

Cristina Alonso-Tristán

List of Publications by Year in descending order

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73
papers

853
citations

566801

15
h-index

610482

24
g-index

74
all docs

74
docs citations

74
times ranked

716
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance analysis of PV plants: Optimization for improving profitability. <i>Energy Conversion and Management</i> , 2012, 54, 17-23.	4.4	57
2	Performance of grid-tied PV facilities based on real data in Spain: Central inverter versus string system. <i>Energy Conversion and Management</i> , 2014, 86, 1128-1133.	4.4	43
3	Small hydropower plants in Spain: A case study. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 2729-2735.	8.2	41
4	Experimental Analysis of a Novel PV/T Panel with PCM and Heat Pipes. <i>Sustainability</i> , 2020, 12, 1710.	1.6	31
5	Diffuse solar irradiance estimation on building's façades: Review, classification and benchmarking of 30 models under all sky conditions. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 783-802.	8.2	30
6	Mathematical interpolation methods for spatial estimation of global horizontal irradiation in Castilla-La Mancha, Spain: A case study. <i>Solar Energy</i> , 2017, 151, 14-21.	2.9	27
7	The PV potential of vertical façades: A classic approach using experimental data from Burgos, Spain. <i>Solar Energy</i> , 2019, 177, 192-199.	2.9	26
8	Implementation of PV plants in Spain: A case study. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1342-1346.	8.2	25
9	Thermodynamics of mixtures containing amines. XI. Liquid+liquid equilibria and molar excess enthalpies at 298.15K for N-methylaniline+hydrocarbon systems. Characterization in terms of DISQUAC and ERAS models. <i>Journal of Chemical Thermodynamics</i> , 2013, 56, 89-98.	1.0	25
10	Seasonal characterization of CIE standard sky types above Burgos, northwestern Spain. <i>Solar Energy</i> , 2018, 169, 24-33.	2.9	23
11	Performance of grid-tied PV facilities: A case study based on real data. <i>Energy Conversion and Management</i> , 2013, 76, 893-898.	4.4	22
12	Vapor-liquid equilibrium of octane-enhancing additives in gasolines. <i>Fluid Phase Equilibria</i> , 2001, 182, 241-255.	1.4	19
13	Excess Enthalpies of Binary and Ternary Mixtures Containing Dibutyl Ether, Cyclohexane, and 1-Butanol at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 1672-1679.	1.0	19
14	Thermodynamics of Mixtures Containing Aromatic Alcohols. 1. Liquid-Liquid Equilibria for (Phenylmethanol + Alkane) Systems. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 1186-1191.	1.0	19
15	Performance Indicators for Sun-Tracking Systems: A Case Study in Spain. <i>Energy and Power Engineering</i> , 2014, 06, 292-302.	0.5	18
16	Vapor-liquid equilibrium of octane-enhancing additives in gasolines. <i>Fluid Phase Equilibria</i> , 2004, 217, 157-164.	1.4	17
17	Orientational Effects and Random Mixing in 1-Alkanol + Alkanone Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 10317-10328.	1.8	17
18	Benchmarking of meteorological indices for sky cloudiness classification. <i>Solar Energy</i> , 2020, 195, 499-513.	2.9	17

