Namas Chandra

List of Publications by Year
in descending order

39 papers	1,233 citations	489802 18 h-index	445137 33 g-index
39 all docs	39 docs citations	39 times ranked	1452 citing authors

#	Article	IF	Citations
1	Animal model of repeated low-level blast traumatic brain injury displays acute and chronic neurobehavioral and neuropathological changes. Experimental Neurology, 2022, 349, 113938.	2.0	14
2	Nanotechnology-based approaches for emerging and re-emerging viruses: Special emphasis on COVID-19. Microbial Pathogenesis, 2021, 156, 104908.	1.3	18
3	Investigation of the direct and indirect mechanisms of primary blast insult to the brain. Scientific Reports, 2021, 11, 16040.	1.6	7
4	Central and peripheral auditory abnormalities in chinchilla animal model of blast-injury. Hearing Research, 2021, 407, 108273.	0.9	12
5	Variations in Constitutive Properties of the Fluid Elicit Divergent Vibrational and Pressure Response Under Shock Wave Loading. Journal of Biomechanical Engineering, 2021, 143, .	0.6	1
6	Behavioral Deficits in Animal Models of Blast Traumatic Brain Injury. Frontiers in Neurology, 2020, 11, 990.	1.1	28
7	Factors Contributing to Increased Blast Overpressure Inside Modern Ballistic Helmets. Applied Sciences (Switzerland), 2020, 10, 7193.	1.3	5
8	Blast exposure predisposes the brain to increased neurological deficits in a model of blast plus blunt traumatic brain injury. Experimental Neurology, 2020, 332, 113378.	2.0	6
9	The evolution of secondary flow phenomena and their effect on primary shock conditions in shock tubes: Experimentation and numerical model. PLoS ONE, 2020, 15, e0227125.	1.1	8
10	Chemokine signaling mediated monocyte infiltration affects anxiety-like behavior following blast injury. Brain, Behavior, and Immunity, 2020, 88, 340-352.	2.0	17
11	Sensor orientation and other factors which increase the blast overpressure reporting errors. PLoS ONE, 2020, 15, e0240262.	1.1	5
12	Does Blast Exposure to the Torso Cause a Blood Surge to the Brain?. Frontiers in Bioengineering and Biotechnology, 2020, 8, 573647.	2.0	10
13	Sensor orientation and other factors which increase the blast overpressure reporting errors. , 2020, 15, e0240262.		0
14	Sensor orientation and other factors which increase the blast overpressure reporting errors. , 2020, 15, e0240262.		0
15	Sensor orientation and other factors which increase the blast overpressure reporting errors. , 2020, 15, e0240262.		0
16	Sensor orientation and other factors which increase the blast overpressure reporting errors. , 2020, 15, e0240262.		0
17	Sensor orientation and other factors which increase the blast overpressure reporting errors. , 2020, 15, e0240262.		0
18	Sensor orientation and other factors which increase the blast overpressure reporting errors. , 2020, 15, e0240262.		0

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19	Characterization of a controlled shock wave delivered by a pneumatic table-top gas driven shock tube. Review of Scientific Instruments, 2019, 90, 075116.	0.6	6
20	A Comprehensive Review of Experimental Rodent Models of Repeated Blast TBI. Frontiers in Neurology, 2019, 10, 1015.	1.1	23
21	Occupational Blast Wave Exposure During Multiday 0.50 Caliber Rifle Course. Frontiers in Neurology, 2019, 10, 797.	1.1	23
22	Synergistic Role of Oxidative Stress and Blood-Brain Barrier Permeability as Injury Mechanisms in the Acute Pathophysiology of Blast-induced Neurotrauma. Scientific Reports, 2019, 9, 7717.	1.6	55
23	Animal Models of Traumatic Brain Injury and Assessment of Injury Severity. Molecular Neurobiology, 2019, 56, 5332-5345.	1.9	152
24	Effect of Tissue Material Properties in Blast Loading: Coupled Experimentation and Finite Element Simulation. Annals of Biomedical Engineering, 2019, 47, 2019-2032.	1.3	13
25	A Single Primary Blast-Induced Traumatic Brain Injury in a Rodent Model Causes Cell-Type Dependent Increase in Nicotinamide Adenine Dinucleotide Phosphate Oxidase Isoforms in Vulnerable Brain Regions. Journal of Neurotrauma, 2018, 35, 2077-2090.	1.7	30
26	Electrophysiological Correlates of Blast-Wave Induced Cerebellar Injury. Scientific Reports, 2018, 8, 13633.	1.6	6
27	Effective testing of personal protective equipment in blast loading conditions in shock tube: Comparison of three different testing locations. PLoS ONE, 2018, 13, e0198968.	1.1	13
28	On the Accurate Determination of Shock Wave Time-Pressure Profile in the Experimental Models of Blast-Induced Neurotrauma. Frontiers in Neurology, 2018, 9, 52.	1.1	16
29	Temporal and Spatial Effects of Blast Overpressure on Blood-Brain Barrier Permeability in Traumatic Brain Injury. Scientific Reports, 2018, 8, 8681.	1.6	60
30	Validation of Laboratory Animal and Surrogate Human Models in Primary Blast Injury Studies. Military Medicine, 2017, 182, 105-113.	0.4	26
31	Nonlinear characterization of elasticity using quantitative optical coherence elastography. Biomedical Optics Express, 2016, 7, 4702.	1.5	29
32	Quantitative optical coherence elastography based on fiber-optic probe for in situ measurement of tissue mechanical properties. Biomedical Optics Express, 2016, 7, 688.	1.5	41
33	Primary blast causes mild, moderate, severe and lethal TBI with increasing blast overpressures: Experimental rat injury model. Scientific Reports, 2016, 6, 26992.	1.6	91
34	Role of Matrix Metalloproteinases in the Pathogenesis of Traumatic Brain Injury. Molecular Neurobiology, 2016, 53, 6106-6123.	1.9	70
35	Tailoring the Blast Exposure Conditions in the Shock Tube for Generating Pure, Primary Shock Waves: The End Plate Facilitates Elimination of Secondary Loading of the Specimen. PLoS ONE, 2016, 11, e0161597.	1.1	49
36	A Parametric Approach to Shape Field-Relevant Blast Wave Profiles in Compressed-Gas-Driven Shock Tube. Frontiers in Neurology, 2014, 5, 253.	1.1	27

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37	Mechanical stretch exacerbates the cell death in SH-SY5Y cells exposed to paraquat: mitochondrial dysfunction and oxidative stress. NeuroToxicology, 2014, 41, 54-63.	1.4	31
38	Induction of oxidative and nitrosative damage leads to cerebrovascular inflammation in an animal model of mild traumatic brain injury induced by primary blast. Free Radical Biology and Medicine, 2013, 60, 282-291.	1.3	224
39	Blast-Induced Biomechanical Loading of the Rat: An Experimental and Anatomically Accurate Computational Blast Injury Model. Journal of Neurotrauma, 2012, 29, 2352-2364.	1.7	117