



ACADEMIA ROMÂNĂ  
SCOSAAR

Anexa nr.3

**AVIZAT,**

Director ȘCOALA DOCTORALĂ DE ȘTIINȚE CHIMICE

1. Îndeplinirea standardelor IOSUD superioare standardelor minimale naționale\*  DA |  NU

2. Îndeplinirea standardelor IOSUD egale standardelor minimale naționale\*  DA |  NU

### FIȘA DE ÎNDEPLINIRE A STANDARDELOR IOSUD

Categorie	$N_{max}$ (*)	FIC (**)	FIC <sub>D</sub> (***)	FIC <sub>AP</sub> (****)	FIC <sub>AC</sub> (*****)	h index
Habilitare	50	100	70	50	25	13
	40	123.536	123.536	67.614	30.709	22

(\*)  $N_{max}$  – primele N lucrări, organizate în ordinea descrescătoare a factorilor de impact a revistelor în care au fost publicate;

(\*\*) FIC – factorul de impact cumulat minimal al revistelor în care s-au publicat lucrările în cauză;

(\*\*\*) FIC<sub>D</sub> – factorul de impact cumulat minimal din publicații în domeniile de cercetare declarate;

(\*\*\*\*) FIC<sub>AP</sub> – factorul de impact cumulat minimal din publicații în calitate de autor principal (prim-autor și autor de corespondență);

(\*\*\*\*\*) FIC<sub>AC</sub> – factorul de impact cumulat minimal din publicații în calitate de autor de corespondență.

Candidat: Giurcan Venera

Data: 24. 10. 2024

Semnătura:



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## FIȘA DE VERIFICARE

a îndeplinirii standardelor IOSUD

Nr. crt.	Articolul (autori, titlu, revista)	FIC (**)	FIC <sub>D</sub> (***)	FIC <sub>AP</sub> (****)	FIC <sub>AC</sub> (*****)
1.	C. Movileanu, <b>V. Giurcan</b> , D. Razus, A.M. Musuc, C. Hornoiu, P. Chesler, M. Mitu, <i>Hydrogen influence on confined explosion characteristics of hydrocarbon-air mixtures at sub-atmospheric pressures</i> , Int. J. Hydrogen Energy, 67, 150-158 (2024).	8.100 (2023)	8.100	8.100	8.100
2.	<b>V. Giurcan</b> , C. Movileanu, M. Mitu, D. Razus, <i>The impact of H<sub>2</sub>-enrichment on flame structure and combustion characteristic properties of premixed hydrocarbon-air flames</i> , Fuel, 376, 132674 (2024).	6.800 (2023)	6.800	6.800	-
3.	C. Movileanu, M. Mitu, <b>V. Giurcan</b> , D. Razus, D. Oancea, <i>Quenching distances, minimum ignition energies and related properties of propane-air-diluent mixtures</i> , Fuel, 274, 117836 (2020).	6.609 (2020)	6.609	-	-
4.	M. Mitu, <b>V. Giurcan</b> , D. Razus, D. Oancea, <i>Inert gas influence on laminar burning velocity of methane-air mixtures</i> , J. Hazard. Mater., 321, 440-448 (2017).	6.434 (2017)	6.434	-	-
5.	D. Razus, M. Mitu, <b>V. Giurcan</b> , C. Movileanu, D. Oancea, <i>Additive influence on maximum experimental safe gap of ethylene-air mixtures</i> , Fuel, 237, 888-894 (2019).	5.578 (2019)	5.578	-	-
6.	D. Razus, M. Mitu, <b>V. Giurcan</b> , C. Movileanu, D. Oancea, <i>Methane-unconventional oxidant flames. Laminar burning velocities of nitrogen-diluted methane-N<sub>2</sub>O mixtures</i> , Proc. Saf. Environ. Prot., 114, 240-250 (2018).	4.384 (2018)	4.384	-	-
7.	C. Movileanu, <b>V. Giurcan</b> , M. Mitu, D. Razus, D. Oancea, <i>Ignition by low-voltage electric discharges of diluted and undiluted C<sub>3</sub>H<sub>8</sub>-air mixtures</i> , Ind. Eng. Chem. Res., 60, 12123-12132 (2021).	4.326 (2021)	4.326	-	-
8.	<b>V. Giurcan</b> , M. Mitu, C. Movileanu, D. Razus, <i>Propagation characteristics of stoichiometric inert-diluted methane-N<sub>2</sub>O flames</i> , Ind. Eng. Chem. Res., 61, 17065-17076 (2022).	4.200 (2017)	4.200	4.200	-
9.	D. Razus, <b>V. Brinzea</b> , M. Mitu, D. Oancea, <i>Explosion characteristics of LPG-air mixtures in closed vessels</i> , J. Hazard. Mater., 165(1-3), 1248-1252 (2009).	4.144 (2019)	4.144	-	-
10.	D. Razus, <b>V. Brinzea</b> , M. Mitu, C. Movileanu, D. Oancea, <i>Temperature and pressure influence on maximum rates of pressure rise during explosions of propane-air mixtures in a spherical vessel</i> , J. Hazard. Mater., 190, 891-896 (2011).	4.173 (2011)	4.173	-	-
11.	D. Razus, <b>V. Brinzea</b> , M. Mitu, D. Oancea, <i>Temperature and pressure influence on explosion pressures of closed vessel propane-air deflagrations</i> , J. Hazard. Mater., 174, 548-555 (2010).	3.723 (2010)	3.723	-	-
12.	M. Mitu, D. Razus, <b>V. Giurcan</b> , D. Oancea, <i>Normal burning velocity and propagation speed of ethane-air: pressure and temperature dependence</i> , Fuel, 147, 27-34 (2015).	3.611 (2015)	3.611	-	-
13.	M. Mitu, <b>V. Giurcan</b> , D. Razus, D. Oancea, <i>Influence of initial pressure and vessel's geometry on deflagration of</i>	3.605 (2020)	3.605	3.605	3.605



