

Ran Liu

List of Publications by Year in descending order

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108
papers

4,465
citations

94433

37
h-index

114465

63
g-index

109
all docs

109
docs citations

109
times ranked

6259
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial localization of estrogen receptor β . Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4130-4135.	7.1	463
2	Alternative Mitochondrial Electron Transfer as a Novel Strategy for Neuroprotection. Journal of Biological Chemistry, 2011, 286, 16504-16515.	3.4	212
3	Increased β -secretase activity and expression in rats following transient cerebral ischemia. Brain Research, 2004, 1009, 1-8.	2.2	180
4	Pyruvate protects mitochondria from oxidative stress in human neuroblastoma SK-N-SH cells. Brain Research, 2007, 1132, 1-9.	2.2	162
5	Quinol-based cyclic antioxidant mechanism in estrogen neuroprotection. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11741-11746.	7.1	155
6	Estrogen attenuates nuclear factor-kappa B activation induced by transient cerebral ischemia. Brain Research, 2004, 1008, 147-154.	2.2	142
7	Testosterone increases neurotoxicity of glutamate in vitro and ischemia-reperfusion injury in an animal model. Journal of Applied Physiology, 2002, 92, 195-201.	2.5	129
8	Transient Cerebral Ischemia Induces Aberrant Neuronal Cell Cycle Re-entry and Alzheimer's Disease-like Tauopathy in Female Rats. Journal of Biological Chemistry, 2004, 279, 22684-22692.	3.4	129
9	Transient cerebral ischemia induces site-specific hyperphosphorylation of tau protein. Brain Research, 2004, 1022, 30-38.	2.2	127
10	Transient focal cerebral ischemia induces long-term cognitive function deficit in an experimental ischemic stroke model. Neurobiology of Disease, 2013, 59, 18-25.	4.4	103
11	17 β -Estradiol attenuates blood-brain barrier disruption induced by cerebral ischemia-reperfusion injury in female rats. Brain Research, 2005, 1060, 55-61.	2.2	100
12	Photothermoelectric and photovoltaic effects both present in MoS ₂ . Scientific Reports, 2015, 5, 7938.	3.3	92
13	A prototypical Sigma-1 receptor antagonist protects against brain ischemia. Brain Research, 2007, 1181, 1-9.	2.2	85
14	Neuroprotective Effects of 17 β -Estradiol and Nonfeminizing Estrogens against H ₂ O ₂ Toxicity in Human Neuroblastoma SK-N-SH Cells. Molecular Pharmacology, 2006, 70, 395-404.	2.3	83
15	Neuroprotective effects of an estratriene analog are estrogen receptor independent in vitro and in vivo. Brain Research, 2005, 1038, 216-222.	2.2	80
16	Reversing the Warburg Effect as a Treatment for Glioblastoma. Journal of Biological Chemistry, 2013, 288, 9153-9164.	3.4	77
17	Estrogen-Like Compounds for Ischemic Neuroprotection. Stroke, 2004, 35, 2648-2651.	2.0	76
18	High-Bandwidth InGaN Self-Powered Detector Arrays toward MIMO Visible Light Communication Based on Micro-LED Arrays. ACS Photonics, 2019, 6, 3186-3195.	6.6	76

