

# Catherine E Johnson

## List of Publications by Year in descending order

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29  
papers

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citations

840776

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docs citations

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times ranked

283  
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental and simulated investigation into the validity of unrestricted blast wave scaling models when applied to transonic flow in complex tunnel environments. <i>International Journal of Protective Structures</i> , 2023, 14, 165-220.	2.3	3
2	Detonation synthesis of nanoscale silicon carbide from elemental silicon. <i>Ceramics International</i> , 2022, 48, 4456-4463.	4.8	2
3	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. <i>Neurobiology of Disease</i> , 2022, 165, 105634.	4.4	7
4	Relating detonation parameters to the detonation synthesis of silicon carbide. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	3
5	Shock wave formation from head-on collision of two subsonic vortex rings. <i>Scientific Reports</i> , 2022, 12, 7492.	3.3	3
6	Shock focusing effects on silica phase production during cyclotrimethylene trinitramine/2,4,6-trinitrotoluene detonations. <i>Journal of Applied Physics</i> , 2021, 129, 045901.	2.5	3
7	Shock Wave Physics as Related to Primary Non-Impact Blast-Induced Traumatic Brain Injury. <i>Military Medicine</i> , 2021, 186, 601-609.	0.8	16
8	An evaluation of measured and predicted air blast parameters from partially confined blast waves. <i>Shock Waves</i> , 2021, 31, 175-192.	1.9	4
9	Blast Wave Shaping by Altering Cross-Sectional Shape. <i>Propellants, Explosives, Pyrotechnics</i> , 2021, 46, 926-934.	1.6	3
10	Effects of Downwash from a 6-Rotor Unmanned Aerial Vehicle (UAV) on Gas Monitor Concentrations. <i>Mining, Metallurgy and Exploration</i> , 2021, 38, 1789-1800.	0.8	1
11	Investigating anisotropic blast wave parameters near the explosive-air boundary using computer simulation and experimental techniques with varying charge geometry. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	4
12	Effects of delaying measurements of concentration using neutron activation analysis on explosive taggants. <i>Applied Radiation and Isotopes</i> , 2020, 156, 109007.	1.5	2
13	Detonation synthesis of silicon carbide nanoparticles. <i>Ceramics International</i> , 2020, 46, 6951-6954.	4.8	14
14	Post-movement stabilization time for the downwash region of a 6-rotor UAV for remote gas monitoring. <i>Heliyon</i> , 2020, 6, e04994.	3.2	7
15	Comminution of pulverized Pittsburgh coal during ASTM E1226-12a dust combustibility testing. <i>Powder Technology</i> , 2020, 375, 28-32.	4.2	13
16	Explosive fragmentation of luminescent diamond particles. <i>Carbon</i> , 2020, 164, 442-450.	10.3	15
17	Effects of inert additives on cyclotrimethylene-trinitramine (RDX)/trinitrotoluene (TNT) detonation parameters to predict detonation synthesis phase production. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
18	Multi-Focal Neuronal Ultrastructural Abnormalities and Synaptic Alterations in Mice after Low-Intensity Blast Exposure. <i>Journal of Neurotrauma</i> , 2019, 36, 2117-2128.	3.4	16

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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	Proteomic Analysis and Biochemical Correlates of Mitochondrial Dysfunction after Low-Intensity Primary Blast Exposure. Journal of Neurotrauma, 2019, 36, 1591-1605.	3.4	24
21	Ultrastructural brain abnormalities and associated behavioral changes in mice after low-intensity blast exposure. Behavioural Brain Research, 2018, 347, 148-157.	2.2	36
22	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
23	Effect of Wave Collision on Fragmentation, Throw, and Energy Efficiency of Mining and Comminution. Green Energy and Technology, 2018, , 55-70.	0.6	4
24	Detonation synthesis of alpha-variant silicon carbide. AIP Conference Proceedings, 2018, , .	0.4	5
25	Holmium and samarium detectability in post-blast residue. AIP Conference Proceedings, 2018, , .	0.4	1
26	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
27	Effect of explosive charge geometry on shock wave propagation. AIP Conference Proceedings, 2018, , .	0.4	11
28	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
29	Nanometer ultrastructural brain damage following low intensity primary blast wave exposure. Neural Regeneration Research, 2018, 13, 1516.	3.0	16