Juan Miguel Gil de la Fe

List of Publications by Year in descending order

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567281 677142 62 604 15 22 g-index citations h-index papers 62 62 62 379 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Monochromatic and mean radiative properties of astrophysical plasma mixtures in nonlocal thermodynamic equilibrium regime. X-Ray Spectrometry, 2020, 49, 6-10.	1.4	2
2	Generation and Parametrization of Mean Plasma Radiative Properties Databases for Astrophysics and Nuclear Fusion Applications. International Journal of Computational Methods, 2020, 17, 1940003.	1.3	O
3	Simulation of the ion beamâ€plasma interaction processes for pointâ€ike ions in doped DT plasmas. X-Ray Spectrometry, 2020, 49, 173-176.	1.4	1
4	Bound electron stopping power model of partially stripped ions in partially ionized plasmas. X-Ray Spectrometry, 2020, 49, 234-238.	1.4	3
5	Analysis of radiative opacities for optically thin and thick astrophysical plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 237, 106633.	2.3	1
6	Radiative properties for astrophysical plasma mixtures in nonlocal thermodynamic equilibrium. Physical Review E, 2018, 98, .	2.1	11
7	Energy loss of Fe ions in He plasmas at different thermodynamic states. Physics of Plasmas, 2018, 25, 093113.	1.9	4
8	Stopping power of a helium plasma under LTE or NLTE conditions. Laser and Particle Beams, 2018, 36, 442-447.	1.0	2
9	Experimental study of the interaction of two laser-driven radiative shocks at the PALS laser. High Energy Density Physics, 2017, 23, 20-30.	1.5	12
10	Counter-propagating radiative shock experiments on the Orion laser and the formation of radiative precursors. High Energy Density Physics, 2017, 23, 60-72.	1.5	12
11	Influence of atomic kinetics in the simulation of plasma microscopic properties and thermal instabilities for radiative bow shock experiments. Physical Review E, 2017, 95, 033201.	2.1	13
12	Counterpropagating Radiative Shock Experiments on the Orion Laser. Physical Review Letters, 2017, 119, 055001.	7.8	24
13	Mapping natural radioactivity of soils in the eastern Canary Islands. Journal of Environmental Radioactivity, 2017, 166, 242-258.	1.7	40
14	BOW SHOCK FRAGMENTATION DRIVEN BY A THERMAL INSTABILITY IN LABORATORY ASTROPHYSICS EXPERIMENTS. Astrophysical Journal, 2015, 815, 96.	4.5	32
15	Structure of a laser-driven radiative shock. High Energy Density Physics, 2015, 17, 106-113.	1.5	21
16	Collisional radiative average atom code based on a relativistic Screened Hydrogenic Model. High Energy Density Physics, 2015, 14, 18-29.	1.5	5
17	Microscopic properties of xenon plasmas for density and temperature regimes of laboratory astrophysics experiments on radiative shocks. Physical Review E, 2015, 91, 053106.	2.1	6
18	A simple methodology for characterization of germanium coaxial detectors by using Monte Carlo simulation and evolutionary algorithms. Journal of Environmental Radioactivity, 2015, 149, 8-18.	1.7	21

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19	Time-dependent and radiation field effects on collisional-radiative simulations of radiative properties of blast waves launched in clusters of xenon. High Energy Density Physics, 2015, 17, 119-128.	1.5	O
20	Collisional–radiative simulations of a supersonic and radiatively cooled aluminum plasma jet. High Energy Density Physics, 2015, 17, 74-84.	1.5	8
21	Calculation of radiative opacity of plasma mixtures using a relativistic screened hydrogenic model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 140, 81-98.	2.3	6
22	Parametrization of Mean Radiative Properties of Optically Thin Steady-State Plasmas and Applications. Communications in Computational Physics, 2014, 16, 612-631.	1.7	10
23	Relativistic screened hydrogenic radial integrals. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 117, 123-132.	2.3	6
24	Analysis of the influence of the plasma thermodynamic regime in the spectrally resolved and mean radiative opacity calculations of carbon plasmas in a wide range of density and temperature. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 114, 136-150.	2.3	6
25	Parametrization of the average ionization and radiative cooling rates of carbon plasmas in a wide range of density and temperature. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 125, 123-138.	2.3	5
26	Analysis of microscopic magnitudes of radiative blast waves launched in xenon clusters with collisional-radiative steady-state simulations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 125, 69-83.	2.3	5
27	Natural radioactivity measurements of beach sands in Gran Canaria, Canary Islands (Spain). Radiation Protection Dosimetry, 2013, 156, 75-86.	0.8	17
28	Determination and analysis of plasma parameters for simulations of radiative blast waves launched in clusters of xenon and krypton. Plasma Physics and Controlled Fusion, 2012, 54, 045012.	2.1	18
29	Modelling of spectral properties and population kinetics studies of inertial fusion and laboratory-astrophysical plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 124004.	2.1	2
30	Studying radiative shocks using laser driven blast waves in clustered gases. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 186-188.	1.6	6
31	Determination and Analysis of the Thermodynamic Regimes of Xenon Plasmas. Contributions To Plasma Physics, 2011, 51, 863-876.	1.1	5
32	Determination of the average ionization and thermodynamic regimes of xenon plasmas with an application to the characterization of blast waves launched in xenon clusters. High Energy Density Physics, 2011, 7, 71-76.	1.5	6
33	A new set of relativistic screening constants for the screened hydrogenic model. High Energy Density Physics, 2011, 7, 169-179.	1.5	16
34	Analytical expressions for radiative opacities of low Z plasmas. Journal of Physics: Conference Series, 2010, 244, 042002.	0.4	0
35	Opacity calculations for ICF target physics using the ABAKO/RAPCAL code. Journal of Physics: Conference Series, 2010, 244, 042003.	0.4	O
36	Opacity calculation for target physics using the ABAKO/RAPCAL code. High Energy Density Physics, 2010, 6, 57-65.	1.5	13

