Paul W Percival

List of Publications by Year
in descending order

103 papers	2,217 citations	201674 27 h-index	276875 41 g-index
104 all docs	104 docs citations	104 times ranked	629 citing authors

#	Article	IF	Citations
1	Investigation of H atom and free radical behaviour in clathrate hydrates of organic molecules. Radiation Physics and Chemistry, 2020, 168, 108532.	2.8	7
2	Free Radicals Formed by H Atom Addition to Allenes as Determined by Muon Spin Spectroscopy. Journal of Physical Chemistry A, 2020, 124, 11086-11092.	2.5	1
3	Free Radical Chemistry of Phosphasilenes. Angewandte Chemie - International Edition, 2020, 59, 16007-16012.	13.8	12
4	Chemie freier Radikale von Phosphasilenen. Angewandte Chemie, 2020, 132, 16141-16146.	2.0	3
5	Free Radical Reactivity of a Phosphaalkene Explored Through Studies of Radical Isotopologues. Angewandte Chemie - International Edition, 2019, 58, 297-301.	13.8	19
6	Free Radical Reactivity of a Phosphaalkene Explored Through Studies of Radical Isotopologues. Angewandte Chemie, 2019, 131, 303-307.	2.0	6
7	Supercritical Water Experimental Setup for ÂµSR. , 2018, , .		0
8	Characterization of free radicals in clathrate hydrates of pyrrole, thiophene, and isoxazole by muon spin spectroscopy. Canadian Journal of Chemistry, 2018, 96, 217-225.	1.1	3
9	SFU Chemistry 1965â€“2016. Canadian Journal of Chemistry, 2018, 96, v-ix.	1.1	0
10	Characterization of Free Radicals in Clathrate Hydrates of Furan, 2,3-Dihydrofuran, and 2,5-Dihydrofuran by Muon Spin Spectroscopy. Journal of Physical Chemistry A, 2016, 120, 8521-8528.	2.5	12
11	Free Radicals of N-Donor-Stabilized Silicon(II) Compounds Probed by Muon Spin Spectroscopy. Organometallics, 2015, 34, 3532-3537.	2.3	14
12	Proton, muon and¹³C hyperfine coupling constants of C₆₀X and C₇₀X (X = H, Mu). Physical Chemistry Chemical Physics, 2015, 17, 1755-1762.	2.8	14
13	Germanium-centered free radicals studied by muon spin spectroscopy. Canadian Journal of Chemistry, 2014, 92, 508-513.	1.1	14
14	Kinetics of the reaction between H and superheated water probed with muonium. Chemical Physics, 2014, 435, 29-39.	1.9	23
15	Organic Free Radicals in Clathrate Hydrates Investigated by Muon Spin Spectroscopy. Journal of Physical Chemistry A, 2014, 118, 1162-1167.	2.5	12
16	Silicon Meets Cyclotron: Muon Spin Resonance of Organosilicon Radicals. Chemistry - A European Journal, 2014, 20, 9184-9190.	3.3	24
17	Dual Reactivity of a Stable Zwitterionic N-Heterocyclic Silylene and Its Carbene Complex Probed with Muonium. Organometallics, 2012, 31, 2709-2714.	2.3	34
18	Merging the chemistry of electron-rich olefins with imidazolium ionic liquids: radicals and hydrogen-atom adducts. Chemical Science, 2011, 2, 2173.	7.4	17