#	ARTICLE	IF	CITATIONS
19	Thermodynamics of Mixtures Containing Amines. XV. Liquid-Liquid Equilibria for Benzylamine + CH ₃ (CH ₂) _n CH ₃ (<i>n</i> = 8, 9, 10, 12, 14). Journal of Chemical & Engineering Data, 2014, 59, 2101-2105.	1.0	16
20	Photovoltaic Prediction Software: Evaluation with Real Data from Northern Spain. Applied Sciences (Switzerland), 2021, 11, 5025.	1.3	16
21	Vapor-Liquid equilibrium of octane-enhancing additives in gasolines. Fluid Phase Equilibria, 2003, 212, 81-95.	1.4	15
22	Thermal analysis of closed feedwater heaters in nuclear power plants. Applied Thermal Engineering, 2014, 68, 45-58.	3.0	15
23	Liquid-Liquid equilibria for acetophenone+n-alkane mixtures and characterization of acetophenone systems using DISQUAC. Fluid Phase Equilibria, 2015, 391, 39-48.	1.4	15
24	Thermodynamics of alkanone+aromatic hydrocarbon mixtures. Fluid Phase Equilibria, 2013, 337, 125-136.	1.4	13
25	Photosynthetic Active Radiation, Solar Irradiance and the CIE Standard Sky Classification. Applied Sciences (Switzerland), 2020, 10, 8007.	1.3	13
26	Experimental investigation of the vapour-Liquid equilibrium of binary and ternary mixtures containing dibutyl ether (DBE), cyclohexane and toluene at 313.15K. Fluid Phase Equilibria, 2006, 245, 57-62.	1.4	12
27	Liquid-Liquid equilibria for benzaldehyde+n-alkane mixtures and characterization of benzaldehyde+hydrocarbon systems in terms of DISQUAC. Fluid Phase Equilibria, 2014, 366, 61-68.	1.4	12
28	Modelling Photosynthetic Active Radiation (PAR) through meteorological indices under all sky conditions. Agricultural and Forest Meteorology, 2021, 310, 108627.	1.9	12
29	Thermodynamics of Mixtures Containing a Very Strongly Polar Compound. 10. Liquid-Liquid Equilibria for <i>N,N</i> -Dimethylacetamide + Selected Alkanes. Journal of Chemical & Engineering Data, 2013, 58, 2339-2344.	1.0	11
30	Oriental Effects and Random Mixing in 1-Alkanol + Nitrile Mixtures. Industrial & Engineering Chemistry Research, 2015, 54, 550-559.	1.8	11
31	Shadow-band radiometer measurement of diffuse solar irradiance: Calculation of geometrical and total correction factors. Solar Energy, 2016, 139, 85-99.	2.9	11
32	Feature selection for CIE standard sky classification. Solar Energy, 2021, 218, 95-107.	2.9	11
33	New device for the simultaneous measurement of diffuse solar irradiance on several azimuth and tilting angles. Solar Energy, 2015, 119, 370-382.	2.9	10
34	Thermal balance of wet-steam turbines in nuclear power plants: A case study. Applied Thermal Engineering, 2016, 93, 598-605.	3.0	9
35	Performance of global luminous efficacy models and proposal of a new model for daylighting in Burgos, Spain. Renewable Energy, 2019, 133, 1000-1010.	4.3	9
36	Sun-trackers profitability analysis in Spain. Progress in Photovoltaics: Research and Applications, 2014, 22, 1010-1022.	4.4	8

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37	Thermodynamics of amide+ketone mixtures. 1. Volumetric, speed of sound and refractive index data for N,N-dimethylformamide+2-alkanone systems at several temperatures. <i>Journal of Chemical Thermodynamics</i> , 2016, 98, 21-32.	1.0	8
38	Oriental effects in alkanone, alkanal or dialkyl carbonate + alkane mixtures and in alkanone + alkanone or + dialkyl carbonate systems. <i>Journal of Molecular Liquids</i> , 2017, 233, 517-527.	2.3	8
39	Thermodynamics of mixtures with strongly negative deviations from Raoult's law. XV. Permittivities and refractive indices for 1-alkanol + n-hexylamine systems at (293.15-303.15) K. Application of the Kirkwood-Fröhlich model. <i>Fluid Phase Equilibria</i> , 2018, 468, 18-28.	1.4	8
40	Regression and ANN Models for Electronic Circuit Design. <i>Complexity</i> , 2018, 2018, 1-9.	0.9	8
41	Thermodynamics of aromatic polar compound (alkanone, alkanal or alkanoate) + hydrocarbon mixtures. <i>Fluid Phase Equilibria</i> , 2016, 421, 49-58.	1.4	7
42	Liquid-Liquid Equilibria for Systems Containing 4-Phenylbutan-2-one or Benzyl Ethanoate and Selected Alkanes. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 988-994.	1.0	7
43	Analysis of solar direct irradiance models under clear-skies: Evaluation of the improvements for locally adapted models. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, .	0.8	7
44	Thermodynamics of mixtures containing a very strongly polar compound. 12. Systems with nitrobenzene or 1-nitroalkane and hydrocarbons or 1-alkanols. <i>Fluid Phase Equilibria</i> , 2018, 471, 24-39.	1.4	7
45	Review of the Legislative Framework for the Remuneration of Photovoltaic Production in Spain: A Case Study. <i>Sustainability</i> , 2020, 12, 1214.	1.6	7
46	Oriental effects in mixtures of organic carbonates with alkanes or 1-alkanols. <i>Fluid Phase Equilibria</i> , 2017, 449, 91-103.	1.4	6
47	Estimation of photovoltaic potential for electricity self-sufficiency: A study case of military facilities in northwest Spain. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, .	0.8	6
48	Retrieval of monthly average hourly values of direct and diffuse solar irradiance from measurements of global radiation in Spain. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, 023707.	0.8	6
49	Thermodynamics of mixtures containing aromatic nitriles. <i>Journal of Chemical Thermodynamics</i> , 2018, 116, 259-272.	1.0	6
50	A new diffuse luminous efficacy model for daylight availability in Burgos, Spain. <i>Renewable Energy</i> , 2020, 146, 2812-2826.	4.3	6
51	Phase Equilibrium Properties of Binary and Ternary Mixtures Containing Dibutyl Ether, Cyclohexane, and Heptane or 1-Hexene at T = 313.15 K. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1486-1491.	1.0	5
52	Liquid-Liquid Equilibria for 2-Phenylethan-1-ol + Alkane Systems. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 429-435.	1.0	5
53	Liquid-liquid equilibria for the systems 2-ethoxy-benzenamine + CH ₃ (CH ₂) _n CH ₃ (n = 6,8,10,12) and 4-ethoxy-benzenamine + CH ₃ (CH ₂) _n CH ₃ (n = 5,6). <i>Journal of Molecular Liquids</i> , 2019, 274, 534-539.	2.3	5
54	Real Energy Payback Time and Carbon Footprint of a GCPVS. <i>AIMS Energy</i> , 2017, 5, 77-95.	1.1	5

