

# Dumitru Oancea

## List of Publications by Year in descending order

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52  
papers

1,398  
citations

304743

22  
h-index

345221

36  
g-index

52  
all docs

52  
docs citations

52  
times ranked

547  
citing authors

#	ARTICLE	IF	CITATIONS
1	Propagation of CH <sub>4</sub> -N <sub>2</sub> O-N <sub>2</sub> Flames in a Closed Spherical Vessel. <i>Processes</i> , 2021, 9, 851.	2.8	10
2	Propagation Velocity of Flames in Inert-Diluted Stoichiometric Propane-Air Mixtures: Pressure and Temperature Dependence. <i>Processes</i> , 2021, 9, 997.	2.8	3
3	Ignition by Low-Voltage Electric Discharges of Diluted and Undiluted C <sub>3</sub> H <sub>8</sub> -Air Mixtures. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 12123-12132.	3.7	0
4	Influence of inert additives on small-scale closed vessel explosions of propane-air mixtures. <i>Fire Safety Journal</i> , 2020, 111, 102939.	3.1	29
5	A DSC study of new compounds based on (E)-3-(azulen-1-ylidiazenyl)-1,2,5-oxadiazole. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 146, 1763.	3.6	3
6	Influence of Initial Pressure and Vessel's Geometry on Deflagration of Stoichiometric Methane-Air Mixture in Small-Scale Closed Vessels. <i>Energy &amp; Fuels</i> , 2020, 34, 3828-3835.	5.1	44
7	Quenching distances, minimum ignition energies and related properties of propane-air-diluent mixtures. <i>Fuel</i> , 2020, 274, 117836.	6.4	14
8	Thermal decomposition of new aldehyde-2,4-dinitrophenylhydrazone: Kinetic studies and thermal hazard predictions. <i>Thermochimica Acta</i> , 2020, 689, 178610.	2.7	2
9	Additive influence on maximum experimental safe gap of ethylene-air mixtures. <i>Fuel</i> , 2019, 237, 888-894.	6.4	20
10	The development of a new optical method to measure the delay time of spark ignition. <i>Studia Universitatis Babeş-Bolyai Chemia</i> , 2019, 64, 309-322.	0.2	1
11	Methane-unconventional oxidant flames. Laminar burning velocities of nitrogen-diluted methane-N <sub>2</sub> O mixtures. <i>Chemical Engineering Research and Design</i> , 2018, 114, 240-250.	5.6	29
12	Effect of CO <sub>2</sub> dilution on propane-air isothermal catalytic combustion on platinum. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 175-181.	3.6	8
13	Propagation indices of methane-air explosions in closed vessels. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 47, 110-119.	3.3	90
14	Propagation indices of methane-nitrous oxide flames in the presence of inert additives. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 418-426.	3.3	36
15	Pressure and temperature influence on propagation indices of n-butane-air gaseous mixtures. <i>Chemical Engineering Research and Design</i> , 2017, 111, 94-101.	5.6	23
16	Inert gas influence on the laminar burning velocity of methane-air mixtures. <i>Journal of Hazardous Materials</i> , 2017, 321, 440-448.	12.4	114
17	Permanganate-assisted removal of PCR inhibitors during the DNA Chelex extraction from stained denim samples. <i>International Journal of Legal Medicine</i> , 2017, 131, 323-331.	2.2	2
18	Influence of inert gas addition on propagation indices of methane-air deflagrations. <i>Chemical Engineering Research and Design</i> , 2016, 102, 513-522.	5.6	105

