

Cristobal Colon Hernandez

List of Publications by Year in descending order

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papers

609
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687363

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56
docs citations

56
times ranked

430
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical lifetimes and Stark broadening parameters for visible-infrared spectral lines of Vâ€‰iv in Arcturus. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4538-4554.	4.4	1
2	Theoretical Stark Broadening Parameters for UVâ€‰Blue Spectral Lines of Neutral Vanadium in the Solar and Metal-Poor Star HD 84937 Spectra. Atoms, 2020, 8, 64.	1.6	7
3	Analysis of the core polarization effects in the calculated atomic parameters of Hg iii. Monthly Notices of the Royal Astronomical Society, 2020, 493, 288-298.	4.4	0
4	Experimental Determination of Electronic Density and Temperature in Water-Confined Plasmas Generated by Laser Shock Processing. Metals, 2019, 9, 808.	2.3	5
5	Theoretical Study of Transition Probabilities and Stark Broadening Parameters and of Several Spectral Lines with Astrophysical Interest of Double-ionized Thallium. Astrophysical Journal, 2019, 870, 131.	4.5	2
6	Characterization and photoluminescence properties of AgLn(MoO4)(WO4): Novel silver based scheelite-type compounds. Journal of Luminescence, 2019, 210, 255-260.	3.1	7
7	Stark broadening parameters and transition probabilities of persistent lines of Tl II. Monthly Notices of the Royal Astronomical Society, 2018, 476, 793-803.	4.4	5
8	Luminescence properties of AgTb(WO4)2 doped with Ce3+ : Experimental determination of the Stern-Volmer quenching constant. Ceramics International, 2017, 43, 6163-6167.	4.8	4
9	Stark broadening of several Biâ€‰iv spectral lines of astrophysical interest. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2179-2189.	4.4	5
10	Synthesis and characterization of a Ce3+ trivalent scheelite-type double tungstate by solid state method. Journal of Alloys and Compounds, 2017, 694, 345-353.	5.5	11
11	Theoretical study of the Stark broadening for Mgâ€‰iv spectral lines of astrophysical interest. Monthly Notices of the Royal Astronomical Society, 2016, 462, 4220-4226.	4.4	1
12	Stark widths and shifts for spectral lines of Snâ€‰iv. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1145-1155.	4.4	9
13	Measurement of plasma electron density generated in an experiment of Laser Shock Processing, utilizing the HÎ±-line. Journal of Materials Processing Technology, 2016, 232, 9-18.	6.3	12
14	Transition probabilities and radiative lifetimes of Mg III. Atomic Data and Nuclear Data Tables, 2015, 102, 64-78.	2.4	3
15	Theoretical Stark widths and shifts of spectral lines of 2p5nf and 2p55g configurations of Mg III. Physica Scripta, 2014, 89, 115401.	2.5	5
16	Stark broadening of Caâ€‰iv spectral lines of astrophysical interest. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1567-1574.	4.4	9
17	Theoretical oscillator strengths, transition probabilities, and radiative lifetimes of levels in Pb V. Atomic Data and Nuclear Data Tables, 2014, 100, 272-285.	2.4	2
18	Ab initio calculations of Caâ€‰iii Stark broadening parameters, transition probabilities and radiative lifetimes. Monthly Notices of the Royal Astronomical Society, 2013, 431, 2703-2715.	4.4	7

