Kevin K W Wang

List of Publications by Citations

356 papers	16,757 citations	72 h-index	116 g-index
381 ext. papers	19,542 ext. citations	5.3 avg, IF	6.5 L-index

#	Paper	IF	Citations
356	Calpain and caspase: can you tell the difference?. *Trends in Neurosciences*, **2000**, 23, 20-6	13.3	890
355	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. *Lancet Neurology, The*, **2017**, 16, 987-1048	24.1	851
354	Non-erythroid alpha-spectrin breakdown by calpain and interleukin 1 beta-converting-enzyme-like protease(s) in apoptotic cells: contributory roles of both protease families in neuronal apoptosis. *Biochemical Journal*, **1996**, 319 (Pt 3), 683-90	3.8	404
353	The calpain family and human disease. *Trends in Molecular Medicine*, **2001**, 7, 355-62	11.5	378
352	Glial fibrillary acidic protein: from intermediate filament assembly and gliosis to neurobiomarker. *Trends in Neurosciences*, **2015**, 38, 364-74	13.3	316
351	Simultaneous degradation of alphaII- and betaII-spectrin by caspase 3 (CPP32) in apoptotic cells. *Journal of Biological Chemistry*, **1998**, 273, 22490-7	5.4	260
350	Cytochrome c release and caspase activation in traumatic axonal injury. *Journal of Neuroscience*, **2000**, 20, 2825-34	6.6	258
349	Acute biomarkers of traumatic brain injury: relationship between plasma levels of ubiquitin C-terminal hydrolase-L1 and glial fibrillary acidic protein. *Journal of Neurotrauma*, **2014**, 31, 19-25	5.4	257
348	Calpain inhibition: an overview of its therapeutic potential. *Trends in Pharmacological Sciences*, **1994** , 15, 412-9	13.2	253
347	Elevated levels of serum glial fibrillary acidic protein breakdown products in mild and moderate traumatic brain injury are associated with intracranial lesions and neurosurgical intervention. *Annals of Emergency Medicine*, **2012**, 59, 471-83	2.1	225
346	Caspase-mediated fragmentation of calpain inhibitor protein calpastatin during apoptosis. *Archives of Biochemistry and Biophysics*, **1998**, 356, 187-96	4.1	224
345	Ubiquitin C-terminal hydrolase is a novel biomarker in humans for severe traumatic brain injury. *Critical Care Medicine*, **2010**, 38, 138-44	1.4	217
344	Clinical utility of serum levels of ubiquitin C-terminal hydrolase as a biomarker for severe traumatic brain injury. *Neurosurgery*, **2012**, 70, 666-75	3.2	215
343	Regional calpain and caspase-3 proteolysis of alpha-spectrin after traumatic brain injury. *NeuroReport*, **1998**, 9, 2437-42	1.7	184
342	An update on diagnostic and prognostic biomarkers for traumatic brain injury. *Expert Review of Molecular Diagnostics*, **2018**, 18, 165-180	3.8	168
341	Clinical significance of alphaII-spectrin breakdown products in cerebrospinal fluid after severe traumatic brain injury. *Journal of Neurotrauma*, **2007**, 24, 354-66	5.4	163
340	Procaspase-3 and poly(ADP)ribose polymerase (PARP) are calpain substrates. *Biochemical and Biophysical Research Communications*, **1999**, 263, 94-9	3.4	157

339	Biokinetic analysis of ubiquitin C-terminal hydrolase-L1 (UCH-L1) in severe traumatic brain injury patient biofluids. *Journal of Neurotrauma*, **2011**, 28, 861-70	5.4	153
338	II-spectrin breakdown products (SBDPs): diagnosis and outcome in severe traumatic brain injury patients. *Journal of Neurotrauma*, **2010**, 27, 1203-13	5.4	152
337	Neuronal and glial markers are differently associated with computed tomography findings and outcome in patients with severe traumatic brain injury: a case control study. *Critical Care*, **2011**, 15, R156	10.8	152
336	Crystal structure of calcium bound domain VI of calpain at 1.9 A resolution and its role in enzyme assembly, regulation, and inhibitor binding. *Nature Structural Biology*, **1997**, 4, 539-47		152
335	Serum levels of ubiquitin C-terminal hydrolase distinguish mild traumatic brain injury from trauma controls and are elevated in mild and moderate traumatic brain injury patients with intracranial lesions and neurosurgical intervention. *Journal of Trauma*, **2012**, 72, 1335-44		151
