

Paul W Percival

List of Publications by Year in descending order

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103
papers

2,217
citations

201575

27
h-index

276775

41
g-index

104
all docs

104
docs citations

104
times ranked

629
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiolysis effects in muonium chemistry. <i>Chemical Physics</i> , 1978, 32, 353-367.	0.9	110
2	Muonium-substituted transient radicals observed by muon spin rotation. <i>Chemical Physics Letters</i> , 1978, 57, 37-40.	1.2	97
3	Pulsed EPR spectrometer, II. <i>Review of Scientific Instruments</i> , 1975, 46, 1522-1529.	0.6	93
4	Resolved nuclear hyperfine structure of a muonated free radical using level-crossing spectroscopy. <i>Physical Review A</i> , 1986, 34, 681-684.	1.0	77
5	Muon level-crossing spectroscopy of organic free radicals. <i>Chemical Physics Letters</i> , 1987, 133, 465-470.	1.2	61
6	The Reactions of Imidazol-2-ylidenes with the Hydrogen Atom: A Theoretical Study and Experimental Confirmation with Muonium. <i>Journal of the American Chemical Society</i> , 2003, 125, 11565-11570.	6.6	56
7	Structure and intramolecular motion of muonium-substituted cyclohexadienyl radicals. <i>Chemical Physics</i> , 1990, 142, 229-236.	0.9	55
8	Free radicals formed by H(Mu) addition to fluoranthene. <i>Canadian Journal of Chemistry</i> , 2003, 81, 1-6.	0.6	54
9	Hyperfine constants for the ethyl radical in the gas phase. <i>Chemical Physics Letters</i> , 1989, 163, 241-245.	1.2	52
10	The detection of muonium in water. <i>Chemical Physics Letters</i> , 1976, 39, 333-335.	1.2	46
11	Muonium Chemistry. <i>Radiochimica Acta</i> , 1979, 26, 1-14.	0.5	46
12	The structure of C ₆₀ Mu and other fullerenyl radicals. <i>Chemical Physics Letters</i> , 1992, 196, 317-320.	1.2	46
13	Intramolecular motion in the tert-butyl radical as studied by muon spin rotation and level-crossing spectroscopy. <i>Chemical Physics</i> , 1988, 127, 137-147.	0.9	44
14	Isotope and temperature effects on the hyperfine interaction of atomic hydrogen in liquid water and in ice. <i>Journal of Chemical Physics</i> , 1995, 102, 5989-5997.	1.2	44
15	Diffusion and CIDEP of H and D atoms in solid H ₂ O, D ₂ O and isotopic mixtures. <i>Chemical Physics</i> , 1992, 164, 421-437.	0.9	42
16	Organosilicon compounds meet subatomic physics: Muon spin resonance. <i>Dalton Transactions</i> , 2010, 39, 9209.	1.6	40
17	Free Radical Reactivity of Mono- and Dichlorosilylene with Muonium. <i>Chemistry - A European Journal</i> , 2011, 17, 11970-11973.	1.7	39
18	Bimolecular rate constants for reactions of muonium in aqueous solutions. <i>Chemical Physics Letters</i> , 1977, 47, 11-14.	1.2	36