#	ARTICLE	IF	CITATIONS
19	Theoretical Stark broadening parameters for spectral lines arising from the 2p5ns, 2p5np and 2p5nd electronic configurations of Mg ⁱⁱⁱ . Monthly Notices of the Royal Astronomical Society, 2013, 435, 1749-1757.	4.4	9
20	Physical characterization of laser interaction and shock generation in laser shock processing: Coupled theoretical-experimental analysis. , 2012, , .		2
21	FT-Raman and FT-IR vibrational spectroscopic studies of Sr ₂ RE ₂ SbO ₆ (RE=La to Lu and Y) double perovskites. Journal of Alloys and Compounds, 2012, 538, 34-39.	5.5	8
22	Theoretical Stark broadening parameters of Pb ^v spectral lines. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1312-1321.	4.4	5
23	Stark broadening of Sn ⁱⁱⁱ spectral lines of astrophysical interest: predictions and regularities. Monthly Notices of the Royal Astronomical Society, 2011, 414, 713-726.	4.4	9
24	Theoretical transition probabilities, oscillator strengths, and radiative lifetimes of levels in Pb IV. Atomic Data and Nuclear Data Tables, 2011, 97, 36-49.	2.4	10
25	Stark broadening of Pb ^{iv} spectral lines of astrophysical interest. Monthly Notices of the Royal Astronomical Society, 2010, 401, 1080-1090.	4.4	12
26	Calculation of oscillator strengths, transition probabilities and radiative lifetimes of levels in Sn III. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 165001.	1.5	6
27	Persistent UV phosphors for application in photo catalysis. Journal of Alloys and Compounds, 2010, 501, 193-197.	5.5	27
28	Core-polarization effects, oscillator strengths and radiative lifetimes of levels in Pb ⁱⁱⁱ . Monthly Notices of the Royal Astronomical Society, 2009, 395, 567-579.	4.4	14
29	Synthesis and characterization of LnAg(WO ₄)(MoO ₄). Journal of Alloys and Compounds, 2008, 451, 317-319.	5.5	6
30	Measured Stark Widths of Several Sn ⁱ and Sn ⁱⁱ Spectral Lines in a Laser-Induced Plasma. Astrophysical Journal, 2008, 672, 1286-1291.	4.5	21
31	Theoretical Study of Several Oscillator Strengths and Lifetimes of Germanium, Thallium and Bismuth. Measures of Some Relative Transition Probabilities. , 2008, , .		1
32	Level Energies, Oscillator Strengths and Lifetimes for Transitions in Pb IV. , 2008, , .		0
33	Stark widths of several Pb ⁱⁱⁱ spectral lines in a laser-induced lead plasma. Astronomy and Astrophysics, 2007, 466, 399-402.	5.1	14
34	Application of a laser produced plasma: Experimental Stark widths of single ionized lead lines. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 856-863.	2.9	33
35	Stark width and shift parameter predictions and regularities of Sn II. Physica Scripta, 2006, 73, 410-419.	2.5	8
36	Theoretical Transition Probabilities of some Lines of 5s ² (1S)n _l and 5s5p ² Levels of Sn II. Physica Scripta, 2005, 71, 154-158.	2.5	15

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37	Correlation between Polymorphism and Optical Bandwidths in AgNd(WO ₄) ₂ . Chemistry of Materials, 2005, 17, 6635-6643.	6.7	18
38	Lifetimes and oscillator strengths for the 5s5p6s, 5s5p5d and 5p ³ levels in single-ionized tin. Astronomy and Astrophysics, 2004, 422, 1109-1111.	5.1	7
39	Paramagnetic susceptibility simulations from crystal field effects on Nd ³⁺ in AgNd(WO ₄) ₂ . Journal of Chemical Physics, 2003, 119, 13007-13011.	3.0	5
40	Comment on Stark broadening parameters predictions and regularities of singly ionized lead. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2139-2140.	1.5	2
41	Transitions from Autoionized Single-Ionized Tin States: A Theoretical Study of the 5s5p(3P ₀)n _l (n _l = 5d, 5p) → 5s5p(3P ₁)n _l (n _l = 5d, 5p) Transitions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 4513-4521.	4.5	13
42	Interpretation of the spectrum of Pb(II). Theoretical transition probabilities and lifetimes. Canadian Journal of Physics, 2001, 79, 999-1009.	1.1	6
43	Experimentally determined transition probabilities for lines of Pb I and the 2203.5 Å... line of Pb II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 68, 351-362.	2.3	26
44	Interpretation of the spectrum of Pb(II). Theoretical transition probabilities and lifetimes. Canadian Journal of Physics, 2001, 79, 999-1009.	1.1	3
45	Determination of Theoretical Transition Probabilities for the Pb III Spectrum. Physica Scripta, 2000, 62, 132-136.	2.5	6
46	Interpretation of the Spectrum of Sn II: Experimental and Theoretical Transition Probabilities. Physica Scripta, 2000, 61, 646-651.	2.5	23
47	Spectroscopic study of a laser-produced lead plasma: experimental atomic transition probabilities for Pb III lines. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 3887-3897.	1.5	39
48	The Y ₂ BaCuO ₅ oxide as green pigment in ceramics. Journal of Alloys and Compounds, 1998, 275-277, 750-753.	5.5	18
49	Study of CN emission from a laser induced plasma of graphite in air. Spectrochimica Acta Part A: Molecular Spectroscopy, 1993, 49, 509-516.	0.1	10
50	Measurement of the Stark broadening and shift parameters for several ultraviolet lines of singly ionized aluminum. Journal of Applied Physics, 1993, 73, 4752-4758.	2.5	129
51	Study of the B(O ⁺) → X(1 ¹ Σ ⁺ g) system of Au ₂ and of the A(1 ¹ Σ ⁺ u) → X(1 ¹ Σ ⁺ g) system of Ag ₂ . Spectrochimica Acta Part A: Molecular Spectroscopy, 1992, 48, 639-646.	0.1	0
52	Quenching cross sections of the B ³ Σ ⁺ (O ⁺) v=14 level of I ₂ by H ₂ , CO, and CH ₄ . Journal of Molecular Spectroscopy, 1985, 112, 357-362.	1.2	3
53	Theoretical study of the Stark width and shift parameters of Pb ⁱⁱⁱ lines: predictions and regularities. Monthly Notices of the Royal Astronomical Society, 0, 385, 261-268.	4.4	5