

Luca Chiari

List of Publications by Year in descending order

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77
papers

1,594
citations

279798

23
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330143

37
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77
all docs

77
docs citations

77
times ranked

869
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Studies of Hydrogen-related Defects in Iron-based Materials. ISIJ International, 2022, 62, 832-839.	1.4	7
2	In-situ positron annihilation lifetime measurements of strained isoprene rubber filled with carbon black. Radiation Physics and Chemistry, 2022, 198, 110267.	2.8	5
3	Straining-temperature dependence of vacancy behavior in hydrogen-charged austenitic stainless steel 316L. International Journal of Hydrogen Energy, 2021, 46, 6960-6969.	7.1	9
4	Strain-rate dependence of hydrogen-induced defects in pure $\hat{\pm}$ -iron by positron annihilation lifetime spectroscopy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140281.	5.6	13
5	Defects Responsible for Hydrogen Embrittlement in Austenitic Stainless Steel 304 by Positron Annihilation Lifetime Spectroscopy. ISIJ International, 2021, 61, 1927-1934.	1.4	7
6	A positronium-based systematic study of the physico-chemical properties of zeolite pores. Radiation Physics and Chemistry, 2021, 184, 109441.	2.8	6
7	Analysis of the Chemical State in Y-zeolite Pores by Positron Annihilation Lifetime Spectroscopy. Analytical Sciences, 2021, 37, 1117-1122.	1.6	7
8	Formation and time dynamics of hydrogen-induced vacancies in nickel. Acta Materialia, 2021, 219, 117264.	7.9	13
9	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
10	Threshold Photodetachment Spectroscopy of the Positronium Negative Ion. Physical Review Letters, 2020, 125, 063001.	7.8	6
11	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
12	A high-quality and energy-tunable positronium beam system employing a trap-based positron beam. Review of Scientific Instruments, 2019, 90, 023305.	1.3	17
13	Positron Annihilation. , 2019, , 1301-1345.		4
14	Experimental Investigation of the Self-Propelled Motion of a Sodium Oleate Tablet and Boat at an Oil-Water Interface. Langmuir, 2018, 34, 5487-5494.	3.5	7
15	Motion modes of two self-propelled camphor boats on the surface of a surfactant-containing solution. Journal of Colloid and Interface Science, 2018, 511, 184-192.	9.4	20
16	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
17	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
18	Adiabatic-nuclei calculations of positron scattering from molecular hydrogen. Physical Review A, 2017, 95, .	2.5	27

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19	Ion Desorption from TiO ₂ (110) by Low Energy Positron Impact. Defect and Diffusion Forum, 2017, 373, 324-327.	0.4	2
20	Experimental and theoretical cross sections for positron scattering from the pentane isomers. Journal of Chemical Physics, 2016, 144, 084301.	3.0	18
21	Scattering data for modelling positron tracks in gaseous and liquid water. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 145001.	1.5	47
22	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
23	Structures in positron-atom and molecule total cross sections. Molecular Physics, 2015, 113, 3615-3627.	1.7	2
24	Cross sections for positron and electron collisions with an analog of the purine nucleobases: Indole. Physical Review A, 2015, 91, .	2.5	9
25	Recent progress in electron scattering from atoms and molecules. , 2014, , .		2
26	Positron interactions with water- total elastic, total inelastic, and elastic differential cross section measurements. Journal of Chemical Physics, 2014, 140, 044320.	3.0	32
27	Low energy positron interactions with uracil- Total scattering, positronium formation, and differential elastic scattering cross sections. Journal of Chemical Physics, 2014, 141, 034306.	3.0	23
28	An experimental and theoretical investigation into the excited electronic states of phenol. Journal of Chemical Physics, 2014, 141, 074314.	3.0	34
29	Recent positron-atom cross section measurements and calculations. European Physical Journal D, 2014, 68, 1.	1.3	38
30	Differential cross sections for intermediate-energy electron scattering from $\hat{1}\pm$ -tetrahydrofurfuryl alcohol: Excitation of electronic-states. Journal of Chemical Physics, 2014, 141, 024301.	3.0	23
31	Electronic States of Tetrahydrofurfuryl Alcohol (THFA) As Studied by VUV Spectroscopy and Ab Initio Calculations. Journal of Physical Chemistry A, 2014, 118, 6425-6434.	2.5	16
32	Intermediate-energy differential and integral cross sections for vibrational excitation in $\hat{1}\pm$ -tetrahydrofurfuryl alcohol. Journal of Chemical Physics, 2014, 140, 214306.	3.0	13
33	Triply differential (e,2e) studies of phenol. Journal of Chemical Physics, 2014, 141, 124307.	3.0	30
34	Dynamical (e,2e) studies of tetrahydropyran and 1,4-dioxane. Journal of Chemical Physics, 2014, 140, 214312.	3.0	15
35	Cross Sections for Positron Impact with 2,2,4-Trimethylpentane. Journal of Physical Chemistry A, 2014, 118, 6466-6472.	2.5	7
36	Cross sections for electron scattering from $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si15.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{1}\pm \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -tetrahydrofurfuryl alcohol. Chemical Physics Letters, 2014, 608, 161-166.	2.6	17

