Aurelia Alonso Medina

List of Publications by Year
in descending order

53 papers	576 citations	623734 14 h-index	713466 21 g-index
55 all docs	55 docs citations	55 times ranked	367 citing authors

#	Article	IF	Citations
1	Experimental determination of the Stark widths of Pb I spectral lines in a laser-induced plasma. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 598-602.	2.9	40
2	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
3	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
4	Transition probabilities of 30 Pb II lines of the spectrum obtained by emission of a laser-produced plasma. Physica Scripta, 1997, 55, 49-53.	2.5	28
5	Persistent UV phosphors for application in photo catalysis. Journal of Alloys and Compounds, 2010, 501, 193-197.	5.5	27
6	Experimentally determined transition probabilities for lines of Pb I and the 2203.5 Ã... line of Pb II. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 68, 351-362.	2.3	26
7	Interpretation of the Spectrum of Sn II: Experimental and Theoretical Transition Probabilities. Physica Scripta, 2000, 61, 646-651.	2.5	23
8	A spectroscopic study of laser-induced tinâ€“lead plasma: Transition probabilities for spectral lines of Sn I. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 158-166.	2.9	22
9	Measured Stark Widths of Several Sn<scp>i</scp>and Sn<scp>ii</scp>Spectral Lines in a Laserâ€induced Plasma. Astrophysical Journal, 2008, 672, 1286-1291.	4.5	21
10	GPS Monitoring in the N-W Part of the Volcanic Island of Tenerife, Canaries, Spain: Strategy and Results. Pure and Applied Geophysics, 2004, 161, 1359-1377.	1.9	20
11	Correlation between Polymorphism and Optical Bandwidths in AgNd(WO4)2. Chemistry of Materials, 2005, 17, 6635-6643.	6.7	18
12	Transition probabilities for several u.v. lines of Pb II. Journal of Quantitative Spectroscopy and Radiative Transfer, 1996, 55, 151-154.	2.3	17
13	Theoretical Transition Probabilities of some Lines of 5s2(1S)nland 5s5p2Levels of Sn II. Physica Scripta, 2005, 71, 154-158.	2.5	15
14	Stark widths of several PbÂIII spectral lines in a laser-induced lead plasma. Astronomy and Astrophysics, 2007, 466, 399-402.	5.1	14
15	Core-polarization effects, oscillator strengths and radiative lifetimes of levels in Pbâ€ƒiii. Monthly Notices of the Royal Astronomical Society, 2009, 395, 567-579.	4.4	14
16	Measurement of Laser-Induced Plasma: Stark Broadening Parameters of Pb(II) 2203.5 and 4386.5 Ã... Spectral Lines. Applied Spectroscopy, 2019, 73, 133-151.	2.2	14
17	Transitions from Autoionized Singleâ€ionized Tin States: A Theoretical Study of the 5s5p(3Po)nl(nl= 5d,) Tj ETQq1 1 0.784314 rgBT /Ov	4.5	13
18	Stark broadening of PbÃ¢Â€Âƒiv spectral lines of astrophysical interest. Monthly Notices of the Royal Astronomical Society, 2010, 401, 1080-1090.	4.4	12

