Isabel Perez-Grande

List of Publications by Year
in descending order

58 papers	1,482 citations	331670 21 h-index	330143 37 g-index
59 all docs	59 docs citations	59 times ranked	1277 citing authors

#	Article	IF	Citations
1	Ascent phase thermal analysis of Long Duration Balloons. Acta Astronautica, 2022, 195, 416-429.	3.2	3
2	TASEC-Lab: A COTS-based CubeSat-like university experiment for characterizing the convective heat transfer in stratospheric balloon missions. Acta Astronautica, 2022, 196, 244-258.	3.2	8
3	A free convection heat transfer correlation for very thin horizontal wires in rarefied atmospheres. Experimental Thermal and Fluid Science, 2021, 122, 110295.	2.7	3
4	Thermal calibration of the MEDA-TIRS radiometer onboard NASA's Perseverance rover. Acta Astronautica, 2021, 182, 144-159.	3.2	17
5	Thermal Analysis of the Solar Orbiter PHI Electronics Unit. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 186-195.	4.7	3
6	Calculation of linear conductances for thermal lumped models by means of the CMF method. Acta Astronautica, 2020, 173, 76-85.	3.2	6
7	Real data-based thermal environment definition for the ascent phase of Polar-Summer Long Duration Balloon missions from Esrange (Sweden). Acta Astronautica, 2020, 170, 235-250.	3.2	11
8	Methane on Mars: New insights into the sensitivity of CH4 with the NOMAD/ExoMars spectrometer through its first in-flight calibration. Icarus, 2019, 321, 671-690.	2.5	32
9	Correlation of spacecraft thermal mathematical models to reference data. Acta Astronautica, 2018, 144, 305-319.	3.2	27
10	NOMAD, an Integrated Suite of Three Spectrometers for the ExoMars Trace Gas Mission: Technical Description, Science Objectives and Expected Performance. Space Science Reviews, 2018, 214, 1.	8.1	95
11	EUSO-TA â€“ First results from a ground-based EUSO telescope. Astroparticle Physics, 2018, 102, 98-111.	4.3	27
12	First observations of speed of light tracks by a fluorescence detector looking down on the atmosphere. Journal of Instrumentation, 2018, 13, P05023-P05023.	1.2	15
13	Uncertainty calculation for spacecraft thermal models using a generalized SEA method. Acta Astronautica, 2018, 151, 691-702.	3.2	19
14	Selection of extreme environmental conditions, albedo coefficient and Earth infrared radiation, for polar summer Long Duration Balloon missions. Acta Astronautica, 2018, 148, 276-284.	3.2	15
15	Galloping instabilities of Z-shaped shading louvers. Indoor and Built Environment, 2017, 26, 1198-1213.	2.8	3
16	The Second Flight of the Sunrise Balloon-borne Solar Observatory: Overview of Instrument Updates, the Flight, the Data, and First Results. Astrophysical Journal, Supplement Series, 2017, 229, 2.	7.7	80
17	Cosmic ray oriented performance studies for the JEM-EUSO first level trigger. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 866, 150-163.	1.6	17
18	Meteor studies in the framework of the JEM-EUSO program. Planetary and Space Science, 2017, 143, 245-255.	1.7	17