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19	Free Radical Reactivity of Monoâ€•and Dichlorosilylene with Muonium. Chemistry - A European Journal, 2011, 17, 11970-11973.	3.3	39
20	A Silyl Radical formed by Muonium Addition to a Silylene. Angewandte Chemie - International Edition, 2010, 49, 2893-2895.	13.8	34
21	Organosilicon compounds meet subatomic physics: Muon spin resonance. Dalton Transactions, 2010, 39, 9209.	3.3	40
22	Reaction of Stable Nâ€Heterocyclic Silylenes and Germylenes with Muonium. Chemistry - A European Journal, 2009, 15, 8409-8412.	3.3	30
23	Detection of a secondary muoniated radical. Physica B: Condensed Matter, 2009, 404, 940-942.	2.7	22
24	Kinetics of Mu addition to acetone in sub- and supercritical water. Physica B: Condensed Matter, 2009, 404, 950-952.	2.7	6
25	Probing the Reactivity of a Stable Silene Using Muonium. Angewandte Chemie - International Edition, 2008, 47, 9772-9774.	13.8	23
26	Hyperfine Coupling in Methyl Radical Isotopomers. Journal of Physical Chemistry A, 2007, 111, 10625-10634.	2.5	19
27	H atom kinetics in superheated water studied by muon spin spectroscopy. Radiation Physics and Chemistry, 2007, 76, 1231-1235.	2.8	12
28	Free radicals formed by H(Mu) addition to triphenylene and dodecahydrotriphenylene. Physica B: Condensed Matter, 2006, 374-375, 310-313.	2.7	6
29	Muoniated acyl and thioacyl radicals. Physica B: Condensed Matter, 2006, 374-375, 299-302.	2.7	7
30	A computational study of the reactions of a Î²-diketiminatoaluminium(i) complex with the hydrogen atom and the electron. Chemical Communications, 2005, , 1134-1136.	4.1	8
31	Organic Free Radicals in Superheated Water Studied by Muon Spin Spectroscopy. Journal of the American Chemical Society, 2005, 127, 13714-13719.	13.7	25
32	Muonium kinetics in sub- and supercritical water. Physica B: Condensed Matter, 2003, 326, 55-60.	2.7	19
33	Formation of the muoniated ethyl radical in the gas phase. Physica B: Condensed Matter, 2003, 326, 72-75.	2.7	8
34	Formation and spectroscopy of Î±-muoniated radicals. Physica B: Condensed Matter, 2003, 326, 76-80.	2.7	9
35	The Reactions of Imidazol-2-ylidenes with the Hydrogen Atom:Â A Theoretical Study and Experimental Confirmation with Muonium. Journal of the American Chemical Society, 2003, 125, 11565-11570.	13.7	56
36	Enolization of Acetone in Superheated Water Detected via Radical Formation. Journal of the American Chemical Society, 2003, 125, 9594-9595.	13.7	21

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37	Prediction of Rate Constants for Reactions of the Hydroxyl Radical in Water at High Temperatures and Pressures. Journal of Physical Chemistry A, 2003, 107, 3005-3008.	2.5	22
38	Free radicals formed by H(Mu) addition to fluoranthene. Canadian Journal of Chemistry, 2003, 81, 1-6.	1.1	54
39	Detection of the Muoniated Methyl Radical. Journal of Physical Chemistry A, 2002, 106, 7083-7085.	2.5	12
40	Near-diffusion-controlled reactions of muonium in sub- and supercritical water. Physical Chemistry Chemical Physics, 2002, 4, 586-595.	2.8	29
41	Structure and dynamics of the Mu adduct of diketene. PhysChemComm, 2001, 1, 136.	0.8	0
42	Zero frequency resonance: another way to measure muon-electron hyperfine constants. Physica B: Condensed Matter, 2000, 289-290, 681-683.	2.7	1
43	Hyperfine coupling constants of muonium in sub and supercritical water. Physica B: Condensed Matter, 2000, 289-290, 476-481.	2.7	13
44	Detection of muoniated organic free radicals in supercritical water. Physical Chemistry Chemical Physics, 2000, 2, 4717-4720.	2.8	16
45	Free radicals formed by H(Mu) addition to pyrene. Canadian Journal of Chemistry, 1999, 77, 326-331.	1.1	32
46	Muonium in sub- and supercritical water. Physical Chemistry Chemical Physics, 1999, 1, 4999-5004.	2.8	20
47	Free radicals formed by H(Mu) addition to pyrene. Canadian Journal of Chemistry, 1999, 77, 326-331.	1.1	18
48	Spin relaxation of muoniumâ€substituted ethyl radicals (MuCH2ĂŠH2) in the gas phase. Journal of Chemical Physics, 1996, 105, 7517-7535.	3.0	30
49	Surface Dynamics of the Cyclohexadienyl Radical Adsorbed on Silica Gel Investigated Using Avoided Level-Crossing Muon Spin Resonance. Zeitschrift Fur Physikalische Chemie, 1995, 190, 29-40.	2.8	7
50	13C hyperfine coupling constants in MuC60. Chemical Physics Letters, 1995, 245, 90-94.	2.6	23
51	Isotope and temperature effects on the hyperfine interaction of atomic hydrogen in liquid water and in ice. Journal of Chemical Physics, 1995, 102, 5989-5997.	3.0	44
52	Surface diffusion of the cyclohexadienyl radical adsorbed on silica and on a silica supported Pd catalyst studied by means of ALC-Î¼SR. Chemical Physics, 1994, 189, 697-712.	1.9	23
53	Detection of an Î±-Muonium-substituted methyl radical. Hyperfine Interactions, 1994, 87, 847-851.	0.5	9
54	Level crossing resonance due to chlorine nuclei in a free radical. Hyperfine Interactions, 1994, 87, 853-858.	0.5	7

