

# Mengliang Zhang

## List of Publications by Year in descending order

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61  
papers

1,095  
citations

394421

19  
h-index

477307

29  
g-index

63  
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63  
docs citations

63  
times ranked

1351  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive characterization of C-glycosyl flavones in wheat ( <i>Triticum aestivum</i> L.) germ using UPLC-PDA-ESI/HRMS and mass defect filtering. <i>Journal of Mass Spectrometry</i> , 2016, 51, 914-930.	1.6	80
2	Septal columns in rodent barrel cortex: Functional circuits for modulating whisking behavior. <i>Journal of Comparative Neurology</i> , 2004, 480, 299-309.	1.6	60
3	Spinal Sensorimotor Transformation: Relation between Cutaneous Somatotopy and a Reflex Network. <i>Journal of Neuroscience</i> , 2002, 22, 8170-8182.	3.6	59
4	MI Neuronal Responses to Peripheral Whisker Stimulation: Relationship to Neuronal Activity in SI Barrels and Septa. <i>Journal of Neurophysiology</i> , 2008, 100, 50-63.	1.8	53
5	Robust upregulation of serotonin 2A receptors after chronic spinal transection of rats: An immunohistochemical study. <i>Brain Research</i> , 2010, 1320, 60-68.	2.2	43
6	Simultaneous quantitation of hydrochlorothiazide and metoprolol in human plasma by liquid chromatography-tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 52, 149-154.	2.8	39
7	Central projections of sensory innervation of the rat superficial temporal artery. <i>Brain Research</i> , 2003, 966, 126-133.	2.2	35
8	Spinal Cord Injury Enables Aromatic l-Amino Acid Decarboxylase Cells to Synthesize Monoamines. <i>Journal of Neuroscience</i> , 2014, 34, 11984-12000.	3.6	34
9	Rhythmic activity of feline dorsal and ventral spinocerebellar tract neurons during fictive motor actions. <i>Journal of Neurophysiology</i> , 2013, 109, 375-388.	1.8	32
10	Expression of calcium channel Ca <sub>v</sub> 1.3 in cat spinal cord: Light and electron microscopic immunohistochemical study. <i>Journal of Comparative Neurology</i> , 2008, 507, 1109-1127.	1.6	28
11	Discrimination of brands of gasoline by using DART-MS and chemometrics. <i>Forensic Chemistry</i> , 2018, 10, 58-66.	2.8	28
12	GLS-Finder: A Platform for Fast Profiling of Glucosinolates in <i>Brassica</i> Vegetables. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 4407-4415.	5.2	27
13	FlavonQ: An Automated Data Processing Tool for Profiling Flavone and Flavonol Glycosides with Ultra-High-Performance Liquid Chromatography-Diode Array Detection-High Resolution Accurate Mass-Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 9974-9981.	6.5	26
14	Localization of L-type calcium channel Ca <sub>v</sub> 1.3 in cat lumbar spinal cord with emphasis on motoneurons. <i>Neuroscience Letters</i> , 2006, 407, 42-47.	2.1	25
15	Field Analysis of Polychlorinated Biphenyls (PCBs) in Soil Using Solid-Phase Microextraction (SPME) and a Portable Gas Chromatography-Mass Spectrometry System. <i>Applied Spectroscopy</i> , 2016, 70, 785-793.	2.2	23
16	Detection and Classification of Ignitable Liquid Residues in the Presence of Matrix Interferences by Using Direct Analysis in Real Time Mass Spectrometry. <i>Journal of Forensic Sciences</i> , 2019, 64, 1486-1494.	1.6	23
17	Stimulus-Induced Intercolumnar Synchronization of Neuronal Activity in Rat Barrel Cortex: A Laminal Analysis. <i>Journal of Neurophysiology</i> , 2004, 92, 1464-1478.	1.8	22
18	Development of a Comprehensive Flavonoid Analysis Computational Tool for Ultrahigh-Performance Liquid Chromatography-Diode Array Detection-High-Resolution Accurate Mass-Mass Spectrometry Data. <i>Analytical Chemistry</i> , 2017, 89, 7388-7397.	6.5	22

