LoÃ¯c Journel

List of Publications by Year
in descending order

53	1,130	361413	414414
papers	citations	20 h-index	32 g-index

53	53	53	777
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hard X-ray photoelectron spectroscopy on the GALAXIES beamline at the SOLEIL synchrotron. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 188-192.	1.7	94
2	Femtosecond nuclear motion ofHClprobed by resonant x-ray Raman scattering in the Cl1sregion. Physical Review A, 2006, 73, .	2.5	63
3	Selecting core-hole localization or delocalization in CS2 by photofragmentation dynamics. Nature Communications, 2015, 6, 6166.	12.8	59
4	Double-Core-Hole States in Neon: Lifetime, Post-Collision Interaction, and Spectral Assignment. Physical Review Letters, 2016, 117, 133001.	7.8	59
5	From double-slit interference to structural information in simple hydrocarbons. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15201-15206.	7.1	57
6	Atomic Auger Doppler effects upon emission of fast photoelectrons. Nature Communications, 2014, 5, 4069.	12.8	44
7	Direct Observation of Double-Core-Hole Shake-Up States in Photoemission. Physical Review Letters, 2015, 114, 093001.	7.8	41
8	Ultrafast Dynamics in Postcollision Interaction after Multiple Auger Decays in Argon<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mi>s</mml:mi></mml:math>Photoionization. Physical Review Letters, 2012, 109, 013001.	7.8	39
9	Postcollision interaction effects inKLLAuger spectra following argon1sphotoionization. Physical Review A, 2015, 92, .	2.5	37
10	Hard-X-Ray-Induced Multistep Ultrafast Dissociation. Physical Review Letters, 2016, 116, 213001.	7.8	36
11	Resonant double Auger decay in carbon<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="italic">K</mml:mi></mml:math>-shell excitation of CO. Physical Review A, 2008, 77, .	2.5	34
12	Resonant inelastic x-ray scattering at the limit of subfemtosecond natural lifetime. Journal of Chemical Physics, 2011, 134, 144308.	3.0	30
13	Two-to-one Auger decay of a double<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>L</mml:mi></mml:math>vacancy in argon. Physical Review A, 2016, 93, .	2.5	30
14	Core-hole-clock spectroscopies in the tender x-ray domain. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124031.	1.5	29
15	Hard x-ray spectroscopy and dynamics of isolated atoms and molecules: a review. Reports on Progress in Physics, 2020, 83, 016401.	20.1	28
16	Multipathway dissociation dynamics of core-excited methyl chloride probed by high resolution electron spectroscopy and Auger-electronâ€“ion coincidences. Journal of Chemical Physics, 2008, 128, 154314.	3.0	26
17	Subfemtosecond Control of Molecular Fragmentation by Hard X-Ray Photons. Physical Review Letters, 2017, 118, 213001.	7.8	25
18	Photon-energy dependence of single-photon simultaneous core ionization and core excitation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml Physical Review A, 2016, 94, .	2.5	22

