Catherine E Johnson

List of Publications by Year
in descending order

29	319	840776 11	888059 17
papers	citations	h-index	g-index

29	29	29	283
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Proteomic Profiling of Mouse Brains Exposed to Blast-Induced Mild Traumatic Brain Injury Reveals Changes in Axonal Proteins and Phosphorylated Tau. Journal of Alzheimer's Disease, 2018, 66, 751-773.	2.6	48
2	Linking blast physics to biological outcomes in mild traumatic brain injury: Narrative review and preliminary report of an open-field blast model. Behavioural Brain Research, 2018, 340, 147-158.	2.2	47
3	Ultrastructural brain abnormalities and associated behavioral changes in mice after low-intensity blast exposure. Behavioural Brain Research, 2018, 347, 148-157.	2.2	36
4	Proteomic Analysis and Biochemical Correlates of Mitochondrial Dysfunction after Low-Intensity Primary Blast Exposure. Journal of Neurotrauma, 2019, 36, 1591-1605.	3.4	24
5	Multi-Focal Neuronal Ultrastructural Abnormalities and Synaptic Alterations in Mice after Low-Intensity Blast Exposure. Journal of Neurotrauma, 2019, 36, 2117-2128.	3.4	16
6	Shock Wave Physics as Related to Primary Non-Impact Blast-Induced Traumatic Brain Injury. Military Medicine, 2021, 186, 601-609.	0.8	16
7	Nanometer ultrastructural brain damage following low intensity primary blast wave exposure. Neural Regeneration Research, 2018, 13, 1516.	3.0	16
8	Explosive fragmentation of luminescent diamond particles. Carbon, 2020, 164, 442-450.	10.3	15
9	Detonation synthesis of silicon carbide nanoparticles. Ceramics International, 2020, 46, 6951-6954.	4.8	14
10	Comminution of pulverized Pittsburgh coal during ASTM E1226-12a dust combustibility testing. Powder Technology, 2020, 375, 28-32.	4.2	13
11	Effect of explosive charge geometry on shock wave propagation. AIP Conference Proceedings, 2018, , .	0.4	11
12	Evaluation of the 20â€¯L dust explosibility testing chamber and comparison to a modified 38â€¯L vessel for underground coal. International Journal of Mining Science and Technology, 2018, 28, 885-890.	10.3	7
13	Post-movement stabilization time for the downwash region of a 6-rotor UAV for remote gas monitoring. Heliyon, 2020, 6, e04994.	3.2	7
14	Low-intensity blast induces acute glutamatergic hyperexcitability in mouse hippocampus leading to long-term learning deficits and altered expression of proteins involved in synaptic plasticity and serine protease inhibitors. Neurobiology of Disease, 2022, 165, 105634.	4.4	7
15	Detonation synthesis of alpha-variant silicon carbide. AIP Conference Proceedings, 2018, , .	0.4	5
16	Effect of Wave Collision on Fragmentation, Throw, and Energy Efficiency of Mining and Comminution. Green Energy and Technology, 2018, , 55-70.	0.6	4
17	An evaluation of measured and predicted air blast parameters from partially confined blast waves. Shock Waves, 2021, 31, 175-192.	1.9	4
18	Investigating anisotropic blast wave parameters near the explosive-air boundary using computer simulation and experimental techniques with varying charge geometry. Journal of Applied Physics, 2021, 130, .	2.5	4

#	Article	IF	Citations
19	Reactive not Proactive: Explosive Identification Taggant History and Introduction of the Nuclear Barcode Taggant Model. Propellants, Explosives, Pyrotechnics, 2019, 44, 397-407.	1.6	3
20	Shock focusing effects on silica phase production during cyclotrimethylene trinitramine/2,4,6-trinitrotoluene detonations. Journal of Applied Physics, 2021, 129, 045901.	2.5	3
21	Blast Wave Shaping by Altering Crossâ€Sectional Shape. Propellants, Explosives, Pyrotechnics, 2021, 46, 926-934.	1.6	3
22	Relating detonation parameters to the detonation synthesis of silicon carbide. Journal of Applied Physics, 2022, 131, .	2.5	3
23	Shock wave formation from head-on collision of two subsonic vortex rings. Scientific Reports, 2022, 12, 7492.	3.3	3
24	An experimental and simulated investigation into the validity of unrestricted blast wave scaling models when applied to transonic flow in complex tunnel environments. International Journal of Protective Structures, 2023, 14, 165-220.	2.3	3
25	Effects of delaying measurements of concentration using neutron activation analysis on explosive taggants. Applied Radiation and Isotopes, 2020, 156, 109007.	1.5	2
26	Detonation synthesis of nanoscale silicon carbide from elemental silicon. Ceramics International, 2022, 48, 4456-4463.	4.8	2
27	Holmium and samarium detectability in post-blast residue. AIP Conference Proceedings, 2018, , .	0.4	1
28	Effects of Downwash from a 6-Rotor Unmanned Aerial Vehicle (UAV) on Gas Monitor Concentrations. Mining, Metallurgy and Exploration, 2021, 38, 1789-1800.	0.8	1
29	Effects of inert additives on cyclotrimethylene-trinitramine (RDX)/trinitrotoluene (TNT) detonation parameters to predict detonation synthesis phase production. AIP Conference Proceedings, 2020, , .	0.4	1