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37	Argon K-shell and bound-free emission from OMEGA direct-drive implosion cores. High Energy Density Physics, 2010, 6, 70-75.	1.5	20
38	Collisional-radiative Calculations of Optically Thin and Thick Plasmas Using the Computational Package ABAKO/RAPCAL. Communications in Computational Physics, 2010, 8, 185-210.	1.7	24
39	Modeling of population kinetics of plasmas that are not in local thermodynamic equilibrium, using a versatile collisional-radiative model based on analytical rates. Physical Review E, 2009, 80, 056402.	2.1	56
40	Influence of the atomic description and configuration interaction effects on collisional-radiative calculations of low ionized carbon plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 2191-2207.	2.3	3
41	ABAKO: A new code for population kinetics and radiative properties of plasmas under NLTE conditions. Journal of Physics: Conference Series, 2008, 112, 042008.	0.4	6
42	ABAKOâ^•RAPCAL: A Flexible Computational Package to Perform Radiative Properties Calculations and Diagnostics in a Wide Range of Plasma Conditions. , 2008, , .		O
43	Spectrally Resolved Intensities of Ultra-Dense Hot Aluminum Plasmas. , 2008, , .		1
44	Multifrequential and mean opacity calculation of carbon plasmas in a wide range of density and temperature. Journal of Physics: Conference Series, 2008, 112, 042007.	0.4	1
45	Analytical opacity formulas for low Z plasmas. Journal of Physics: Conference Series, 2008, 112, 042006.	0.4	2
46	Detailed-level-accounting approach calculation of radiative properties of aluminium plasmas in a wide range of density and temperature. Journal of Physics: Conference Series, 2008, 112, 042002.	0.4	2
47	Relativistic quantum mechanic calculation of photoionization cross-section of hydrogenic and non-hydrogenic states using analytical potentials. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 91, 393-413.	2.3	6
48	Opacities and line transfer in high density plasma. Laser and Particle Beams, 2005, 23, 199-203.	1.0	3
49	Calculation of the radiative opacity of laser-produced plasmas using a relativistic-screened hydrogenic model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 83, 159-182.	2.3	16
50	A comparison of two atomic models for the radiative properties of dense hot low Z plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 81, 301-309.	2.3	5
51	Low Z opacities at high densities. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 81, 441-450.	2.3	9
52	Recent theoretical and experimental results on inertial fusion energy physics. , 2003, , .		0
53	Analytical opacity formulas for ICF elements. Fusion Engineering and Design, 2002, 60, 17-25.	1.9	12
54	An effective analytical potential including plasma effects. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 75, 539-557.	2.3	26

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55	Development of an analytical potential to include excited configurations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 75, 723-739.	2.3	10
56	A screened hydrogenic model using analytical potentials. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 72, 575-588.	2.3	16
57	<title>Analytical potential for excited configurations</title> ., 2001,,.		O
58	<title>Analytical atomic hydrogenic model for calculation of plasma optical properties</title> ., 2001,		0
59	Calculation of the ionization state for LTE plasmas using analytical potentials. Laser and Particle Beams, 1999, 17, 635-647.	1.0	2
60	ANALYTICAL EXPRESSIONS FOR THE n-ORDER MOMENTA OF CHARGE DISTRIBUTION FOR IONS. Journal of Quantitative Spectroscopy and Radiative Transfer, 1998, 60, 623-633.	2.3	15
61	Opacity calculations of plasmas by using parametric potentials. Laser and Particle Beams, 1996, 14, 631-635.	1.0	2
62	A parametric potential for ions from helium to iron isoelectronic sequences. Journal of Quantitative Spectroscopy and Radiative Transfer, 1995, 54, 621-636.	2.3	28