

Michael Hesse

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

4,537
citations

31
h-index

66
g-index

102
ext. papers

5,280
ext. citations

6.7
avg, IF

5.29
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 99 | Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016 , 352, aaf2939 | 33.3 | 418 |
| 98 | Chaperone-assisted selective autophagy is essential for muscle maintenance. <i>Current Biology</i> , 2010 , 20, 143-8 | 6.3 | 414 |
| 97 | Optogenetic control of heart muscle in vitro and in vivo. <i>Nature Methods</i> , 2010 , 7, 897-900 | 21.6 | 316 |
| 96 | Genes for intermediate filament proteins and the draft sequence of the human genome. <i>Journal of Cell Science</i> , 2001 , 114, 2569-2575 | 5.3 | 218 |
| 95 | Genes for intermediate filament proteins and the draft sequence of the human genome: novel keratin genes and a surprisingly high number of pseudogenes related to keratin genes 8 and 18. <i>Journal of Cell Science</i> , 2001 , 114, 2569-75 | 5.3 | 207 |
| 94 | The experimental power of FR900359 to study Gq-regulated biological processes. <i>Nature Communications</i> , 2015 , 6, 10156 | 17.4 | 190 |
| 93 | c-kit ⁺ precursors support postinfarction myogenesis in the neonatal, but not adult, heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 13380-5 | 11.5 | 184 |
| 92 | c-kit expression identifies cardiovascular precursors in the neonatal heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 1808-13 | 11.5 | 182 |
| 91 | New measure of the dissipation region in collisionless magnetic reconnection. <i>Physical Review Letters</i> , 2011 , 106, 195003 | 7.4 | 159 |
| 90 | Comprehensive analysis of keratin gene clusters in humans and rodents. <i>European Journal of Cell Biology</i> , 2004 , 83, 19-26 | 6.1 | 158 |
| 89 | Functional complexity of intermediate filament cytoskeletons: from structure to assembly to gene ablation. <i>International Review of Cytology</i> , 2003 , 223, 83-175 | | 143 |
| 88 | Targeted deletion of keratins 18 and 19 leads to trophoblast fragility and early embryonic lethality. <i>EMBO Journal</i> , 2000 , 19, 5060-70 | 13 | 136 |
| 87 | On the electron diffusion region in planar, asymmetric, systems. <i>Geophysical Research Letters</i> , 2014 , 41, 8673-8680 | 4.9 | 109 |
| 86 | Reply to Chimenti: c-kit cardiovascular progenitors and post-infarct myogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, E79-E79 | 11.5 | 78 |
| 85 | Direct visualization of cell division using high-resolution imaging of M-phase of the cell cycle. <i>Nature Communications</i> , 2012 , 3, 1076 | 17.4 | 69 |
| 84 | Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 117, 015001 | 7.4 | 60 |
| 83 | Disturbances in hepatic cell-cycle regulation in mice with assembly-deficient keratins 8/18. <i>Hepatology</i> , 2001 , 34, 1174-83 | 11.2 | 60 |

