

Iskender Gokalp

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

4,220
citations

87723

38
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123241

61
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102
docs citations

102
times ranked

3618
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal carbonization of biomass: experimental study, energy balance, process simulation, design, and techno-economic analysis. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 2561-2576.	2.9	9
2	Comparative pyrolysis studies of lignocellulosic biomasses: Online gas quantification, kinetics triplets, and thermodynamic parameters of the process. <i>Bioresource Technology</i> , 2022, 346, 126598.	4.8	17
3	Kinetic studies of hydrothermal carbonization of avocado stone and analysis of the polycyclic aromatic hydrocarbon contents in the hydrochars produced. <i>Fuel</i> , 2022, 316, 123163.	3.4	6
4	Numerical investigations on flashback dynamics of premixed methane-hydrogen-air laminar flames. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 25022-25033.	3.8	15
5	Hydrothermal carbonization processes applied to wet organic waste streams. <i>International Journal of Energy Research</i> , 2022, 46, 16109-16126.	2.2	5
6	Modeling and numerical simulations of lignite char gasification with CO ₂ : The effect of gasification parameters on internal transport phenomena. <i>Fuel</i> , 2021, 285, 119067.	3.4	6
7	Cultivation of green microalgae by recovering aqueous nutrients in hydrothermal carbonization process water of biomass wastes. <i>Journal of Water Process Engineering</i> , 2021, 40, 101783.	2.6	22
8	Hydrodynamics, heat transfer and kinetics reaction of CFD modeling of a batch stirred reactor under hydrothermal carbonization conditions. <i>Energy</i> , 2021, 219, 119635.	4.5	23
9	Quantification and kinetic study of the main compounds in biocrude produced by hydrothermal carbonization of lignocellulosic biomass. <i>Bioresource Technology Reports</i> , 2021, 15, 100770.	1.5	7
10	Parallelization of Robust Multigrid Technique Using OpenMP Technology. <i>Lecture Notes in Computer Science</i> , 2021, , 196-209.	1.0	1
11	Catalytic gasification of light and heavy gas oils in supercritical water. <i>Journal of the Energy Institute</i> , 2020, 93, 2025-2032.	2.7	29
12	Combustion mechanism and model free kinetics of different origin coal samples: Thermal analysis approach. <i>Energy</i> , 2020, 204, 117905.	4.5	71
13	Modeling of <i>Agave Salmiana</i> bagasse conversion by hydrothermal carbonization (HTC) for solid fuel combustion using surface response methodology. <i>AIMS Energy</i> , 2020, 8, 538-562.	1.1	9
14	Assessment of Global and Network Models of Devolatilization for Numerical Analysis of Pulverized Coal Combustion. <i>Combustion Science and Technology</i> , 2019, 191, 520-537.	1.2	6
15	Catalytic subcritical and supercritical water gasification as a resource recovery approach from waste tires for hydrogen-rich syngas production. <i>Journal of Supercritical Fluids</i> , 2019, 154, 104627.	1.6	41
16	Heating rate effects on pyrolysis, gasification and combustion of olive waste. <i>Biofuels</i> , 2019, , 1-8.	1.4	11
17	An analysis of the droplet support fiber effect on the evaporation process. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 885-891.	2.5	44
18	Structural response of different Lewis number premixed flames interacting with a toroidal vortex. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1911-1918.	2.4	5

