

Michael Hesse

List of Publications by Year in Descending Order

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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	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
98	Trophectoderm cell failure leads to peri-implantation lethality in Trpm7-deficient mouse embryos. <i>Cell Reports</i> , 2021 , 37, 109851	10.6	0
97	Overexpression of human BAG3 in mice causes restrictive cardiomyopathy. <i>Nature Communications</i> , 2021 , 12, 3575	17.4	5
96	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
95	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
94	Maintaining proteostasis under mechanical stress. <i>EMBO Reports</i> , 2021 , 22, e52507	6.5	6
93	Acceleration of Oxygen Ions In Dipolarization Events: 2. PSBL Distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029143	2.6	1
92	Acceleration of Oxygen Ions in Dipolarization Events: 1. CPS Distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029184	2.6	1
91	Bone marrow CD73 mesenchymal stem cells display increased stemness and promote fracture healing. <i>Bone Reports</i> , 2021 , 15, 101133	2.6	1
90	Scaling of Magnetic Reconnection With a Limited X-Line Extent. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088147	4.9	6
89	Role of Mononuclear Cardiomyocytes in Cardiac Turnover and Regeneration. <i>Current Cardiology Reports</i> , 2020 , 22, 39	4.2	5
88	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
87	Magnetic Reconnection in the Space Sciences: Past, Present, and Future. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2018JA025935	2.6	31
86	Collisionless Magnetic Reconnection in an Asymmetric Oxygen Density Configuration. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085359	4.9	9
85	Three-Dimensional X-line Spreading in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027094	2.6	10
84	Interaction of Cold Streaming Protons with the Reconnection Process. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027619	2.6	6
83	Electron Acceleration and Thermalization at Magnetotail Separatrices. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027440	2.6	12

82	Substorm Current Wedge: Energy Conversion and Current Diversion. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028073	2.6	1
81	On the Impact of a Streaming Oxygen Population on Collisionless Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089462	4.9	2
80	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
79	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089082	4.9	11
78	In vivo detection of programmed cell death during mouse heart development. <i>Cell Death and Differentiation</i> , 2020 , 27, 1398-1414	12.7	5
77	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
76	Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. <i>Geophysical Research Letters</i> , 2019 , 46, 562-570	4.9	28
75	The Impact of Oxygen on the Reconnection Rate. <i>Geophysical Research Letters</i> , 2019 , 46, 6195-6203	4.9	18
74	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
73	Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , 2019 , 46, 6230-6238	4.9	20
72	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
71	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
70	Optogenetic stimulation of G-signaling in the heart with high spatio-temporal precision. <i>Nature Communications</i> , 2019 , 10, 1281	17.4	21
69	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
68	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
67	The physical foundation of the reconnection electric field. <i>Physics of Plasmas</i> , 2018 , 25, 032901	2.1	15
66	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018 , 45, 3338-3347	4.9	40
65	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

64	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
63	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
62	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
61	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 1237-1245	4.9	31
60	On the Collisionless Asymmetric Magnetic Reconnection Rate. <i>Geophysical Research Letters</i> , 2018 , 45, 3311-3318	4.9	13
59	Heart regeneration and the cardiomyocyte cell cycle. <i>Pflugers Archiv European Journal of Physiology</i> , 2018 , 470, 241-248	4.6	23
58	The Transcription Factor ETV1 Induces Atrial Remodeling and Arrhythmia. <i>Circulation Research</i> , 2018 , 123, 550-563	15.7	19
57	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
56	Orientation and Stability of Asymmetric Magnetic Reconnection X Line. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4908-4920	2.6	8
55	Electron Reconnection in the Magnetopause Current Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9222-9238	2.6	8
54	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
53	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
52	The Formation of an Oxygen Wave by Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9370-9380	2.6	11
51	On the role of separatrix instabilities in heating the reconnection outflow region. <i>Physics of Plasmas</i> , 2018 , 25, 122902	2.1	23
50	PECAM/eGFP transgenic mice for monitoring of angiogenesis in health and disease. <i>Scientific Reports</i> , 2018 , 8, 17582	4.9	4
49	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
48	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
47	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

46	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
45	Parallel electron heating in the magnetospheric inflow region. <i>Geophysical Research Letters</i> , 2017 , 44, 4384-4392	4.9	8
44	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
43	Visualization of Cell Cycle Variations and Determination of Nucleation in Postnatal Cardiomyocytes. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	2
42	PDK4 Inhibits Cardiac Pyruvate Oxidation in Late Pregnancy. <i>Circulation Research</i> , 2017 , 121, 1370-1378	15.7	17
41	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
40	The Scientific Foundations of Forecasting Magnetospheric Space Weather. <i>Space Science Reviews</i> , 2017 , 212, 1221-1252	7.5	26
39	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
38	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
37	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016 , 352, aaf2939	33.3	418
36	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
35	Deciphering the Epigenetic Code of Cardiac Myocyte Transcription. <i>Circulation Research</i> , 2015 , 117, 413-423	23.7	54
34	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
33	The experimental power of FR900359 to study Gq-regulated biological processes. <i>Nature Communications</i> , 2015 , 6, 10156	17.4	190
32	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
31	Comment on "Do neonatal mouse hearts regenerate following heart apex resection?". <i>Stem Cell Reports</i> , 2014 , 3, 2	8	12
30	On the electron diffusion region in planar, asymmetric, systems. <i>Geophysical Research Letters</i> , 2014 , 41, 8673-8680	4.9	109
29	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

28	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
27	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
26	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
25	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	
24	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
23	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
22	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
21	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
20	New measure of the dissipation region in collisionless magnetic reconnection. <i>Physical Review Letters</i> , 2011 , 106, 195003	7.4	159
19	Optogenetic control of heart muscle in vitro and in vivo. <i>Nature Methods</i> , 2010 , 7, 897-900	21.6	316
18	Chaperone-assisted selective autophagy is essential for muscle maintenance. <i>Current Biology</i> , 2010 , 20, 143-8	6.3	414
17	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
16	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
15	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
14	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
13	Dilated cardiomyopathy is associated with reduced expression of the cardiac sodium channel Scn5a. <i>Cardiovascular Research</i> , 2007 , 75, 498-509	9.9	51
12	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
11	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

10	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
9	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
8	Comprehensive analysis of keratin gene clusters in humans and rodents. <i>European Journal of Cell Biology</i> , 2004 , 83, 19-26	6.1	158
7	Developing mouse models to study intermediate filament function. <i>Methods in Cell Biology</i> , 2004 , 78, 65-94	1.8	5
6	Functional complexity of intermediate filament cytoskeletons: from structure to assembly to gene ablation. <i>International Review of Cytology</i> , 2003 , 223, 83-175		143
5	Disturbances in hepatic cell-cycle regulation in mice with assembly-deficient keratins 8/18. <i>Hepatology</i> , 2001 , 34, 1174-83	11.2	60
4	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
3	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
2	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
1	Novel insights into intermediate-filament function from studies of transgenic and knockout mice. <i>Protoplasma</i> , 2000 , 211, 140-150	3.4	26