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19	Estrogen Receptor \hat{I}^2 as a Mitochondrial Vulnerability Factor. <i>Journal of Biological Chemistry</i> , 2009, 284, 9540-9548.	3.4	73
20	Experimental ischemic stroke induces long-term T cell activation in the brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 2268-2276.	4.3	71
21	The Use of Estrogens and Related Compounds in the Treatment of Damage from Cerebral Ischemia. <i>Annals of the New York Academy of Sciences</i> , 2003, 1007, 101-107.	3.8	67
22	On Valence-Band Splitting in Layered MoS_2 . <i>ACS Nano</i> , 2015, 9, 8514-8519.	14.6	65
23	Neuroprotective Effects of a Novel Non- \hat{I} Receptor-Binding Estrogen Analogue. <i>Stroke</i> , 2002, 33, 2485-2491.	2.0	61
24	Methylene Blue as a Cerebral Metabolic and Hemodynamic Enhancer. <i>PLoS ONE</i> , 2012, 7, e46585.	2.5	59
25	Thickness Considerations of Two-Dimensional Layered Semiconductors for Transistor Applications. <i>Scientific Reports</i> , 2016, 6, 29615.	3.3	57
26	Cell-cycle regulators are involved in transient cerebral ischemia induced neuronal apoptosis in female rats. <i>FEBS Letters</i> , 2005, 579, 4591-4599.	2.8	54
27	Neuroprotection targeting ischemic penumbra and beyond for the treatment of ischemic stroke. <i>Neurological Research</i> , 2012, 34, 331-337.	1.3	53
28	Alternative mitochondrial electron transfer for the treatment of neurodegenerative diseases and cancers: Methylene blue connects the dots. <i>Progress in Neurobiology</i> , 2017, 157, 273-291.	5.7	52
29	Hyperglycemia Alters Astrocyte Metabolism and Inhibits Astrocyte Proliferation. , 2018, 9, 674.		52
30	Regulation of matrix metalloproteinase 2 by oligomeric amyloid \hat{I}^2 protein. <i>Brain Research</i> , 2011, 1387, 141-148.	2.2	51
31	Estrogens as Protectants of the Neurovascular Unit Against Ischemic Stroke. <i>CNS and Neurological Disorders</i> , 2005, 4, 169-177.	4.3	48
32	Dose dependence and therapeutic window for the neuroprotective effects of $17\hat{I}^2$ -estradiol when administered after cerebral ischemia. <i>Neuroscience Letters</i> , 2007, 415, 237-241.	2.1	47
33	Multicolor Broadband and Fast Photodetector Based on InGaAs \hat{I} Insulator \hat{I} Graphene Hybrid Heterostructure. <i>Advanced Electronic Materials</i> , 2020, 6, 1901007.	5.1	44
34	Four Decades of Ischemic Penumbra and Its Implication for Ischemic Stroke. <i>Translational Stroke Research</i> , 2021, 12, 937-945.	4.2	42
35	Whispering-gallery nanocavity plasmon-enhanced Raman spectroscopy. <i>Scientific Reports</i> , 2015, 5, 15012.	3.3	41
36	Combination Therapy of $17\hat{I}^2$ -Estradiol and Recombinant Tissue Plasminogen Activator for Experimental Ischemic Stroke. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 332, 1006-1012.	2.5	40

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37	Directly Printed Packaging-Paper-Based Chipless RFID Tag With Coplanar LC Resonator. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 325-328.	4.0	40
38	Neuroendocrine mechanism for tolerance to cerebral ischemia-reperfusion injury in male rats. Journal of Neurobiology, 2005, 62, 341-351.	3.6	39
39	Influence of seeding promoters on the properties of CVD grown monolayer molybdenum disulfide. Nano Research, 2019, 12, 823-827.	10.4	39
40	Artemisinin Prevents Glutamate-Induced Neuronal Cell Death Via Akt Pathway Activation. Frontiers in Cellular Neuroscience, 2018, 12, 108.	3.7	38
41	Window of opportunity: Estrogen as a treatment for ischemic stroke. Brain Research, 2013, 1514, 83-90.	2.2	37
42	Metformin Alters Locomotor and Cognitive Function and Brain Metabolism in Normoglycemic Mice. , 2019, 10, 949.		36
43	Homogeneous 2D MoTe_2 CMOS Inverters and p^+n Junctions Formed by Laser-Induced p^+ Type Doping. Small, 2020, 16, e2001428.	10.0	33
44	Chemotherapeutic effect of tamoxifen on temozolomide-resistant gliomas. Anti-Cancer Drugs, 2015, 26, 293-300.	1.4	32
45	Neuroprotective effects of high affinity sigma 1 receptor selective compounds. Brain Research, 2012, 1441, 17-26.	2.2	30
46	Interaction of bipolaron with the $\text{H}_2\text{O}/\text{O}_2$ redox couple causes current hysteresis in organic thin-film transistors. Nature Communications, 2014, 5, 3185.	12.8	30
47	Determination of metformin bio-distribution by LC-MS/MS in mice treated with a clinically relevant paradigm. PLoS ONE, 2020, 15, e0234571.	2.5	30
48	The assessment of non-feminizing estrogens for use in neuroprotection. Brain Research, 2011, 1379, 61-70.	2.2	28
49	Modulation of polymorphonuclear neutrophil functions by astrocytes. Journal of Neuroinflammation, 2010, 7, 53.	7.2	26
50	Extending the Spectral Responsivity of MoS_2 Phototransistors by Incorporating Up-Conversion Microcrystals. Advanced Optical Materials, 2018, 6, 1800660.	7.3	25
51	Analytical models for channel potential, threshold voltage, and subthreshold swing of junctionless triple-gate FinFETs. Microelectronics Journal, 2016, 50, 60-65.	2.0	24
52	Highly Efficient 1D/3D Ferroelectric Perovskite Solar Cell. Advanced Functional Materials, 2021, 31, 2100205.	14.9	24
53	An ultra-low-cost RFID tag with 1.67 Gbps data rate by ink-jet printing on paper substrate. , 2010, , .		23
54	A novel serum free primary astrocyte culture method that mimic quiescent astrocyte phenotype. Journal of Neuroscience Methods, 2019, 320, 50-63.	2.5	22

