

# MarÃ-a BegoÃ±a PeÃ±a Pellicer

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

671  
citations

567281

15  
h-index

552781

26  
g-index

50  
all docs

50  
docs citations

50  
times ranked

546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-stoichiometric methanation as strategy to overcome the limitations of green hydrogen injection into the natural gas grid. Applied Energy, 2022, 309, 118462.	10.1	24
2	Synthetic natural gas production in a 1kW reactor using Ni/Ce/Al <sub>2</sub> O <sub>3</sub> and Ru/Ce/Al <sub>2</sub> O <sub>3</sub> : Kinetics, catalyst degradation and process design. Energy, 2022, 256, 124720.	8.8	6
3	A review on CO <sub>2</sub> mitigation in the Iron and Steel industry through Power to X processes. Journal of CO <sub>2</sub> Utilization, 2021, 46, 101456.	6.8	83
4	EXPERIENCES IN THERMAL ENGINEERING ON SHIFTING TO ON-LINE LEARNING UNDER THE COVID-19 PANDEMIC SCENARIO. , 2021, , .		0
5	DESIGN AND DEVELOPMENT OF AN EDUCATIONAL MOBILE APPLICATION FOR ANDROID USING AUGMENTED REALITY. APPLICATION TO ENGINEERING THERMODYNAMICS. EDULEARN Proceedings, 2021, , .	0.0	0
6	Lab-scale experimental tests of power to gas-oxycombustion hybridization: System design and preliminary results. Energy, 2021, 226, 120375.	8.8	11
7	CO <sub>2</sub> Recycling in the Iron and Steel Industry via Power-to-Gas and Oxy-Fuel Combustion. Energies, 2021, 14, 7090.	3.1	18
8	Improved Flexibility and Economics of Combined Cycles by Power to Gas. Frontiers in Energy Research, 2020, 8, .	2.3	6
9	Reducing cycling costs in coal fired power plants through power to hydrogen. International Journal of Hydrogen Energy, 2020, 45, 25838-25850.	7.1	10
10	THE FLIPPED CLASSROOM MODEL IN ENGINEERING THERMODYNAMICS: COMPARISON OF EXPERIENCES IN DIFFERENT BACHELOR DEGREES. EDULEARN Proceedings, 2020, , .	0.0	0
11	RUBRIC-BASED ASSESSMENT PROCEDURE FOR MONITORING AND LEARNING PURPOSES IN ENGINEERING THERMODYNAMICS. , 2020, , .		0
12	SYSTEMATIC METHODOLOGY FOR THE DESIGN OF GAMIFICATION ACTIVITIES AND APPLICATION TO ENGINEERING DEGREES AS ACTIVE LEARNING TOOL. EDULEARN Proceedings, 2020, , .	0.0	0
13	Renewable energy sources and power-to-gas aided cogeneration for non-residential buildings. Energy, 2019, 181, 226-238.	8.8	17
14	IMPROVING ORAL COMMUNICATION AND TEAMWORK SKILLS IN THE FIELD OF THERMAL ENGINEERING. EDULEARN Proceedings, 2019, , .	0.0	0
15	ASSESSMENT OF QUANTITATIVE AND AUTOMATED RUBRICS AS LEARNING TOOL IN ENGINEERING THERMODYNAMICS. , 2019, , .		1
16	THE FLIPPED CLASSROOM MODEL IN THE THERMAL ENGINES AND MACHINES AREA: ANALYSIS AND COMPARISON OF EXPERIENCES. EDULEARN Proceedings, 2019, , .	0.0	0
17	LEARNING ANALYTICS THROUGH THE DIGITAL FOOTPRINT: RESULTS FOR ENGINEERING THERMODYNAMICS SUBJECT. EDULEARN Proceedings, 2019, , .	0.0	1
18	YOUTUBE AS A COMPLEMENTARY LEARNING TOOL TO SUPPORT THE STUDY IN THE FIELD OF THERMAL ENGINEERING. EDULEARN Proceedings, 2019, , .	0.0	0

