Daniel H Reich

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/628801/publications.pdf

Version: 2024-02-01

95 papers 5,795 citations

33 h-index 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. | 7.1 | 314 |
| 2 | Assessment of lesions on magnetic resonance imaging in multiple sclerosis: practical guidelines. Brain, 2019, 142, 1858-1875. | 7.6 | 303 |
| 3 | 2021 MAGNIMS–CMSC–NAIMS consensus recommendations on the use of MRI in patients with multiple sclerosis. Lancet Neurology, The, 2021, 20, 653-670. | 10.2 | 302 |
| 4 | Statistical normalization techniques for magnetic resonance imaging. NeuroImage: Clinical, 2014, 6, 9-19. | 2.7 | 300 |
| 5 | Association of Chronic Active Multiple Sclerosis Lesions With Disability In Vivo. JAMA Neurology, 2019, 76, 1474. | 9.0 | 288 |
| 6 | Magnetic Alignment of Fluorescent Nanowires. Nano Letters, 2001, 1, 155-158. | 9.1 | 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. | 10.1 | 274 |
| 8 | Pembrolizumab Treatment for Progressive Multifocal Leukoencephalopathy. New England Journal of Medicine, 2019, 380, 1597-1605. | 27.0 | 260 |
| 9 | Direct Observation of Field-Induced Incommensurate Fluctuations in a One-DimensionalS=1/2Antiferromagnet. Physical Review Letters, 1997, 79, 1750-1753. | 7.8 | 253 |
| 10 | Gadolinium-based MRI characterization of leptomeningeal inflammation in multiple sclerosis. Neurology, 2015, 85, 18-28. | 1.1 | 247 |
| 11 | Persistent 7-tesla phase rim predicts poor outcome in new multiple sclerosis patient lesions. Journal of Clinical Investigation, 2016, 126, 2597-2609. | 8.2 | 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. | 2.9 | 193 |
| 13 | Central vein sign differentiates Multiple Sclerosis from central nervous system inflammatory vasculopathies. Annals of Neurology, 2018, 83, 283-294. | 5.3 | 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. | 2.6 | 114 |
| 16 | FLAIR*: A Combined MR Contrast Technique for Visualizing White Matter Lesions and Parenchymal Veins. Radiology, 2012, 265, 926-932. | 7.3 | 106 |
| 17 | Decoupling Cell and Matrix Mechanics in Engineered Microtissues Using Magnetically Actuated Microcantilevers. Advanced Materials, 2013, 25, 1699-1705. | 21.0 | 89 |
| 18 | Paramagnetic Rim Lesions are Specific to Multiple Sclerosis: An International Multicenter 3T MRI Study. Annals of Neurology, 2020, 88, 1034-1042. | 5.3 | 89 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Leptomeningeal gadolinium enhancement across the spectrum of chronic neuroinflammatory diseases. Neurology, 2017, 88, 1439-1444. | 1.1 | 85 |
| 20 | Triplet Waves in a Quantum Spin Liquid. Physical Review Letters, 2000, 84, 4465-4468. | 7.8 | 82 |
| 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. | 1.9 | 80 |
| 22 | Frustration-induced two-dimensional quantum disordered phase in piperazinium hexachlorodicuprate. Physical Review B, 2001, 64, . | 3.2 | 68 |
| 23 | Correlation between microstructure and magnetotransport in organic semiconductor spin-valve structures. Physical Review B, 2009, 79, . | 3.2 | 63 |
| 24 | Magnetic microposts for mechanical stimulation of biological cells: Fabrication, characterization, and analysis. Review of Scientific Instruments, 2008, 79, 044302. | 1.3 | 61 |
| 25 | Correlations and Disorder in Arrays of Magnetically Coupled Superconducting Rings. Physical Review Letters, 1996, 76, 815-818. | 7.8 | 58 |
| 26 | Coinfection of Human Herpesviruses 6A (HHV-6A) and HHV-6B as Demonstrated by Novel Digital Droplet PCR Assay. PLoS ONE, 2014, 9, e92328. | 2.5 | 56 |
| 27 | Chronic White Matter Inflammation and Serum Neurofilament Levels in Multiple Sclerosis. Neurology, 2021, 97, e543-e553. | 1.1 | 54 |
| 28 | Force-driven evolution of mesoscale structure in engineered 3D microtissues and the modulation of tissue stiffening. Biomaterials, 2014, 35, 5056-5064. | 11.4 | 52 |
| 29 | Relationships between quantitative spinal cord MRI and retinal layers in multiple sclerosis. Neurology, 2015, 84, 720-728. | 1.1 | 52 |
| 30 | Diagnostic performance of central vein sign for multiple sclerosis with a simplified three-lesion algorithm. Multiple Sclerosis Journal, 2018, 24, 750-757. | 3.0 | 50 |
| 31 | Assessment of Early Evidence of Multiple Sclerosis in a Prospective Study of Asymptomatic High-Risk Family Members. JAMA Neurology, 2017, 74, 293. | 9.0 | 46 |
| 32 | The "central vein sign―in patients with diagnostic "red flags―for multiple sclerosis: A prospective multicenter 3T study. Multiple Sclerosis Journal, 2020, 26, 421-432. | 3.0 | 44 |
| 33 | Cu2(1,4-diazacycloheptane)2Cl4: A quasi-one-dimensional S=1/2 spin liquid system. Journal of Applied Physics, 1996, 79, 5392. | 2.5 | 37 |
| 34 | Matrix viscoplasticity and its shielding by active mechanics in microtissue models: experiments and mathematical modeling. Scientific Reports, 2016, 6, 33919. | 3.3 | 36 |
| 35 | Dopantâ€Dependent Increase in Seebeck Coefficient and Electrical Conductivity in Blended Polymers with Offset Carrier Energies. Advanced Electronic Materials, 2019, 5, 1800618. | 5.1 | 34 |
| 36 | Longitudinal high-dimensional principal components analysis with application to diffusion tensor imaging of multiple sclerosis. Annals of Applied Statistics, 2014, 8, 2175-2202. | 1.1 | 33 |

