

Luca Chiari

List of Publications by Year in descending order

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77
papers

1,594
citations

279798

23
h-index

330143

37
g-index

77
all docs

77
docs citations

77
times ranked

869
citing authors

#	ARTICLE	IF	CITATIONS
19	Triply differential (e,2e) studies of phenol. <i>Journal of Chemical Physics</i> , 2014, 141, 124307.	3.0	30
20	Positron scattering from formic acid. <i>Physical Review A</i> , 2008, 78, .	2.5	28
21	Positron scattering from pyrimidine. <i>Physical Review A</i> , 2013, 88, .	2.5	28
22	Adiabatic-nuclei calculations of positron scattering from molecular hydrogen. <i>Physical Review A</i> , 2017, 95, .	2.5	27
23	Total cross-sections for positron and electron scattering from $\hat{1}\pm$ -tetrahydrofurfuryl alcohol. <i>New Journal of Physics</i> , 2011, 13, 063019.	2.9	23
24	Low energy positron interactions with uracil—Total scattering, positronium formation, and differential elastic scattering cross sections. <i>Journal of Chemical Physics</i> , 2014, 141, 034306.	3.0	23
25	Differential cross sections for intermediate-energy electron scattering from $\hat{1}\pm$ -tetrahydrofurfuryl alcohol: Excitation of electronic-states. <i>Journal of Chemical Physics</i> , 2014, 141, 024301.	3.0	23
26	An experimental and theoretical investigation into positron and electron scattering from formaldehyde. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 195202.	1.5	22
27	Very low-energy total cross sections and the experimental scattering length for the positron—xenon system. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 085203.	1.5	22
28	Experimental and theoretical cross sections for positron collisions with 3-hydroxy-tetrahydrofuran. <i>Journal of Chemical Physics</i> , 2013, 138, 074302.	3.0	20
29	Motion modes of two self-propelled camphor boats on the surface of a surfactant-containing solution. <i>Journal of Colloid and Interface Science</i> , 2018, 511, 184-192.	9.4	20
30	Low-energy positron and electron scattering from nitrogen dioxide. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 235202.	1.5	19
31	Total cross section measurements for positron scattering from acetone. <i>PMC Physics B</i> , 2010, 3, .	0.9	18
32	Experimental and theoretical cross sections for positron scattering from the pentane isomers. <i>Journal of Chemical Physics</i> , 2016, 144, 084301.	3.0	18
33	Positron scattering from chiral enantiomers. <i>Physical Review A</i> , 2012, 85, .	2.5	17
34	Cross sections for electron scattering from $\hat{1}\pm$ -tetrahydrofurfuryl alcohol. <i>Chemical Physics Letters</i> , 2014, 608, 161-166.	2.6	17
35	A high-quality and energy-tunable positronium beam system employing a trap-based positron beam. <i>Review of Scientific Instruments</i> , 2019, 90, 023305.	1.3	17
36	Positron scattering from the cyclic ethers oxirane, 1,4-dioxane, and tetrahydropyran. <i>Journal of Chemical Physics</i> , 2012, 136, 124305.	3.0	16

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37	Positron and electron collisions with nitrous oxide: Measured and calculated cross sections. <i>Physical Review A</i> , 2013, 88, .	2.5	16
38	Electronic States of Tetrahydrofurfuryl Alcohol (THFA) As Studied by VUV Spectroscopy and Ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6425-6434.	2.5	16
39	Dynamical (e,2e) studies of tetrahydropyran and 1,4-dioxane. <i>Journal of Chemical Physics</i> , 2014, 140, 214312.	3.0	15
40	Low-energy positron scattering from methanol and ethanol: Total cross sections. <i>Physical Review A</i> , 2008, 78, .	2.5	13
41	Positron collisions with ethene. <i>Physical Review A</i> , 2012, 86, .	2.5	13
42	Cross sections for positron scattering from ethane. <i>Physical Review A</i> , 2013, 87, .	2.5	13
43	Intermediate-energy differential and integral cross sections for vibrational excitation in $\hat{1}\pm$ -tetrahydrofurfuryl alcohol. <i>Journal of Chemical Physics</i> , 2014, 140, 214306.	3.0	13
44	Strain-rate dependence of hydrogen-induced defects in pure $\hat{1}\pm$ -iron by positron annihilation lifetime spectroscopy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 800, 140281.	5.6	13
45	Formation and time dynamics of hydrogen-induced vacancies in nickel. <i>Acta Materialia</i> , 2021, 219, 117264.	7.9	13
46	Low-Energy Positron Scattering from Dihydropyran. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14251-14254.	2.5	9
47	Cross sections for positron and electron collisions with an analog of the purine nucleobases: Indole. <i>Physical Review A</i> , 2015, 91, .	2.5	9
48	Straining-temperature dependence of vacancy behavior in hydrogen-charged austenitic stainless steel 316L. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 6960-6969.	7.1	9
49	Lower bounds to future sea-level rise. <i>Global and Planetary Change</i> , 2012, 98-99, 1-5.	3.5	8
50	Low-energy positron scattering from iodomethane. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 175202.	1.5	8
51	Cross Sections for Positron Impact with 2,2,4-Trimethylpentane. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6466-6472.	2.5	7
52	Experimental Investigation of the Self-Propelled Motion of a Sodium Oleate Tablet and Boat at an Oil-Water Interface. <i>Langmuir</i> , 2018, 34, 5487-5494.	3.5	7
53	Defects Responsible for Hydrogen Embrittlement in Austenitic Stainless Steel 304 by Positron Annihilation Lifetime Spectroscopy. <i>ISIJ International</i> , 2021, 61, 1927-1934.	1.4	7
54	Analysis of the Chemical State in Y-zeolite Pores by Positron Annihilation Lifetime Spectroscopy. <i>Analytical Sciences</i> , 2021, 37, 1117-1122.	1.6	7

