

Allan J Mckinley

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

2,775
citations

26
h-index

49
g-index

101
ext. papers

2,982
ext. citations

5.1
avg, IF

4.69
L-index

#	Paper	IF	Citations
96	Pure dietary flavonoids quercetin and (-)-epicatechin augment nitric oxide products and reduce endothelin-1 acutely in healthy men. <i>American Journal of Clinical Nutrition</i> , 2008 , 88, 1018-25	7	281
95	Specific dietary polyphenols attenuate atherosclerosis in apolipoprotein E-knockout mice by alleviating inflammation and endothelial dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 749-57	9.4	222
94	Effect of Particle Size on the Photocatalytic Activity of Nanoparticulate Zinc Oxide. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 43-51	2.3	179
93	Dodecamethylcarba-closo-dodecaboranyl (CB11Me12) a Stable Free Radical. <i>Journal of the American Chemical Society</i> , 1996 , 118, 10902-10903	16.4	138
92	Metabolic transformation has a profound effect on anti-inflammatory activity of flavonoids such as quercetin: lack of association between antioxidant and lipoxygenase inhibitory activity. <i>Biochemical Pharmacology</i> , 2008 , 75, 1045-53	6	126
91	Infrared measurements and calculations on H ₂ O...HO. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6048-9	16.4	89
90	Temperature Dependence of the Visible-Near-Infrared Absorption Spectrum of Liquid Water. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 8916-8921	2.8	88
89	Mechanochemical synthesis of nanocrystalline SnO ₂ /ZnO photocatalysts. <i>Nanotechnology</i> , 2006 , 17, 692-698	3.4	84
88	Identification of H ₂ O...HO in Argon Matrices. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12859-12863	17.63	68
87	The production of oxidants in Europa's surface. <i>Astrobiology</i> , 2003 , 3, 823-50	3.7	65
86	Solution photochemistry of poly(dialkylsilanes): a new class of photoresists. <i>Pure and Applied Chemistry</i> , 1988 , 60, 959-972	2.1	63
85	A metabolite profiling approach to identify biomarkers of flavonoid intake in humans. <i>Journal of Nutrition</i> , 2009 , 139, 2309-14	4.1	60
84	Tailoring the photocatalytic activity of nanoparticulate zinc oxide by transition metal oxide doping. <i>Materials Chemistry and Physics</i> , 2009 , 114, 382-386	4.4	58
83	Quercetin and its in vivo metabolites inhibit neutrophil-mediated low-density lipoprotein oxidation. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 3609-15	5.7	58
82	A fast liquid chromatography quadrupole time-of-flight mass spectrometry (LC-QToF-MS) method for the identification of organic explosives and propellants. <i>Forensic Science International</i> , 2013 , 233, 63-74	2.6	47
81	Benzotriazoles in the Aquatic Environment: a Review of Their Occurrence, Toxicity, Degradation and Analysis. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	42
80	Theoretical and neon matrix electron spin resonance studies of the methanol cation: CH ₃ OH ⁺ , CH ₃ OD ⁺ , CH ₂ DOH ⁺ , and ¹³ CH ₃ OH ⁺ . <i>Journal of Chemical Physics</i> , 1992 , 97, 5363-5376	3.9	40