3

| # | Article | IF | CITATIONS |
|----|--|-----------------------------|-----------|
| 37 | MRI evaluation of thalamic volume differentiates MS from common mimics. Neurology: Neuroimmunology and NeuroInflammation, 2017, 4, e387. | 6.0 | 33 |
| 38 | Probing cellular traction forces with magnetic nanowires and microfabricated force sensor arrays. Nanotechnology, 2012, 23, 075101. | 2.6 | 31 |
| 39 | CVSnet: A machine learning approach for automated central vein sign assessment in multiple sclerosis. NMR in Biomedicine, 2020, 33, e4283. | 2.8 | 31 |
| 40 | Diagnosis of Progressive Multiple Sclerosis From the Imaging Perspective. JAMA Neurology, 2021, 78, 351. | 9.0 | 30 |
| 41 | A microfabricated magnetic actuation device for mechanical conditioning of arrays of 3D microtissues. Lab on A Chip, 2015, 15, 2496-2503. | 6.0 | 29 |
| 42 | Direct MRI detection of impending plaque development in multiple sclerosis. Neurology: Neuroimmunology and NeuroInflammation, 2015, 2, e145. | 6.0 | 28 |
| 43 | A 7T spine array based on electric dipole transmitters. Magnetic Resonance in Medicine, 2015, 74, 1189-1197. | 3.0 | 27 |
| 44 | Clinical 3-tesla FLAIR* MRI improves diagnostic accuracy in multiple sclerosis. Multiple Sclerosis Journal, 2016, 22, 1578-1586. | 3.0 | 27 |
| 45 | Effects of carrier mobility and morphology in organic semiconductor spin valves. Journal of Applied Physics, 2009, 105, . | 2.5 | 26 |
| 46 | COVID-19: Post-vaccine Smell and Taste Disorders: Report of 6 Cases. Ear, Nose and Throat Journal, 2024, 103, NP104-NP107. | 0.8 | 26 |
| 47 | Proximity and coupling effects in superconductor/ferromagnet multilayers (invited). Journal of Applied Physics, 1997, 81, 5358-5363. | 2.5 | 25 |
| 48 | Brownian dynamics of colloidal probes during protein-layer formation at an oil–water interface. Soft Matter, 2011, 7, 7635. | 2.7 | 25 |
| 49 | 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 |
| 50 | Detection of demyelination in multiple sclerosis by analysis of <mml:math altimg="si1.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mrow><mml:mi>T</mml:mi></mml:mrow><mml:mrow><mml:mrow></mml:mrow></mml:mrow></mml:msubsup></mml:math> relaxation at 7 T. | /mr al<i>a</i>mn> | |
| 51 | NeuroImage: Clinical, 2015, 7, 709-714. Effects of Geometry on the Mechanics and Alignment of Three-Dimensional Engineered Microtissues. ACS Biomaterials Science and Engineering, 2019, 5, 3843-3855. | 5.2 | 23 |
| 52 | Driven topological transitions in active nematic films. Soft Matter, 2020, 16, 9331-9338. | 2.7 | 22 |
| 53 | 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. | 2.2 | 22 |
| 54 | RimNet: A deep 3D multimodal MRI architecture for paramagnetic rim lesion assessment in multiple sclerosis. NeuroImage: Clinical, 2020, 28, 102412. | 2.7 | 21 |