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19	Hydrothermal carbonization characteristics of sewage sludge and lignocellulosic biomass. A comparative study. <i>Biomass and Bioenergy</i> , 2019, 120, 166-175.	2.9	152
20	A TECHNO-ECONOMIC FEASIBILITY ANALYSIS OF THE GASIFICATION OF USED TIRES FOR ENERGY GENERATION IN TURKEY. <i>Detritus</i> , 2019, Volume 07 - September 2019, 1.	0.4	3
21	Energy recovery analysis from sugar cane bagasse pyrolysis and gasification using thermogravimetry, mass spectrometry and kinetic models. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 132, 225-236.	2.6	45
22	RANS modelling of a lifted hydrogen flame using eulerian/lagrangian approaches with transported PDF method. <i>Energy</i> , 2018, 164, 1242-1256.	4.5	5
23	Pyrolysis and Gasification Characteristics of High Ash Indian and Turkish Coals. , 2018, , .		5
24	Fermentative production of butanol: Perspectives on synthetic biology. <i>New Biotechnology</i> , 2017, 37, 210-221.	2.4	107
25	Combustion properties and kinetics of different biomass samples using TG&MS technique. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 1361-1370.	2.0	59
26	Hydrothermal carbonization of dried olive pomace: Energy potential and process performances. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 128, 281-290.	2.6	77
27	An assessment of pinecone gasification in subcritical, near-critical and supercritical water. <i>Fuel Processing Technology</i> , 2017, 168, 84-96.	3.7	87
28	Analysis of Turbulent Lean Premixed Methane&Air Flame Statistics at Elevated Pressures. <i>Energy & Fuels</i> , 2017, 31, 12815-12822.	2.5	2
29	Pyrolysis, combustion and gasification studies of different sized coal particles using TGA-MS. <i>Applied Thermal Engineering</i> , 2017, 125, 1446-1455.	3.0	88
30	Combustion and kinetic parameters estimation of torrefied pine, acacia and <i>Miscanthus giganteus</i> using experimental and modelling techniques. <i>Bioresource Technology</i> , 2017, 243, 304-314.	4.8	60
31	Thermogravimetric and mass spectrometric (TG-MS) analysis and kinetics of coal-biomass blends. <i>Renewable Energy</i> , 2017, 101, 293-300.	4.3	151
32	Study of pollutant emissions and dynamics of non-premixed turbulent oxygen enriched flames from a swirl burner. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3959-3968.	2.4	22
33	Valorization of horse manure through catalytic supercritical water gasification. <i>Waste Management</i> , 2016, 52, 147-158.	3.7	104
34	Swirl Motion Effects on Flame Dynamic of Pulverized Olive Cake in a Vertical Furnace. <i>Combustion Science and Technology</i> , 2016, 188, 1951-1971.	1.2	12
35	On periodic behavior of weakly turbulent premixed flame corrugations. <i>Combustion and Flame</i> , 2016, 168, 147-165.	2.8	18
36	Modelling of the subgrid scale wrinkling factor for large eddy simulation of turbulent premixed combustion. <i>Combustion Theory and Modelling</i> , 2016, 20, 393-409.	1.0	5

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37	Effect of char generation method on steam, CO ₂ and blended mixture gasification of high ash Turkish coals. <i>Fuel</i> , 2015, 153, 320-327.	3.4	67
38	Characterization of Cellular Instabilities of a Flame Propagating in an Aerosol. , 2015, , .		4
39	Gasification characteristics of petcoke and coal blended petcoke using thermogravimetry and mass spectrometry analysis. <i>Applied Thermal Engineering</i> , 2015, 80, 10-19.	3.0	64
40	Pyrolysis, Combustion, and Steam Gasification of Various Types of Scrap Tires for Energy Recovery. <i>Energy & Fuels</i> , 2015, 29, 346-354.	2.5	79
41	Kinetics of steam and CO ₂ gasification of high ash coalâ€œ char produced under various heating rates. <i>Fuel</i> , 2015, 154, 370-379.	3.4	98
42	High ash coal pyrolysis at different heating rates to analyze its char structure, kinetics and evolved species. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 113, 426-433.	2.6	55
43	Multi-Scale High Intensity Turbulence Generator Applied to a High Pressure Turbulent Burner. <i>Flow, Turbulence and Combustion</i> , 2015, 94, 263-283.	1.4	8
44	Thermogravimetric and evolved gas analyses of high ash Indian and Turkish coal pyrolysis and gasification. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 121, 919-927.	2.0	25
45	Pyrolysis, combustion and gasification characteristics of miscanthus and sewage sludge. <i>Energy Conversion and Management</i> , 2015, 89, 83-91.	4.4	193
46	Investigation of pressure effects on the small scale wrinkling of turbulent premixed Bunsen flames. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 1527-1535.	2.4	31
47	Combustion characteristics of methaneâ€œoxygen enhanced air turbulent non-premixed swirling flames. <i>Experimental Thermal and Fluid Science</i> , 2014, 56, 53-60.	1.5	31
48	Experimental Study of Oxygen Enrichment Effects on Turbulent Non-premixed Swirling Flames. <i>Energy & Fuels</i> , 2013, 27, 6191-6197.	2.5	34
49	Effects of O ₂ enrichment and CO ₂ dilution on laminar methane flames. <i>Energy</i> , 2013, 55, 1055-1066.	4.5	54
50	Study of Lean Premixed Methane Combustion with CO ₂ Dilution under Gas Turbine Conditions. <i>Energy & Fuels</i> , 2013, 27, 1093-1103.	2.5	12
51	Plasma thermal conversion of bio-oil for hydrogen production. <i>International Journal of Energy Research</i> , 2012, 36, 409-414.	2.2	10
52	Characterization of syngas laminar flames using the Bunsen burner configuration. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 992-1005.	3.8	121
53	An analysis of the d ₂ -law departure during droplet evaporation in microgravity. <i>International Journal of Multiphase Flow</i> , 2011, 37, 252-259.	1.6	53
54	Experimental studies of the fundamental flame speeds of syngas (H ₂ /CO)/air mixtures. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 913-920.	2.4	133