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19	Performance analysis of the MEDA's Thermal InfraRed Sensor (TIRS) on board the Mars 2020. , 2017, , .		1
20	Simplified analysis of the thermal behavior of a spinning satellite flying over Sun-synchronous orbits. Applied Thermal Engineering, 2017, 125, 1146-1156.	6.0	16
21	NOMAD spectrometer on the ExoMars trace gas orbiter mission: part 2â€"design, manufacturing, and testing of the ultraviolet and visible channel. Applied Optics, 2017, 56, 2771.	2.1	40
22	Quasi-autonomous thermal model reduction for steady-state problems in space systems. Applied Thermal Engineering, 2016, 105, 456-466.	6.0	16
23	Optical and radiometric models of the NOMAD instrument part II: the infrared channels - SO and LNO. Optics Express, 2016, 24, 3790.	3.4	25
24	Expected performances of the NOMAD/ExoMars instrument. Planetary and Space Science, 2016, 124, 94-104.	1.7	31
25	Optical and radiometric models of the NOMAD instrument part I: the UVIS channel. Optics Express, 2015, 23, 30028.	3.4	26
26	Comparative study of the effect of several trains on the rotation motion of ballast stones. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2015, 229, 71-88.	2.0	6
27	NOMAD spectrometer on the ExoMars trace gas orbiter mission: part 1â€"design, manufacturing and testing of the infrared channels. Applied Optics, 2015, 54, 8494.	2.1	58
28	Science objectives and performances of NOMAD, a spectrometer suite for the ExoMars TGO mission. Planetary and Space Science, 2015, 119, 233-249.	1.7	77
29	Effects of non condensable gas in an ammonia loop heat pipe operating up to 125ÂÂ°C. Applied Thermal Engineering, 2014, 66, 474-484.	6.0	23
30	Surface tension and microgravity. European Journal of Physics, 2014, 35, 055010.	0.6	22
31	Thermal control surfaces. , 2012, , 87-110.		0
32	Thermal control design. , 2012, , 327-338.		2
33	Pumped fluid loops. , 2012, , 237-261.		3
34	Mechanical interfaces. , 2012, , 157-173.		0
35	Phase change capacitors. , 2012, , 209-223.		0
36	Thermal mathematical models. , 2012, , 339-348.		1

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37	Thermal control testing. , 2012, , 349-371.		0
38	Gust wind tunnel study on ballast pick-up by high-speed trains. Experiments in Fluids, 2012, 52, 105-121.	2.4	11
39	Spacecraft thermal control. , 2012, , .		78
40	The Sunrise Mission. Solar Physics, 2011, 268, 1-34.	2.5	199
41	On the onset of turbulence in natural convection on inclined plates. Experimental Thermal and Fluid Science, 2011, 35, 68-72.	2.7	4
42	Thermal control of SUNRISE, a balloon-borne solar telescope. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2011, 225, 1037-1049.	1.3	6
43	Experimental Study on the Ballast Pick-Up Problem in High Speed Trains. , 2010, , .		0
44	Experimental determination of the onset of turbulence on inclined plates using hot wire velocity measurements. , 2010, , .		0
45	Transient thermal analysis during the ascent phase of a balloon-borne payload. Comparison with SUNRISE test flight measurements. Applied Thermal Engineering, 2009, 29, 1507-1513.	6.0	12
46	Nonlinear analysis of a simple model of temperature evolution inÂaÂsatellite. Nonlinear Dynamics, 2009, 58, 405-415.	5.2	14
47	Analytical study of the thermal behaviour and stability of a small satellite. Applied Thermal Engineering, 2009, 29, 2567-2573.	6.0	31
48	Use of turbulence generators as stall-delaying devices in flight at low Reynolds numbers. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2008, 222, 1007-1013.	1.3	2
49	On the Circulation and the Position of the Forward Stagnation Point on Airfoils. International Journal of Mechanical Engineering Education, 2007, 35, 65-75.	1.0	3
50	Galloping stability of triangular cross-sectional bodies: A systematic approach. Journal of Wind Engineering and Industrial Aerodynamics, 2007, 95, 928-940.	3.9	70
51	Influence of glass properties on the performance of double-glazed facades. Applied Thermal Engineering, 2005, 25, 3163-3175.	6.0	66
52	Galloping instabilities of two-dimensional triangular cross-section bodies. Experiments in Fluids, 2005, 38, 789-795.	2.4	61
53	A thermoeconomic analysis of a commercial aircraft environmental control system. Applied Thermal Engineering, 2005, 25, 309-325.	6.0	24
54	On the aerodynamics of leading-edge high-lift devices of avian wings. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2005, 219, 63-68.	1.3	33

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55	Analysis of the temperature field in compound samples heated in multizone resistance furnaces. Advances in Space Research, 2003, 32, 251-257.	2.6	0
56	Gas turbine turbocharged by a steam turbine: a gas turbine solution increasing combined power plant efficiency and power. Applied Thermal Engineering, 2003, 23, 1913-1929.	6.0	12
57	Optimization of a commercial aircraft environmental control system. Applied Thermal Engineering, 2002, 22, 1885-1904.	6.0	100
58	A global thermal analysis of multizone resistance furnaces with specular and diffuse samples. Journal of Crystal Growth, 2002, 246, 37-54.	1.5	11