

Jose M Martinez-Val

List of Publications by Year in descending order

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62
papers

2,247
citations

218677

26
h-index

214800

47
g-index

65
all docs

65
docs citations

65
times ranked

1779
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar multiple optimization for a solar-only thermal power plant, using oil as heat transfer fluid in the parabolic trough collectors. <i>Solar Energy</i> , 2009, 83, 2165-2176.	6.1	394
2	Performance analysis of an Integrated Solar Combined Cycle using Direct Steam Generation in parabolic trough collectors. <i>Applied Energy</i> , 2011, 88, 3228-3238.	10.1	214
3	Performance of a direct steam generation solar thermal power plant for electricity production as a function of the solar multiple. <i>Solar Energy</i> , 2009, 83, 679-689.	6.1	172
4	Experimental analysis of direct thermal methane cracking. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 12877-12886.	7.1	122
5	Solar radiation concentration features in Linear Fresnel Reflector arrays. <i>Energy Conversion and Management</i> , 2012, 54, 133-144.	9.2	109
6	A comparative analysis of configurations of linear Fresnel collectors for concentrating solar power. <i>Energy</i> , 2014, 73, 192-203.	8.8	75
7	Steady-state thermal analysis of an innovative receiver for linear Fresnel reflectors. <i>Applied Energy</i> , 2012, 92, 503-515.	10.1	70
8	Neutron Capture Cross Section Measurement of Sm151 at the CERN Neutron Time of Flight Facility (n_TOF). <i>Physical Review Letters</i> , 2004, 93, 161103.	7.8	65
9	Fresnel-based modular solar fields for performance/cost optimization in solar thermal power plants: A comparison with parabolic trough collectors. <i>Applied Energy</i> , 2015, 141, 175-189.	10.1	62
10	Energy management in solar thermal power plants with double thermal storage system and subdivided solar field. <i>Applied Energy</i> , 2011, 88, 4055-4066.	10.1	46
11	Equation of state and optimum compression in inertial fusion energy. <i>Laser and Particle Beams</i> , 2007, 25, 585-592.	1.0	44
12	Analysis of directly driven ICF targets. <i>Laser and Particle Beams</i> , 1986, 4, 349-392.	1.0	43
13	Performance study of solar power plants with CO ₂ as working fluid. A promising design window. <i>Energy Conversion and Management</i> , 2015, 92, 36-46.	9.2	42
14	Proposal of a fluid flow layout to improve the heat transfer in the active absorber surface of solar central cavity receivers. <i>Applied Thermal Engineering</i> , 2012, 35, 220-232.	6.0	41
15	Fusion burning waves in proton-boron-11 plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 216, 142-152.	2.1	40
16	An analytical optimization of thermal energy storage for electricity cost reduction in solar thermal electric plants. <i>Applied Energy</i> , 2017, 185, 531-546.	10.1	40
17	Thermal regimes in solar-thermal linear collectors. <i>Solar Energy</i> , 2011, 85, 857-870.	6.1	39
18	Collateral effects of renewable energies deployment in Spain: Impact on thermal power plants performance and management. <i>Energy Policy</i> , 2011, 39, 6561-6574.	8.8	35

#	ARTICLE	IF	CITATIONS
19	Inertial fusion targets driven by cluster ion beam: The hydrodynamic approach. <i>Laser and Particle Beams</i> , 1995, 13, 43-69.	1.0	32
20	Hybrid reactors: Nuclear breeding or energy production?. <i>Energy Conversion and Management</i> , 2010, 51, 1758-1763.	9.2	32
21	Proton ¹¹ boron-11 fusion reactions induced by heat-detonation burning waves. <i>Laser and Particle Beams</i> , 1998, 16, 581-598.	1.0	31
22	A conceptual design of solar boiler. <i>Solar Energy</i> , 2009, 83, 1713-1722.	6.1	31
23	Safety issues of nuclear production of hydrogen. <i>Energy Conversion and Management</i> , 2006, 47, 2732-2739.	9.2	30
24	Volume ignition targets for heavy-ion inertial fusion. <i>Laser and Particle Beams</i> , 1994, 12, 681-717.	1.0	28
25	An analysis of the Physical Causes of the Chernobyl Accident. <i>Nuclear Technology</i> , 1990, 90, 371-388.	1.2	27
26	Thermodynamic cycles optimised for medium enthalpy units of concentrating solar power. <i>Energy</i> , 2014, 67, 176-185.	8.8	26
27	Radiation loss from inertially confined degenerate plasmas. <i>Laser and Particle Beams</i> , 2003, 21, 599-607.	1.0	23
28	Effects of different nuclear reactions on internal tritium breeding in deuterium fusion. <i>Nuclear Fusion</i> , 2000, 40, 195-207.	3.5	21
29	Neutronic Effects in Inertial Confinement Fusion Targets. <i>Fusion Science and Technology</i> , 1990, 17, 476-483.	0.6	20
30	Analysis of the retrograde hydrogen boron fusion gains at inertial confinement fusion with volume ignition. <i>Laser and Particle Beams</i> , 1997, 15, 565-574.	1.0	20
31	Nuclear fission sustainability with hybrid nuclear cycles. <i>Energy Conversion and Management</i> , 2007, 48, 1480-1490.	9.2	20
32	Inertial Fusion Driven by Intense Cluster Ion Beams. <i>Fusion Science and Technology</i> , 1997, 31, 1-25.	0.6	18
33	Dry cooling with night cool storage to enhance solar power plants performance in extreme conditions areas. <i>Applied Energy</i> , 2012, 92, 429-436.	10.1	17
34	Deuterium-tritium fusion reactors without external tritium breeding. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 243, 311-318.	2.1	16
35	Inertial fusion features in degenerate plasmas. <i>Laser and Particle Beams</i> , 2005, 23, 193-198.	1.0	16
36	The comeback of shock waves in inertial fusion energy. <i>Laser and Particle Beams</i> , 2011, 29, 175-181.	1.0	16