334	Processing of cdk5 activator p35 to its truncated form (p25) by calpain in acutely injured neuronal cells. *Biochemical and Biophysical Research Communications*, **2000**, 274, 16-21	3.4	151
333	Accumulation of non-erythroid alpha II-spectrin and calpain-cleaved alpha II-spectrin breakdown products in cerebrospinal fluid after traumatic brain injury in rats. *Journal of Neurochemistry*, **2001**, 78, 1297-306	6	150
332	Calpain in the CNS: from synaptic function to neurotoxicity. *Science Signaling*, **2008**, 1, re1	8.8	148
331	Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study. *Lancet Neurology, The*, **2019**, 18, 923-934	24.1	139
330	Novel differential neuroproteomics analysis of traumatic brain injury in rats. *Molecular and Cellular Proteomics*, **2006**, 5, 1887-98	7.6	137
329	Morphologic and biochemical characterization of brain injury in a model of controlled blast overpressure exposure. *Journal of Trauma*, **2010**, 69, 795-804		130
328	GFAP out-performs S100 in detecting traumatic intracranial lesions on computed tomography in trauma patients with mild traumatic brain injury and those with extracranial lesions. *Journal of Neurotrauma*, **2014**, 31, 1815-22	5.4	127
327	2-amino-4H-3,1-benzoxazin-4-ones as inhibitors of C1r serine protease. *Journal of Medicinal Chemistry*, **1998**, 41, 1060-7	8.3	127
326	The seven-transmembrane receptor smoothened cell-autonomously induces multiple ventral cell types. *Nature Neuroscience*, **2000**, 3, 41-6	25.5	124
325	Comparing Plasma Phospho Tau, Total Tau, and Phospho Tau-Total Tau Ratio as Acute and Chronic Traumatic Brain Injury Biomarkers. *JAMA Neurology*, **2017**, 74, 1063-1072	17.2	118
324	Human traumatic brain injury induces autoantibody response against glial fibrillary acidic protein and its breakdown products. *PLoS ONE*, **2014**, 9, e92698	3.7	118
323	Blood-based diagnostics of traumatic brain injuries. *Expert Review of Molecular Diagnostics*, **2011**, 11, 65-78	3.8	116
322	Recovery After Mild Traumatic Brain Injury in Patients Presenting to US Level I Trauma Centers: A Transforming Research and Clinical Knowledge in Traumatic Brain Injury (TRACK-TBI) Study. *JAMA Neurology*, **2019**, 76, 1049-1059	17.2	112

321	Ubiquitin C-terminal hydrolase-L1 as a biomarker for ischemic and traumatic brain injury in rats. *European Journal of Neuroscience*, **2010**, 31, 722-32	3.5	110
320	Effects of ICE-like protease and calpain inhibitors on neuronal apoptosis. *NeuroReport*, **1996**, 8, 249-55	1.7	109
319	Brain injury biomarkers may improve the predictive power of the IMPACT outcome calculator. *Journal of Neurotrauma*, **2012**, 29, 1770-8	5.4	108
318	Serum concentrations of ubiquitin C-terminal hydrolase-L1 and □-spectrin breakdown product 145 kDa correlate with outcome after pediatric TBI. *Journal of Neurotrauma*, **2012**, 29, 162-7	5.4	108
317	Ischemia-reperfusion-induced calpain activation and SERCA2a degradation are attenuated by exercise training and calpain inhibition. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 290, H128-36	5.2	108
316	Serum brain biomarker level, neurocognitive performance, and self-reported symptom changes in soldiers repeatedly exposed to low-level blast: a breacher pilot study. *Journal of Neurotrauma*, **2013**, 30, 1620-30	5.4	101
315	Calpain and caspase processing of caspase-12 contribute to the ER stress-induced cell death pathway in differentiated PC12 cells. *Apoptosis: an International Journal on Programmed Cell Death*, **2010**, 15, 1480-93	5.4	101
314	Calpain-mediated collapsin response mediator protein-1, -2, and -4 proteolysis after neurotoxic and traumatic brain injury. *Journal of Neurotrauma*, **2007**, 24, 460-72	5.4	101
313	Developing selective inhibitors of calpain. *Trends in Pharmacological Sciences*, **1990**, 11, 139-42	13.2	99