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19	Theory and analysis of $\dot{I}^{1/4+}$ spin polarization in chemical systems. <i>Chemical Physics</i> , 1976, 16, 89-99.	0.9	35
20	A Silyl Radical formed by Muonium Addition to a Silylene. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2893-2895.	7.2	34
21	Dual Reactivity of a Stable Zwitterionic N-Heterocyclic Silylene and Its Carbene Complex Probed with Muonium. <i>Organometallics</i> , 2012, 31, 2709-2714.	1.1	34
22	Molecular Dynamics of the Muonium-C60 Radical in Solid C60. <i>Physical Review Letters</i> , 1992, 68, 2708-2711.	2.9	33
23	Free radicals formed by H(Mu) addition to pyrene. <i>Canadian Journal of Chemistry</i> , 1999, 77, 326-331.	0.6	32
24	Spin relaxation of muonium-substituted ethyl radicals ($\text{MuCH}_2\dot{\text{C}}\text{H}_2$) in the gas phase. <i>Journal of Chemical Physics</i> , 1996, 105, 7517-7535.	1.2	30
25	Reaction of Stable N-Heterocyclic Silylenes and Germylenes with Muonium. <i>Chemistry - A European Journal</i> , 2009, 15, 8409-8412.	1.7	30
26	Measurement of the ^{13}C hyperfine constants of the cyclohexadienyl radical using muon level-crossing resonance. <i>Chemical Physics Letters</i> , 1988, 143, 613-618.	1.2	29
27	Near-diffusion-controlled reactions of muonium in sub- and supercritical water. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 586-595.	1.3	29
28	Molecular and applied modulation effects in electron-electron double resonance. V. Passage effects in high resolution frequency and field swept ELDOR. <i>Journal of Chemical Physics</i> , 1975, 62, 4332-4342.	1.2	27
29	Spin depolarization in muonium by hydrated electrons. <i>Chemical Physics Letters</i> , 1982, 91, 1-3.	1.2	26
30	Organic Free Radicals in Superheated Water Studied by Muon Spin Spectroscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 13714-13719.	6.6	25
31	Muonium formation in water and aqueous solutions. <i>Hyperfine Interactions</i> , 1981, 8, 315-323.	0.2	24
32	Partial spin depolarization of muonium in ice. <i>Chemical Physics</i> , 1985, 95, 321-330.	0.9	24
33	Silicon Meets Cyclotron: Muon Spin Resonance of Organosilicon Radicals. <i>Chemistry - A European Journal</i> , 2014, 20, 9184-9190.	1.7	24
34	Surface diffusion of the cyclohexadienyl radical adsorbed on silica and on a silica supported Pd catalyst studied by means of ALC- $\dot{I}^{1/4}\text{SR}$. <i>Chemical Physics</i> , 1994, 189, 697-712.	0.9	23
35	^{13}C hyperfine coupling constants in MuC_{60} . <i>Chemical Physics Letters</i> , 1995, 245, 90-94.	1.2	23
36	Probing the Reactivity of a Stable Silene Using Muonium. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9772-9774.	7.2	23

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37	Kinetics of the reaction between H and superheated water probed with muonium. <i>Chemical Physics</i> , 2014, 435, 29-39.	0.9	23
38	Prediction of Rate Constants for Reactions of the Hydroxyl Radical in Water at High Temperatures and Pressures. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3005-3008.	1.1	22
39	Detection of a secondary muoniated radical. <i>Physica B: Condensed Matter</i> , 2009, 404, 940-942.	1.3	22
40	Saturation-recovery measurements of the spin-lattice relaxation times of some nitroxides in solution. <i>Journal of Magnetic Resonance</i> , 1976, 23, 249-257.	0.5	21
41	Enolization of Acetone in Superheated Water Detected via Radical Formation. <i>Journal of the American Chemical Society</i> , 2003, 125, 9594-9595.	6.6	21
42	Muonium in sub- and supercritical water. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 4999-5004.	1.3	20
43	Spin relaxation of muonated radicals in the gas phase. <i>Hyperfine Interactions</i> , 1994, 87, 865-870.	0.2	19
44	Muonium kinetics in sub- and supercritical water. <i>Physica B: Condensed Matter</i> , 2003, 326, 55-60.	1.3	19
45	Hyperfine Coupling in Methyl Radical Isotopomers. <i>Journal of Physical Chemistry A</i> , 2007, 111, 10625-10634.	1.1	19
46	Free Radical Reactivity of a Phosphaalkene Explored Through Studies of Radical Isotopologues. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 297-301.	7.2	19
47	The reaction of muonium with hydrated electrons. <i>Chemical Physics</i> , 1988, 121, 393-403.	0.9	18
48	Free radicals formed by H(Mu) addition to pyrene. <i>Canadian Journal of Chemistry</i> , 1999, 77, 326-331.	0.6	18
49	Hot muonium and muon spur processes in nitrogen and ethane. <i>Journal of Chemical Physics</i> , 1991, 94, 1046-1059.	1.2	17
50	Merging the chemistry of electron-rich olefins with imidazolium ionic liquids: radicals and hydrogen-atom adducts. <i>Chemical Science</i> , 2011, 2, 2173.	3.7	17
51	Detection of muoniated organic free radicals in supercritical water. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4717-4720.	1.3	16
52	Formation of muonic radicals. <i>Hyperfine Interactions</i> , 1979, 6, 421-424.	0.2	15
53	Evidence for anisotropic diffusion of Mu in ice and implications for H. <i>Chemical Physics Letters</i> , 1982, 93, 366-370.	1.2	15
54	Germanium-centered free radicals studied by muon spin spectroscopy. <i>Canadian Journal of Chemistry</i> , 2014, 92, 508-513.	0.6	14

