

# Jose Jimenez-Mier

## List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Direct Evidence from Gas-Phase Atomic Spectra for an Unscreened Intra-Atomic Origin of Outer-Core Multiplet Splittings in Solid Manganese Compounds. <i>Physical Review Letters</i> , 1988, 61, 2592-2595.	2.9	96
2	Optical, Electronic, and Magnetic Engineering of $\text{ABX}_3$ Layered Halide Perovskites. <i>Chemistry of Materials</i> , 2018, 30, 5315-5321.	3.2	69
3	Energy dependence of the outer core-level multiplet structures in atomic Mn and Mn-containing compounds. <i>Physical Review B</i> , 1993, 48, 12425-12437.	1.1	64
4	Dynamical behavior of x-ray absorption and scattering at the L edge of titanium compounds: Experiment and theory. <i>Physical Review B</i> , 1999, 59, 2649-2658.	1.1	56
5	Direct probe of Mott-Hubbard to charge-transfer insulator transition and electronic structure evolution in transition-metal systems. <i>Physical Review B</i> , 2011, 83, .	1.1	53
6	Evidence for atomic features in the decay of resonantly excited molecular oxygen. <i>Chemical Physics Letters</i> , 1993, 213, 315-320.	1.2	46
7	Angular Distribution of Fluorescence from Photoionization-Produced $\text{He}^+(n=2)$ . <i>Physical Review Letters</i> , 1986, 57, 2260-2263.	2.9	40
8	Photoexcited K Auger spectra of atomic and molecular oxygen. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1994, 67, 243-259.	0.8	40
9	Layered-structural monoclinic to orthorhombic perovskite $\text{La}_2\text{Ti}_2\text{O}_7$ to orthorhombic $\text{LaTiO}_3$ phase transition and their microstructure characterization. <i>Materials Characterization</i> , 2014, 89, 13-22.	1.9	40
10	Partial and total cross sections and multiplet structure in the photoionization of atomic manganese. <i>Physical Review A</i> , 1989, 40, 3712-3720.	1.0	35
11	Autoionizing resonances in cadmium. <i>Physical Review A</i> , 1989, 39, 95-102.	1.0	28
12	Structural and morphology comparison between $\text{m-LaVO}_4$ and $\text{LaVO}_3$ compounds prepared by sol-gel acrylamide polymerization and solid state reaction. <i>Journal of Alloys and Compounds</i> , 2009, 479, 511-519.	2.8	26
13	Contribution of the instrument window function to the profile of autoionizing resonances. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1994, 51, 741-749.	1.1	21
14	Atomic multiplets at the $L_{2,3}$ edge of 3d transition metals and the ligand K edge in x-ray absorption spectroscopy of ionic systems. <i>Physical Review B</i> , 2013, 87, .	1.1	19
15	Photoionization of atomic oxygen at the multiplet term level from 20 to 212 eV. <i>Physical Review A</i> , 1995, 52, 4656-4664.	1.0	17
16	Synthesis and structural characterization of $\text{YVO}_3$ prepared by sol-gel acrylamide polymerization and solid state reaction methods. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 46, 1-10.	1.1	17
17	Investigations on the photoionization of the core levels of nitrous oxide. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1988, 47, 257-269.	0.8	16
18	High-resolution photoelectron spectrometric analysis of the decay of the 4p excitations in atomic strontium. <i>Physical Review A</i> , 1993, 48, 442-451.	1.0	14