| # | Article | IF | CITATIONS |
|----|---|-------------|-----------|
| 55 | 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. | 3.0 | 20 |
| 56 | The "central vein sign―in inflammatory demyelination: The role of fibrillar collagen type I. Annals of Neurology, 2019, 85, 934-942. | 5. 3 | 20 |
| 57 | Association of White Matter Hyperintensities With HIV Status and Vascular Risk Factors. Neurology, 2021, 96, e1823-e1834. | 1.1 | 20 |
| 58 | Health Effects of Lesion Localization in Multiple Sclerosis: Spatial Registration and Confounding Adjustment. PLoS ONE, 2014, 9, e107263. | 2.5 | 19 |
| 59 | New Prospects for Ultra-High-Field Magnetic Resonance Imaging in Multiple Sclerosis. Investigative Radiology, 2021, 56, 773-784. | 6.2 | 19 |
| 60 | Synthesis, Fabrication, and Heterostructure of Charged, Substituted Polystyrene Multilayer Dielectrics and Their Effects in Pentacene Transistors. Macromolecules, 2016, 49, 3478-3489. | 4.8 | 17 |
| 61 | Central Vein Sign Profile of Newly Developing Lesions in Multiple Sclerosis. Neurology: Neuroimmunology and NeuroInflammation, 2022, 9, . | 6.0 | 17 |
| 62 | Example based lesion segmentation. Proceedings of SPIE, 2014, 9034, . | 0.8 | 16 |
| 63 | Statistical estimation of T1 relaxation times using conventional magnetic resonance imaging. Neurolmage, 2016, 133, 176-188. | 4.2 | 16 |
| 64 | The central vein sign in multiple sclerosis patients with vascular comorbidities. Multiple Sclerosis Journal, 2021, 27, 1057-1065. | 3.0 | 16 |
| 65 | Optogenetic current in myofibroblasts acutely alters electrophysiology and conduction of co-cultured cardiomyocytes. Scientific Reports, 2021, 11, 4430. | 3.3 | 16 |
| 66 | 7T MRI Visualization of Cortical Lesions in Adolescents and Young Adults with Pediatricâ€Onset Multiple Sclerosis. Journal of Neuroimaging, 2017, 27, 447-452. | 2.0 | 15 |
| 67 | 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. | 7.1 | 15 |
| 68 | Magnetic approaches to study collective three-dimensional cell mechanics in long-term cultures (invited). Journal of Applied Physics, 2014, 115, 172616. | 2.5 | 14 |
| 69 | 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. | 3.0 | 13 |
| 70 | Magnetic Resonance Imaging and Histopathological Visualization of Human Dural Lymphatic Vessels. Bio-protocol, 2018, 8, . | 0.4 | 12 |
| 71 | Clonidine administration during intraoperative monitoring for pediatric scoliosis surgery: Effects on central and peripheral motor responses. Neurophysiologie Clinique, 2018, 48, 93-102. | 2.2 | 11 |
| 72 | Highly Contrasting Static Charging and Bias Stress Effects in Pentacene Transistors with Polystyrene Heterostructures Incorporating Oxidizable ⟨i>N⟨/i>,⟨i>N⟨/i>′-Bis(4-methoxyphenyl)aniline Side Chains as Gate Dielectrics. Macromolecules, 2018, 51, 6011-6020. | 4.8 | 11 |

