## **Panagiotis Grammelis**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Process integration and scale up considerations of Typha domingensis macrophyte bioconversion into ethanol. Biochemical Engineering Journal, 2022, 181, 108404.	1.8	0
2	Process Analysis and Design Considerations of a Low Carbon Methanol Synthesis Plant from Lignite/Waste Gasification. Fuels, 2022, 3, 245-274.	1.3	4
3	Technoeconomic Assessment of LNC-Fueled Solid Oxide Fuel Cells in Small Island Systems: The Patmos Island Case Study. Energies, 2022, 15, 3892.	1.6	3
4	Technical assessment of LNG based polygeneration systems for non-interconnected island cases using SOFC. International Journal of Hydrogen Energy, 2021, 46, 4827-4843.	3.8	21
5	Introducing an artificial neural network energy minimization multi-scale drag scheme for fluidized particles. Chemical Engineering Science, 2021, 229, 116013.	1.9	23
6	Applicability of Torrefied Sunflower Husk Pellets in Small and Medium Scale Furnaces. Waste and Biomass Valorization, 2021, 12, 2579-2596.	1.8	8
7	Energy management and technoâ€economic assessment of a predictive battery storage system applying a load levelling operational strategy in island systems. International Journal of Energy Research, 2021, 45, 2709-2727.	2.2	19
8	Microgrid energy management strategies assessment through coupled thermal-electric considerations. Energy Conversion and Management, 2021, 228, 113711.	4.4	18
9	Combustion of olive tree pruning pellets versus sunflower husk pellets at industrial boiler. Monitoring of emissions and combustion efficiency. Renewable Energy, 2021, 171, 516-525.	4.3	17
10	Comparison Analysis of the Effect of High and Low Port Activity Seasons on Air Quality in the Port of Heraklion. Environmental Sciences Proceedings, 2021, 8, 3.	0.3	2
11	Monitoring feedstock losses over five months storage of olive tree pruning hog fuel in piles. Comparison of covered vs. uncovered storage. Biomass and Bioenergy, 2021, 153, 106228.	2.9	3
12	A Review on Management of End of Life Tires (ELTs) and Alternative Uses of Textile Fibers. Energies, 2021, 14, 571.	1.6	50
13	A Comparative Case Analysis of Meteorological and Air Pollution Parameters between a High and Low Port Activity Period in Igoumenitsa Port. , 2021, 11, .		1
14	Numerical comparative investigation of a flexible lignite-fired boiler using pre-dried lignite or biomass as supporting fuel. Renewable Energy, 2020, 145, 1831-1848.	4.3	16
15	Review on dynamic process modeling of gasification based biorefineries and bio-based heat & power plants. Fuel Processing Technology, 2020, 197, 106188.	3.7	38
16	Dynamic Modeling and Simulation of Non-Interconnected Systems under High-RES Penetration: The Madeira Island Case. Energies, 2020, 13, 5786.	1.6	8
17	Biomass Availability in Europe as an Alternative Fuel for Full Conversion of Lignite Power Plants: A Critical Review. Energies, 2020, 13, 3390.	1.6	41
18	Nanoparticle Emission and Characterization from Pre-Dried Lignite and Bituminous Coal Co-Combustion. Energies, 2020, 13, 2373.	1.6	3

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19	Acid-Catalyzed Wet Torrefaction for Enhancing the Heating Value of Barley Straw. Energies, 2020, 13, 1693.	1.6	6
20	Machine Performance and Hog Fuel Quality Evaluation in Olive Tree Pruning Harvesting Conducted Using a Towed Shredder on Flat and Hilly Fields. Energies, 2020, 13, 1713.	1.6	16
21	Impact of Torrefaction on Vine Pruning's Fuel Characteristics. Journal of Energy Engineering - ASCE, 2020, 146, .	1.0	8
22	Advanced energy management system based on PV and load forecasting for load smoothing and optimized peak shaving of islanded power systems. E3S Web of Conferences, 2019, 113, 03001.	0.2	4