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19	Observation of the $5p^3/2 \rightarrow 6p^3/2$ electric-dipole-forbidden transition in atomic rubidium using optical-optical double-resonance spectroscopy. <i>Physical Review A</i> , 2015, 92, .	1.0	14
20	Novel sol-gel methodology to produce $\text{LaCoO}_3$ by acrylamide polymerization assisted by $\gamma$ -irradiation. <i>Radiation Physics and Chemistry</i> , 2012, 81, 512-518.	1.4	13
21	Angular distributions of the atomic scandium $3d$ and $4s$ photoelectrons in the region of the $3p \rightarrow 3d$ giant resonance. <i>Physical Review A</i> , 2002, 66, .	1.0	12
22	Decay channels for the $\text{Ti}(2p_{1/2})$ core hole excitations in $\text{TiO}_2$ observed by x-ray Raman scattering. <i>Physical Review B</i> , 2002, 65, .	1.1	11
23	Polarized velocity selective spectroscopy of atomic rubidium using counterpropagating beams. <i>Optics Communications</i> , 2009, 282, 887-891.	1.0	11
24	Evidence for the spin-orbit-induced $p_4(D_{21})$ and $F_{22}$ resonances in atomic Br and Cl. <i>Physical Review A</i> , 1996, 54, R2537-R2539.	1.0	10
25	Study of buried interfaces by soft x-ray fluorescence spectroscopy excited by synchrotron radiation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996, 14, 859-866.	0.9	10
26	Chemical effects in the manganese $3s \rightarrow 2p$ x-ray emission that follows resonant and nonresonant photon production of a $2p$ hole. <i>Physical Review B</i> , 2004, 70, .	1.1	10
27	Ultrahigh-resolution frequency measurements in the $^3K_{2B} \rightarrow ^1u-X^1g^+$ (6-0) band. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1985, 2, 411.	0.9	9
28	High-resolution photoelectron spectrometry of autoionizing resonances between the $3P$ and $1D$ thresholds in atomic chlorine. <i>Physical Review A</i> , 1997, 56, 3659-3665.	1.0	9
29	Auger decay of the $1s \rightarrow np$ ( $n=2-6$ ) resonances in beryllium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 4301-4307.	0.6	9
30	Alignment of photoionization-produced $\text{He}^+(2p)$ between the $n=2$ and $3$ levels. <i>Physical Review A</i> , 1991, 44, 5615-5623.	1.0	8
31	Photoionization of gallium at $3d-4p$ and $4s-np$ ( $n=5,6$ ) resonances. <i>Physical Review A</i> , 1988, 37, 2408-2414.	1.0	7
32	Magnetic moments of atomic nitrogen in the $S_4$ and $D_2$ levels of its ground-state configuration. <i>Physical Review A</i> , 1989, 39, 58-63.	1.0	7
33	Beryllium doubly excited autoionizing resonances between the $2p$ and $3p$ thresholds. <i>Physical Review A</i> , 2007, 76, .	1.0	7
34	Excited states in yttrium orthovanadate $\text{YVO}_4$ measured by soft X-ray absorption spectroscopy. <i>Journal of Materials Science</i> , 2013, 48, 6437-6444.	1.7	7
35	Probe-intensity dependence of velocity-selective polarization spectra at the rubidium $D_2$ manifold and comparison with a rate-equation calculation. <i>Physical Review A</i> , 2014, 89, .	1.0	7
36	An approximation to the plasma dispersion function. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 70, 273-284.	1.1	6