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|----|---|------|----|
| 82 | Type II keratins precede type I keratins during early embryonic development. <i>European Journal of Cell Biology</i> , 2005 , 84, 709-18 | 6.1 | 56 |
| 81 | Deciphering the Epigenetic Code of Cardiac Myocyte Transcription. <i>Circulation Research</i> , 2015 , 117, 413-237 | 23.7 | 54 |
| 80 | Dilated cardiomyopathy is associated with reduced expression of the cardiac sodium channel Scn5a. <i>Cardiovascular Research</i> , 2007 , 75, 498-509 | 9.9 | 51 |
| 79 | Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 5626-5634 | 4.9 | 49 |
| 78 | Midbody Positioning and Distance Between Daughter Nuclei Enable Unequivocal Identification of Cardiomyocyte Cell Division in Mice. <i>Circulation Research</i> , 2018 , 123, 1039-1052 | 15.7 | 46 |
| 77 | Wnt Activation and Reduced Cell-Cell Contact Synergistically Induce Massive Expansion of Functional Human iPSC-Derived Cardiomyocytes. <i>Cell Stem Cell</i> , 2020 , 27, 50-63.e5 | 18 | 45 |
| 76 | Electron diffusion region during magnetopause reconnection with an intermediate guide field: Magnetospheric multiscale observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5235-5246 | 2.6 | 41 |
| 75 | On the electron diffusion region in asymmetric reconnection with a guide magnetic field. <i>Geophysical Research Letters</i> , 2016 , 43, 2359-2364 | 4.9 | 41 |
| 74 | Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018 , 45, 3338-3347 | 4.9 | 40 |
| 73 | Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2017 , 44, 2978-2986 | 4.9 | 35 |
| 72 | Improved heart repair upon myocardial infarction: Combination of magnetic nanoparticles and tailored magnets strongly increases engraftment of myocytes. <i>Biomaterials</i> , 2018 , 155, 176-190 | 15.6 | 35 |
| 71 | In Vivo Labeling by CD73 Marks Multipotent Stromal Cells and Highlights Endothelial Heterogeneity in the Bone Marrow Niche. <i>Cell Stem Cell</i> , 2018 , 22, 262-276.e7 | 18 | 34 |
| 70 | Concise review: The role of C-kit expressing cells in heart repair at the neonatal and adult stage. <i>Stem Cells</i> , 2014 , 32, 1701-12 | 5.8 | 32 |
| 69 | Genetic background effects of keratin 8 and 18 in a DDC-induced hepatotoxicity and Mallory-Denk body formation mouse model. <i>Laboratory Investigation</i> , 2012 , 92, 857-67 | 5.9 | 32 |
| 68 | Magnetic Reconnection in the Space Sciences: Past, Present, and Future. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2018JA025935 | 2.6 | 31 |
| 67 | Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 1237-1245 | 4.9 | 31 |
| 66 | Measurement of the Magnetic Reconnection Rate in the Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9150-9168 | 2.6 | 31 |
| 65 | Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. <i>Geophysical Research Letters</i> , 2019 , 46, 562-570 | 4.9 | 28 |

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| 64 | The Scientific Foundations of Forecasting Magnetospheric Space Weather. <i>Space Science Reviews</i> , 2017 , 212, 1221-1252 | 7.5 | 26 |
| 63 | A mutation of keratin 18 within the coil 1A consensus motif causes widespread keratin aggregation but cell type-restricted lethality in mice. <i>Experimental Cell Research</i> , 2007 , 313, 3127-40 | 4.2 | 26 |
| 62 | Novel insights into intermediate-filament function from studies of transgenic and knockout mice. <i>Protoplasma</i> , 2000 , 211, 140-150 | 3.4 | 26 |
| 61 | Transgenic systems for unequivocal identification of cardiac myocyte nuclei and analysis of cardiomyocyte cell cycle status. <i>Basic Research in Cardiology</i> , 2015 , 110, 33 | 11.8 | 25 |
| 60 | Keratin 5 knockout mice reveal plasticity of keratin expression in the corneal epithelium. <i>European Journal of Cell Biology</i> , 2006 , 85, 803-11 | 6.1 | 25 |
| 59 | Three-Dimensional Magnetic Reconnection With a Spatially Confined X-Line Extent: Implications for Dipolarizing Flux Bundles and the Dawn-Dusk Asymmetry. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2819-2830 | 2.6 | 24 |
| 58 | MMS Observation of Asymmetric Reconnection Supported by 3-D Electron Pressure Divergence. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1806 | 2.6 | 24 |
| 57 | Heart regeneration and the cardiomyocyte cell cycle. <i>Pflugers Archiv European Journal of Physiology</i> , 2018 , 470, 241-248 | 4.6 | 23 |
| 56 | Magnetic Reconnection in a Quasi-Parallel Shock: Two-Dimensional Local Particle-in-Cell Simulation. <i>Geophysical Research Letters</i> , 2019 , 46, 9352-9361 | 4.9 | 23 |
| 55 | On the role of separatrix instabilities in heating the reconnection outflow region. <i>Physics of Plasmas</i> , 2018 , 25, 122902 | 2.1 | 23 |
| 54 | Optogenetic stimulation of G-signaling in the heart with high spatio-temporal precision. <i>Nature Communications</i> , 2019 , 10, 1281 | 17.4 | 21 |
| 53 | Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , 2019 , 46, 6230-6238 | 4.9 | 20 |
| 52 | Deletion of integrin linked kinase in endothelial cells results in defective RTK signaling caused by caveolin 1 mislocalization. <i>Development (Cambridge)</i> , 2013 , 140, 987-95 | 6.6 | 20 |
| 51 | HSP70-binding protein HSPBP1 regulates chaperone expression at a posttranslational level and is essential for spermatogenesis. <i>Molecular Biology of the Cell</i> , 2014 , 25, 2260-71 | 3.5 | 20 |
| 50 | The Transcription Factor ETV1 Induces Atrial Remodeling and Arrhythmia. <i>Circulation Research</i> , 2018 , 123, 550-563 | 15.7 | 19 |
| 49 | The Impact of Oxygen on the Reconnection Rate. <i>Geophysical Research Letters</i> , 2019 , 46, 6195-6203 | 4.9 | 18 |
| 48 | Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019 , 46, 6204-6213 | 4.9 | 17 |
| 47 | How the IMF By Induces a Local By Component During Northward IMF Bz and Characteristic Timescales. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3333-3348 | 2.6 | 17 |