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55	Evolution of naphthalene and its intermediates during oxidation in subcritical/supercritical water. Proceedings of the Combustion Institute, 2011, 33, 3185-3194.	2.4	14
56	Theoretical and Numerical Studies on Continuous Detonation Wave Engines. , 2011, , .		15
57	Use of the Adaptive Mesh Refinement for 3D Simulations of a CDWRE (Continuous Detonation Wave) Tj ETQq1 1 0.784314 μ BT /Over		20
58	Free Turbulent Reacting Jet Simulation Based on Combination of Transport Equations and PDF. Engineering Applications of Computational Fluid Mechanics, 2010, 4, 246-259.	1.5	5
59	CO2 addition and pressure effects on laminar and turbulent lean premixed CH4 air flames. Proceedings of the Combustion Institute, 2009, 32, 1803-1810.	2.4	48
60	Analysis of flame surface density measurements in turbulent premixed combustion. Combustion and Flame, 2009, 156, 657-664.	2.8	27
61	Numerical Study on Flame-Front Characteristics of Conical Turbulent Lean Premixed Methane/Air Flames. Energy & Fuels, 2009, 23, 1843-1848.	2.5	7
62	Clean Smart Grid: Primary Frequency Control Applying H2/O2 Rocket Combustor Technology. , 2009, , .		2
63	Thermochemistry of C O, (CO) O, and (CO) C bond breaking in fatty acid methyl esters. Combustion and Flame, 2008, 155, 334-342.	2.8	28
64	Numerical Study of the Continuous Detonation Wave Rocket Engine. , 2008, , .		41
65	Thermochemistry of Compounds Formed during Fast Pyrolysis of Lignocellulosic Biomass. Energy & Fuels, 2008, 22, 4265-4273.	2.5	21
66	Droplet Evaporation in a Turbulent Environment at Elevated Pressure and Temperature Conditions. Combustion Science and Technology, 2008, 180, 1987-2014.	1.2	15
67	Thermochemistry of methyl and ethyl esters from vegetable oils. International Journal of Chemical Kinetics, 2007, 39, 481-491.	1.0	54
68	Ab initio quantum chemical predictions of enthalpies of formation, heat capacities, and entropies of gas-phase energetic compounds. Combustion and Flame, 2007, 151, 262-273.	2.8	72
69	Thermochemistry of C-C and C-H Bond Breaking in Fatty Acid Methyl Esters. Energy & Fuels, 2007, 21, 2027-2032.	2.5	44
70	Characterization of the effects of hydrogen addition in premixed methane/air flames. International Journal of Hydrogen Energy, 2007, 32, 2585-2592.	3.8	164
71	Fractal characterisation of high-pressure and hydrogen-enriched CH4-air turbulent premixed flames. Proceedings of the Combustion Institute, 2007, 31, 1345-1352.	2.4	33
72	Systematic Numerical Study of the Supersonic Combustion in an Experimental Combustion Chamber. , 2006, , .		24