#	ARTICLE	IF	CITATIONS
37	Effects of tritium seeding of advanced fusion fuels. Nuclear Fusion, 1997, 37, 985-997.	3.5	15
38	Fusion burning waves in degenerate plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 289, 135-140.	2.1	15
39	Fusion-Burning Waves Ignited by Cumulation Jets. Fusion Science and Technology, 1997, 32, 131-151.	0.6	14
40	A tritium catalytic fusion reactor concept. Nuclear Fusion, 1998, 38, 1651-1664.	3.5	12
41	Fusion energy in degenerate plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 343, 181-189.	2.1	12
42	Material selection for spallation neutron source windows. Nuclear Engineering and Design, 2009, 239, 2573-2580.	1.7	12
43	Thermodynamic mapping of power cycles working around the critical point. Energy Conversion and Management, 2019, 192, 359-373.	9.2	11
44	Energy for Sustainable Development: A systematic approach for a badly defined challenge. Energy Conversion and Management, 2013, 72, 3-11.	9.2	9
45	Supercritical carbon dioxide cycles with multi-heating in Concentrating Solar Power plants. Solar Energy, 2020, 207, 144-156.	6.1	9
46	Heavy-Ion-Driven Targets for Small-Scale Inertial Confinement Fusion Experiments. Fusion Science and Technology, 1993, 23, 218-226.	0.6	7
47	Measurement of the $^{151}\text{Sm}(n,\hat{1}^3)^{152}\text{Sm}$ cross section at n_TOF. Nuclear Physics A, 2005, 758, 533-536.	1.5	7
48	Neutron capture cross section measurements for nuclear astrophysics at CERN n_TOF. Nuclear Physics A, 2005, 758, 501-504.	1.5	7
49	A coherent integration of design choices for advancing in solar thermal power. Solar Energy, 2015, 119, 474-485.	6.1	7
50	Experimental facility for a new thermal-solar field configuration: The rotatory Fresnel collector or sundial. AIP Conference Proceedings, 2019, , .	0.4	6
51	Thermodynamic analysis of multi-heating cycles working around the critical point. Applied Thermal Engineering, 2020, 174, 115292.	6.0	6
52	Thermal features of spallation window targets. Energy Conversion and Management, 2008, 49, 1934-1945.	9.2	5
53	A New Thermal-Solar Field Configuration: The Rotatory Fresnel Collector or Sundial. Energies, 2021, 14, 4139.	3.1	4
54	Title is missing!. Energy Conversion and Management, 2006, 47, 2693-2694.	9.2	3

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55	A Concentrating Solar Power Prototype for validating a new Fresnel-based plant design. Energy Procedia, 2015, 75, 423-429.	1.8	2
56	Tritium Breeding in Hybrid Reactors. Fusion Science and Technology, 1986, 10, 1321-1326.	0.6	1
57	Criticality Studies on Molten Lead Energy Amplifiers. Nuclear Technology, 1998, 124, 201-214.	1.2	1
58	Potential formalism for an axial energy cumulation process. Physical Review E, 2000, 62, 7227-7231.	2.1	1
59	Thermal Regimes in Solar-Thermal Linear Collectors. , 2011, , .		1
60	Lithium resonance self-shielding: Effect on tritium breeding in fusion blankets. Radiation Effects, 1986, 92, 195-198.	0.4	0
61	A General Approach to Nuclear Fission Sustainability and the Need for Specific Solutions. A Case Study on a New Coolant. Fusion Science and Technology, 2012, 61, 411-416.	1.1	0
62	A different way to approach enthalpy loss in supercritical regenerative closed Brayton cycles: The solar heater. AIP Conference Proceedings, 2019, , .	0.4	0