312	The novel calpain inhibitor SJA6017 improves functional outcome after delayed administration in a mouse model of diffuse brain injury. *Journal of Neurotrauma*, **2001**, 18, 1229-40	5.4	97
311	Multiple alphaII-spectrin breakdown products distinguish calpain and caspase dominated necrotic and apoptotic cell death pathways. *Apoptosis: an International Journal on Programmed Cell Death*, **2009**, 14, 1289-98	5.4	96
310	Extensive degradation of myelin basic protein isoforms by calpain following traumatic brain injury. *Journal of Neurochemistry*, **2006**, 98, 700-12	6	96
309	The calpain small subunit gene is essential: its inactivation results in embryonic lethality. *IUBMB Life* , **2000**, 50, 63-8	4.7	95
308	Glial neuronal ratio: a novel index for differentiating injury type in patients with severe traumatic brain injury. *Journal of Neurotrauma*, **2012**, 29, 1096-104	5.4	94
307	A Panel of Serum MiRNA Biomarkers for the Diagnosis of Severe to Mild Traumatic Brain Injury in Humans. *Scientific Reports*, **2016**, 6, 28148	4.9	90
306	alphaII-Spectrin breakdown product cerebrospinal fluid exposure metrics suggest differences in cellular injury mechanisms after severe traumatic brain injury. *Journal of Neurotrauma*, **2009**, 26, 471-9	5.4	89
305	Evidence for activation of caspase-3-like protease in excitotoxin- and hypoxia/hypoglycemia-injured neurons. *Journal of Neurochemistry*, **1998**, 71, 186-95	6	86
304	Neuroprotection targets after traumatic brain injury. *Current Opinion in Neurology*, **2006**, 19, 514-9	7.1	85

303	Characterization of CPP32-like protease activity following apoptotic challenge in SH-SY5Y neuroblastoma cells. *Journal of Neurochemistry*, **1997**, 68, 2328-37	6	85
302	Biomarkers of proteolytic damage following traumatic brain injury. *Brain Pathology*, **2004**, 14, 202-9	6	84
301	Calcium/calmodulin-dependent protein kinase IV is cleaved by caspase-3 and calpain in SH-SY5Y human neuroblastoma cells undergoing apoptosis. *Journal of Biological Chemistry*, **1998**, 273, 19993-20000	5.4	83
300	Risk of Posttraumatic Stress Disorder and Major Depression in Civilian Patients After Mild Traumatic Brain Injury: A TRACK-TBI Study. *JAMA Psychiatry*, **2019**, 76, 249-258	14.5	82
299	Association between plasma GFAP concentrations and MRI abnormalities in patients with CT-negative traumatic brain injury in the TRACK-TBI cohort: a prospective multicentre study. *Lancet Neurology, The*, **2019**, 18, 953-961	24.1	81
298	Increased expression and processing of caspase-12 after traumatic brain injury in rats. *Journal of Neurochemistry*, **2004**, 88, 78-90	6	81
297	Activation of the Ca2+-ATPase of human erythrocyte membrane by an endogenous Ca2+-dependent neutral protease. *Archives of Biochemistry and Biophysics*, **1988**, 260, 696-704	4.1	81
296	A structural model for the inhibition of calpain by calpastatin: crystal structures of the native domain VI of calpain and its complexes with calpastatin peptide and a small molecule inhibitor. *Journal of Molecular Biology*, **2003**, 328, 131-46	6.5	80
295	Proteomic identification of biomarkers of traumatic brain injury. *Expert Review of Proteomics*, **2005**, 2, 603-14	4.2	80
294	TNF-alpha stimulates caspase-3 activation and apoptotic cell death in primary septo-hippocampal cultures. *Journal of Neuroscience Research*, **2001**, 64, 121-31	4.4	79
293	Biomarkers of blast-induced neurotrauma: profiling molecular and cellular mechanisms of blast brain injury. *Journal of Neurotrauma*, **2009**, 26, 913-21	5.4	78
292	The plasma membrane calcium pump: a multiregulated transporter. *Trends in Cell Biology*, **1992**, 2, 46-52	18.3	78
291	Comparing calpain- and caspase-3-mediated degradation patterns in traumatic brain injury by differential proteome analysis. *Biochemical Journal*, **2006**, 394, 715-25	3.8	77
290	Protein Biomarkers and Neuroproteomics Characterization of Microvesicles/Exosomes from Human Cerebrospinal Fluid Following Traumatic Brain Injury. *Molecular Neurobiology*, **2018**, 55, 6112-6128	6.2	77