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55	Design of fully printable and configurable chipless RFID tag on flexible substrate. <i>Microwave and Optical Technology Letters</i> , 2012, 54, 226-230.	1.4	21
56	Chipless RFID tags fabricated by fully printing of metallic inks. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2013, 68, 401-413.	2.5	21
57	Methylene Blue Protects Astrocytes against Glucose Oxygen Deprivation by Improving Cellular Respiration. <i>PLoS ONE</i> , 2015, 10, e0123096.	2.5	21
58	Anti-Stokes Photoluminescence of van der Waals Layered Semiconductor PbI_2 . <i>Advanced Optical Materials</i> , 2017, 5, 1700609.	7.3	20
59	Transient Focal Cerebral Ischemia Induces Long-term Cerebral Vasculature Dysfunction in a Rodent Experimental Stroke Model. <i>Translational Stroke Research</i> , 2012, 3, 279-285.	4.2	18
60	Neuroglobin Overexpression Inhibits AMPK Signaling and Promotes Cell Anabolism. <i>Molecular Neurobiology</i> , 2016, 53, 1254-1265.	4.0	18
61	Administration of 5-methoxyindole-2-carboxylic acid that potentially targets mitochondrial dihydrolipoamide dehydrogenase confers cerebral preconditioning against ischemic stroke injury. <i>Free Radical Biology and Medicine</i> , 2017, 113, 244-254.	2.9	18
62	Cholesterol sulfate alters astrocyte metabolism and provides protection against oxidative stress. <i>Brain Research</i> , 2019, 1723, 146378.	2.2	17
63	Lithography Compatible, Flexible Micro-Organic Light-Emitting Diodes by Template-Directed Growth. <i>Small Methods</i> , 2019, 3, 1800508.	8.6	17
64	Large-Area Monolayer MoS_2 Nanosheets on GaN Substrates for Light-Emitting Diodes and Valley-Spin Electronic Devices. <i>ACS Applied Nano Materials</i> , 2021, 4, 12127-12136.	5.0	17
65	A real-time Raman spectroscopy study of the dynamics of laser-thinning of MoS_2 flakes to monolayers. <i>AIP Advances</i> , 2017, 7, .	1.3	16
66	An IoT-Based Life Cycle Assessment Platform of Wind Turbines. <i>Sensors</i> , 2021, 21, 1233.	3.8	16
67	Analytical models for the electric potential, threshold voltage and drain current of long-channel junctionless double-gate transistors. <i>Journal of the Korean Physical Society</i> , 2013, 62, 1188-1193.	0.7	15
68	Space-Charge-Stabilized Ferroelectric Polarization in Self-Oriented Croconic Acid Films. <i>Advanced Functional Materials</i> , 2018, 28, 1705463.	14.9	15
69	Precision Medicine for Ischemic Stroke, Let Us Move Beyond Time Is Brain. <i>Translational Stroke Research</i> , 2018, 9, 93-95.	4.2	15
70	Precise Layer Control of $MoTe_2$ by Ozone Treatment. <i>Nanomaterials</i> , 2019, 9, 756.	4.1	15
71	Methylene Blue Ameliorates Ischemia/Reperfusion-Induced Cerebral Edema: An MRI and Transmission Electron Microscope Study. <i>Acta Neurochirurgica Supplementum</i> , 2016, 121, 227-236.	1.0	15
72	Endovascular middle cerebral artery occlusion in rats as a model for studying vascular dementia. <i>Age</i> , 2006, 28, 297-307.	3.0	13