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19	Antitumor and immunomodulatory activities of total flavonoids extract from persimmon leaves in H22 liver tumor-bearing mice. <i>Scientific Reports</i> , 2018, 8, 10523.	3.3	22
20	Control and Role of Plateau Potential Properties in the Spinal Cord. <i>Current Pharmaceutical Design</i> , 2013, 19, 4357-4370.	1.9	21
21	Forensic Fiber Analysis by Thermal Desorption/Pyrolysis-Direct Analysis in Real Time-Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 1925-1933.	6.5	20
22	Comparison of Three Algorithms for the Baseline Correction of Hyphenated Data Objects. <i>Analytical Chemistry</i> , 2014, 86, 9050-9057.	6.5	19
23	Simultaneous analysis of isomers of escin saponins in human plasma by liquid chromatography-tandem mass spectrometry: Application to a pharmacokinetic study after oral administration. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 861-867.	2.3	18
24	Intercolumnar synchronization of neuronal activity in rat barrel cortex during patterned airjet stimulation: a laminar analysis. <i>Experimental Brain Research</i> , 2006, 169, 311-325.	1.5	17
25	MS <sup>All</sup> strategy for comprehensive quantitative analysis of PEGylated-doxorubicin, PEG and doxorubicin by LC-high resolution q-q-TOF mass spectrometry coupled with all window acquisition of all fragment ion spectra. <i>Analyst</i> , 2017, 142, 4279-4288.	3.5	17
26	Automated pipeline for classifying Aroclors in soil by gas chromatography/mass spectrometry using modulo compressed two-way data objects. <i>Talanta</i> , 2013, 117, 483-491.	5.5	16
27	Feruloyl dopamine-O-hexosides are efficient marker compounds as orthogonal validation for authentication of black cohosh ( <i>Actaea racemosa</i> ) an UHPLC-HRAM-MS chemometrics study. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2591-2600.	3.7	16
28	Pervasive synchronization of local neural networks in the secondary somatosensory cortex of cats during focal cutaneous stimulation. <i>Experimental Brain Research</i> , 2002, 147, 227-242.	1.5	15
29	Hindlimb motor responses to unilateral brain injury: spinal cord encoding and left-right asymmetry. <i>Brain Communications</i> , 2020, 2, fcaa055.	3.3	15
30	LC-MS-MS Determination of Troxerutin in Plasma and Its Application to a Pharmacokinetic Study. <i>Chromatographia</i> , 2011, 73, 165-169.	1.3	14
31	Simultaneous quantification of Aroclor mixtures in soil samples by gas chromatography/mass spectrometry with solid phase microextraction using partial least-squares regression. <i>Chemosphere</i> , 2015, 118, 187-193.	8.2	14
32	Production of Dopamine by Aromatic l-Amino Acid Decarboxylase Cells after Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2016, 33, 1150-1160.	3.4	14
33	The classification of Cannabis hemp cultivars by thermal desorption direct analysis in real time mass spectrometry (TD-DART-MS) with chemometrics. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 8133-8142.	3.7	14
34	Ipsilesional <i>versus</i> contralesional postural deficits induced by unilateral brain trauma: a side reversal by opioid mechanism. <i>Brain Communications</i> , 2020, 2, fcaa208.	3.3	14
35	Use of fuzzy chromatography mass spectrometric (FCMS) fingerprinting and chemometric analysis for differentiation of whole-grain and refined wheat ( <i>T. aestivum</i> ) flour. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7875-7888.	3.7	12
36	Lateral cervical nucleus projections to periaqueductal gray matter in cat. <i>Journal of Comparative Neurology</i> , 2004, 471, 434-445.	1.6	10

