

James P Sullivan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9330935/publications.pdf>

Version: 2024-02-01

112
papers

2,709
citations

172386

29
h-index

197736

49
g-index

114
all docs

114
docs citations

114
times ranked

1619
citing authors

#	ARTICLE	IF	CITATIONS
1	A pulsed positronium beam using a positron buffer gas trap. <i>Review of Scientific Instruments</i> , 2021, 91, 033311.	0.6	5
2	Elastic scattering and electronic excitation in positron interactions with neon. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 065204.	0.6	2
3	Positron scattering from pyrazine. <i>Physical Review A</i> , 2021, 104, .	1.0	7
4	Low energy electron scattering from pyridine using a Surko trap and beam. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 235202.	0.6	0
5	Elastic and inelastic scattering of positrons from neon. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 222003.	0.3	0
6	New magnetized electron beam apparatus and measurement of total electron scattering cross section of $N_{2}O$ at intermediate energy region. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 182014.	0.3	0
7	Recent studies with electrons, positrons and positronium. <i>European Physical Journal D</i> , 2020, 74, 1.	0.6	1
8	A comparison of experimental and theoretical low energy positron scattering from furan. <i>Journal of Chemical Physics</i> , 2020, 153, 244303.	1.2	1
9	Roadmap on photonic, electronic and atomic collision physics: II. Electron and antimatter interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 171002.	0.6	22
10	Measurement of total electron scattering cross-section of $N_{2}O$ at intermediate energy region using a new magnetized electron beam apparatus. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 195201.	0.6	2
11	Radiation tolerance of two-dimensional material-based devices for space applications. <i>Nature Communications</i> , 2019, 10, 1202.	5.8	91
12	Positron scattering from pyridine. <i>Journal of Chemical Physics</i> , 2018, 148, 144308.	1.2	12
13	Effect of W self-implantation and He plasma exposure on early-stage defect and bubble formation in tungsten. <i>Nuclear Fusion</i> , 2018, 58, 066010.	1.6	15
14	Near-Threshold Ionization of Argon by Positron Impact. <i>Physical Review Letters</i> , 2018, 120, 113401.	2.9	10
15	Enhanced Magnetization of Cobalt Defect Clusters Embedded in TiO_{2} Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8783-8795.	4.0	19
16	Spatial profiles of positrons injected at low energies into water: influence of cross section models. <i>Plasma Sources Science and Technology</i> , 2017, 26, 045010.	1.3	14
17	A new technique for measuring positron impact direct ionisation. <i>European Physical Journal D</i> , 2017, 71, 1.	0.6	2
18	Probing electron correlation through radiative lifetime measurements upon inner-valence photoionization of Ne and Ar. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 145002.	0.6	1

#	ARTICLE	IF	CITATIONS
19	Low-energy elastic and inelastic scattering of positrons from argon. <i>Physical Review A</i> , 2016, 93, .	1.0	5
20	Advances in positron and electron scattering*. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	2
21	Editorial: Steve Buckman â€“ 40 years of pushing leptons uphill*. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	0
22	Scattering data for modelling positron tracks in gaseous and liquid water. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 145001.	0.6	47
23	Positron annihilation lifetime study of radiation-damaged natural zircons. <i>Journal of Nuclear Materials</i> , 2016, 471, 44-50.	1.3	5
24	Regularities in positronium formation for atoms and molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 064003.	0.6	18
25	Positron scattering from Biomolecules. <i>Journal of Physics: Conference Series</i> , 2015, 635, 072038.	0.3	0
26	Nano-porosity in GaSb induced by swift heavy ion irradiation. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	27
27	Recent progress in electron scattering from atoms and molecules. , 2014, , .		2
28	Kinetic Phenomena in Transport of Electrons and Positrons in Gases caused by the Properties of Scattering Cross Sections. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012047.	0.3	2
29	Threshold effects in positron scattering from isoelectronic series of atoms and molecules. <i>Physical Review A</i> , 2014, 90, .	1.0	2
30	Positron interactions with waterâ€™total elastic, total inelastic, and elastic differential cross section measurements. <i>Journal of Chemical Physics</i> , 2014, 140, 044320.	1.2	32
31	Low energy positron interactions with uracilâ€™Total scattering, positronium formation, and differential elastic scattering cross sections. <i>Journal of Chemical Physics</i> , 2014, 141, 034306.	1.2	23
32	Leaching behaviour of and Cs disposition in a UMo powellite glassâ€™ceramic. <i>Journal of Nuclear Materials</i> , 2014, 448, 325-329.	1.3	16
33	Ending Aging in Super Glassy Polymer Membranes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5322-5326.	7.2	275
34	Leaching properties of chromate-containing epoxy films using radiotracers, PALS and SEM. <i>Progress in Organic Coatings</i> , 2014, 77, 257-267.	1.9	35
35	Investigations into the free-volume changes within starch/plasticizer/nanoclay systems using Positron Annihilation Lifetime Spectroscopy. <i>Materials Chemistry and Physics</i> , 2014, 148, 349-355.	2.0	6
36	Low-energy electron and positron transport in gases and soft-condensed systems of biological relevance. <i>Applied Radiation and Isotopes</i> , 2014, 83, 77-85.	0.7	51

