semiconductor spin-valve structures. Physical Review B, 2009, 79, .	1.1	63
85	Optimization of Yield in Magnetic Cell Separations Using Nickel Nanowires of Different Lengths. Biotechnology Progress, 2008, 21, 509-515.	1.3	114
86	Magnetic microposts for mechanical stimulation of biological cells: Fabrication, characterization, and analysis. Review of Scientific Instruments, 2008, 79, 044302.	0.6	61
87	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
88	Case 10: it's "the vision thing". MedGenMed: Medscape General Medicine, 2005, 7, 58.	0.2	0
89	Magnetic Alignment of Fluorescent Nanowires. Nano Letters, 2001, 1, 155-158.	4.5	279
90	Frustration-induced two-dimensional quantum disordered phase in piperazinium hexachlorodicuprate. Physical Review B, 2001, 64, .	1.1	68

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91	Triplet Waves in a Quantum Spin Liquid. Physical Review Letters, 2000, 84, 4465-4468.	2.9	82
92	Direct Observation of Field-Induced Incommensurate Fluctuations in a One-DimensionalS=1/2Antiferromagnet. Physical Review Letters, 1997, 79, 1750-1753.	2.9	253
93	Proximity and coupling effects in superconductor/ferromagnet multilayers (invited). Journal of Applied Physics, 1997, 81, 5358-5363.	1.1	25
94	Correlations and Disorder in Arrays of Magnetically Coupled Superconducting Rings. Physical Review Letters, 1996, 76, 815-818.	2.9	58
95	Cu2(1,4-diazacycloheptane)2Cl4: A quasi-one-dimensional S=1/2 spin liquid system. Journal of Applied Physics, 1996, 79, 5392.	1.1	37