289	Development and therapeutic potential of calpain inhibitors. *Advances in Pharmacology*, **1997**, 37, 117-52	5.7	75
288	Methamphetamine- and trauma-induced brain injuries: comparative cellular and molecular neurobiological substrates. *Biological Psychiatry*, **2009**, 66, 118-27	7.9	74
287	Biochemical, structural, and biomarker evidence for calpain-mediated cytoskeletal change after diffuse brain injury uncomplicated by contusion. *Journal of Neuropathology and Experimental Neurology*, **2009**, 68, 241-9	3.1	74
286	Calpain mediates pulmonary vascular remodeling in rodent models of pulmonary hypertension, and its inhibition attenuates pathologic features of disease. *Journal of Clinical Investigation*, **2011**, 121, 4548-66	15.9	74

285	Assessment of Follow-up Care After Emergency Department Presentation for Mild Traumatic Brain Injury and Concussion: Results From the TRACK-TBI Study. *JAMA Network Open*, **2018**, 1, e180210	10.4	74
284	Acute diagnostic biomarkers for spinal cord injury: review of the literature and preliminary research report. *World Neurosurgery*, **2015**, 83, 867-78	2.1	72
283	Neuronal nitric oxide synthase and calmodulin-dependent protein kinase IIalpha undergo neurotoxin-induced proteolysis. *Journal of Neurochemistry*, **1997**, 69, 1006-13	6	70
282	Alterations of extracellular calcium elicit selective modes of cell death and protease activation in SH-SY5Y human neuroblastoma cells. *Journal of Neurochemistry*, **1999**, 72, 1853-63	6	69
281	Neuro-glial and systemic mechanisms of pathological responses in rat models of primary blast overpressure compared to "composite" blast. *Frontiers in Neurology*, **2012**, 3, 15	4.1	68
280	Approach to Modeling, Therapy Evaluation, Drug Selection, and Biomarker Assessments for a Multicenter Pre-Clinical Drug Screening Consortium for Acute Therapies in Severe Traumatic Brain Injury: Operation Brain Trauma Therapy. *Journal of Neurotrauma*, **2016**, 33, 513-22	5.4	66
279	Temporal relationships between de novo protein synthesis, calpain and caspase 3-like protease activation, and DNA fragmentation during apoptosis in septo-hippocampal cultures. *Journal of Neuroscience Research*, **1998**, 52, 505-20	4.4	64
278	A novel, ultrasensitive assay for tau: potential for assessing traumatic brain injury in tissues and biofluids. *Journal of Neurotrauma*, **2015**, 32, 342-52	5.4	63
277	Concurrent assessment of calpain and caspase-3 activation after oxygen-glucose deprivation in primary septo-hippocampal cultures. *Journal of Cerebral Blood Flow and Metabolism*, **2001**, 21, 1281-94	7.3	62
276	Maitotoxin induces calpain activation in SH-SY5Y neuroblastoma cells and cerebrocortical cultures. *Archives of Biochemistry and Biophysics*, **1996**, 331, 208-14	4.1	62
275	Blood biomarkers on admission in acute traumatic brain injury: Relations to severity, CT findings and care path in the CENTER-TBI study. *EBioMedicine*, **2020**, 56, 102785	8.8	58
274	Concurrent calpain and caspase-3 mediated proteolysis of alpha II-spectrin and tau in rat brain after methamphetamine exposure: a similar profile to traumatic brain injury. *Life Sciences*, **2005**, 78, 301-9	6.8	56
273	Circulating damage marker profiles support a neuroprotective effect of erythropoietin in ischemic stroke patients. *Molecular Medicine*, **2011**, 17, 1306-10	6.2	55
272	Plasma Anti-Glial Fibrillary Acidic Protein Autoantibody Levels during the Acute and Chronic Phases of Traumatic Brain Injury: A Transforming Research and Clinical Knowledge in Traumatic Brain Injury Pilot Study. *Journal of Neurotrauma*, **2016**, 33, 1270-7	5.4	53
271	Insight into Pre-Clinical Models of Traumatic Brain Injury Using Circulating Brain Damage Biomarkers: Operation Brain Trauma Therapy. *Journal of Neurotrauma*, **2016**, 33, 595-605	5.4	53
270	Rapid discovery of putative protein biomarkers of traumatic brain injury by SDS-PAGE-capillary liquid chromatography-tandem mass spectrometry. *Journal of Neurotrauma*, **2005**, 22, 629-44	5.4	53
