Jose M Martinez-Val

List of Publications by Year
in descending order

62	2,247	218677	214800
papers	citations	26 h-index	47 g-index

65	65	65	1779
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A New Thermal-Solar Field Configuration: The Rotatory Fresnel Collector or Sundial. Energies, 2021, 14, 4139.	3.1	4
2	Supercritical carbon dioxide cycles with multi-heating in Concentrating Solar Power plants. Solar Energy, 2020, 207, 144-156.	6.1	9
3	Thermodynamic analysis of multi-heating cycles working around the critical point. Applied Thermal Engineering, 2020, 174, 115292.	6.0	6
4	A different way to approach enthalpy loss in supercritical regenerative closed Brayton cycles: The solar heater. AIP Conference Proceedings, 2019, , .	0.4	0
5	Experimental facility for a new thermal-solar field configuration: The rotatory Fresnel collector or sundial. AIP Conference Proceedings, 2019, , .	0.4	6
6	Thermodynamic mapping of power cycles working around the critical point. Energy Conversion and Management, 2019, 192, 359-373.	9.2	11
7	An analytical optimization of thermal energy storage for electricity cost reduction in solar thermal electric plants. Applied Energy, 2017, 185, 531-546.	10.1	40
8	Performance study of solar power plants with CO2 as working fluid. A promising design window. Energy Conversion and Management, 2015, 92, 36-46.	9.2	42
9	Fresnel-based modular solar fields for performance/cost optimization in solar thermal power plants: A comparison with parabolic trough collectors. Applied Energy, 2015, 141, 175-189.	10.1	62
10	A coherent integration of design choices for advancing in solar thermal power. Solar Energy, 2015, 119, 474-485.	6.1	7
11	A Concentrating Solar Power Prototype for validating a new Fresnel-based plant design. Energy Procedia, 2015, 75, 423-429.	1.8	2
12	A comparative analysis of configurations of linear Fresnel collectors for concentrating solar power. Energy, 2014, 73, 192-203.	8.8	75
13	Thermodynamic cycles optimised for medium enthalpy units of concentrating solar power. Energy, 2014, 67, 176-185.	8.8	26
14	Energy for Sustainable Development: A systematic approach for a badly defined challenge. Energy Conversion and Management, 2013, 72, 3-11.	9.2	9
15	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
16	Dry cooling with night cool storage to enhance solar power plants performance in extreme conditions areas. Applied Energy, 2012, 92, 429-436.	10.1	17
17	Steady-state thermal analysis of an innovative receiver for linear Fresnel reflectors. Applied Energy, 2012, 92, 503-515.	10.1	70
18	Proposal of a fluid flow layout to improve the heat transfer in the active absorber surface of solar central cavity receivers. Applied Thermal Engineering, 2012, 35, 220-232.	6.0	41

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19	Solar radiation concentration features in Linear Fresnel Reflector arrays. Energy Conversion and Management, 2012, 54, 133-144.	9.2	109
20	The comeback of shock waves in inertial fusion energy. Laser and Particle Beams, 2011, 29, 175-181.	1.0	16
21	Collateral effects of renewable energies deployment in Spain: Impact on thermal power plants performance and management. Energy Policy, 2011, 39, 6561-6574.	8.8	35
22	Experimental analysis of direct thermal methane cracking. International Journal of Hydrogen Energy, 2011, 36, 12877-12886.	7.1	122
23	Energy management in solar thermal power plants with double thermal storage system and subdivided solar field. Applied Energy, 2011, 88, 4055-4066.	10.1	46
24	Performance analysis of an Integrated Solar Combined Cycle using Direct Steam Generation in parabolic trough collectors. Applied Energy, 2011, 88, 3228-3238.	10.1	214
25	Thermal regimes in solar-thermal linear collectors. Solar Energy, 2011, 85, 857-870.	6.1	39
26	Thermal Regimes in Solar-Thermal Linear Collectors. , 2011, , .		1
27	Hybrid reactors: Nuclear breeding or energy production?. Energy Conversion and Management, 2010, 51, 1758-1763.	9.2	32
28	Material selection for spallation neutron source windows. Nuclear Engineering and Design, 2009, 239, 2573-2580.	1.7	12
29	Performance of a direct steam generation solar thermal power plant for electricity production as a function of the solar multiple. Solar Energy, 2009, 83, 679-689.	6.1	172
30	A conceptual design of solar boiler. Solar Energy, 2009, 83, 1713-1722.	6.1	31
31	Solar multiple optimization for a solar-only thermal power plant, using oil as heat transfer fluid in the parabolic trough collectors. Solar Energy, 2009, 83, 2165-2176.	6.1	394
32	Thermal features of spallation window targets. Energy Conversion and Management, 2008, 49, 1934-1945.	9.2	5
33	Equation of state and optimum compression in inertial fusion energy. Laser and Particle Beams, 2007, 25, 585-592.	1.0	44
34	Nuclear fission sustainability with hybrid nuclear cycles. Energy Conversion and Management, 2007, 48, 1480-1490.	9.2	20
35	Title is missing!. Energy Conversion and Management, 2006, 47, 2693-2694.	9.2	3
36	Safety issues of nuclear production of hydrogen. Energy Conversion and Management, 2006, 47, 2732-2739.	9.2	30