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19	Feed-back action of nitrite in the oxidation of nitrophenols by bicarbonate-activated peroxide system. <i>Applied Catalysis A: General</i> , 2016, 516, 90-99.	4.3	8
20	Prediction of flammability limits of fuel-air and fuel-air-inert mixtures from explosivity parameters in closed vessels. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 34, 65-71.	3.3	37
21	Normal burning velocity and propagation speed of ethane-air: Pressure and temperature dependence. <i>Fuel</i> , 2015, 147, 27-34.	6.4	48
22	Numerical study of the laminar flame propagation in ethane-air mixtures. <i>Open Chemistry</i> , 2014, 12, 391-402.	1.9	11
23	Experimental and Numerical Study of Laminar Burning Velocity of Ethane-Air Mixtures of Variable Initial Composition, Temperature and Pressure. <i>Energy &amp; Fuels</i> , 2014, 28, 2179-2188.	5.1	38
24	CORRELATION OF EXPLOSION PARAMETERS AND EXPLOSION-TYPE EVENTS FOR PREVENTING ENVIRONMENTAL POLLUTION. <i>Environmental Engineering and Management Journal</i> , 2014, 13, 1409-1414.	0.6	17
25	Additive effects on the rate of pressure rise for ethylene-air deflagrations in closed vessels. <i>Fuel</i> , 2013, 111, 194-200.	6.4	40
26	Kinetics of thermal inactivation of catalase in the presence of additives. <i>Process Biochemistry</i> , 2013, 48, 471-477.	3.7	10
27	Inactivation path during the copper (II) catalyzed synthesis of Questiomycin A from oxidation of 2-aminophenol. <i>Applied Catalysis A: General</i> , 2012, 447-448, 74-80.	4.3	12
28	Kinetics of hydrogen peroxide decomposition by catalase: hydroxylic solvent effects. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 1523-1530.	3.4	15
29	Kinetics of exothermal decomposition of some ketone-2,4-dinitrophenylhydrazones. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1259-1266.	3.6	6
30	Temperature and Pressure Influence on Ethane-Air Deflagration Parameters in a Spherical Closed Vessel. <i>Energy &amp; Fuels</i> , 2012, 26, 4840-4848.	5.1	49
31	Burning Velocity of Propane-Air Mixtures from Pressure-Time Records during Explosions in a Closed Spherical Vessel. <i>Energy &amp; Fuels</i> , 2012, 26, 901-909.	5.1	47
32	Thermal stabilities of some benzaldehyde 2,4-dinitrophenylhydrazones. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 109, 123-129.	3.6	6
33	Kinetic analysis of thermal decomposition in liquid and solid state of 3-nitro and 4-nitro-benzaldehyde-2,4-dinitrophenylhydrazones. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 109, 255-263.	3.6	6
34	Additive Effects on the Burning Velocity of Ethylene-Air Mixtures. <i>Energy &amp; Fuels</i> , 2011, 25, 2444-2451.	5.1	25
35	A simplified kinetic model for isothermal catalytic ignition. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 103, 911-916.	3.6	7
36	Isothermal catalytic combustion of n-pentane/air mixtures on platinum wire. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 102, 993-1000.	3.6	4

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37	Experimental and computed burning velocities of propane-air mixtures. <i>Energy Conversion and Management</i> , 2010, 51, 2979-2984.	9.2	55
38	Peroxidase-mediated oxidation of l-dopa: A kinetic approach. <i>Biochemical Engineering Journal</i> , 2010, 52, 248-254.	3.6	14
39	Temperature and pressure influence on explosion pressures of closed vessel propane-air deflagrations. <i>Journal of Hazardous Materials</i> , 2010, 174, 548-555.	12.4	104
40	Burning Velocity of Liquefied Petroleum Gas (LPG)-Air Mixtures in the Presence of Exhaust Gas. <i>Energy &amp; Fuels</i> , 2010, 24, 1487-1494.	5.1	40
41	Thermal stabilities of new synthesized N-methoxy-polynitroanilines derivatives. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 98, 779-784.	3.6	7
42	The Effect of Operational Parameters on the Catalytic Combustion of n-Butane/Air Mixtures on Platinum Wire. <i>Catalysis Letters</i> , 2009, 129, 124-129.	2.6	6
43	Inerting effect of the combustion products on the confined deflagration of liquefied petroleum gas-air mixtures. <i>Journal of Loss Prevention in the Process Industries</i> , 2009, 22, 463-468.	3.3	38
44	Heterogeneous catalytic ignition of n-butane/air mixtures on platinum. <i>Open Chemistry</i> , 2009, 7, 478-485.	1.9	2
45	Catalytic Combustion of the Stoichiometric n-Butane/Air Mixture on Isothermally Heated Platinum Wire. <i>Catalysis Letters</i> , 2008, 121, 247-254.	2.6	8
46	Oxidase-peroxidase reaction: kinetics of peroxidase-catalysed oxidation of 2-aminophenol. <i>Bioprocess and Biosystems Engineering</i> , 2008, 31, 579-586.	3.4	16
47	Influence of surfactants on the fading of malachite green. <i>Open Chemistry</i> , 2008, 6, 89-92.	1.9	12
48	Closed vessel combustion of propylene-air mixtures in the presence of exhaust gas. <i>Fuel</i> , 2007, 86, 1865-1872.	6.4	37
49	The rate of pressure rise of gaseous propylene-air explosions in spherical and cylindrical enclosures. <i>Journal of Hazardous Materials</i> , 2007, 139, 1-8.	12.4	81
50	Three Generations of Polystyrene-Type Strong Acid Cation Exchangers: Textural Effects on Proton/Cadmium(II) Ion Exchange Kinetics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 9096-9106.	3.7	11
51	Burning velocity evaluation from pressure evolution during the early stage of closed-vessel explosions. <i>Journal of Loss Prevention in the Process Industries</i> , 2006, 19, 334-342.	3.3	41
52	Temperature and pH effects on the kinetics of 2-aminophenol auto-oxidation in aqueous solution. <i>Open Chemistry</i> , 2003, 1, 233-241.	1.9	7