269	Temporal and spatial profile of caspase 8 expression and proteolysis after experimental traumatic brain injury. *Journal of Neurochemistry*, **2001**, 78, 862-73	6	53
268	Blood-Based Protein Biomarkers for the Management of Traumatic Brain Injuries in Adults Presenting to Emergency Departments with Mild Brain Injury: A Living Systematic Review and Meta-Analysis. *Journal of Neurotrauma*, **2021**, 38, 1086-1106	5.4	53

267	Serum biomarkers of MRI brain injury in neonatal hypoxic ischemic encephalopathy treated with whole-body hypothermia: a pilot study. *Pediatric Critical Care Medicine*, **2013**, 14, 310-7	3	52
266	Proteolysis of multiple myelin basic protein isoforms after neurotrauma: characterization by mass spectrometry. *Journal of Neurochemistry*, **2008**, 104, 1404-14	6	52
265	Endogenous bax translocation in SH-SY5Y human neuroblastoma cells and cerebellar granule neurons undergoing apoptosis. *Journal of Neurochemistry*, **1999**, 72, 1899-906	6	52
264	Unfolded protein response after neurotrauma. *Journal of Neurotrauma*, **2006**, 23, 807-29	5.4	52
263	NMDA receptor antagonist felbamate reduces behavioral deficits and blood-brain barrier permeability changes after experimental subarachnoid hemorrhage in the rat. *Journal of Neurotrauma*, **2007**, 24, 732-44	5.4	52
262	Structure-activity relationship study and drug profile of N-(4-fluorophenylsulfonyl)-L-valyl-L-leucinal (SJA6017) as a potent calpain inhibitor. *Journal of Medicinal Chemistry*, **2003**, 46, 868-71	8.3	51
261	Levetiracetam Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. *Journal of Neurotrauma*, **2016**, 33, 581-94	5.4	50
260	Neuroproteomics in neurotrauma. *Mass Spectrometry Reviews*, **2006**, 25, 380-408	11	50
259	Characterization of the fragmented forms of calcineurin produced by calpain I. *Biochemistry and Cell Biology*, **1989**, 67, 703-11	3.6	50
258	Dual vulnerability of TDP-43 to calpain and caspase-3 proteolysis after neurotoxic conditions and traumatic brain injury. *Journal of Cerebral Blood Flow and Metabolism*, **2014**, 34, 1444-52	7.3	49
257	Calpain and caspase: can you tell the difference?, by kevin K.W. WangVol. 23, pp. 20-26. *Trends in Neurosciences*, **2000**, 23, 59	13.3	49
256	Machine learning algorithms performed no better than regression models for prognostication in traumatic brain injury. *Journal of Clinical Epidemiology*, **2020**, 122, 95-107	5.7	47
255	Assessing neuro-systemic & behavioral components in the pathophysiology of blast-related brain injury. *Frontiers in Neurology*, **2013**, 4, 186	4.1	47
254	Use of biomarkers for diagnosis and management of traumatic brain injury patients. *Expert Opinion on Medical Diagnostics*, **2008**, 2, 937-45		47
253	Synthesis of Findings, Current Investigations, and Future Directions: Operation Brain Trauma Therapy. *Journal of Neurotrauma*, **2016**, 33, 606-14	5.4	46
252	Caspase-mediated calcineurin activation contributes to IL-2 release during T cell activation. *Biochemical and Biophysical Research Communications*, **2001**, 285, 1192-9	3.4	46
251	Acute NMDA toxicity in cultured rat cerebellar granule neurons is accompanied by autophagy induction and late onset autophagic cell death phenotype. *BMC Neuroscience*, **2010**, 11, 21	3.2	45
250	Changes in autophagy proteins in a rat model of controlled cortical impact induced brain injury. *Biochemical and Biophysical Research Communications*, **2008**, 373, 478-81	3.4	45

249	Neuroproteomics and systems biology-based discovery of protein biomarkers for traumatic brain injury and clinical validation. *Proteomics - Clinical Applications*, **2008**, 2, 1467-83	3.1	44
248	Caspase-mediated proteolytic activation of calcineurin in thapsigargin-mediated apoptosis in SH-SY5Y neuroblastoma cells. *Archives of Biochemistry and Biophysics*, **2000**, 379, 337-43	4.1	44
247	Nicotinamide Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. *Journal of Neurotrauma*, **2016**, 33, 523-37	5.4	43