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55	Î¼SR Investigation of ethyl radicals adsorbed on silica. Hyperfine Interactions, 1994, 87, 859-864.	0.5	11
56	Spin relaxation of muonated radicals in the gas phase. Hyperfine Interactions, 1994, 87, 865-870.	0.5	19
57	Muon investigations of fullerenyl radicals. Hyperfine Interactions, 1994, 86, 817-824.	0.5	12
58	H and Mu diffusion in ice. Hyperfine Interactions, 1994, 85, 91-96.	0.5	3
59	Conformational studies of thiyl and selenenyl radicals. Hyperfine Interactions, 1994, 87, 839-845.	0.5	3
60	Diffusion of atomic hydrogen in ice-Ih. Chemical Physics Letters, 1993, 210, 129-134.	2.6	8
61	Molecular Dynamics of the Muonium-C60Radical in SolidC60. Physical Review Letters, 1992, 68, 2708-2711.	7.8	33
62	Diffusion and CIDEP of H and D atoms in solid H2O, D2O and isotopic mixtures. Chemical Physics, 1992, 164, 421-437.	1.9	42
63	The structure of C60Mu and other fullerenyl radicals. Chemical Physics Letters, 1992, 196, 317-320.	2.6	46
64	Interaction of muonium with oxygen on silica powder surfaces. Hyperfine Interactions, 1991, 65, 811-817.	0.5	13
65	Current trends in muonium chemistry. Hyperfine Interactions, 1991, 65, 901-911.	0.5	11
66	Intramolecular motion in muonium-substituted radicals. Hyperfine Interactions, 1991, 65, 937-938.	0.5	0
67	Hot muonium and muon spur processes in nitrogen and ethane. Journal of Chemical Physics, 1991, 94, 1046-1059.	3.0	17
68	Structure and intramolecular motion of muonium-substituted cyclohexadienyl radicals. Chemical Physics, 1990, 142, 229-236.	1.9	55
69	Nonhomogeneous distribution of muonium and other paramagnetic products following positive muon radiolysis of water. Canadian Journal of Physics, 1990, 68, 947-951.	1.1	1
70	Hyperfine constants for the ethyl radical in the gas phase. Chemical Physics Letters, 1989, 163, 241-245.	2.6	52
71	Measurement of the 13C hyperfine constants of the cyclohexadienyl radical using muon level-crossing resonance. Chemical Physics Letters, 1988, 143, 613-618.	2.6	29
72	Pressure-dependent muonium kinetics in aqueous solution. International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements, 1988, 32, 105-109.	0.0	1

