Horng-Jang Liaw

List of Publications by Year
in descending order

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44 papers	1,307 citations	331670 21 h-index	345221 36 g-index
44 all docs	44 docs citations	44 times ranked	540 citing authors

#	Article	IF	Citations
1	Oxidation and thermal stability analysis of hexadecyl mercaptan added to engine oil. Journal of Thermal Analysis and Calorimetry, 2022, 147, 4685-4696.	3.6	3
2	Mathematical model for describing the influence of initial pressure on the flammability limits of light hydrocarbons at subatmospheric pressures. Journal of Loss Prevention in the Process Industries, 2022, 77, 104776.	3.3	3
3	Flash point study of ternary mixtures comprising binary constituents that exhibit maximum flash point behavior and minimum flash point behavior. Thermochimica Acta, 2022, 713, 179246.	2.7	6
4	Systematic thermal and flammability hazard analysis of a DMPAT explosion accident in Taiwan. Chemical Engineering Research and Design, 2021, 148, 20-33.	5.6	10
5	Flash point investigation of ternary mixtures of 1-butanol/2-pentanol + acetic acid + ethylbenzene. Chemical Engineering Research and Design, 2021, 154, 131-141.	5.6	11
6	An efficient method for identifying the chemical hazards of exceptionâ€handling tasks and processes derived from abnormal process conditions. Process Safety Progress, 2021, 40, 23-34.	1.0	2
7	Maximum flash point behavior of ternary mixtures with single and two maximum flash point binary constituents. Chemical Engineering Research and Design, 2020, 143, 293-303.	5.6	9
8	Deficiencies frequently encountered in the management of process safety information. Chemical Engineering Research and Design, 2019, 132, 226-230.	5.6	19
9	Increased flammability hazard when ionic liquid [C6mim][Cl] is exposed to high temperatures. Journal of Hazardous Materials, 2019, 367, 407-417.	12.4	19
10	Minimum flash point behavior of ternary solutions with three minimum flash point binary constituents. Fuel, 2018, 217, 626-632.	6.4	10
11	Classification for ternary flash point mixtures diagrams regarding miscible flammable compounds. Fluid Phase Equilibria, 2018, 466, 110-123.	2.5	7
12	Lessons in process safety management learned from a pesticide plant explosion in Taiwan. Process Safety Progress, 2018, 37, 104-109.	1.0	9
13	The maximum flammable content for binary aqueousâ€“organic mixtures not to flash and their maximum flash points. AIChE Journal, 2018, 64, 263-271.	3.6	4
14	Flammability characteristics of ionic liquid 1-Decyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. Journal of Loss Prevention in the Process Industries, 2017, 49, 620-629.	3.3	29
15	On the relation between azeotropic behavior and minimum / maximum flash point occurrences in binary mixtures of flammable compounds. Fluid Phase Equilibria, 2017, 452, 113-134.	2.5	10
16	Lessons in process safety management learned in the Kaohsiung gas explosion accident in Taiwan. Process Safety Progress, 2016, 35, 228-232.	1.0	29
17	A model for predicting temperature effect on flammability limits. Fuel, 2016, 178, 179-187.	6.4	41
18	Flammability limits estimation for fuelâ€“airâ€“diluent mixtures tested in a constant volume vessel. Chemical Engineering Research and Design, 2016, 100, 150-162.	5.6	18