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55	Excess enthalpies of binary and ternary mixtures containing tert-amyl methyl ether (TAME), tert-amyl alcohol (TAOH) and hexane at 298.15 and 313.15 K. Fluid Phase Equilibria, 2004, 217, 145-155.	1.4	4
56	Phase equilibrium properties of the ternary mixture dibutyl ether+toluene+heptane at 313.15K. Fluid Phase Equilibria, 2012, 317, 84-88.	1.4	4
57	Thermodynamics of mixtures containing a very strongly polar compound. 11. 1-Alkanol+alkanenitrile systems. Thermochimica Acta, 2015, 605, 121-129.	1.2	4
58	Extension of PAR Models under Local All-Sky Conditions to Different Climatic Zones. Applied Sciences (Switzerland), 2022, 12, 2372.	1.3	4
59	A Numerical Simulation of an Experimental Melting Process of a Phase-Change Material without Convective Flows. Applied Sciences (Switzerland), 2022, 12, 3640.	1.3	4
60	Phase Equilibrium Properties of Binary and Ternary Mixtures Containing 1,1-Dimethylethyl Methyl Ether, 1-Propanol, and Hexane at T = 313.15 K. Journal of Chemical & Engineering Data, 2006, 51, 2121-2125.	1.0	3
61	Vapour-liquid equilibrium of octane enhancing additives in gasolines 7: Total pressure data and gE for the ternary mixture tert-amyl methyl ether (TAME), methanol and hexane at 313.15K. Fluid Phase Equilibria, 2006, 245, 52-56.	1.4	3
62	Evaluation of the Vertical Sky Component without Obstructions for Daylighting in Burgos, Spain. Applied Sciences (Switzerland), 2020, 10, 3095.	1.3	3
63	A New Model for the Analysis and Simulation of Steam Turbines at Partial and Full Load. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	0.5	2
64	Thermodynamics of amide + ketone mixtures. 2. Volumetric, speed of sound and refractive index data for N,N-dimethylacetamide + 2-alkanone systems at several temperatures. Application of Flory's model to tertiary amide + n-alkanone systems. Journal of Molecular Liquids, 2017, 248, 286-301.	2.3	1
65	Liquid-liquid equilibria for (2-hydroxy benzaldehyde + n-alkane) mixtures. Intermolecular and proximity effects in systems containing hydroxyl and aldehyde groups. Journal of Chemical Thermodynamics, 2019, 135, 359-368.	1.0	1
66	REVIEW OF EVALUATION SYSTEMS IN INDUSTRIAL ENGINEERING SUBJECTS BY MEANS OF STRATEGIC ANALYSIS TOOLS IN BURGOS UNIVERSITY. EDULEARN Proceedings, 2016, , .	0.0	1
67	DESIGN OF AN ASSESSMENT METHOD BASED ON COMPETENCES BY STRATEGIC ANALYSIS TOOLS FOR SUBJECTS OF INDUSTRIAL ENGINEERING DEGREE. , 2016, , .		1
68	FAILURE MODE AND EFFECT ANALYSIS TO ASSESS THE ACQUISITION OF COMPETENCES IN HIGHER EDUCATION ENGINEERING: A CASE STUDY AT BURGOS UNIVERSITY. , 2017, , .		1
69	Pixel-Based Image Processing for CIE Standard Sky Classification through ANN. Complexity, 2021, 2021, 1-15.	0.9	1
70	Reply to 'Comment on 'Excess Enthalpies of Binary and Ternary Mixtures Containing Dibutyl Ether, Cyclohexane, and 1-Butanol at 298.15 K'. Journal of Chemical & Engineering Data, 2011, 56, 3712-3712.	1.0	0
71	Daily data of Global Vertical Insolation in the four cardinal orientations in Burgos, Spain. Data in Brief, 2018, 21, 2489-2491.	0.5	0
72	Modelling solar data: reasons, main methods and applications. Renewable Energy and Power Quality Journal, 0, , 767-771.	0.2	0

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73	EVALUATION OF CONTINUOUS ASSESSMENT METHODS IN INDUSTRIAL ENGINEERING DEGREE: A CASE STUDY AT BURGOS UNIVERSITY. , 2016, , .		0