#	ARTICLE	IF	CITATIONS
19	ENABLING A BETTER FLEXIBILITY DURING SELF-STUDY THROUGH YOUTUBE. , 2019, , .		0
20	ENHANCING THE ACQUISITION OF COMPETENCES THROUGH THE FLIPPED CLASSROOM MODEL. , 2019, , .		0
21	Combining Flipped Classroom Model and Educational Videos for Improving Teaching-Learning Process in Thermodynamics and Thermal Engineering. Proceedings (mdpi), 2018, 2, .	0.2	1
22	Use of Educational Resources and Academic Performance: Analysis and Comparison for the Degree on Engineering of Industrial Technologies. Proceedings (mdpi), 2018, 2, 1330.	0.2	0
23	Experimental study on the effects of co-firing coal mine waste residues with coal in PF swirl burners. Energy, 2018, 157, 45-53.	8.8	8
24	Decision-making methodology for managing photovoltaic surplus electricity through Power to Gas: Combined heat and power in urban buildings. Applied Energy, 2018, 228, 1032-1045.	10.1	39
25	DEFINING QUANTITATIVE AND AUTOMATED RUBRICS FROM THE ASSESSMENT ACTIVITIES SCORES. , 2018, , .		0
26	DEVELOPMENT OF AN OPEN COURSEWARE (OCW) WITH AUDIO-VISUAL MATERIAL TO SUPPORT THE STUDY OF THERMODYNAMICS AND THERMAL ENGINEERING. EDULEARN Proceedings, 2018, , .	0.0	0
27	LEARNING PROCESS AND SUCCESS RATES: A COMPARATIVE STUDY IN THERMAL ENGINEERING SUBJECTS. , 2018, , .		0
28	APPLICATION OF FLIPPED CLASSROOM MODEL IN THERMAL ENGINEERING: ANALYSIS AND COMPARISON OF RESULTS. , 2018, , .		0
29	Analysis of thermal resistance evolution of ash deposits during co-firing of coal with biomass and coal mine waste residues. Fuel, 2017, 194, 357-367.	6.4	16
30	Investigation on co-firing of coal mine waste residues in pulverized coal combustion systems. Energy, 2017, 140, 58-68.	8.8	26
31	PILOT EXPERIENCE FOR THE APPLICATION OF THE FLIPPED CLASSROOM IN SUBJECTS OF THE FIELD OF THERMAL ENGINEERING. , 2017, , .		0
32	DEVELOPMENT OF EDUCATIONAL VIDEOS AS REUSABLE LEARNING OBJECTS (RLO) FOR THEIR INTEGRATION INTO AN OPEN COURSEWARE (OCW) ON FUNDAMENTALS OF THERMODYNAMICS AND THERMAL ENGINEERING. , 2017, , .		0
33	IMPROVING THE TEACHING - LEARNING PROCESS USING EDUCATIONAL VIDEOS AS REUSABLE LEARNING OBJECTS (RLO) IN THE FIELD OF THERMAL ENGINEERING. EDULEARN Proceedings, 2016, , .	0.0	2
34	Experimental analysis of biomass co-firing flames in a pulverized fuel swirl burner using a CCD based visualization system. Fuel Processing Technology, 2015, 130, 299-310.	7.2	27
35	Towards soot-blowing optimization in superheaters. Applied Thermal Engineering, 2013, 61, 737-746.	6.0	24
36	Characterization of PF flames under different swirl conditions based on visualization systems. Fuel, 2013, 113, 798-809.	6.4	27

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37	Coal flame characterization by means of digital image processing in a semi-industrial scale PF swirl burner. Applied Energy, 2012, 94, 375-384.	10.1	61
38	Soft-computing models for soot-blowing optimization in coal-fired utility boilers. Applied Soft Computing Journal, 2011, 11, 1657-1668.	7.2	45
39	Two-dimensional wave patterns near a Hopf-Wave interaction in a chemical model. European Physical Journal: Special Topics, 2007, 146, 301-311.	2.6	6
40	Monitoring of drilling for burr detection using spindle torque. International Journal of Machine Tools and Manufacture, 2005, 45, 1614-1621.	13.4	48
41	MODULATED STANDING WAVES RESULTING FROM A HOPF-WAVE INTERACTION IN A CHEMICAL MODEL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3899-3907.	1.7	3
42	Transverse instabilities in chemical Turing patterns of stripes. Physical Review E, 2003, 68, 056206.	2.1	27
43	PHASE INSTABILITIES OF DISTORTED HEXAGONAL PATTERNS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 2771-2777.	1.7	1
44	Stability of Turing patterns in the Brusselator model. Physical Review E, 2001, 64, 056213.	2.1	97
45	Selection and competition of Turing patterns. Europhysics Letters, 2000, 51, 300-306.	2.0	31
46	Evaluación de la mejora del proceso de enseñanza-aprendizaje mediante la integración de objetos de aprendizaje reutilizables en un curso abierto OCW. , 0, , .		0
47	Experiencia piloto de aula invertida para mejorar el proceso de enseñanza-aprendizaje en la asignatura de Termodinámica Técnica. , 0, , .		1
48	Uso de YouTube como herramienta educativa de apoyo a la docencia en termodinámica e ingeniería térmica. , 0, , .		0