

# Aurelia Alonso Medina

## List of Publications by Year in descending order

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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	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
2	Experimental Determination of Electronic Density and Temperature in Water-Confined Plasmas Generated by Laser Shock Processing. Metals, 2019, 9, 808.	2.3	5
3	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
4	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
5	Measurement of Laser-Induced Plasma: Stark Broadening Parameters of Pb(II) 2203.5 and 4386.5 Å... Spectral Lines. Applied Spectroscopy, 2019, 73, 133-151.	2.2	14
6	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
7	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
8	Stark widths and shifts for spectral lines of Snâ€“iv. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1145-1155.	4.4	9
9	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
10	Transition probabilities and radiative lifetimes of Mg III. Atomic Data and Nuclear Data Tables, 2015, 102, 64-78.	2.4	3
11	Theoretical Stark widths and shifts of spectral lines of 2p5nf and 2p55g configurations of Mg III. Physica Scripta, 2014, 89, 115401.	2.5	5
12	Stark broadening of Caâ€“iv spectral lines of astrophysical interest. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1567-1574.	4.4	9
13	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
14	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
15	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
16	Physical characterization of laser interaction and shock generation in laser shock processing: Coupled theoretical-experimental analysis. , 2012, , .		2
17	Theoretical Stark broadening parameters of Pbâ€“v spectral lines. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1312-1321.	4.4	5
18	Stark broadening of Snâ€“fiii spectral lines of astrophysical interest: predictions and regularities. Monthly Notices of the Royal Astronomical Society, 2011, 414, 713-726.	4.4	9

#	ARTICLE	IF	CITATIONS
19	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
20	Measured Stark widths of several spectral lines of Pb III. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 439-443.	2.9	10
21	A spectroscopic study of laser-induced tin-lead plasma: Transition probabilities for spectral lines of Sn I. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 158-166.	2.9	22
22	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
23	Stark broadening of Pb-IV spectral lines of astrophysical interest. Monthly Notices of the Royal Astronomical Society, 2010, 401, 1080-1090.	4.4	12
24	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
25	Persistent UV phosphors for application in photo catalysis. Journal of Alloys and Compounds, 2010, 501, 193-197.	5.5	27
26	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
27	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
28	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
29	Theoretical Study of Several Oscillator Strengths and Lifetimes of Germanium, Thallium and Bismuth. Measures of Some Relative Transition Probabilities. , 2008, , .		1
30	Level Energies, Oscillator Strengths and Lifetimes for Transitions in Pb IV. , 2008, , .		0
31	Stark widths of several Pb-III spectral lines in a laser-induced lead plasma. Astronomy and Astrophysics, 2007, 466, 399-402.	5.1	14
32	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
33	Stark width and shift parameter predictions and regularities of Sn II. Physica Scripta, 2006, 73, 410-419.	2.5	8
34	Theoretical Transition Probabilities of some Lines of 5s2(1S)nland 5s5p2Levels of Sn II. Physica Scripta, 2005, 71, 154-158.	2.5	15
35	Correlation between Polymorphism and Optical Bandwidths in AgNd(WO4)2. Chemistry of Materials, 2005, 17, 6635-6643.	6.7	18
36	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

#	ARTICLE	IF	CITATIONS
37	Lifetimes and oscillator strengths for the 5s5p6s, 5s5p5d and 5p <sup>3</sup> levels in single-ionized tin. <i>Astronomy and Astrophysics</i> , 2004, 422, 1109-1111.	5.1	7
38	Paramagnetic susceptibility simulations from crystal field effects on Nd <sup>3+</sup> in AgNd(WO <sub>4</sub> ) <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2003, 119, 13007-13011.	3.0	5
39	Comment on Stark broadening parameters predictions and regularities of singly ionized lead. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 2139-2140.	1.5	2
40	Reply to Comment on Stark broadening parameters predictions and regularities of singly ionized lead. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 2141-2143.	1.5	2
41	Transitions from Autoionized Single-Ionized Tin States: A Theoretical Study of the 5s5p(3P <sub>0</sub> )n(l=5d, 5f) ETQq1. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 2141-2143.	4.5	13
42	Interpretation of the spectrum of Pb(II). Theoretical transition probabilities and lifetimes. <i>Canadian Journal of Physics</i> , 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. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 68, 351-362.	2.3	26
44	Determination of Theoretical Transition Probabilities for the Pb III Spectrum. <i>Physica Scripta</i> , 2000, 62, 132-136.	2.5	6
45	Interpretation of the Spectrum of Sn II: Experimental and Theoretical Transition Probabilities. <i>Physica Scripta</i> , 2000, 61, 646-651.	2.5	23
46	Spectroscopic study of a laser-produced lead plasma: experimental atomic transition probabilities for Pb III lines. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 3887-3897.	1.5	39
47	Transition probabilities of 30 Pb II lines of the spectrum obtained by emission of a laser-produced plasma. <i>Physica Scripta</i> , 1997, 55, 49-53.	2.5	28
48	A spectroscopic study of the plasma generated in a thallium arc. Transition probabilities for several lines of Tl I. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 1377-1384.	1.5	3
49	Transition probabilities for several u.v. lines of Pb II. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1996, 55, 151-154.	2.3	17
50	Transition probabilities for several infrared lines of Tl I and Ar I. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1996, 56, 557-562.	2.3	6
51	Calculation of the Stark widths and shifts for several lines of the thallium atom. <i>Physica Scripta</i> , 1996, 54, 332-334.	2.5	5
52	Study of the B(O+u)â†'X(1 <sup>1</sup> g) system of Au <sub>2</sub> and of the A(1 <sup>1</sup> g+u)â†'X(1 <sup>1</sup> f+g) system of Ag <sub>2</sub> . <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1992, 48, 639-646.	0.1	0
53	Theoretical study of the Stark width and shift parameters of Pbâ†'fiii lines: predictions and regularities. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 385, 261-268.	4.4	5