79	A body-diagonal bond in cubane: can it be introduced?. <i>Journal of the American Chemical Society</i> , 1990 , 112, 873-874	16.4	38
78	Luminescent photoproducts in UV-irradiated ice. <i>Accounts of Chemical Research</i> , 2000 , 33, 665-71	24.3	35
77	Mechanochemical synthesis of nanoparticulate ZnO/ZnWO ₄ powders and their photocatalytic activity. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 139-144	6	33
76	Laser vaporization generation of the SiB and SiAl radicals for matrix isolation electron spin resonance studies; comparison with theoretical calculations and assignment of their electronic ground states as X 4 Σ . <i>Journal of Chemical Physics</i> , 1993 , 98, 6749-6757	3.9	33
75	Photodegradation of poly(dialkylsilane)s in solution: the persistent radicals have an unexpected structure. <i>Organometallics</i> , 1988 , 7, 2567-2569	3.8	32
74	Use of polymer mats in series for sequential reactive barrier remediation of ammonium-contaminated groundwater: laboratory column evaluation. <i>Environmental Science & Technology</i> , 2002 , 36, 3439-45	10.3	31
73	In situ chemical analysis of modern organic tattooing inks and pigments by micro-Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 1227-1237	2.3	29
72	Polysilanes: Photochemistry and deep UV lithography. <i>Polymer Engineering and Science</i> , 1989 , 29, 882-886	3	29
71	Electron spin resonance investigation of Sc ⁺² in neon matrices and assignment of its ground electronic state as X 4 Σ . Comparison with theoretical calculations. <i>Journal of Chemical Physics</i> , 1993 , 99, 7376-7383	3.9	28
70	The role of the periplasmic loop residue glutamine 65 for MscL mechanosensitivity. <i>European Biophysics Journal</i> , 2005 , 34, 403-12	1.9	25
69	Long-range spin density propagation in saturated hydrocarbons: 3-[n]staffyl radicals. <i>Journal of the American Chemical Society</i> , 1992 , 114, 10631-10637	16.4	25
68	Electron spin resonance and theoretical studies of the PO ₂ and AsO ₂ radicals in neon matrices at 4 K: Laser vaporization and x-irradiation radical generation techniques. <i>Journal of Chemical Physics</i> , 1995 , 103, 497-505	3.9	24
67	Augmentation of monocyte intracellular ascorbate in vitro protects cells from oxidative damage and inflammatory responses. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 345, 1039-43	3.4	22
66	Solution photochemistry of poly(di-n-alkylsilanes). An EPR-ENDOR study of the structure of the persistent radicals. <i>Journal of the American Chemical Society</i> , 1991 , 113, 2003-2010	16.4	22
65	Inspiration from old dyes: tris(stilbene) compounds as potent gram-positive antibacterial agents. <i>Chemistry - A European Journal</i> , 2013 , 19, 17980-8	4.8	21
64	Matrix-Isolation ESR Studies of the Various Isotopomers of the CH ₃ Zn and ZnH Radicals: Comparisons with ab Initio Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 3528-3536	2.8	21
63	Synthesis, electrical conductivity and electron paramagnetic resonance spectroscopy of polymers derived from NOPF ₆ -doped XYZ-triheterocycles based on pyrrole, furan and thiophene. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1993 , 1081		21
62	Identification of the water amidogen radical complex. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1358-9	16.4	19

61	Use of polymer mats in series for sequential reactive barrier remediation of ammonium-contaminated groundwater: field evaluation. <i>Environmental Science & Technology</i> , 2004 , 38, 6846-54	10.3	19
60	An electron spin resonance investigation of the $^{12}\text{C}^{11}\text{B}^{12}\text{C}$, $^{12}\text{C}^{11}\text{B}^{13}\text{C}$, and $^{13}\text{C}^{11}\text{B}^{13}\text{C}$ radicals in neon, argon, and krypton matrices: Comparison with ab initio calculations. <i>Journal of Chemical Physics</i> , 1996 , 104, 4927-4936	3.9	19
59	EPR-ENDOR spectroscopy of matrix-isolated ammonia(1+) and methyl radicals. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 2674-2679		19
58	Fate of N-nitrosodimethylamine in recycled water after recharge into anaerobic aquifer. <i>Water Research</i> , 2012 , 46, 1260-72	12.5	18
57	Anion photoelectron spectroscopy and ab initio calculations of the gas phase chloride-carbon monoxide complex: Cl^-CO . <i>Chemical Physics Letters</i> , 2011 , 504, 13-19	2.5	18
56	A comparative evaluation of the photocatalytic and optical properties of nanoparticulate ZnO synthesised by mechanochemical processing. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 243-248	2.3	18
55	Infrared identification of matrix isolated $\text{H}_2\text{O}\cdot\text{O}_2$. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 4274-9	2.8	18
54	Optical and photocatalytic properties of nanoparticulate $(\text{TiO}_2)_x(\text{ZnO})_{1-x}$ powders. <i>Journal of Alloys and Compounds</i> , 2010 , 489, L17-L21	5.7	17
53	Fate of benzotriazole and 5-methylbenzotriazole in recycled water recharged into an anaerobic aquifer: column studies. <i>Water Research</i> , 2015 , 70, 184-95	12.5	16
52	Fate of N-nitrosomorpholine in an anaerobic aquifer used for managed aquifer recharge: a column study. <i>Water Research</i> , 2011 , 45, 2550-60	12.5	16
51	Optical and photocatalytic properties of nanocrystalline TiO_2 synthesised by solid-state chemical reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 2341-2348	3.9	16
50	Oxidized adrenodoxin acts as a competitive inhibitor of cytochrome P450 _{scc} in mitochondria from the human placenta. <i>FEBS Journal</i> , 2001 , 268, 2338-43		16
49	A comparison of common swabbing materials for the recovery of organic and inorganic explosive residues. <i>Journal of Forensic Sciences</i> , 2013 , 58, 757-63	1.8	15
48	Origin of a mixed brominated ethene groundwater plume: contaminant degradation pathways and reactions. <i>Environmental Science & Technology</i> , 2007 , 41, 1352-8	10.3	15
47	Neon and argon matrix ESR and theoretical studies of the $^{12}\text{CH}_3\text{Cd}$, $^{12}\text{CD}_3\text{Cd}$, $^{13}\text{CH}_3\text{Cd}$, $^{12}\text{CH}_3^{111}\text{Cd}$, and $^{12}\text{CH}_3^{113}\text{Cd}$ radicals. <i>Journal of Chemical Physics</i> , 1999 , 110, 3398-3410	3.9	15
46	Laser vaporization generation of the diatomic radicals PdB , ^{105}PdB , PdAl , and $^{105}\text{PdAl}$: Electron spin resonance investigation in neon matrices at 4 K. <i>Journal of Chemical Physics</i> , 1992 , 97, 2987-2995	3.9	15
45	Benzotriazole and 5-methylbenzotriazole in recycled water, surface water and dishwashing detergents from Perth, Western Australia: analytical method development and application. <i>Environmental Sciences: Processes and Impacts</i> , 2015 , 17, 448-57	4.3	14
44	Effects of increasing acidity on metal(loid) bioprecipitation in groundwater: column studies. <i>Environmental Science & Technology</i> , 2007 , 41, 7131-7	10.3	14