	<i>stoichiometric methane-air mixture in small-scale closed vessels</i> , Energy Fuels, 34(3), 3828-3835 (2020).				
14.	<b>V. Giurcan</b> , D. Razus, M. Mitu, C. Movileanu, <i>Dynamics of pressure variation in closed vessel explosions of diluted fuel/oxidant mixtures</i> , Processes, 10, 2726 (2022).	3.500 (2022)	3.500	3.500	-
15.	D. Razus, <b>V. Giurcan</b> , C. Movileanu, M. Mitu, <i>Nitric oxide generation in N<sub>2</sub>-diluted H<sub>2</sub>-N<sub>2</sub>O flames – a computational study</i> , Processes, 10(5), 1032 (2022).	3.500 (2022)	3.500	-	-
16.	<b>V. Giurcan</b> , M. Mitu, D. Razus, D. Oancea, <i>Pressure and temperature influence on propagation indices of n-butane-air gaseous mixtures</i> , Proc. Saf. Environ. Prot., 111, 94-101 (2017).	3.441 (2017)	3.441	3.441	-
17.	M. Mitu, <b>V. Giurcan</b> , C. Movileanu, D. Razus, D. Oancea, <i>Propagation of CH<sub>4</sub>-N<sub>2</sub>O-N<sub>2</sub> flames in a closed spherical vessel</i> , Processes, 9(5), 851 (2021).	3.352 (2021)	3.352	3.352	3.352
18.	<b>V. Giurcan</b> , C. Movileanu, A.M. Musuc, M. Mitu, <i>Laminar burning velocity of biogas-containing mixtures. A literature review</i> , Processes, 9(6), 996 (2021).	3.352 (2021)	3.352	3.352	-
19.	<b>V. Giurcan</b> , M. Mitu, C. Movileanu, D. Razus, D. Oancea, <i>Propagation velocity of flames in inert-diluted stoichiometric propane-air mixture: pressure and temperature dependence</i> , Processes, 9(6), 997 (2021).	3.352 (2021)	3.352	3.352	-
20.	M. Mitu, C. Movileanu, <b>V. Giurcan</b> , <i>Deflagration characteristics of N<sub>2</sub>-diluted CH<sub>4</sub>-N<sub>2</sub>O mixtures in the course of the incipient stage of flame propagation</i> , Energies, 14, 4918 (2021).	3.252 (2021)	3.252	3.252	3.252
21.	M. Mitu, C. Movileanu, <b>V. Giurcan</b> , <i>The laminar burning velocities of stoichiometric methane-air mixture from closed vessels measurements</i> , Energies, 15, 5058 (2022).	3.200 (2022)	3.200	3.200	3.200
22.	M. Mitu, C. Movileanu, <b>V. Giurcan</b> , <i>Dynamics of pressure evolution during gaseous ethane-air mixture explosions in enclosures: A review</i> , Energies, 15, 6879 (2022).	3.200 (2022)	3.200	3.200	3.200
23.	C. Movileanu, M. Mitu, <b>V. Giurcan</b> , <i>The state of the art of laminar burning velocities of H<sub>2</sub>-enriched n-C<sub>4</sub>H<sub>10</sub>-air mixtures</i> , Energies, 16, 5536 (2023).	3.000 (2023)	3.000	3.000	3.000
24.	D. Razus, C. Movileanu, M. Mitu, <b>V. Giurcan</b> , <i>Expansion coefficients and propagation speeds of premixed n-butane-air flames</i> , Energies, 16, 5728 (2023).	3.000 (2023)	3.000	3.000	3.000
25.	M. Mitu, <b>V. Giurcan</b> , D. Razus, D. Oancea, <i>Temperature and pressure influence on ethane-air deflagration parameters in a spherical closed vessel</i> , Energy Fuels, 26(8), 4840-4848 (2012).	2.853 (2012)	2.853	-	-
26.	M. Mitu, D. Razus, <b>V. Giurcan</b> , D. Oancea, <i>Experimental and numerical study of laminar burning velocity of ethane-air mixtures of variable initial composition, temperature and pressure</i> , Energy Fuels, 28, 2179-2188 (2014).	2.790 (2014)	2.790	-	-
27.	<b>V. Giurcan</b> , M. Mitu, D. Razus, C. Movileanu, D. Oancea, <i>Influence of inert additives on small-scale closed vessel explosions of propane-air mixtures</i> , Fire Safety Journal, 111, 102939 (2020).	2.764 (2020)	2.764	2.764	-
28.	D. Razus, M. Mitu, <b>V. Giurcan</b> , D. Oancea, <i>Propagation indices of methane-nitrous oxide flames in the presence of inert additives</i> , J. Loss Prev. Process Ind., 49, 418-426 (2017).	1.982 (2017)	1.982	-	-
29.	<b>V. Giurcan</b> , M. Mitu, D. Razus, D. Oancea, <i>Experimental</i>	1.755	1.755	1.755	-