| # | Article | IF | CITATIONS |
|----|--|-------------------|-------------|
| 73 | Force-dependent trans-endocytosis by breast cancer cells depletes costimulatory receptor CD80 and attenuates T cell activation. Biosensors and Bioelectronics, 2020, 165, 112389. | 10.1 | 11 |
| 74 | Can leptomeningeal enhancement be linked to multiple sclerosis?. Neurology, 2015, 84, 762-763. | 1.1 | 8 |
| 75 | Induced pluripotent stem cell-derived vascular smooth muscle cells. Vascular Biology (Bristol,) Tj ETQq1 1 0.7843 | 14 rgBT /0 3.2 | Overlock 10 |
| 76 | Recurrent natalizumab-related aseptic meningitis in a patient with multiple sclerosis. Multiple Sclerosis Journal, 2017, 23, 1424-1427. | 3.0 | 7 |
| 77 | Effects of trifluoromethyl substituents on interfacial and bulk polarization of polystyrene gate dielectrics. Applied Physics Letters, 2019, 114, . | 3.3 | 6 |
| 78 | Charge Trapping in Polymer Electrets with Highly Dilute Blended Arylamine Donors. ACS Applied Electronic Materials, 2021, 3, 1656-1662. | 4.3 | 5 |
| 79 | Extracellular Matrix Alignment Directs Provisional Matrix Assembly and Three Dimensional Fibrous Tissue Closure. Tissue Engineering - Part A, 2021, , . | 3.1 | 5 |
| 80 | Statistical image analysis of longitudinal RAVENS images. Frontiers in Neuroscience, 2015, 9, 368. | 2.8 | 4 |
| 81 | lmaging of meningeal inflammation should become part of the routine MRI protocol – Yes. Multiple Sclerosis Journal, 2019, 25, 330-331. | 3.0 | 4 |
| 82 | Progressive multifocal leukoencephalopathy lesion and brain parenchymal segmentation from MRI using serial deep convolutional neural networks. NeuroImage: Clinical, 2020, 28, 102499. | 2.7 | 4 |
| 83 | Fabrication and Mechanical Properties Measurements of 3D Microtissues for the Study of Cell–Matrix Interactions. Methods in Molecular Biology, 2018, 1722, 303-328. | 0.9 | 3 |
| 84 | Maximized Hole Trapping in a Polystyrene Transistor Dielectric from a Highly Branched Iminobis(aminoarene) Side Chain. ACS Applied Materials & Enterfaces, 2021, 13, 34584-34596. | 8.0 | 3 |
| 85 | Pervasive cytoquakes in the actomyosin cortex across cell types and substrate stiffness. Integrative Biology (United Kingdom), 2021, 13, 246-257. | 1.3 | 3 |
| 86 | Outlier detection in multimodal <scp>MRI</scp> identifies rare individual phenotypes among more than 15,000 brains. Human Brain Mapping, 2022, 43, 1766-1782. | 3.6 | 3 |
| 87 | Does sensitivity to arousal improve the prognostic value of somatosensory evoked potentials in newborn infants?. Developmental Medicine and Child Neurology, 2017, 59, 890-890. | 2.1 | 2 |
| 88 | Visualization of cortical MS lesions with MRI need not be further improved – Commentary. Multiple Sclerosis Journal, 2017, 23, 19-20. | 3.0 | 2 |
| 89 | Measuring Cytoskeletal Mechanical Fluctuations and Rheology with Active Micropost Arrays. Current Protocols, 2022, 2, . | 2.9 | 2 |
| 90 | Intensity standardization of longitudinal images using 4D clustering., 2013,,. | | 1 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 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. | 2.1 | 0 |
| 93 | Is selective dorsal rhizotomy a wellâ€founded treatment for spasticity?. Developmental Medicine and Child Neurology, 2020, 62, 656-656. | 2.1 | O |
| 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. | 1.6 | 0 |