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55	Free Radicals of N-Donor-Stabilized Silicon(II) Compounds Probed by Muon Spin Spectroscopy. <i>Organometallics</i> , 2015, 34, 3532-3537.	1.1	14
56	Proton, muon and ^{13}C hyperfine coupling constants of C_{60}X and C_{70}X ($\text{X} = \text{H}, \text{Mu}$). <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1755-1762.	1.3	14
57	Interaction of muonium with oxygen on silica powder surfaces. <i>Hyperfine Interactions</i> , 1991, 65, 811-817.	0.2	13
58	Hyperfine coupling constants of muonium in sub and supercritical water. <i>Physica B: Condensed Matter</i> , 2000, 289-290, 476-481.	1.3	13
59	The missing fraction in water. <i>Hyperfine Interactions</i> , 1981, 8, 325-328.	0.2	12
60	Muonium diffusion in ice. <i>Chemical Physics</i> , 1987, 114, 399-409.	0.9	12
61	Muon investigations of fullereryl radicals. <i>Hyperfine Interactions</i> , 1994, 86, 817-824.	0.2	12
62	Detection of the Muoniated Methyl Radical. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7083-7085.	1.1	12
63	H atom kinetics in superheated water studied by muon spin spectroscopy. <i>Radiation Physics and Chemistry</i> , 2007, 76, 1231-1235.	1.4	12
64	Organic Free Radicals in Clathrate Hydrates Investigated by Muon Spin Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1162-1167.	1.1	12
65	Characterization of Free Radicals in Clathrate Hydrates of Furan, 2,3-Dihydrofuran, and 2,5-Dihydrofuran by Muon Spin Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2016, 120, 8521-8528.	1.1	12
66	Free Radical Chemistry of Phosphasilenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16007-16012.	7.2	12
67	Current trends in muonium chemistry. <i>Hyperfine Interactions</i> , 1991, 65, 901-911.	0.2	11
68	^{14}SR Investigation of ethyl radicals adsorbed on silica. <i>Hyperfine Interactions</i> , 1994, 87, 859-864.	0.2	11
69	A reply to arguments against a spur model for muonium formation. <i>Hyperfine Interactions</i> , 1984, 18, 721-725.	0.2	9
70	Muonium as a probe of hydrogen-atom reactions. <i>Faraday Discussions of the Chemical Society</i> , 1984, 78, 315.	2.2	9
71	Determination of the dissociation constant of D_2O_2 in D_2O by a conventional method and via muonium kinetics. <i>Canadian Journal of Chemistry</i> , 1988, 66, 2410-2411.	0.6	9
72	Detection of an $\hat{\text{I}}\pm$ -Muonium-substituted methyl radical. <i>Hyperfine Interactions</i> , 1994, 87, 847-851.	0.2	9