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37	Low-energy electron scattering from $\hat{I}\pm$ -tetrahydrofurfuryl alcohol. Journal of Physics: Conference Series, 2014, 488, 052003.	0.4	0
38	Dynamical (e,2e) investigations of structurally related cyclic ethers. Journal of Physics: Conference Series, 2014, 488, 052004.	0.4	0
39	Low-energy positron and electron scattering from tetrahydrofuran and 3-hydroxy-tetrahydrofuran. Journal of Physics: Conference Series, 2014, 488, 072007.	0.4	0
40	Positron scattering from vinyl acetate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 175202.	1.5	6
41	A dynamical (e,2e) investigation of the structurally related cyclic ethers tetrahydrofuran, tetrahydropyran, and 1,4-dioxane. Journal of Chemical Physics, 2013, 139, 034306.	3.0	35
42	Low-energy positron scattering from iodomethane. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 175202.	1.5	8
43	Dynamical (e,2e) investigations of tetrahydrofuran and tetrahydrofurfuryl alcohol as DNA analogues. Chemical Physics Letters, 2013, 572, 32-37.	2.6	39
44	Total, elastic, and inelastic cross sections for positron and electron collisions with tetrahydrofuran. Journal of Chemical Physics, 2013, 138, 074301.	3.0	52
45	Paleoclimatic constraints on the CO ₂ atmospheric retention factor. Biogeochemistry, 2013, 112, 511-518.	3.5	0
46	Experimental and theoretical cross sections for positron collisions with 3-hydroxy-tetrahydrofuran. Journal of Chemical Physics, 2013, 138, 074302.	3.0	20
47	Low-energy positron and electron scattering from nitrogen dioxide. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 235202.	1.5	19
48	Positron scattering from pyrimidine. Physical Review A, 2013, 88, .	2.5	28
49	Positron and electron collisions with nitrous oxide: Measured and calculated cross sections. Physical Review A, 2013, 88, .	2.5	16
50	Cross sections for positron scattering from ethane. Physical Review A, 2013, 87, .	2.5	13
51	Positron scattering from argon: total cross sections and the scattering length. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 015203.	1.5	39
52	Positron scattering from O ₂ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 215206.	1.5	62
53	Positron scattering from the cyclic ethers oxirane, 1,4-dioxane, and tetrahydropyran. Journal of Chemical Physics, 2012, 136, 124305.	3.0	16
54	Positron scattering from chiral enantiomers. Physical Review A, 2012, 85, .	2.5	17

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55	Positron collisions with ethene. <i>Physical Review A</i> , 2012, 86, .	2.5	13
56	Lower bounds to future sea-level rise. <i>Global and Planetary Change</i> , 2012, 98-99, 1-5.	3.5	8
57	Positron scattering from methane. <i>Physical Review A</i> , 2012, 85, .	2.5	31
58	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
59	Total Cross Sections for Positron Scattering from Bio-Molecules. <i>Biological and Medical Physics Series</i> , 2012, , 155-163.	0.4	4
60	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
61	Observational constraints of the past CO2 concentration on the results of carbon cycle models. <i>Energy Policy</i> , 2011, 39, 7467-7469.	8.8	2
62	Constraints of fossil fuels depletion on global warming projections. <i>Energy Policy</i> , 2011, 39, 5026-5034.	8.8	166
63	Experimental determination of the scattering length for positron scattering from krypton. <i>European Physical Journal D</i> , 2011, 64, 317-321.	1.3	37
64	Total cross-sections for positron and electron scattering from $\hat{\pm}$ -tetrahydrofurfuryl alcohol. <i>New Journal of Physics</i> , 2011, 13, 063019.	2.9	23
65	Positron scattering from the isoelectronic molecules N_2 , CO and C_2H_2 . <i>New Journal of Physics</i> , 2011, 13, 115001.	2.9	42
66	The need for nondestructive sampling. <i>Physics Today</i> , 2010, 63, 11-11.	0.3	0
67	Procedures for conditioning W- and Ni-moderators for application in positron-scattering measurements. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 533-536.	1.4	35
68	Fossil-fuel constraints on global warming. <i>Energy Policy</i> , 2010, 38, 1-3.	8.8	132
69	Total cross section measurements for positron scattering from acetone. <i>PMC Physics B</i> , 2010, 3, .	0.9	18
70	Total cross sections for positron and electron scattering from pyrimidine. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 215204.	1.5	49
71	Total cross sections for positron scattering from H_2 at low energies. <i>Physical Review A</i> . 2009. 80. .	2.5	37
72	Comets and climate. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1766-1770.	1.6	5

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73	Low-Energy Positron Scattering from Dihydropyran. Journal of Physical Chemistry A, 2009, 113, 14251-14254.	2.5	9
74	Low-energy positron scattering from methanol and ethanol: Total cross sections. Physical Review A, 2008, 78, .	2.5	13
75	Positron scattering from 3-hydroxy-tetrahydrofuran. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 085201.	1.5	31
76	Positron scattering from formic acid. Physical Review A, 2008, 78, .	2.5	28
77	Development of a high-brightness, energy-tunable positronium beam for surface scattering experiments. , 0, , .		0