246	Erythropoietin Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. *Journal of Neurotrauma*, **2016**, 33, 538-52	5.4	42
245	Temporal MRI characterization, neurobiochemical and neurobehavioral changes in a mouse repetitive concussive head injury model. *Scientific Reports*, **2015**, 5, 11178	4.9	42
244	Biomarkers track damage after graded injury severity in a rat model of penetrating brain injury. *Journal of Neurotrauma*, **2013**, 30, 1161-9	5.4	42
243	Calpain and caspase proteolytic markers co-localize with rat cortical neurons after exposure to methamphetamine and MDMA. *Acta Neuropathologica*, **2007**, 114, 277-86	14.3	42
242	Selective release of calpain produced alphaII-spectrin (alpha-fodrin) breakdown products by acute neuronal cell death. *Biological Chemistry*, **2002**, 383, 785-91	4.5	42
241	Direct Rho-associated kinase inhibition [correction of inhibiton] induces cofilin dephosphorylation and neurite outgrowth in PC-12 cells. *Cellular and Molecular Biology Letters*, **2006**, 11, 12-29	8.1	41
240	Further characterization of calpain-mediated proteolysis of the human erythrocyte plasma membrane Ca2+-ATPase. *Archives of Biochemistry and Biophysics*, **1988**, 267, 317-27	4.1	41
239	Increased levels of serum MAP-2 at 6-months correlate with improved outcome in survivors of severe traumatic brain injury. *Brain Injury*, **2012**, 26, 1629-35	2.1	40
238	A multidimensional differential proteomic platform using dual-phase ion-exchange chromatography-polyacrylamide gel electrophoresis/reversed-phase liquid chromatography tandem mass spectrometry. *Analytical Chemistry*, **2005**, 77, 4836-45	7.8	40
237	Performance Evaluation of a Multiplex Assay for Simultaneous Detection of Four Clinically Relevant Traumatic Brain Injury Biomarkers. *Journal of Neurotrauma*, **2018**,	5.4	40
236	Tau phosphorylation induced by severe closed head traumatic brain injury is linked to the cellular prion protein. *Acta Neuropathologica Communications*, **2017**, 5, 30	7.3	39
235	Degradation of β-Spectrin Protein by Calpain-2 and Caspase-3 Under Neurotoxic and Traumatic Brain Injury Conditions. *Molecular Neurobiology*, **2015**, 52, 696-709	6.2	39
234	Neurochemical biomarkers in spinal cord injury. *Spinal Cord*, **2019**, 57, 819-831	2.7	39
233	A novel multicenter preclinical drug screening and biomarker consortium for experimental traumatic brain injury: operation brain trauma therapy. *Journal of Trauma*, **2011**, 71, S15-24		39
232	Biomarkers improve clinical outcome predictors of mortality following non-penetrating severe traumatic brain injury. *Neurocritical Care*, **2015**, 22, 52-64	3.3	38

231	Caspase 7: increased expression and activation after traumatic brain injury in rats. *Journal of Neurochemistry*, **2005**, 94, 97-108	6	38
230	Development and characterization of antibodies specific to caspase-3-produced alpha II-spectrin 120 kDa breakdown product: marker for neuronal apoptosis. *Neurochemistry International*, **2000**, 37, 351-61	4.4	38
229	Overpressure blast-wave induced brain injury elevates oxidative stress in the hypothalamus and catecholamine biosynthesis in the rat adrenal medulla. *Neuroscience Letters*, **2013**, 544, 62-7	3.3	37
228	Subcellular localization and duration of mu-calpain and m-calpain activity after traumatic brain injury in the rat: a casein zymography study. *Journal of Cerebral Blood Flow and Metabolism*, **1998**, 18, 161-7	7.3	37
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226	Increased expression of tissue-type transglutaminase following middle cerebral artery occlusion in rats. *Journal of Neurochemistry*, **2004**, 89, 1301-7	6	37
225	Enhanced in Vivo Blood-Brain Barrier Penetration by Circular Tau-Transferrin Receptor Bifunctional Aptamer for Tauopathy Therapy. *Journal of the American Chemical Society*, **2020**, 142, 3862-3872	16.4	36