23	Smart energy management algorithm for load smoothing and peak shaving based on load forecasting of an island's power system. Applied Energy, 2019, 238, 627-642.	5.1	104
24	Numerical simulation of a silicon-based latent heat thermal energy storage system operating at ultra-high temperatures. Applied Energy, 2019, 242, 837-853.	5.1	40
25	A Methodology for Determination and Definition of Key Performance Indicators for Smart Grids Development in Island Energy Systems. Energies, 2019, 12, 242.	1.6	45
26	Drying of Lignite of Various Origins in a Pilot Scale Toroidal Fluidized Bed Dryer using Low Quality Heat. Energies, 2019, 12, 1191.	1.6	6
27	Thermal Simulation and Economic Study of Predried Lignite Production Retrofit of a Greek Power Plant for Enhanced Flexibility. Journal of Energy Engineering - ASCE, 2019, 145, 04019001.	1.0	12
28	A review of key environmental and energy performance indicators for the case of renewable energy systems when integrated with storage solutions. Applied Energy, 2018, 231, 380-398.	5.1	70
29	Comparative investigation of a co-firing scheme in a lignite-fired boiler at very low thermal-load operation using either pre-dried lignite or biomass as supporting fuel. Fuel Processing Technology, 2018, 180, 140-154.	3.7	18
30	Fly Ash Formation and Characteristics from (co-)Combustion of an Herbaceous Biomass and a Greek Lignite (Low-Rank Coal) in a Pulverized Fuel Pilot-Scale Test Facility. Energies, 2018, 11, 1581.	1.6	35
31	4.27 Pyrolysis Energy Conversion Systems. , 2018, , 1065-1106.		7
32	Numerical investigation and comparison of coarse grain CFD – DEM and TFM in the case of a 1 MW th fluidized bed carbonator simulation. Chemical Engineering Science, 2017, 163, 189-205.	1.9	61
33	Simulation of the reacting flow within a pilot scale calciner by means of a three phase TFM model. Fuel Processing Technology, 2017, 162, 105-125.	3.7	27
34	Dynamic Modeling of a Utility Once-Through Pulverized-Fuel Steam Generator. Journal of Energy Engineering - ASCE, 2017, 143, 04016070.	1.0	8
35	Torrefaction and combustion of pellets made of a mixture of coal sludge and straw. Fuel, 2017, 210, 859-865.	3.4	25
36	Recent Innovations in Advanced Thermal Energy Systems towards Better Utilization of Energy Resources and Cleaner Environment: Issues and Challenges. Journal of Energy Engineering - ASCE, 2017, 143, 02017001.	1.0	1

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37	Predictive method for low load off-design operation of a lignite fired power plant. Fuel, 2017, 209, 685-693.	3.4	14
38	Numerical examination of an operationally flexible lignite-fired boiler including its convective section using as supporting fuel pre-dried lignite. Fuel Processing Technology, 2017, 166, 237-257.	3.7	23
39	Process Integration of a Polygeneration Plant with Biomass/Coal Co-pyrolysis. Energy & Fuels, 2017, 31, 14408-14422.	2.5	19
40	Efficient CHP-Plant Configuration for District Heating Systems Utilizing Low-Rank Coals. Journal of Energy Engineering - ASCE, 2017, 143, .	1.0	7
41	CFD Simulation of Domestic Gasification Boiler. Journal of Energy Engineering - ASCE, 2017, 143, 04016052.	1.0	4
42	An environmental and economic evaluation of the lignite power generation system by using the life cycle analysis principles. International Journal of Global Warming, 2017, 13, 296.	0.2	3
43	An environmental and economic evaluation of the lignite power generation system by using the life cycle analysis principles. International Journal of Global Warming, 2017, 13, 296.	0.2	0
44	Solid fuel types for energy generation. , 2016, , 29-58.		23