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| 46 | PDK4 Inhibits Cardiac Pyruvate Oxidation in Late Pregnancy. <i>Circulation Research</i> , 2017 , 121, 1370-1378 | 15.7 | 17 |
| 45 | The effect of reconnection electric field on crescent and U-shaped distribution functions in asymmetric reconnection with no guide field. <i>Physics of Plasmas</i> , 2017 , 24, 072903 | 2.1 | 16 |
| 44 | The physical foundation of the reconnection electric field. <i>Physics of Plasmas</i> , 2018 , 25, 032901 | 2.1 | 15 |
| 43 | Visualization of endothelial cell cycle dynamics in mouse using the Flt-1/eGFP-anillin system. <i>Angiogenesis</i> , 2018 , 21, 349-361 | 10.6 | 13 |
| 42 | On the Collisionless Asymmetric Magnetic Reconnection Rate. <i>Geophysical Research Letters</i> , 2018 , 45, 3311-3318 | 4.9 | 13 |
| 41 | Lentiviral vector mediated thymidine kinase expression in pluripotent stem cells enables removal of tumorigenic cells. <i>PLoS ONE</i> , 2013 , 8, e70543 | 3.7 | 13 |
| 40 | Electron Acceleration and Thermalization at Magnetotail Separatrices. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027440 | 2.6 | 12 |
| 39 | Comment on "Do neonatal mouse hearts regenerate following heart apex resection?". <i>Stem Cell Reports</i> , 2014 , 3, 2 | 8 | 12 |
| 38 | A frequent keratin 8 p.L227L polymorphism, but no point mutations in keratin 8 and 18 genes, in patients with various liver disorders. <i>Journal of Medical Genetics</i> , 2004 , 41, e42 | 5.8 | 11 |
| 37 | Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089082 | 4.9 | 11 |
| 36 | Magnetic Reconnection in Three Dimensions: Modeling and Analysis of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10085-10103 | 2.6 | 11 |
| 35 | Effect of the Reconnection Electric Field on Electron Distribution Functions in the Diffusion Region of Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 12,142 | 4.9 | 11 |
| 34 | The Formation of an Oxygen Wave by Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9370-9380 | 2.6 | 11 |
| 33 | Three-Dimensional X-line Spreading in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027094 | 2.6 | 10 |
| 32 | Collisionless Magnetic Reconnection in an Asymmetric Oxygen Density Configuration. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085359 | 4.9 | 9 |
| 31 | Differential Expression Levels of Integrin β Enable the Selective Identification and Isolation of Atrial and Ventricular Cardiomyocytes. <i>PLoS ONE</i> , 2015 , 10, e0143538 | 3.7 | 9 |
| 30 | Magnetic reconnection and kinetic waves generated in the Earth's quasi-parallel bow shock. <i>Physics of Plasmas</i> , 2020 , 27, 092901 | 2.1 | 9 |
| 29 | Energy Conversion and Partition in the Asymmetric Reconnection Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8185-8205 | 2.6 | 9 |