#	ARTICLE	IF	CITATIONS
37	Low-energy positron and electron scattering from tetrahydrofuran and 3-hydroxy-tetrahydrofuran. Journal of Physics: Conference Series, 2014, 488, 072007.	0.3	0
38	A joint theoretical and experimental study for elastic electron scattering from 1,4-dioxane. Journal of Chemical Physics, 2013, 139, 014308.	1.2	17
39	Total, elastic, and inelastic cross sections for positron and electron collisions with tetrahydrofuran. Journal of Chemical Physics, 2013, 138, 074301.	1.2	52
40	Experimental and theoretical cross sections for positron collisions with 3-hydroxy-tetrahydrofuran. Journal of Chemical Physics, 2013, 138, 074302.	1.2	20
41	Data for modeling of positron collisions and transport in gases. AIP Conference Proceedings, 2013, , .	0.3	8
42	Defect complexes in fluorine-implanted germanium. Journal Physics D: Applied Physics, 2013, 46, 505310.	1.3	11
43	Cross sections for elastic scattering of electrons by CF ₃ Cl, CF ₂ Cl ₂ , and CFCI ₃ . Journal of Chemical Physics, 2013, 138, 214305.	1.2	12
44	Positron scattering from molecular hydrogen. Physical Review A, 2013, 88, .	1.0	30
45	Positron scattering from pyrimidine. Physical Review A, 2013, 88, .	1.0	28
46	Role of F on the Electrical Activation of As in Ge. ECS Journal of Solid State Science and Technology, 2012, 1, Q44-Q46.	0.9	12
47	Search for positron quasibound states in the doubly excited region of the helium atom. Physical Review A, 2012, 86, .	1.0	13
48	Comment on "Semiempirical potentials for positron scattering by atoms". Physical Review A, 2012, 85, .	1.0	1
49	Low energy positron scattering from krypton and xenon. Journal of Physics: Conference Series, 2012, 388, 072021.	0.3	0
50	Magnetic field-free measurements of the total cross sections for positron-neon and positron-argon scattering. Journal of Physics: Conference Series, 2012, 388, 072001.	0.3	0
51	A Search for Wigner Cusps and Resonances in Positron Scattering by Atoms and Molecules. Journal of Physics: Conference Series, 2012, 388, 072012.	0.3	0
52	Electron scattering from pyrazine: Elastic differential and integral cross sections. Journal of Chemical Physics, 2012, 137, 204307.	1.2	19
53	Trends in Positron Scattering from Biomolecules. Journal of Physics: Conference Series, 2012, 388, 072013.	0.3	0
54	Modelling single positron tracks in Ar. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 045207.	0.6	21