45	Classification of Refuse Derived Fuel (RDF) and Model Development of a Novel Thermal Utilization Concept Through Air-Gasification. Waste and Biomass Valorization, 2016, 7, 1297-1308.	1.8	24
46	Pilot applications proposal for sustainable woody biomass supply chains. International Journal of Energy Research, 2016, 40, 81-90.	2.2	3
47	Implementation of the Power to Methanol concept by using CO2 from lignite power plants: Techno-economic investigation. International Journal of Hydrogen Energy, 2016, 41, 16674-16687.	3.8	65
48	Implementation of a sustainable energy action plan for municipality of Ptolemaida. International Journal of Global Warming, 2016, 10, 55.	0.2	2
49	Smart Recovery of Materials and Upgrade of Organic Compost and RDF in Existing Mechanical Biological Treatment Plants by Using NIR Technology. Green Energy and Technology, 2016, , 771-778.	0.4	1
50	Pre-dried lignite technology implementation in partial load/low demand cases for flexibility enhancement. Energy, 2016, 96, 427-436.	4.5	20
51	Exergetic comparison of CO 2 capture techniques from solid fossil fuel power plants. International Journal of Greenhouse Gas Control, 2016, 45, 106-117.	2.3	27
52	Modeling of biofuel pellets torrefaction in a realistic geometry. Thermal Science, 2016, 20, 1223-1231.	0.5	4
53	New power production options for biomass and cogeneration. Wiley Interdisciplinary Reviews: Energy and Environment, 2015, 4, 471-485.	1.9	6
54	Comparison of Waste-to-Energy Processes by Means of Life Cycle Analysis Principles regarding the Global Warming Potential Impact: Applied Case Studies in Greece, France and Germany. Waste and Biomass Valorization, 2015, 6, 605-621.	1.8	37

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55	Report on comparison among current industrial scale lignite drying technologies (A critical review) Tj ETQq1 J	L 0.784314 rg	gBT_/Overlock
56	Calcium looping process simulation based on an advanced thermodynamic model combined with CFD analysis. Fuel, 2015, 153, 370-381.	3.4	24
57	Integration of calcium looping technology in existing cement plant for CO 2 capture: Process modeling and technical considerations. Fuel, 2015, 153, 210-223.	3.4	83
58	Application of an advanced coupled EMMS-TFM model to a pilot scale CFB carbonator. Chemical Engineering Science, 2015, 138, 482-498.	1.9	51
59	Thermodynamic analysis and comparison of retrofitting pre-drying concepts at existing lignite power plants. Applied Thermal Engineering, 2015, 74, 165-173.	3.0	43
60	Refuse-derived fuel classification in a mechanical–biological treatment plant and its valorization with techno-economic criteria. International Journal of Environmental Science and Technology, 2015, 12, 1137-1146.	1.8	12
61	Characterization of Solid Residues from High Temperature Gasification of Olive Kernel. Waste and Biomass Valorization, 2014, 5, 893-901.	1.8	4
62	Coâ€firing of biomass with coal in thermal power plants: technology schemes, impacts, and future perspectives. Wiley Interdisciplinary Reviews: Energy and Environment, 2014, 3, 384-399.	1.9	34
63	Decoupled CFD simulation of furnace and heat exchangers in a lignite utility boiler. Fuel, 2014, 117, 633-648.	3.4	19
64	Experimental and economic study of a gasification plant fuelled with olive industry wastes. Energy for Sustainable Development, 2014, 23, 247-257.	2.0	61
65	A decoupled approach for NOx–N2O 3-D CFD modeling in CFB plants. Fuel, 2014, 115, 401-415.	3.4	33
66	Effect of pressure and gas concentration on CO2 and SO2 capture performance of limestones. Fuel, 2014, 122, 236-246.	3.4	18
67	Modeling of Wheat Straw Torrefaction as a Preliminary Tool for Process Design. Waste and Biomass Valorization, 2013, 4, 409-420.	1.8	14