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55	Recent Studies of Hydrogen-related Defects in Iron-based Materials. ISIJ International, 2022, 62, 832-839.	1.4	7
56	Assemblies of molecular aggregates in the blebbing motion of an oil droplet on an aqueous solution containing surfactant. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 529, 373-379.	4.7	6
57	Threshold Photodetachment Spectroscopy of the Positronium Negative Ion. Physical Review Letters, 2020, 125, 063001.	7.8	6
58	Motion-Induced Transition of Positronium through a Static Periodic Magnetic Field in the Sub-THz Region. Physical Review Letters, 2020, 124, 173202.	7.8	6
59	A positronium-based systematic study of the physico-chemical properties of zeolite pores. Radiation Physics and Chemistry, 2021, 184, 109441.	2.8	6
60	Positron scattering from vinyl acetate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 175202.	1.5	6
61	Comets and climate. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1766-1770.	1.6	5
62	Effects of Cholesterol Concentration and Osmolarity on the Fluidity and Membrane Tension of Free-standing Black Lipid Membranes. Analytical Sciences, 2018, 34, 1237-1242.	1.6	5
63	In-situ positron annihilation lifetime measurements of strained isoprene rubber filled with carbon black. Radiation Physics and Chemistry, 2022, 198, 110267.	2.8	5
64	Total Cross Sections for Positron Scattering from Bio-Molecules. Biological and Medical Physics Series, 2012, , 155-163.	0.4	4
65	Positron Annihilation. , 2019, , 1301-1345.		4
66	An energy-tunable positronium beam produced via photodetachment of positronium negative ions and its applications. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 212001.	1.5	3
67	Observational constraints of the past CO2 concentration on the results of carbon cycle models. Energy Policy, 2011, 39, 7467-7469.	8.8	2
68	Recent progress in electron scattering from atoms and molecules. , 2014, , .		2
69	Structures in positronium atom and molecule total cross sections. Molecular Physics, 2015, 113, 3615-3627.	1.7	2
70	Ion Desorption from TiO ₂ (110) by Low Energy Positron Impact. Defect and Diffusion Forum, 2017, 373, 324-327.	0.4	2
71	Development of an energy-tunable positronium beam apparatus using the photodetachment of the positronium negative ion. Journal of Physics: Conference Series, 2015, 635, 082003.	0.4	1
72	The need for nondestructive sampling. Physics Today, 2010, 63, 11-11.	0.3	0

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73	Paleoclimatic constraints on the CO ₂ atmospheric retention factor. <i>Biogeochemistry</i> , 2013, 112, 511-518.	3.5	0
74	Low-energy electron scattering from $\hat{1}\pm$ -tetrahydrofurfuryl alcohol. <i>Journal of Physics: Conference Series</i> , 2014, 488, 052003.	0.4	0
75	Dynamical (e,2e) investigations of structurally related cyclic ethers. <i>Journal of Physics: Conference Series</i> , 2014, 488, 052004.	0.4	0
76	Low-energy positron and electron scattering from tetrahydrofuran and 3-hydroxy-tetrahydrofuran. <i>Journal of Physics: Conference Series</i> , 2014, 488, 072007.	0.4	0
77	Development of a high-brightness, energy-tunable positronium beam for surface scattering experiments. , 0, , .		0