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73	Formation and spectroscopy of $\hat{1}\pm$ -muoniated radicals. <i>Physica B: Condensed Matter</i> , 2003, 326, 76-80.	1.3	9
74	Diffusion of atomic hydrogen in ice-Ih. <i>Chemical Physics Letters</i> , 1993, 210, 129-134.	1.2	8
75	Formation of the muoniated ethyl radical in the gas phase. <i>Physica B: Condensed Matter</i> , 2003, 326, 72-75.	1.3	8
76	A computational study of the reactions of a $\hat{1}^2$ -diketiminatoaluminium(i) complex with the hydrogen atom and the electron. <i>Chemical Communications</i> , 2005, , 1134-1136.	2.2	8
77	Exciplex formation and chemically induced electron polarization. <i>Journal of the Chemical Society Chemical Communications</i> , 1973, , 121b.	2.0	7
78	Participation of the OH radical in the terminal muon spur. <i>Hyperfine Interactions</i> , 1979, 6, 373-378.	0.2	7
79	Level crossing resonance due to chlorine nuclei in a free radical. <i>Hyperfine Interactions</i> , 1994, 87, 853-858.	0.2	7
80	Surface Dynamics of the Cyclohexadienyl Radical Adsorbed on Silica Gel Investigated Using Avoided Level-Crossing Muon Spin Resonance. <i>Zeitschrift Fur Physikalische Chemie</i> , 1995, 190, 29-40.	1.4	7
81	Muoniated acyl and thioacyl radicals. <i>Physica B: Condensed Matter</i> , 2006, 374-375, 299-302.	1.3	7
82	Investigation of H atom and free radical behaviour in clathrate hydrates of organic molecules. <i>Radiation Physics and Chemistry</i> , 2020, 168, 108532.	1.4	7
83	Reply to "œon the interpretation of level-crossing resonance results for the muonated ethyl radical". <i>Chemical Physics Letters</i> , 1987, 138, 613-614.	1.2	6
84	Free radicals formed by H(Mu) addition to triphenylene and dodecahydrotriphenylene. <i>Physica B: Condensed Matter</i> , 2006, 374-375, 310-313.	1.3	6
85	Kinetics of Mu addition to acetone in sub- and supercritical water. <i>Physica B: Condensed Matter</i> , 2009, 404, 950-952.	1.3	6
86	Free Radical Reactivity of a Phosphaalkene Explored Through Studies of Radical Isotopologues. <i>Angewandte Chemie</i> , 2019, 131, 303-307.	1.6	6
87	Muonium in ice. <i>Hyperfine Interactions</i> , 1984, 18, 543-550.	0.2	5
88	Observation of two distinct diamagnetic muon signals in the liquid phase using selective paramagnetic relaxation. <i>Chemical Physics Letters</i> , 1985, 113, 347-350.	1.2	5
89	Muon spin relaxation studies of extremely concentrated paramagnetic electrolyte solutions. <i>Hyperfine Interactions</i> , 1984, 18, 709-713.	0.2	3
90	H and Mu diffusion in ice. <i>Hyperfine Interactions</i> , 1994, 85, 91-96.	0.2	3

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91	Conformational studies of thiyl and selenenyl radicals. <i>Hyperfine Interactions</i> , 1994, 87, 839-845.	0.2	3
92	Characterization of free radicals in clathrate hydrates of pyrrole, thiophene, and isoxazole by muon spin spectroscopy. <i>Canadian Journal of Chemistry</i> , 2018, 96, 217-225.	0.6	3
93	Chemie freier Radikale von Phosphasilenen. <i>Angewandte Chemie</i> , 2020, 132, 16141-16146.	1.6	3
94	Variable-field muon spin-lattice relaxation studies of aqueous solutions of manganese(ii) nitrate: separation of scalar and dipolar relaxation. <i>Chemical Physics Letters</i> , 1986, 124, 279-282.	1.2	1
95	Pressure-dependent muonium kinetics in aqueous solution. <i>International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements</i> , 1988, 32, 105-109.	0.0	1
96	Nonhomogeneous distribution of muonium and other paramagnetic products following positive muon radiolysis of water. <i>Canadian Journal of Physics</i> , 1990, 68, 947-951.	0.4	1
97	Zero frequency resonance: another way to measure muon-electron hyperfine constants. <i>Physica B: Condensed Matter</i> , 2000, 289-290, 681-683.	1.3	1
98	Free Radicals Formed by H Atom Addition to Allenes as Determined by Muon Spin Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020, 124, 11086-11092.	1.1	1
99	Fourier Transform μ SR. , 1982, , 345-385.		1
100	Intramolecular motion in muonium-substituted radicals. <i>Hyperfine Interactions</i> , 1991, 65, 937-938.	0.2	0
101	Structure and dynamics of the Mu adduct of diketene. <i>PhysChemComm</i> , 2001, 1, 136.	0.8	0
102	Supercritical Water Experimental Setup for μ SR. , 2018, , .		0
103	SFU Chemistry 1965â€“2016. <i>Canadian Journal of Chemistry</i> , 2018, 96, v-ix.	0.6	0