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73	Evaluating Missile Fuels. Propellants, Explosives, Pyrotechnics, 2006, 31, 343-354.	1.0	58
74	Current status of droplet evaporation in turbulent flows. Progress in Energy and Combustion Science, 2006, 32, 408-423.	15.8	107
75	Mars hopper versus Mars rover. Acta Astronautica, 2006, 59, 710-716.	1.7	23
76	Numerical Modeling of Inert and Reacting Compressible Turbulent Jets. , 2005, , .		10
77	Alternative fuels for industrial gas turbines (AFTUR). Applied Thermal Engineering, 2004, 24, 1655-1663.	3.0	96
78	Accurate initial conditions for the direct numerical simulation of temporal compressible binary shear layers with high density ratio. Computers and Fluids, 2004, 33, 549-576.	1.3	8
79	VAPORIZATION AND OXIDATION OF LIQUID FUEL DROPLETS AT HIGH TEMPERATURE AND HIGH PRESSURE: APPLICATION TO ALKANES AND VEGETABLE OIL METHYL ESTERS. Combustion Science and Technology, 2004, 176, 499-529.	1.2	43
80	An Attempt to Realize Experimental Isotropic Turbulence at Low Reynolds Number. Flow, Turbulence and Combustion, 2003, 70, 325-348.	1.4	29
81	Rate constants for the homogeneous gas-phase Al/HCl combustion chemistry. Combustion and Flame, 2003, 132, 91-101.	2.8	34
82	Numerical Simulation of Hydrogen Supersonic Combustion and Validation of Computational Approach. , 2003, , .		17
83	Kinetic Mechanism Validation and Numerical Simulation of Supersonic Combustion of Methane-Hydrogen Fuel. , 2002, , .		13
84	Simulation numérique des jets turbulents subsoniques à masse volumique variable par le modèle k- ϵ . International Journal of Thermal Sciences, 2002, 41, 51-62.	2.6	12
85	A new correlation for turbulent mass transfer from liquid droplets. International Journal of Heat and Mass Transfer, 2002, 45, 37-45.	2.5	40
86	Revisiting Numerical Errors in Direct and Large Eddy Simulations of Turbulence: Physical and Spectral Spaces Analysis. Journal of Computational Physics, 2001, 174, 816-851.	1.9	29
87	Turbulence effects on the combustion of single hydrocarbon droplets. Proceedings of the Combustion Institute, 2000, 28, 1015-1021.	2.4	15
88	Droplet vaporisation characteristics of vegetable oil derived biofuels at high temperatures. Experimental Thermal and Fluid Science, 2000, 21, 41-50.	1.5	88
89	Micro scalar timescales in premixed turbulent combustion. Proceedings of the Combustion Institute, 2000, 28, 351-358.	2.4	0
90	Effects of reduced gravity on methanol droplet combustion at high pressures. Proceedings of the Combustion Institute, 2000, 28, 1071-1077.	2.4	23

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91	Comparison of a spectral model for premixed turbulent flame propagation to DNS and experiments. <i>Combustion Theory and Modelling</i> , 2000, 4, 241-264.	1.0	3
92	Pressure effects on the spectral behavior of the thermal field in non-reacting and low Damköhler reacting flows. <i>International Journal of Thermal Sciences</i> , 1999, 38, 819-831.	2.6	6
93	Ignition and combustion of levitated magnesium particles in carbon dioxide. <i>Proceedings of the Combustion Institute</i> , 1998, 27, 2413-2419.	0.3	32
94	A comparison between dynamic and scalar timescales in lean premixed turbulent flames. <i>Proceedings of the Combustion Institute</i> , 1998, 27, 775-783.	0.3	10
95	Atomization and Breakup of Cryogenic Propellants Under High-Pressure Subcritical and Supercritical Conditions. <i>Journal of Propulsion and Power</i> , 1998, 14, 835-842.	1.3	212
96	Studies on the Ignition and Burning of Levitated Aluminum Particles. <i>Combustion Science and Technology</i> , 1996, 115, 369-390.	1.2	72
97	Spatial and temporal dynamics of flamelets in turbulent premixed flames. <i>Proceedings of the Combustion Institute</i> , 1996, 26, 331-337.	0.3	10
98	Characterization of flame front surfaces in turbulent premixed methane/Air combustion. <i>Combustion and Flame</i> , 1995, 101, 461-470.	2.8	99
99	Strain effects on the structure of counterflowing turbulent premixed flames. <i>Proceedings of the Combustion Institute</i> , 1994, 25, 1199-1205.	0.3	23
100	Mass transfer from liquid fuel droplets in turbulent flow. <i>Combustion and Flame</i> , 1992, 89, 286-298.	2.8	59
101	Time scales of the scalar field in turbulent premixed conical flames. <i>Proceedings of the Combustion Institute</i> , 1989, 22, 755-761.	0.3	5