Trygve Skjold

List of Publications by Year
in descending order

25 papers	556 citations	516710 16 h-index	610901 24 g-index
26 all docs	26 docs citations	26 times ranked	360 citing authors

#	Article	IF	Citations
1	Review of the DESC project. Journal of Loss Prevention in the Process Industries, 2007, 20, 291-302.	3.3	55
2	Simulating Dust Explosions with the First Version of DESC. Chemical Engineering Research and Design, 2005, 83, 151-160.	5.6	49
3	An integrated, multi-scale modelling approach for the simulation of multiphase dispersion from accidental CO2 pipeline releases in realistic terrain. International Journal of Greenhouse Gas Control, 2014, 27, 221-238.	4.6	40
4	Simulation of dust explosions in complex geometries with experimental input from standardized tests. Journal of Loss Prevention in the Process Industries, 2006, 19, 210-217.	3.3	39
5	3D risk management for hydrogen installations. International Journal of Hydrogen Energy, 2017, 42, 7721-7730.	7.1	37
6	Evaluation of multi-phase atmospheric dispersion models for application to Carbon Capture and Storage. Journal of Loss Prevention in the Process Industries, 2014, 32, 286-298.	3.3	35
7	Vented hydrogen deflagrations in containers: Effect of congestion for homogeneous and inhomogeneous mixtures. International Journal of Hydrogen Energy, 2019, 44, 8819-8832.	7.1	34
8	Determination of the maximum effective burning velocity of dustâ€“air mixtures in constant volume combustion. Journal of Loss Prevention in the Process Industries, 2007, 20, 462-469.	3.3	24
9	Explosions of carbon black and propane hybrid mixtures. Journal of Loss Prevention in the Process Industries, 2013, 26, 45-51.	3.3	22
10	Experimental and numerical investigation of constant volume dust and gas explosions in a 3.6-mÂflame acceleration tube. Journal of Loss Prevention in the Process Industries, 2014, 30, 164-176.	3.3	21
11	Fires and explosions. Progress in Energy and Combustion Science, 2018, 64, 2-3.	31.2	20
12	Consequence models for vented hydrogen deflagrations: CFD vs. engineering models. International Journal of Hydrogen Energy, 2019, 44, 8699-8710.	7.1	20
13	Simulating vented hydrogen deflagrations: Improved modelling in the CFD tool FLACS-hydrogen. International Journal of Hydrogen Energy, 2021, 46, 12464-12473.	7.1	18
14	A constant pressure dust explosion experiment. Journal of Loss Prevention in the Process Industries, 2013, 26, 562-570.	3.3	17
15	Construction of a 36â€¯L dust explosion apparatus and turbulence flow field comparison with a standard 20â€¯L dust explosion vessel. Journal of Loss Prevention in the Process Industries, 2018, 55, 113-123.	3.3	17
16	Blind-prediction: Estimating the consequences of vented hydrogen deflagrations for inhomogeneous mixtures in 20-foot ISO containers. Journal of Loss Prevention in the Process Industries, 2019, 61, 220-236.	3.3	17
17	On the Application of the Levenbergâ€“Marquardt Method in Conjunction with an Explicit Rungeâ€“Kutta and an Implicit Rosenbrock Method to Assess Burning Velocities from Confined Deflagrations. Flow, Turbulence and Combustion, 2013, 91, 281-317.	2.6	16
18	Validation of the DESC Code in Simulating the Effect of Vent Ducts on Dust Explosions. Industrial & Engineering Chemistry Research, 2013, 52, 6057-6067.	3.7	15

#	Article	IF	Citations
19	Blind-prediction: Estimating the consequences of vented hydrogen deflagrations for homogeneous mixtures in 20-foot ISO containers. International Journal of Hydrogen Energy, 2019, 44, 8997-9008.	7.1	15
20	Structural response for vented hydrogen deflagrations: Coupling CFD and FE tools. International Journal of Hydrogen Energy, 2019, 44, 8893-8903.	7.1	14
21	Computational fluid dynamics simulations of hydrogen releases and vented deflagrations in large enclosures. Journal of Loss Prevention in the Process Industries, 2020, 63, 103999.	3.3	12
22	Dust explosion modeling: Status and prospects. Particulate Science and Technology, 2018, 36, 489-500.	2.1	7
23	A brief review on the effect of particle size on the laminar burning velocity of flammable dust: Application in a CFD tool for industrial applications. Journal of Loss Prevention in the Process Industries, 2019, 62, 103929.	3.3	6
24	Investigation of an explosion in a gasoline purification plant. Process Safety Progress, 2013, 32, 268-276.	1.0	3
25	Assessing the influence of real releases on explosions: Selected results from large-scale experiments. Journal of Loss Prevention in the Process Industries, 2021, 72, 104561.	3.3	3