	<i>study and detailed kinetic modeling of laminar flame propagation in premixed stoichiometric n-butane-air mixture</i> , Rev. Chimie, 70(4), 1125-1131 (2019).	(2019)				
30.	M. Mitu, V. Giurcan, D. Razus, D. Oancea, <i>Inert gas influence on propagation velocity of methane-air laminar flames</i> , Rev. Chimie, 69(1), 196-200 (2018).	1.605 (2018)	1.605	-	-	
31.	V. Giurcan, D. Razus, M. Mitu, D. Oancea, <i>Prediction of flammability limits of fuel-air and fuel-air-inert mixtures from explosivity parameters in closed vessels</i> , J. Loss Prev. Process Ind., 34, 65-71 (2015).	1.409 (2015)	1.409	1.409	-	
32.	V. Giurcan, D. Razus, M. Mitu, D. Oancea, <i>Numerical study of the laminar flame propagation in ethane-air mixtures</i> , Central Eur. J. Chemistry, 12(3), 391-402 (2014).	1.329 (2014)	1.329	1.329	-	
33.	V. Giurcan, M. Mitu, D. Razus, D. Oancea, <i>Laminar flame propagation in rich ethane-air-inert mixtures</i> , Rev. Chimie, 67(6), 1084-1089 (2016).	1.232 (2016)	1.232	1.232	-	
34.	V. Giurcan, M. Mitu, C. Movileanu, D. Razus, D. Oancea, <i>Numerical study of laminar flame propagation in CH<sub>4</sub>-N<sub>2</sub>O-N<sub>2</sub> at moderate pressures and temperatures</i> , Combust. Expl. Shock Waves, 58(1), 22-33, (2022).	1.200 (2022)	1.200	1.200	-	
35.	V. Giurcan, D. Razus, M. Mitu, V. Schröder, <i>Limiting oxygen concentration and minimum inert concentration of fuel-air-inert gaseous mixtures evaluation by means of adiabatic flame temperatures and measured fuel-air lower flammability limits</i> , Rev. Chimie, 64(12), 1445-1453 (2013).	0.677 (2013)	0.677	0.677	-	
36.	V. Brinzea, M. Mitu, C. Movileanu, D. Razus, D. Oancea, <i>Deflagration parameters of stoichiometric propane-air mixture during the initial stage of gaseous explosions in closed vessels</i> , Rev. Chimie, 62(1), 201-205 (2011).	0.599 (2011)	0.599	0.599	-	
37.	V. Brinzea, M. Mitu, C. Movileanu, A. Musuc, D. Razus, D. Oancea, <i>Propagation velocities of propane-air deflagrations at normal and elevated pressures and temperatures</i> , Rev. Chimie, 63(3), 289-292 (2012).	0.538 (2012)	0.538	0.538	-	
38.	D. Razus, M. Mitu, V. Giurcan, C. Movileanu, <i>Laminar flame propagation in nitrogen-diluted stoichiometric H<sub>2</sub>-N<sub>2</sub>O mixtures – A numerical study</i> , Rev. Roumaine Chim., 66(3), 255-265 (2021).	0.410 (2021)	0.410	-	-	
39.	V. Brinzea, M. Mitu, D. Razus, D. Oancea, <i>Overall activation parameters of propane oxidation in flames from normal burning velocities</i> , Rev. Roumaine Chim, 55(1), 55-61 (2010).	0.311 (2010)	0.311	0.311	-	
40.	V. Giurcan, M. Mitu, C. Movileanu, D. Razus, <i>Temperature, pressure and dilution effect on laminar burning velocity of propane-air</i> , Rev. Roumaine Chim., 61(6-7), 517-524 (2016).	0.246 (2016)	0.246	0.246	-	
	<b>Total</b>	<b>123.536</b>	<b>123.536</b>	<b>67.414</b>	<b>30.709</b>	



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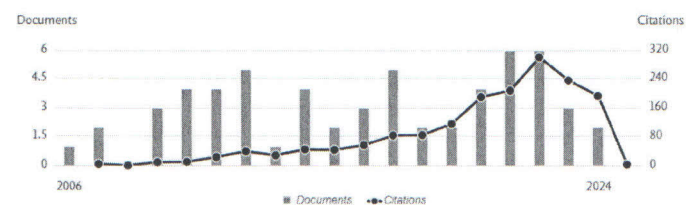
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Candidat: Giurcan Venera

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