#	ARTICLE	IF	CITATIONS
55	The interaction in sorbitol-plasticized starch bionanocomposites via positron annihilation lifetime spectroscopy and small angle X-ray scattering. Carbohydrate Polymers, 2012, 88, 1172-1176.	5.1	5
56	Positron and Electron Interactions and Transport in Biological Media. Biological and Medical Physics Series, 2012, , 227-238.	0.3	2
57	Positron scattering from neon and argon. Physical Review A, 2011, 83, .	1.0	65
58	Low-energy positron interactions with krypton. Physical Review A, 2011, 83, .	1.0	39
59	Kinematically complete experiments for positron-impact ionization of helium atoms at the NEPOMUC facility. Journal of Physics: Conference Series, 2011, 262, 012047.	0.3	7
60	Simulations of pulses in a buffer gas positron trap. Journal of Physics: Conference Series, 2011, 262, 012057.	0.3	1
61	Low energy positron interactions with rare gas atoms: threshold features and benchmark cross sections. Journal of Physics: Conference Series, 2011, 262, 012056.	0.3	1
62	Characterisation of metakaolin-based geopolymers using beam-based and conventional PALS. Journal of Physics: Conference Series, 2011, 262, 012023.	0.3	0
63	Long-lived, highly excited neutral hydrogen atom production following oxygen 1s photoexcitation of gas-phase water molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 095101.	0.6	9
64	Forward angle scattering effects in the measurement of total cross sections for positron scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 035201.	0.6	86
65	Low-energy elastic electron interactions with pyrimidine. Physical Review A, 2011, 84, .	1.0	53
66	Low-energy positron interactions with xenon. New Journal of Physics, 2011, 13, 125004.	1.2	26
67	Molecular pore size characterization within chitosan biopolymer using positron annihilation lifetime spectroscopy. Materials Letters, 2010, 64, 2635-2637.	1.3	16
68	A trap-based positron beamline for the study of materials. Measurement Science and Technology, 2010, 21, 085702.	1.4	23
69	Observation of Threshold Effects in Positron Scattering from the Noble Gases. Physical Review Letters, 2010, 105, 073201.	2.9	24
70	High-resolution positron scattering from helium: Grand total and positronium-formation cross sections. Physical Review A, 2009, 80, .	1.0	35
71	Total and positronium formation cross sections for positron scattering from H ₂ O and HCOOH. New Journal of Physics, 2009, 11, 103036.	1.2	63
72	Excitation of the $n=2$ states of helium by positron impact. Physical Review A, 2009, 80, .	1.0	22