#	Article	IF	Citations
19	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
20	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
21	Measured Stark widths of several spectral lines of Pb III. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 439-443.	2.9	10
22	Stark broadening of Snâ€ƒiii spectral lines of astrophysical interest: predictions and regularities. Monthly Notices of the Royal Astronomical Society, 2011, 414, 713-726.	4.4	9
23	Theoretical Stark broadening parameters for spectral lines arising from the 2p5ns, 2p5np and 2p5nd electronic configurations of Mgâ€‰iii. Monthly Notices of the Royal Astronomical Society, 2013, 435, 1749-1757.	4.4	9
24	Stark broadening of Caâ€‰iv spectral lines of astrophysical interest. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1567-1574.	4.4	9
25	Stark widths and shifts for spectral lines of Snâ€‰iv. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1145-1155.	4.4	9
26	Stark width and shift parameter predictions and regularities of Sn II. Physica Scripta, 2006, 73, 410-419.	2.5	8
27	Experimental transition probabilities for several spectral lines arising from the 5d10 6s{8s, 7p, 5f, 5g} electronic configurations of Pb III. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2043-2051.	2.3	8
28	Ab initio calculations of CaÂiii Stark broadening parameters, transition probabilities and radiative lifetimes. Monthly Notices of the Royal Astronomical Society, 2013, 431, 2703-2715.	4.4	7
29	Lifetimes and oscillator strengths for the 5s5p6s, 5s5p5d and 5p$mathsf{^3}$ levels in single-ionized tin. Astronomy and Astrophysics, 2004, 422, 1109-1111.	5.1	7
30	Transition probabilities for several infrared lines of Tl I and Ar I. Journal of Quantitative Spectroscopy and Radiative Transfer, 1996, 56, 557-562.	2.3	6
31	Determination of Theoretical Transition Probabilities for the Pb III Spectrum. Physica Scripta, 2000, 62, 132-136.	2.5	6
32	Interpretation of the spectrum of Pb(II). Theoretical transition probabilities and lifetimes. Canadian Journal of Physics, 2001, 79, 999-1009.	1.1	6
33	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
34	Calculation of the stark widths and shifts for several lines of the thallium atom. Physica Scripta, 1996, 54, 332-334.	2.5	5
35	Paramagnetic susceptibility simulations from crystal field effects on Nd3+ in AgNd(WO4)2. Journal of Chemical Physics, 2003, 119, 13007-13011.	3.0	5
36	Theoretical study of the Stark width and shift parameters of Pbâ€ƒiii lines: predictions and regularities. Monthly Notices of the Royal Astronomical Society, 0, 385, 261-268.	4.4	5

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37	Theoretical Stark broadening parameters of Pbâ€‰<scp>v</scp>spectral lines. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1312-1321.	4.4	5
38	Theoretical Stark widths and shifts of spectral lines of 2p5nf and 2p55g configurations of Mg III. Physica Scripta, 2014, 89, 115401.	2.5	5
39	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
40	Experimental Determination of Electronic Density and Temperature in Water-Confined Plasmas Generated by Laser Shock Processing. Metals, 2019, 9, 808.	2.3	5
41	Spectroscopic estimation of plasma parameters, in the 100â€“400â€‰ns stage, of a laser-induced plasma in vacuum. Spectroscopy Letters, 2019, 52, 219-236.	1.0	4
42	A spectroscopic study of the plasma generated in a thallium arc. Transition probabilities for several lines of Tl I. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 1377-1384.	1.5	3
43	Transition probabilities and radiative lifetimes of Mg III. Atomic Data and Nuclear Data Tables, 2015, 102, 64-78.	2.4	3
44	Comment on ÂStark broadening parameters predictions and regularities of singly ionized leadÂ. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2139-2140.	1.5	2
45	Reply to Comment on ÂStark broadening parameters predictions and regularities of singly ionized leadÂ. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2141-2143.	1.5	2
46	Physical characterization of laser interaction and shock generation in laser shock processing: Coupled theoretical-experimental analysis. , 2012, , .		2
47	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
48	Theoretical Study of Several Oscillator Strengths and Lifetimes of Germanium, Thallium and Bismuth. Measures of Some Relative Transition Probabilities. , 2008, , .		1
49	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
50	Core polarization effects: Oscillator strengths, transition probabilities and radiative lifetimes of levels in Bi IV. Atomic Data and Nuclear Data Tables, 2019, 125, 313-322.	2.4	1
51	Theoretical transition probabilities, radiative lifetimes and Stark broadening parameters of singly ionized magnesium. Monthly Notices of the Royal Astronomical Society, 2019, 490, 1734-1737.	4.4	1
52	Study of the B(O+u)â†'X(1Î£+g) system of Au2 and of the A(1Î£+u)â†'X(1Ïƒ+g) system of Ag2. Spectrochimica Acta Part A: Molecular Spectroscopy, 1992, 48, 639-646.	0.1	0
53	Level Energies, Oscillator Strengths and Lifetimes for Transitions in Pb IV. , 2008, , .		0