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| 28 | Parallel electron heating in the magnetospheric inflow region. <i>Geophysical Research Letters</i> , 2017 , 44, 4384-4392 | 4.9 | 8 |
| 27 | Live monitoring of small vessels during development and disease using the flt-1 promoter element. <i>Basic Research in Cardiology</i> , 2012 , 107, 257 | 11.8 | 8 |
| 26 | Rescue of keratin 18/19 doubly deficient mice using aggregation with tetraploid embryos. <i>European Journal of Cell Biology</i> , 2005 , 84, 355-61 | 6.1 | 8 |
| 25 | Orientation and Stability of Asymmetric Magnetic Reconnection X Line. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4908-4920 | 2.6 | 8 |
| 24 | Electron Reconnection in the Magnetopause Current Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9222-9238 | 2.6 | 8 |
| 23 | Effects of the guide field on electron distribution functions in the diffusion region of asymmetric reconnection. <i>Physics of Plasmas</i> , 2019 , 26, 082310 | 2.1 | 6 |
| 22 | Scaling of Magnetic Reconnection With a Limited X-Line Extent. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088147 | 4.9 | 6 |
| 21 | Interaction of Cold Streaming Protons with the Reconnection Process. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027619 | 2.6 | 6 |
| 20 | Keratin 18 provides resistance to Fas-mediated liver failure in mice. <i>European Journal of Clinical Investigation</i> , 2009 , 39, 481-8 | 4.6 | 6 |
| 19 | Proximity to injury, but neither number of nuclei nor ploidy define pathological adaptation and plasticity in cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2021 , 152, 95-104 | 5.8 | 6 |
| 18 | Maintaining proteostasis under mechanical stress. <i>EMBO Reports</i> , 2021 , 22, e52507 | 6.5 | 6 |
| 17 | Role of Mononuclear Cardiomyocytes in Cardiac Turnover and Regeneration. <i>Current Cardiology Reports</i> , 2020 , 22, 39 | 4.2 | 5 |
| 16 | Developing mouse models to study intermediate filament function. <i>Methods in Cell Biology</i> , 2004 , 78, 65-94 | 1.8 | 5 |
| 15 | Overexpression of human BAG3 in mice causes restrictive cardiomyopathy. <i>Nature Communications</i> , 2021 , 12, 3575 | 17.4 | 5 |
| 14 | In vivo detection of programmed cell death during mouse heart development. <i>Cell Death and Differentiation</i> , 2020 , 27, 1398-1414 | 12.7 | 5 |
| 13 | PECAM/eGFP transgenic mice for monitoring of angiogenesis in health and disease. <i>Scientific Reports</i> , 2018 , 8, 17582 | 4.9 | 4 |
| 12 | A New Look at the Electron Diffusion Region in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028456 | 2.6 | 3 |
| 11 | Ion Behaviors in the Reconnection Diffusion Region of a Corrugated Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2019 , 46, 5014-5020 | 4.9 | 2 |

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| 10 | Visualization of Cell Cycle Variations and Determination of Nucleation in Postnatal Cardiomyocytes. <i>Journal of Visualized Experiments</i> , 2017 , | 1.6 | 2 |
| 9 | On the Impact of a Streaming Oxygen Population on Collisionless Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089462 | 4.9 | 2 |
| 8 | High-Throughput Screening Platform in Postnatal Heart Cells and Chemical Probe Toolbox to Assess Cardiomyocyte Proliferation. <i>Journal of Medicinal Chemistry</i> , 2021 , | 8.3 | 1 |
| 7 | Substorm Current Wedge: Energy Conversion and Current Diversion. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028073 | 2.6 | 1 |
| 6 | Estimating the Rate of Cessation of Magnetospheric Activity in AMPERE Field-Aligned Currents. <i>Geophysical Research Letters</i> , 2018 , 45, 12,713 | 4.9 | 1 |
| 5 | Acceleration of Oxygen Ions In Dipolarization Events: 2. PSBL Distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029143 | 2.6 | 1 |
| 4 | Acceleration of Oxygen Ions in Dipolarization Events: 1. CPS Distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029184 | 2.6 | 1 |
| 3 | Bone marrow CD73 mesenchymal stem cells display increased stemness and promote fracture healing. <i>Bone Reports</i> , 2021 , 15, 101133 | 2.6 | 1 |
| 2 | Trophectoderm cell failure leads to peri-implantation lethality in Trpm7-deficient mouse embryos. <i>Cell Reports</i> , 2021 , 37, 109851 | 10.6 | 0 |
| 1 | Deletion of integrin linked kinase in endothelial cells results in defective RTK signaling caused by caveolin 1 mislocalization. <i>Journal of Cell Science</i> , 2013 , 126, e1-e1 | 5.3 | |