

Jenq-Renn Chen

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

825
citations

471509

17
h-index

501196

28
g-index

44
all docs

44
docs citations

44
times ranked

847
citing authors

#	ARTICLE	IF	CITATIONS
1	Postnatal exposure of the male mouse to 2,2,3,3,4,4,5,5,6,6-decabrominated diphenyl ether: Decreased epididymal sperm functions without alterations in DNA content and histology in testis. <i>Toxicology</i> , 2006, 224, 33-43.	4.2	103
2	Relationship between flash point of ionic liquids and their thermal decomposition. <i>Green Chemistry</i> , 2012, 14, 2001.	9.0	79
3	Sperm DNA damage correlates with polycyclic aromatic hydrocarbons biomarker in coke-oven workers. <i>International Archives of Occupational and Environmental Health</i> , 2006, 79, 349-356.	2.3	58
4	Aerobic co-composting degradation of highly PCDD/F-contaminated field soil. A study of bacterial community. <i>Science of the Total Environment</i> , 2019, 660, 595-602.	8.0	55
5	A predictive risk index for safety performance in process industries. <i>Journal of Loss Prevention in the Process Industries</i> , 2004, 17, 233-242.	3.3	54
6	Study on Exothermic Oxidation of Acrylonitrile-butadiene-styrene (ABS) Resin Powder with Application to ABS Processing Safety. <i>Polymers</i> , 2010, 2, 174-187.	4.5	42
7	Occurrence of phthalate esters around the major plastic industrial area in southern Taiwan. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	35
8	Analysis of a silane explosion in a photovoltaic fabrication plant. <i>Process Safety Progress</i> , 2006, 25, 237-244.	1.0	29
9	Estimation of waste generation from floods. <i>Waste Management</i> , 2007, 27, 1717-1724.	7.4	29
10	White rot fungus <i>Pleurotus pulmonarius</i> enhanced bioremediation of highly PCDD/F-contaminated field soil via solid state fermentation. <i>Science of the Total Environment</i> , 2020, 738, 139670.	8.0	29
11	The adverse effects of low-dose exposure to Di(2-ethylhexyl) phthalate during adolescence on sperm function in adult rats. <i>Environmental Toxicology</i> , 2016, 31, 706-712.	4.0	28
12	Revisiting of a silane explosion in a photovoltaic fabrication plant. <i>Process Safety Progress</i> , 2007, 26, 155-158.	1.0	21
13	Field tests of release, ignition, and explosion from silane cylinder valve and gas cabinet. <i>Process Safety Progress</i> , 2007, 26, 265-282.	1.0	21
14	An inherently safer process of cyclohexane oxidation using pure oxygen? An example of how better process safety leads to better productivity. <i>Process Safety Progress</i> , 2004, 23, 72-81.	1.0	20
15	Effect of Chemically Inert Particles on Thermodynamic Characteristics and Detonation of a Combustible Gas. <i>Combustion Science and Technology</i> , 2009, 181, 1038-1064.	2.3	17
16	Experimental studies on the ignition behavior of pure silane released into air. <i>Journal of Loss Prevention in the Process Industries</i> , 2010, 23, 170-177.	3.3	17
17	Flow and flame visualization near the upper flammability limits of methane/air and propane/air mixtures at elevated pressures. <i>Journal of Loss Prevention in the Process Industries</i> , 2011, 24, 662-670.	3.3	17
18	Confined vapor explosion in Kaohsiung City – A detailed analysis of the tragedy in the harbor city. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 41, 107-120.	3.3	17