#	ARTICLE	IF	CITATIONS
73	Low energy positron interactions - trapping, transport and scattering. Journal of Physics: Conference Series, 2009, 162, 012002.	0.3	4
74	Positron interactions and transport in biologically relevant molecules. Journal of Physics: Conference Series, 2009, 194, 072010.	0.3	0
75	A reaction microscope for positron μ^+ atom ionisation studies. Journal of Physics: Conference Series, 2009, 194, 072002.	0.3	5
76	High resolution positron interactions. Journal of Physics: Conference Series, 2009, 194, 012033.	0.3	7
77	Low energy positron interactions with helium. Journal of Physics: Conference Series, 2009, 194, 072005.	0.3	0
78	Positron scattering from noble gases future prospects. Journal of Physics: Conference Series, 2009, 194, 072012.	0.3	1
79	Low energy positron scattering from helium. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 384-387.	0.6	5
80	Single electron tracks in water vapour for energies below 100eV. International Journal of Mass Spectrometry, 2008, 277, 175-179.	0.7	90
81	Elastic electron scattering from 3-hydroxytetrahydrofuran: experimental and theoretical studies. New Journal of Physics, 2008, 10, 053002.	1.2	21
82	A positron trap and beam apparatus for atomic and molecular scattering experiments. Review of Scientific Instruments, 2008, 79, 113105.	0.6	82
83	Low energy lepton scattering: recent results for electron and positron interactions. Journal of Physics: Conference Series, 2008, 133, 012001.	0.3	5
84	Low energy positron scattering from helium. Journal of Physics: Conference Series, 2008, 133, 012004.	0.3	3
85	High-resolution, low-energy positron scattering from helium: measurements of the total scattering cross section. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 081001.	0.6	57
86	Absolute elastic cross-sections for low-energy electron scattering from tetrahydrofuran. New Journal of Physics, 2007, 9, 41-41.	1.2	74
87	Benchmark measurements and theory for electron(positron) μ^+ molecule(atom) scattering. Nuclear Instruments & Methods in Physics Research B, 2006, 247, 5-12.	0.6	18
88	Photoionization of He in the $3lnl\epsilon^2$ doubly-excited state energy region: angular distribution of the fluorescence from the residual ion $He+(2p)2P$. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 4819-4824.	0.6	0
89	Elastic electron scattering from formic acid (HCOOH): absolute differential cross-sections. New Journal of Physics, 2006, 8, 85-85.	1.2	34
90	IONIZATION AND POSITRONIUM FORMATION IN NOBLE GASES. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
91	Partial photoionization of helium into the $2s2S$ and $2p2P$ ion states in the $3lnl\hat{\epsilon}^2$ doubly-excited states region. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, L153-L160.	0.6	7
92	Ionization and positronium formation in noble gases. Physical Review A, 2005, 71, .	1.0	74
93	Experimental determination of the lifetimes of the $2(\hat{A}1, 0)on\hat{A}2pnd\hat{A}(1Po)$ doubly excited states of helium by detection of VUV fluorescence. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, L169-L173.	0.6	7
94	Scattering and Annihilation Experiments Using a Trap-Based Beam. Materials Science Forum, 2004, 445-446, 435-439.	0.3	1
95	Positron Scattering and Annihilation Studies Using a Trap-Based Beam. Physica Scripta, 2004, 110, 280.	1.2	10
96	Experimental studies of the interaction of low energy positrons with atoms and molecules. Nuclear Instruments & Methods in Physics Research B, 2004, 221, 84-92.	0.6	25
97	Double Photoexcitation of Helium in a Strong dc Electric Field. Physical Review Letters, 2003, 90, 133002.	2.9	39
98	A Cryogenic, High-field Trap for Large Positron Plasmas and Cold Beams. AIP Conference Proceedings, 2003, , .	0.3	2
99	Doubly excited states of helium observed in N- and l-specific partial photoionization cross-sections using lifetime-resolved fluorescence spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, L319-L326.	0.6	11
100	An experimental and theoretical study of transient negative ions in Mg, Zn, Cd and Hg. New Journal of Physics, 2003, 5, 159-159.	1.2	25
101	Vibrational-Resonance Enhancement of Positron Annihilation in Molecules. Physical Review Letters, 2002, 88, 043201.	2.9	110
102	Positron scattering from atoms and molecules using a magnetized beam. Physical Review A, 2002, 66, .	1.0	88
103	Low-energy positron-matter interactions using trap-based beams. AIP Conference Proceedings, 2002, , .	0.3	1
104	Low energy positron scattering and annihilation studies using a high resolution trap-based beam. Nuclear Instruments & Methods in Physics Research B, 2002, 192, 3-16.	0.6	41
105	Search for resonances in the scattering of low-energy positrons from atoms and molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, L467-L474.	0.6	45
106	Excitation of Molecular Vibrations by Positron Impact. Physical Review Letters, 2001, 86, 1494-1497.	2.9	76
107	Excitation of Electronic States of Ar, H ₂ , and N ₂ by Positron Impact. Physical Review Letters, 2001, 87, 073201.	2.9	70
108	Low-energy positron scattering from atoms and molecules using positron accumulation techniques. Nuclear Instruments & Methods in Physics Research B, 2000, 171, 81-95.	0.6	24

#	ARTICLE	IF	CITATIONS
109	Role of Negative Ion Resonances in Electron Scattering from Atoms and Molecules. Australian Journal of Physics, 1999, 52, 473.	0.6	14
110	The `5.2 eV resonance' in electron scattering from Hg. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, L1009-L1015.	0.6	7
111	Elastic electron scattering from argon at low incident energies. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 3177-3195.	0.6	66
112	Low-energy electron scattering from O2. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 4319-4328.	0.6	39