224	Alpha II-spectrin breakdown products serve as novel markers of brain injury severity in a canine model of hypothermic circulatory arrest. *Annals of Thoracic Surgery*, **2009**, 88, 543-50	2.7	36
223	Psychoproteomic analysis of rat cortex following acute methamphetamine exposure. *Journal of Proteome Research*, **2008**, 7, 1971-83	5.6	36
222	Dual vulnerability of tau to calpains and caspase-3 proteolysis under neurotoxic and neurodegenerative conditions. *ASN Neuro*, **2011**, 3, e00051	5.3	35
221	Calpain- and caspase-mediated alphaII-spectrin and tau proteolysis in rat cerebrocortical neuronal cultures after ecstasy or methamphetamine exposure. *International Journal of Neuropsychopharmacology*, **2007**, 10, 479-89	5.8	35
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218	Molecular cloning and characterization of a novel caspase-3 variant that attenuates apoptosis induced by proteasome inhibition. *Biochemical and Biophysical Research Communications*, **2001**, 283, 762-9	3.4	34
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215	Up-regulation of tissue-type transglutaminase after traumatic brain injury. *Journal of Neurochemistry*, **2002**, 80, 579-88	6	33
214	Cyclosporine Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. *Journal of Neurotrauma*, **2016**, 33, 553-66	5.4	33

213	COMT ValMet polymorphism is associated with post-traumatic stress disorder and functional outcome following mild traumatic brain injury. *Journal of Clinical Neuroscience*, **2017**, 35, 109-116	2.2	32
212	The Temporal Relationship of Mental Health Problems and Functional Limitations following mTBI: A TRACK-TBI and TED Study. *Journal of Neurotrauma*, **2019**, 36, 1786-1793	5.4	32
211	The diagnostic values of UCH-L1 in traumatic brain injury: A meta-analysis. *Brain Injury*, **2018**, 32, 1-17	2.1	32
210	Neuroproteomics: a biochemical means to discriminate the extent and modality of brain injury. *Journal of Neurotrauma*, **2010**, 27, 1837-52	5.4	31
209	Psychiatric research: psychoproteomics, degradomics and systems biology. *Expert Review of Proteomics*, **2008**, 5, 293-314	4.2	31
208	Temporal and spatial profile of Bid cleavage after experimental traumatic brain injury. *Journal of Cerebral Blood Flow and Metabolism*, **2002**, 22, 951-8	7.3	31
207	Ubiquitin C-terminal hydrolase-L1 (UCH-L1) as a therapeutic and diagnostic target in neurodegeneration, neurotrauma and neuro-injuries. *Expert Opinion on Therapeutic Targets*, **2017**, 21, 627-638	6.4	30
206	Simvastatin Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. *Journal of Neurotrauma*, **2016**, 33, 567-80	5.4	30
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203	Stem cells in neuroinjury and neurodegenerative disorders: challenges and future neurotherapeutic prospects. *Neural Regeneration Research*, **2014**, 9, 901-6	4.5	30
202	Identification and Characterization of DNA Aptamers Specific for Phosphorylation Epitopes of Tau Protein. *Journal of the American Chemical Society*, **2018**, 140, 14314-14323	16.4	30
201	Neuroproteomics approach and neurosystems biology analysis: ROCK inhibitors as promising therapeutic targets in neurodegeneration and neurotrauma. *Electrophoresis*, **2012**, 33, 3659-68	3.6	29
200	Amino acid starvation induced autophagic cell death in PC-12 cells: evidence for activation of caspase-3 but not calpain-1. *Apoptosis: an International Journal on Programmed Cell Death*, **2006**, 11, 1573-82	5.4	29
199	Cell-specific DNA fragmentation may be attenuated by a survivin-dependent mechanism after traumatic brain injury in rats. *Experimental Brain Research*, **2005**, 167, 17-26	2.3	29
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197	Point-of-Care Platform Blood Biomarker Testing of Glial Fibrillary Acidic Protein versus S100 Calcium-Binding Protein B for Prediction of Traumatic Brain Injuries: A Transforming Research and Clinical Knowledge in Traumatic Brain Injury Study. *Journal of Neurotrauma*, **2020**, 37, 2460-2467	5.4	29
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