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37	Left-Right Side-Specific Neuropeptide Mechanism Mediates Contralateral Responses to a Unilateral Brain Injury. <i>ENeuro</i> , 2021, 8, ENEURO.0548-20.2021.	1.9	10
38	Cervicothalamic tract termination: a reexamination and comparison with the distribution of monoclonal antibody Cat-301 immunoreactivity in the cat. <i>Anatomy and Embryology</i> , 1998, 198, 451-472.	1.5	9
39	A computational tool for accelerated analysis of oligomeric proanthocyanidins in plants. <i>Journal of Food Composition and Analysis</i> , 2017, 56, 124-133.	3.9	9
40	Left-right side-specific endocrine signaling complements neural pathways to mediate acute asymmetric effects of brain injury. <i>ELife</i> , 2021, 10, .	6.0	9
41	Two-step production of monoamines in monoenzymatic cells in the spinal cord: a different control strategy of neurotransmitter supply?. <i>Neural Regeneration Research</i> , 2016, 11, 1904.	3.0	9
42	Determination of Aroclor 1260 in soil samples by gas chromatography with mass spectrometry and solid-phase microextraction. <i>Journal of Separation Science</i> , 2014, 37, 2751-2756.	2.5	8
43	Application of chemometrics to resolve overlapping mass spectral peak clusters between trichloroethylene and its deuterated internal standard. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 789-794.	1.5	8
44	Spinal Cord Hemisection Facilitates Aromatic L-Amino Acid Decarboxylase Cells to Produce Serotonin in the Subchronic but Not the Chronic Phase. <i>Neural Plasticity</i> , 2015, 2015, 1-10.	2.2	8
45	Normal Distribution and Plasticity of Serotonin Receptors after Spinal Cord Injury and Their Impacts on Motor Outputs. , 0, , .		8
46	Heterogenic Distribution of Aromatic L-Amino Acid Decarboxylase Neurons in the Rat Spinal Cord. <i>Frontiers in Integrative Neuroscience</i> , 2017, 11, 31.	2.1	8
47	Organization of the ferret lateral cervical nucleus and cervicothalamic tract. <i>Somatosensory &amp; Motor Research</i> , 2002, 19, 36-48.	0.9	7
48	Aromatic L-amino acid decarboxylase cells in the spinal cord: a potential origin of monoamines. <i>Neural Regeneration Research</i> , 2015, 10, 715.	3.0	7
49	The levels of the serine protease HTRA1 in cerebrospinal fluid correlate with progression and disability in multiple sclerosis. <i>Journal of Neurology</i> , 2021, 268, 3316-3324.	3.6	6
50	Unilateral traumatic brain injury of the left and right hemisphere produces the left hindlimb response in rats. <i>Experimental Brain Research</i> , 2021, 239, 2221-2232.	1.5	6
51	The cervicothalamic tract terminates in Cat301-sparse regions of the cat VPL. <i>NeuroReport</i> , 1996, 7, 1493-1496.	1.2	5
52	Differentiation of <i>Aurantii fructus immaturus</i> and <i>Fructus ponciri trifoliatae immaturus</i> by Flow-Injection with Ultraviolet Spectroscopic Detection and Proton Nuclear Magnetic Resonance Using Partial Least-Squares Discriminant Analysis. <i>Analytical Letters</i> , 2016, 49, 711-722.	1.8	5
53	Vibronic Excitons and Conical Intersections in Semiconductor Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9677-9683.	4.6	5
54	MIF in the cerebrospinal fluid is decreased during relapsing-remitting while increased in secondary progressive multiple sclerosis. <i>Journal of the Neurological Sciences</i> , 2022, 439, 120320.	0.6	5

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55	Unilateral brain injury to pregnant rats induces asymmetric neurological deficits in the offspring. <i>European Journal of Neuroscience</i> , 2021, 53, 3621-3633.	2.6	4
56	Morphological features of cat cervicothalamic tract terminations in different target regions. <i>Brain Research</i> , 2001, 890, 280-286.	2.2	3
57	Rapid and Sensitive Identification and Discrimination of Bound/Unbound Ligands on Colloidal Nanocrystals via Direct Analysis in Real-Time Mass Spectrometry. <i>Langmuir</i> , 2021, 37, 14703-14712.	3.5	3
58	Development of a Metabolite Ratio Rule-Based Method for Automated Metabolite Profiling and Species Differentiation of Four Major Cinnamon Species. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 5450-5457.	5.2	2
59	Simultaneous Determination of Escin Ia and Its Isomer Isoescins Ia by LC-MS/MS: Application to a Pharmacokinetic Study of Escin Ia in Rats. <i>Chromatographia</i> , 2011, 74, 243-250.	1.3	1
60	The left-right side-specific endocrine signaling: implications for neurological deficits in stroke and neurodevelopmental disorders. <i>Neural Regeneration Research</i> , 2022, 17, 2431.	3.0	1
61	The Development of Hindlimb Postural Asymmetry Induced by Focal Traumatic Brain Injury Is Not Related to Serotonin 2A/C Receptor Expression in the Spinal Cord. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5358.	4.1	0