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19	Effect of Heating Temperature on the Flash Point of Ionic Liquids. Procedia Engineering, 2014, 84, 293-296.	1.2	8
20	Flash-point estimation for binary partially miscible mixtures of flammable solvents by UNIFAC group contribution methods. Fluid Phase Equilibria, 2014, 375, 275-285.	2.5	26
21	Auto-ignition Characteristics of Selected Ionic Liquids. Procedia Engineering, 2014, 84, 285-292.	1.2	10
22	Effects of upper explosion limit for isopropyl alcohol by steam inerting at 1Âatm and 150ÂÂ°C by 20-L-apparatus. Journal of Thermal Analysis and Calorimetry, 2013, 113, 1619-1624.	3.6	4
23	Flash points of partially miscible aqueousâ€“organic mixtures predicted by UNIFAC group contribution methods. Fluid Phase Equilibria, 2013, 345, 45-59.	2.5	20
24	Study of Two Different Types of Minimum Flash-Point Behavior for Ternary Mixtures. Industrial & Engineering Chemistry Research, 2013, 52, 7579-7585.	3.7	22
25	Study of Minimum Flash-point Behavior for Ternary Mixtures of Flammable Solvents. Procedia Engineering, 2012, 45, 507-511.	1.2	4
26	Model To Estimate the Flammability Limits of Fuelâ€“Airâ€“Diluent Mixtures Tested in a Constant Pressure Vessel. Industrial & Engineering Chemistry Research, 2012, 51, 2747-2761.	3.7	31
27	Relationship between flash point of ionic liquids and their thermal decomposition. Green Chemistry, 2012, 14, 2001.	9.0	79
28	Prediction of miscible mixtures flash-point from UNIFAC group contribution methods. Fluid Phase Equilibria, 2011, 300, 70-82.	2.5	72
29	Effect of stirring on the safety of flammable liquid mixtures. Journal of Hazardous Materials, 2010, 177, 1093-1101.	12.4	20
30	Flash Point for Ternary Partially Miscible Mixtures of Flammable Solvents. Journal of Chemical & Engineering Data, 2010, 55, 134-146.	1.9	42
31	Flash-Point Measurements and Modeling for Ternary Partially Miscible Aqueousâ^'Organic Mixtures. Journal of Chemical & Engineering Data, 2010, 55, 3451-3461.	1.9	31
32	Autoignition Temperature Data for Methanol, Ethanol, Propanol, 2-Butanol, 1-Butanol, and 2-Methyl-2,4-pentanediol. Journal of Chemical & Engineering Data, 2010, 55, 5059-5064.	1.9	45
33	Carbon dioxide dilution effect on flammability limits for hydrocarbons. Journal of Hazardous Materials, 2009, 163, 795-803.	12.4	51
34	Nitrogen dilution effect on the flammability limits for hydrocarbons. Journal of Hazardous Materials, 2009, 166, 880-890.	12.4	39
35	Flash-point prediction for binary partially miscible mixtures of flammable solvents. Journal of Hazardous Materials, 2008, 153, 1165-1175.	12.4	59
36	Elimination of minimum flash-point behavior by addition of a specified third component. Journal of Loss Prevention in the Process Industries, 2008, 21, 82-100.	3.3	14

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37	Flash-point prediction for binary partially miscible aqueousâ€“organic mixtures. Chemical Engineering Science, 2008, 63, 4543-4554.	3.8	46
38	Binary mixtures exhibiting maximum flash-point behavior. Journal of Hazardous Materials, 2007, 140, 155-164.	12.4	38
39	A non-ideal model for predicting the effect of dissolved salt on the flash point of solvent mixtures. Journal of Hazardous Materials, 2007, 141, 193-201.	12.4	25
40	A general model for predicting the flash point of miscible mixtures. Journal of Hazardous Materials, 2006, 137, 38-46.	12.4	99
41	A model for predicting the flash point of ternary flammable solutions of liquid. Combustion and Flame, 2004, 138, 308-319.	5.2	80
42	The prediction of the flash point for binary aqueous-organic solutions. Journal of Hazardous Materials, 2003, 101, 83-106.	12.4	74
43	A mathematical model for predicting the flash point of binary solutions. Journal of Loss Prevention in the Process Industries, 2002, 15, 429-438.	3.3	127
44	Process safety management lessons learned from a fire accident caused by the reverse flow of highâ€pressure gas in a residual desulfurization process in Taiwan. Process Safety Progress, 0, , .	1.0	2