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73	Competing Mechanisms for Photocurrent Induced at the Monolayer/Multilayer Graphene Junction. <i>Small</i> , 2018, 14, e1800691.	10.0	13
74	Multifunctional Ultraviolet-C Micro-LED With Monolithically Integrated Photodetector for Optical Wireless Communication. <i>Journal of Lightwave Technology</i> , 2022, 40, 490-498.	4.6	13
75	Dewetting-Assisted Patterning of Organic Semiconductors for Micro-OLED Arrays with a Pixel Size of 1 μm. <i>Small Methods</i> , 2022, 6, e2101509.	8.6	12
76	Astroglial PTEN Loss Disrupts Neuronal Lamination by Dysregulating Radial Glia-guided Neuronal Migration. <i>Journal of Neuroscience</i> , 2013, 33, 113-126.		11
77	2H Tantalum Disulfide Nanosheets as Substrates for Ultrasensitive SERS-Based Sensing. <i>ACS Applied Nano Materials</i> , 2022, 5, 8913-8920.	5.0	10
78	Direct laser writing of vertical junctions in graphene oxide films for broad spectral position-sensitive detectors. <i>Nanophotonics</i> , 2018, 7, 1563-1570.	6.0	9
79	Liquid-Metal-Induced Memristor Behavior in Polymer Insulators. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000050.	2.4	9
80	Early loss of cerebellar Purkinje cells in human and a transgenic mouse model of Alzheimer's disease. <i>Neurological Research</i> , 2021, 43, 570-581.	1.3	9
81	Reconfigurable MoTe ₂ Field-Effect Transistors and its Application in Compact CMOS Circuits. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 4748-4753.	3.0	9
82	Intrinsic excitonic emission and valley Zeeman splitting in epitaxial MS ₂ (M = Mo and W) monolayers on hexagonal boron nitride. <i>Nano Research</i> , 2018, 11, 6227-6236.	10.4	8
83	Self-assembled non-volatile micro memory arrays of molecular ferroelectrics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16742-16748.	5.5	6
84	Methylene blue promotes quiescence of rat neural progenitor cells. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 315.	3.7	5
85	A reconfigurable chipless RFID tag based on sympathetic oscillation for liquid-bearing applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2011, 59, 1000-1005.		4
86	For the pursuit of oxygen and carbon dioxide channels in mitochondria. <i>Medical Gas Research</i> , 2016, 6, 237.	2.3	4
87	Linearly-tapered RFID tag antenna with 40% material reduction for ultra-low-cost applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2011, 59, 1000-1005.		3
88	Configurable inkjet-printed RFID tag on paper substrate for low cost and green applications. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 2781-2786.	1.4	3
89	Preferential interaction of small-diameter metallic SWNTs with ferroelectric polymer. <i>RSC Advances</i> , 2014, 4, 19658-19662.	3.6	3
90	Methylene blue inhibits GABA A receptors by interaction with GABA binding site. <i>Neuropharmacology</i> , 2017, 119, 100-110.	4.1	3

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91	Photovoltage Reversal in Organic Optoelectronic Devices with Insulator-Semiconductor Interfaces. <i>Materials</i> , 2018, 11, 1530.	2.9	3
92	Fabricating In-Plane MoTe ₂ p-n Homojunction Photodetector Using Laser-Induced p-Type Doping. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 4485-4490.	3.0	3
93	Electric Field and Transmitting Power Analysis of Segmented and Unsegmented Loop Antennas for Transcutaneous Power Transfer. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 3485-3492.	5.1	2
94	Design of New Compact Multi-Layer Quint-Band Bandpass Filter. <i>IEEE Access</i> , 2021, , 1-1.	4.2	2
95	Characterizing region-specific glucose metabolic profile of the rodent brain using Seahorse XFe96 analyzer. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1259-1271.	4.3	2
96	An InGaN micro-LED based photodetector array for high-speed parallel visible light communication. , 2018, , .		1
97	Fabrication and characteristics of flexible normally-off AlGaIn/GaN HEMTs. <i>AIP Advances</i> , 2020, 10, 105317.	1.3	1
98	The photoresponsivity of monolayer molybdenum disulfide grown by chemical vapor deposition with different seeding promoters. <i>Applied Physics Express</i> , 2020, 13, 071006.	2.4	1
99	Modulation of astrocyte phenotype in response to T-cell interaction. <i>Journal of Neuroimmunology</i> , 2021, 351, 577455.	2.3	1
100	An IoT-Based Traceability Platform for Wind Turbines. <i>Energies</i> , 2021, 14, 2676.	3.1	1
101	Mitochondria transplantation/transfer between single cells. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1748-1750.	4.3	1
102	Effects of unintended dopants on I _D V characteristics of the double-gate MOSFETs, a simulation study. , 2011, , .		0
103	A GaSb/In _{0.4} Ga _{0.6} As Heterojunction Z-Shaped Tunnel Field-Effect Transistor with High Performance. , 2019, , .		0
104	Pyruvate protects the HT22 neuronal cells treated with rtPA against hypoxia-induced reoxygenation damage. <i>FASEB Journal</i> , 2012, 26, 398.6.	0.5	0
105	Title is missing!. , 2020, 15, e0234571.		0
106	Title is missing!. , 2020, 15, e0234571.		0
107	Title is missing!. , 2020, 15, e0234571.		0
108	Title is missing!. , 2020, 15, e0234571.		0