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19	Complex decay patterns in atomic core photoionization disentangled by ion-recoil measurements. Physical Review A, 2011, 84, .	2.5	21
20	Electronic state-lifetime interference in resonant Auger spectra: a tool to disentangle overlapping core-excited states. Physical Chemistry Chemical Physics, 2016, 18, 15133-15142.	2.8	20
21	Cationic double K-hole pre-edge states of CS2 and SF6. Scientific Reports, 2017, 7, 13317.	3.3	19
22	Hard x-ray photoelectron spectroscopy on heavy atoms and heavy-element containing molecules using synchrotron radiation up to 35 keV at SPring-8 undulator beamlines. New Journal of Physics, 2019, 21, 043015.	2.9	19
23	Double momentum spectrometer for ion-electron vector correlations in dissociative photoionization. Review of Scientific Instruments, 2013, 84, 103104.	1.3	18
24	Auger resonant-Raman study at the ArKedge as probe of electronic-state-lifetime interferences. Physical Review A, 2015, 91, .	2.5	18
25	Potential Energy Surface Reconstruction and Lifetime Determination of Molecular Double-Core-Hole States in the Hard X-Ray Regime. Physical Review Letters, 2017, 119, 133001.	7.8	17
26	Energy Transfer into Molecular Vibrations and Rotations by Recoil in Inner-Shell Photoemission. Physical Review Letters, 2018, 121, 073002.	7.8	17
27	Recoil-induced ultrafast molecular rotation probed by dynamical rotational Doppler effect. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4877-4882.	7.1	16
28	Electron Dynamics in the Core-Excited<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Revealed through Resonant Inelastic X-Ray Scattering Spectroscopy. Physical Review X, 2015, 5, .	8.9	15
29	Experimental and theoretical study of the double-core-hole hypersatellite Auger spectrum of Ne. Physical Review A, 2017, 96, .	2.5	15
30	Ultrafast nuclear dynamics in the doubly-core-ionized water molecule observed via Auger spectroscopy. Physical Review A, 2018, 98, .	2.5	15
31	X-ray versus Auger emission following Xe 1s photoionization. Physical Review A, 2017, 95, .	2.5	14
32	KL double core hole pre-edge states of HCl. Physical Chemistry Chemical Physics, 2018, 20, 2724-2730.	2.8	14
33	Interplay of complex decay processes after argon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>s</mml:mi> ionization. Physical Review A, 2018, 97, .	2.5	13
34	Auger resonant-Raman decay after XeL-edge photoexcitation. Physical Review A, 2015, 92, .	2.5	12
35	Double-core-hole states in CH3CN: Pre-edge structures and chemical-shift contributions. Journal of Chemical Physics, 2018, 149, 134313.	3.0	12
36	Detailed analysis of shake structures in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="italic">KLL</mml:mi></mml:math>Auger spectrum of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi></mml:mrow></mml:math>. Physical Review A, 2016, 93, .	2.5	11

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37	Argon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>K</mml:mi><mml:mi>L</mml:mi><mml:mi>L</mml:mi><mml:mi> Auger spectrum: Initial states, core-hole lifetimes, shake, and knock-down processes. Physical Review A, 2020, 102, .	2.5	11
38	Electronic-stateâ€“lifetime interference in the hard-x-ray regime: Argon as a showcase. Physical Review A, 2017, 95, .	2.5	9
39	Single and multiple excitations in double-core-hole states of free water molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 224002.	1.5	7
40	UV-induced dissociation of CH₂BrI probed by intense femtosecond XUV pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 014001.	1.5	7
41	Detailed assignment of normal and resonant Auger spectra of Xe near the L edges. Physical Review A, 2017, 96, .	2.5	6
42	Si 1s^{â¯1}, 2s^{â¯1} and 2p^{â¯1} lifetime broadening of SiX₄ (X =) Tj ETQq0 0 0 rgBT /Ov Chemistry Chemical Physics, 2019, 21, 8827-8836.	2.8	6
43	Deep-core photoionization of krypton atoms below and above the 1s ionization threshold. Physical Review A, 2020, 101, .	2.5	6
44	Unified treatment of recoil and Doppler broadening in molecular high-energy photoemission. New Journal of Physics, 2021, 23, 063077.	2.9	6
45	Ultrafast dissociation of ammonia: Auger Doppler effect and redistribution of the internal energy. Physical Chemistry Chemical Physics, 2022, 24, 5842-5854.	2.8	6
46	Electron spectroscopy and dynamics of HBr around the Br 1s^{â¯1} threshold. Physical Chemistry Chemical Physics, 2020, 22, 26806-26818.	2.8	5
47	Nonstatistical behavior of the photoionization of spinâ€“orbit doublets. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 085001.	1.5	4
48	The O K^{â¯2}V spectrum of CO: the influence of the second core-hole. Physical Chemistry Chemical Physics, 2021, 23, 10780-10790.	2.8	4
49	Electron delocalisation in conjugated sulfur heterocycles probed by resonant Auger spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 8477-8487.	2.8	4
50	Simulation of Auger decay dynamics in the hard X-ray regime: HCl as a showcase. Physical Chemistry Chemical Physics, 2022, 24, 6590-6604.	2.8	4
51	Experimental setup for the study of resonant inelastic X-ray scattering of organometallic complexes in gas phase. Review of Scientific Instruments, 2018, 89, 063107.	1.3	3
52	Argon 1s ^{â¯2} Auger hypersatellites. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 54, 024001.	1.5	3
53	Multi-slit-type interference in carbon 2s photoionization of polyatomic molecules: from a fundamental effect to structural parameters. Physical Chemistry Chemical Physics, 2019, 21, 13600-13610.	2.8	0