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37	Measurement of the 151Sm(n,Î³)152Sm cross section at n_TOF. Nuclear Physics A, 2005, 758, 533-536.	1.5	7
38	Neutron capture cross section measurements for nuclear astrophysics at CERN n_TOF. Nuclear Physics A, 2005, 758, 501-504.	1.5	7
39	Fusion energy in degenerate plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 343, 181-189.	2.1	12
40	Inertial fusion features in degenerate plasmas. Laser and Particle Beams, 2005, 23, 193-198.	1.0	16
41	Neutron Capture Cross Section Measurement ofSm151at the CERN Neutron Time of Flight Facility (n_TOF). Physical Review Letters, 2004, 93, 161103.	7.8	65
42	Radiation loss from inertially confined degenerate plasmas. Laser and Particle Beams, 2003, 21, 599-607.	1.0	23
43	Fusion burning waves in degenerate plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 289, 135-140.	2.1	15
44	Potential formalism for an axial energy cumulation process. Physical Review E, 2000, 62, 7227-7231.	2.1	1
45	Effects of different nuclear reactions on internal tritium breeding in deuterium fusion. Nuclear Fusion, 2000, 40, 195-207.	3.5	21
46	Deuterium-tritium fusion reactors without external tritium breeding. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 243, 311-318.	2.1	16
47	A tritium catalytic fusion reactor concept. Nuclear Fusion, 1998, 38, 1651-1664.	3.5	12
48	Protonâ€“boron-11 fusion reactions induced by heat-detonation burning waves. Laser and Particle Beams, 1998, 16, 581-598.	1.0	31
49	Criticality Studies on Molten Lead Energy Amplifiers. Nuclear Technology, 1998, 124, 201-214.	1.2	1
50	Analysis of the retrograde hydrogen boron fusion gains at inertial confinement fusion with volume ignition. Laser and Particle Beams, 1997, 15, 565-574.	1.0	20
51	Fusion-Burning Waves Ignited by Cumulation Jets. Fusion Science and Technology, 1997, 32, 131-151.	0.6	14
52	Inertial Fusion Driven by Intense Cluster Ion Beams. Fusion Science and Technology, 1997, 31, 1-25.	0.6	18
53	Effects of tritium seeding of advanced fusion fuels. Nuclear Fusion, 1997, 37, 985-997.	3.5	15
54	Fusion burning waves in proton-boron-11 plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 216, 142-152.	2.1	40

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55	Inertial fusion targets driven by cluster ion beam: The hydrodynamic approach. Laser and Particle Beams, 1995, 13, 43-69.	1.0	32
56	Volume ignition targets for heavy-ion inertial fusion. Laser and Particle Beams, 1994, 12, 681-717.	1.0	28
57	Heavy-Ion-Driven Targets for Small-Scale Inertial Confinement Fusion Experiments. Fusion Science and Technology, 1993, 23, 218-226.	0.6	7
58	Neutronic Effects in Inertial Confinement Fusion Targets. Fusion Science and Technology, 1990, 17, 476-483.	0.6	20
59	An analysis of the Physical Causes of the Chernobyl Accident. Nuclear Technology, 1990, 90, 371-388.	1.2	27
60	Tritium Breeding in Hybrid Reactors. Fusion Science and Technology, 1986, 10, 1321-1326.	0.6	1
61	Lithium resonance self-shielding: Effect on tritium breeding in fusion blankets. Radiation Effects, 1986, 92, 195-198.	0.4	0
62	Analysis of directly driven ICF targets. Laser and Particle Beams, 1986, 4, 349-392.	1.0	43