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73	Intramolecular motion in the tert-butyl radical as studied by muon spin rotation and level-crossing spectroscopy. Chemical Physics, 1988, 127, 137-147.	1.9	44
74	The reaction of muonium with hydrated electrons. Chemical Physics, 1988, 121, 393-403.	1.9	18
75	Determination of the dissociation constant of D2O2 in D2O by a conventional method and via muonium kinetics. Canadian Journal of Chemistry, 1988, 66, 2410-2411.	1.1	9
76	Muon level-crossing spectroscopy of organic free radicals. Chemical Physics Letters, 1987, 133, 465-470.	2.6	61
77	Reply to â€œon the interpretation of level-crossing resonance results for the muonated ethyl radicalâ€• Chemical Physics Letters, 1987, 138, 613-614.	2.6	6
78	Muonium diffusion in ice. Chemical Physics, 1987, 114, 399-409.	1.9	12
79	Variable-field muon spin-lattice relaxation studies of aqueous solutions of manganese(ii) nitrate: separation of scalar and dipolar relaxation. Chemical Physics Letters, 1986, 124, 279-282.	2.6	1
80	Resolved nuclear hyperfine structure of a muonated free radical using level-crossing spectroscopy. Physical Review A, 1986, 34, 681-684.	2.5	77
81	Partial spin depolarization of muonium in ice. Chemical Physics, 1985, 95, 321-330.	1.9	24
82	Observation of two distinct diamagnetic muon signals in the liquid phase using selective paramagnetic relaxation. Chemical Physics Letters, 1985, 113, 347-350.	2.6	5
83	Muonium in ice. Hyperfine Interactions, 1984, 18, 543-550.	0.5	5
84	Muon spin relaxation studies of extremely concentrated paramagnetic electrolyte solutions. Hyperfine Interactions, 1984, 18, 709-713.	0.5	3
85	A reply to arguments against a spur model for muonium formation. Hyperfine Interactions, 1984, 18, 721-725.	0.5	9
86	Muonium as a probe of hydrogen-atom reactions. Faraday Discussions of the Chemical Society, 1984, 78, 315.	2.2	9
87	Evidence for anisotropic diffusion of Mu in ice and implications for H. Chemical Physics Letters, 1982, 93, 366-370.	2.6	15
88	Spin depolarization in muonium by hydrated electrons. Chemical Physics Letters, 1982, 91, 1-3.	2.6	26
89	Fourier Transform Î¼SR. , 1982, , 345-385.		1
90	Muonium formation in water and aqueous solutions. Hyperfine Interactions, 1981, 8, 315-323.	0.5	24

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91	The missing fraction in water. Hyperfine Interactions, 1981, 8, 325-328.	0.5	12
92	Muonium Chemistry. Radiochimica Acta, 1979, 26, 1-14.	1.2	46
93	Participation of the OH radical in the terminal muon spur. Hyperfine Interactions, 1979, 6, 373-378.	0.5	7
94	Formation of muonic radicals. Hyperfine Interactions, 1979, 6, 421-424.	0.5	15
95	Radiolysis effects in muonium chemistry. Chemical Physics, 1978, 32, 353-367.	1.9	110
96	Muonium-substituted transient radicals observed by muon spin rotation. Chemical Physics Letters, 1978, 57, 37-40.	2.6	97
97	Bimolecular rate constants for reactions of muonium in aqueous solutions. Chemical Physics Letters, 1977, 47, 11-14.	2.6	36
98	The detection of muonium in water. Chemical Physics Letters, 1976, 39, 333-335.	2.6	46
99	Theory and analysis of Î¼+ spin polarization in chemical systems. Chemical Physics, 1976, 16, 89-99.	1.9	35
100	Saturation-recovery measurements of the spin-lattice relaxation times of some nitroxides in solution. Journal of Magnetic Resonance, 1976, 23, 249-257.	0.5	21
101	Molecular and applied modulation effects in electron electron double resonance. V. Passage effects in high resolution frequency and field swept ELDOR. Journal of Chemical Physics, 1975, 62, 4332-4342.	3.0	27
102	Pulsed EPR spectrometer, II. Review of Scientific Instruments, 1975, 46, 1522-1529.	1.3	93
103	Exciplex formation and chemically induced electron polarization. Journal of the Chemical Society Chemical Communications, 1973, , 121b.	2.0	7