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19	Simple and safe method for determining explosion limits at elevated pressures. <i>AIChE Journal</i> , 2003, 49, 2427-2432.	3.6	15
20	A Novel Process of Autoxidation of Cyclohexane Using Pure Oxygen. <i>Organic Process Research and Development</i> , 2004, 8, 252-255.	2.7	13
21	Transgenerational effects of BDE-209 on male reproduction in F3 offspring rats. <i>Chemosphere</i> , 2021, 272, 129829.	8.2	13
22	The use of ultrasound-assisted anaerobic compost tea washing to remove poly-chlorinated dibenzo-p-dioxins (PCDDs), dibenzo-furans (PCDFs) from highly contaminated field soils. <i>Environmental Science and Pollution Research</i> , 2017, 24, 18936-18945.	5.3	12
23	Experimental studies of ignition and explosions in cyclohexane liquid under oxygen oxidation conditions. <i>Journal of Loss Prevention in the Process Industries</i> , 2005, 18, 97-106.	3.3	11
24	Characterization of Shock-Sensitive Deposits from the Hydrolysis of Hexachlorodisilane. <i>ACS Omega</i> , 2019, 4, 1416-1424.	3.5	11
25	Suppression of flame propagation in a long duct by inertia isolation with inert gases. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 59, 23-34.	3.3	10
26	Innovative mycoremediation technique for treating unsterilized PCDD/F-contaminated field soil and the exploration of chlorinated metabolites. <i>Environmental Pollution</i> , 2021, 289, 117869.	7.5	10
27	Ultrasonic Soil Washing with Fish Oil Extract to Remove Polychlorinated Dibenzo-p-dioxins (PCDDs), Dibenzofurans (PCDFs) from Highly Contaminated Field Soils. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	2.4	8
28	Numerical analysis on the hot spot in reactive chemical storage. <i>Journal of Loss Prevention in the Process Industries</i> , 1999, 12, 125-136.	3.3	7
29	Unconfined silane-air explosions. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 700-710.	3.3	6
30	Safe acetoxylation of propylene: The role of oxygen. <i>Process Safety Progress</i> , 2005, 24, 280-286.	1.0	5
31	Acid Gas, Acid Aerosol and Chlorine Emissions from Trichlorosilane Burning Processes. <i>Aerosol and Air Quality Research</i> , 2011, 11, 323-330.	2.1	5
32	Airborne Persistent Organic Pollutants and Male Reproductive Health. <i>Aerosol and Air Quality Research</i> , 2014, 14, 1292-1298.	2.1	5
33	Failure analysis of a silane gas cylinder valve: A case study. <i>Engineering Failure Analysis</i> , 2008, 15, 275-280.	4.0	3
34	CGA G-13 large-scale silane release tests – Part I. Silane jet flame impingement tests and thermal radiation measurement. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 36, 478-487.	3.3	3
35	Assessment and Control of Detonation Hazard of Silane-Containing Mixtures. <i>Journal of Engineering Physics and Thermophysics</i> , 2017, 90, 465-479.	0.6	3
36	Characterization and control of energetic deposits from hexachlorodisilane in process tool exhaust lines. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 65, 104127.	3.3	3

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37	Disposal of hexachlorodisilane and its hydrolyzed deposits. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 65, 104136.	3.3	3
38	Explosion Safety Aspects of Shock Wave-Induced Condensation in Fuel-Rich Gaseous Mixtures. <i>Combustion Science and Technology</i> , 2008, 180, 1317-1333.	2.3	2
39	CGA G-13 large-scale silane release test “ Part II. Unconfined silane“air explosions. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 36, 488-496.	3.3	2
40	Enhanced friction and shock sensitivities of hexachlorodisilane hydrolyzed deposit mixed with KOH. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 71, 104455.	3.3	2
41	Emergency response of toxic chemicals in Taiwan: The system and case studies. <i>Process Safety Progress</i> , 2004, 23, 206-213.	1.0	1
42	Shock induced condensation in a fuel-rich oxygen containing bubble in a flammable liquid. <i>Chemical Engineering Science</i> , 2008, 63, 696-710.	3.8	1
43	Experimental studies of ignition and explosion in a water column bubbling with hydrogen and oxygen. <i>Journal of Loss Prevention in the Process Industries</i> , 2009, 22, 7-14.	3.3	0
44	Effects of temperature and moisture on the ignition behavior of silane release into air. <i>Combustion, Explosion and Shock Waves</i> , 2017, 53, 276-282.	0.8	0