68	Performance of Natural Sorbents during Calcium Looping Cycles: A Comparison between Fluidized Bed and Thermo-Gravimetric Tests. Energy & Fuels, 2013, 27, 6048-6054.	2.5	31
69	Parametric investigation of a renewable alternative for utilities adopting the co-firing lignite/biomass concept. Fuel, 2013, 113, 873-897.	3.4	30
70	High-resolution 3-D full-loop simulation of a CFB carbonator cold model. Chemical Engineering Science, 2013, 90, 137-150.	1.9	104
71	A comparative characterization study of Ca-looping natural sorbents. Applied Energy, 2013, 108, 373-382.	5.1	38
72	Calcium looping for CO2 capture from a lignite fired power plant. Fuel, 2013, 113, 826-836.	3.4	77

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73	Investigation of pre-drying lignite in an existing Greek power plant. Thermal Science, 2012, 16, 283-296.	0.5	16
74	Numerical investigation Greek lignite/cardoon co-firing in a tangentially fired furnace. Applied Energy, 2012, 97, 514-524.	5.1	91
75	Investigation of proper modeling of very dense granular flows in the recirculation system of CFBs. Particuology, 2012, 10, 699-709.	2.0	32
76	Comparative Study of Combustion Properties of Five Energy Crops and Greek Lignite. Energy & Fuels, 2012, 26, 869-878.	2.5	53
77	Modelling of biomass gasifier and microturbine for the olive oil industry. International Journal of Energy Research, 2012, 36, 355-367.	2.2	49
78	Fluidized Bed Combustion of Solid Biomass for Electricity and/or Heat Generation. Green Energy and Technology, 2011, , 123-149.	0.4	3
79	Numerical investigation of the grid spatial resolution and the anisotropic character of EMMS in CFB multiphase flow. Chemical Engineering Science, 2011, 66, 3979-3990.	1.9	29
80	Numerical investigation of the oxy-fuel combustion in large scale boilers adopting the ECO-Scrub technology. Fuel, 2011, 90, 198-214.	3.4	106
81	An advanced EMMS scheme for the prediction of drag coefficient under a 1.2MWth CFBC isothermal flow—Part II: Numerical implementation. Chemical Engineering Science, 2010, 65, 4089-4099.	1.9	69
82	Numerical investigation of Solid Recovered Fuels' co-firing with brown coal in large scale boilers – Evaluation of different co-combustion modes. Fuel, 2010, 89, 3693-3709.	3.4	52
83	An advanced EMMS scheme for the prediction of drag coefficient under a 1.2MWth CFBC isothermal flow—Part I: Numerical formulation. Chemical Engineering Science, 2010, 65, 4080-4088.	1.9	90
84	Dry Lignite Cofiring in a Greek Utility Boiler: Experimental Activities and Numerical Simulations. Energy & Fuels, 2010, 24, 5464-5473.	2.5	11
85	CO2 and SO2 Capture Capability of Two Greek Limestones. Green Energy and Technology, 2010, , 329-346.	0.4	Ο
86	Chemical, leaching and toxicity characteristics of CFB combustion residues. Fuel, 2009, 88, 1201-1209.	3.4	32
87	Pyrolysis kinetics and combustion characteristics of waste recovered fuels. Fuel, 2009, 88, 195-205.	3.4	204
88	Numerical investigation on the combustion behaviour of pre-dried Greek lignite. Fuel, 2009, 88, 2385-2391.	3.4	23
89	Partial O2-fired coal power plant with post-combustion CO2 capture: A retrofitting option for CO2 capture ready plants. Fuel, 2009, 88, 2428-2436.	3.4	39
90	A global optimization study on the devolatilisation kinetics of coal, biomass and waste fuels. Fuel Processing Technology, 2009, 90, 762-769.	3.7	30

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91	Experimental investigation on the combustion behaviour of pre-dried Greek lignite. Fuel Processing Technology, 2009, 90, 1071-1079.	3.7	33