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37	Direct evidence for $3p \rightarrow 2p$ non-dipole x-ray emission in transition metals. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, L173-L180.	0.6	6
38	Microstructural Comparison of La-V-O Compounds Prepared by Sol-Gel Acrylamide Polymerization and Solid State Reaction.. Microscopy and Microanalysis, 2009, 15, 1044-1045.	0.2	6
39	Polarization effects in the interaction between multi-level atoms and two optical fields. Physica Scripta, 2015, 90, 068017.	1.2	6
40	Control of electronic magnetic state population via light polarization in the $5p \rightarrow 3d$ electric quadrupole transition in atomic rubidium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 025003.	0.6	6
41	Photoelectron spectra in cadmium: comparison with theory and $(e,2e)$ spectra. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 3945-3951.	0.6	5
42	High-resolution electron spectrometry of open-shell atoms. Journal of Electron Spectroscopy and Related Phenomena, 1996, 79, 241-246.	0.8	5
43	Correlation effects in the resonant and nonresonant manganese $3s \rightarrow 2p$ photon emission in MnF <sub>2</sub> . Physical Review A, 2003, 68, .	1.0	5
44	X-ray Raman scattering at the manganese edge of MnF <sub>2</sub> : Valence emission of Mn <sup>2+</sup> . Physical Review A, 2005, 72, .	1.0	5
45	Valence satellite photoionization of atomic scandium in the region of the $3p \rightarrow 3d$ giant resonance. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 3273-3287.	0.6	4
46	The influence of charge transfers effects in monazite-type LaVO <sub>4</sub> and perovskite-type LaVO <sub>3</sub> prepared by sol-gel acrylamide polymerization. Journal of Electron Spectroscopy and Related Phenomena, 2016, 211, 82-86.	0.8	4
47	Optical spectroscopy of the $5p \rightarrow 6p$ electric dipole-forbidden transition in atomic rubidium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 135001.	0.6	4
48	Electric-dipole forbidden transitions for probing atomic state preparation: the case of the Autler-Townes effect. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 095002.	0.6	4
49	Core polarization effects in the decay of $1s \rightarrow np$ ( $n = 2-6$ ) resonantly excited beryllium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, L693-L700.	0.6	3
50	Electronic structure of transition metal fluorides and oxides determined by resonant X-ray absorption and X-ray emission spectroscopies. Radiation Effects and Defects in Solids, 2007, 162, 613-620.	0.4	3
51	One step beyond the electric dipole approximation: An experiment to observe the $5p \rightarrow 6p$ forbidden transition in atomic rubidium. American Journal of Physics, 2018, 86, 7-13.	0.3	3
52	X-ray Raman scattering at the edge of manganese compounds: Characteristic behaviour of and. Radiation Physics and Chemistry, 2006, 75, 1666-1669.	1.4	2
53	X-ray absorption to determine the metal oxidation state of transition metal compounds. AIP Conference Proceedings, 2013, .	0.3	2
54	Strongly correlated transition metal compounds investigated by soft X-ray spectroscopies and multiplet calculations. Journal of Electron Spectroscopy and Related Phenomena, 2014, 196, 136-141.	0.8	2

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55	A laser spectroscopy system with combined absorption, polarization rotation and fluorescence detection to study two photon transitions in atomic rubidium. Journal of Applied Research and Technology, 2015, 13, 543-550.	0.6	2
56	Effect of correlation on 2p-row atomic g factors. Physical Review A, 1991, 43, 4026-4029.	1.0	1
57	Calculation of the dipole-allowed excitations of the $3p^4 4s^4$ and $3p^4 3d^4$ configurations in argon. Physical Review A, 1999, 59, 1690-1693.	1.0	1
58	Fast electron dynamics in vanadates measured by resonant inelastic x-ray scattering. Materials Letters, 2013, 107, 144-146.	1.3	1
59	X-ray absorption and resonant inelastic x-ray scattering (RIXS) show the presence of $Cr^{+}$ at the surface and in the bulk of $CrF_2$ . AIP Conference Proceedings, 2015, , .	0.3	1
60	Laser spectroscopy of the $5P_{3/2} \rightarrow 6P_j$ ( $j = 1/2$ and $3/2$ ) electric dipole forbidden transitions in atomic rubidium. AIP Conference Proceedings, 2018, , .	0.3	1
61	Saturation and optical pumping effects in the fluorescence that follows the excitation of the D2 transition in atomic rubidium. Optics Communications, 2022, 508, 127727.	1.0	1
62	Synthesis of Lithium Cobaltite ( $LiCoO_2$ ) Prepared by Solid State and Sol-gel Acryl Amide Polymerization Reaction.. Microscopy and Microanalysis, 2009, 15, 1312-1313.	0.2	0