92	The CO <sub align="right">2 and SO<sub align="right">2 capture capability of two Greek limestones during repeated thermal cycles. International Journal of Global Warming, 2009, 1, 270.</sub></sub>	0.2	1
93	Co-firing Solid Recovered Fuels (SRFs) with brown coal in large-scale pulverised fuel power plants – a simulation approach. International Journal of Global Warming, 2009, 1, 106.	0.2	1
94	Cultivation and Characterization of Cynara Cardunculus for Solid Biofuels Production in the Mediterranean Region. International Journal of Molecular Sciences, 2008, 9, 1241-1258.	1.8	92
95	APPLICATION OF POLYMER MEMBRANE TECHNOLOGY IN COAL COMBUSTION PROCESSES. Chemical Engineering Communications, 2007, 194, 322-333.	1.5	8
96	Advantages and Possibilities of Solid Recovered Fuel Cocombustion in the European Energy Sector. Journal of the Air and Waste Management Association, 2007, 57, 1178-1189.	0.9	48
97	Combustion and environmental performance of clean coal end products. International Journal of Energy Research, 2007, 31, 1237-1250.	2.2	9
98	CFB air-blown flash pyrolysis. Part I: Engineering design and cold model performance. Fuel, 2007, 86, 1372-1386.	3.4	37
99	CFB air-blown flash pyrolysis. Part II: Operation and experimental results. Fuel, 2007, 86, 1387-1395.	3.4	16
100	Quality characteristics of Greek fly ashes and potential uses. Fuel Processing Technology, 2007, 88, 77-85.	3.7	32
101	A kinetic study on the devolatilisation of animal derived byproducts. Fuel Processing Technology, 2007, 88, 787-794.	3.7	22
102	Pyrolysis and Combustion Characteristics of Biomass and Waste-Derived Feedstock. Industrial & Engineering Chemistry Research, 2006, 45, 3791-3799.	1.8	86
103	Refurbishment priorities at the Russian coal-fired power sector for cleaner energy production—Case studies. Energy Policy, 2006, 34, 3124-3136.	4.2	12
104	Effects of biomass co-firing with coal on ash properties. Part II: Leaching, toxicity and radiological behaviour. Fuel, 2006, 85, 2316-2322.	3.4	30
105	Effects of biomass co-firing with coal on ash properties. Part I: Characterisation and PSD. Fuel, 2006, 85, 2310-2315.	3.4	61
106	Particulate removal via electrostatic precipitators — CFD simulation. Fuel Processing Technology, 2006, 87, 623-631.	3.7	81
107	An economic and environmental assessment of biomass utilization in lignite-fired power plants of Greece. International Journal of Energy Research, 2006, 30, 763-775.	2.2	8
108	Biomass Combustion Modeling in Fluidized Beds. Energy & amp; Fuels, 2005, 19, 292-297.	2.5	23

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109	The lignite electricity-generating sector in Greece: Current status and future prospects. International Journal of Energy Research, 2004, 28, 785-798.	2.2	8
110	The perspectives of energy production from coal-fired power plants in an enlarged EU. International Journal of Energy Research, 2004, 28, 799-815.	2.2	11
111	Evaluation of the environmental impact of waste wood co-utilisation for energy production. Energy, 2004, 29, 2181-2193.	4.5	23
112	Pyrolysis characteristics and kinetics of biomass residuals mixtures with ligniteâ~†. Fuel, 2003, 82, 1949-1960.	3.4	426
113	Kinetic Modeling of Coal/Agricultural By-Product Blends. Energy & Fuels, 2003, 17, 549-558.	2.5	71
114	Thermal Exploitation of Wastes with Lignite for Energy Production. Journal of the Air and Waste Management Association, 2003, 53, 1301-1311.	0.9	9
115	Experience on Combustion and Co-Combustion of Greek Brown Coal in Fluidized Bed Facilities. , 2003, , 499.		1
116	Fluidized bed combustion with the use of Greek solid fuels. Thermal Science, 2003, 7, 33-42.	0.5	5
117	Emissions monitoring during coal waste wood co-combustion in an industrial steam boiler. Fuel, 2002, 81, 547-554.	3.4	47