43	Iron in soil kaolins from Indonesia and Western Australia. <i>Clay Minerals</i> , 2002 , 37, 671-685	1.3	14
42	Matrix-isolation investigation of the diatomic anion radicals of aluminum and gallium (Al ₂ ⁻ and Ga ₂ ⁻) An electron spin resonance and ab initio theoretical study. <i>Journal of Chemical Physics</i> , 2001 , 115, 4632-4639	3.9	13
41	Synthesis and Langmuir-Blodgett film properties of some bifunctional TTF derivatives. <i>Synthetic Metals</i> , 1992 , 52, 131-146	3.6	13
40	The Synthesis of Fluorescent DNA Intercalator Precursors through Efficient Multiple Heck Reactions. <i>Australian Journal of Chemistry</i> , 2011 , 64, 316	1.2	12
39	Breath Level Acetone Discrimination Through Temperature Modulation of a Hierarchical ZnO Gas Sensor 2017 , 1, 1-4		11
38	Electron spin resonance studies of P ₂ H ⁺ and PH ₃ radical cations in rare gas matrices at 4 K. Comparison with theoretical calculations. <i>Journal of Chemical Physics</i> , 1993 , 99, 7384-7392	3.9	11
37	Matrix Isolated HgCH ₃ Radical: An ESR Investigation. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 4619-4628	2.8	10
36	Neon Matrix Isolation Electron Spin Resonance and Theoretical Studies of the Various Isotopomers of the CH ₃ Mg Radical. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 8872-8881	2.8	10
35	Laser vaporization generation of Y ¹⁰ B ⁺ , Y ¹¹ B ⁺ , and YAl ⁺ for electron spin resonance studies in neon matrices at 4 K: Comparison with theoretical calculations. <i>Journal of Chemical Physics</i> , 1993 , 98, 4404-4412	3.9	10
34	New conducting polymers: PF ₆ -doped XYZ-triheterocycles based on X, Y, Z= thiophene, furan and n-methylpyrrole. <i>Synthetic Metals</i> , 1993 , 55, 948-953	3.6	10
33	Anion photoelectron spectroscopy and high level ab initio calculations of the halide-acetylene dimer complexes. <i>Chemical Physics Letters</i> , 2015 , 619, 241-246	2.5	9
32	Halide-Nitrogen Gas-Phase Clusters: Anion Photoelectron Spectroscopy and High Level ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 9722-8	2.8	9
31	Formation of methanol from methane and water in an electrical discharge. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3444-9	3.6	9
30	Matrix isolation ESR and theoretical studies of metal phosphides. <i>Journal of Chemical Physics</i> , 2010 , 133, 164311	3.9	9
29	Anion photoelectron spectroscopy and CCSD(T) calculations of the Cl ₂ N ₂ complex. <i>Chemical Physics Letters</i> , 2016 , 654, 119-124	2.5	9
28	Spectrum of antibacterial activity and mode of action of a novel tris-stilbene bacteriostatic compound. <i>Scientific Reports</i> , 2018 , 8, 6912	4.9	8
27	Zero valent iron remediation of a mixed brominated ethene contaminated groundwater. <i>Journal of Contaminant Hydrology</i> , 2009 , 103, 109-18	3.9	8
26	The Structure of CCl in the Gas Phase. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5338-5342	6.4	7

25	Exploring the Catalytic Reactivity of Nickel Phosphine-Phosphite Complexes. <i>Australian Journal of Chemistry</i> , 2015 , 68, 1842	1.2	7
24	Solar irradiation of the seed germination stimulant karrikinolide produces two novel head-to-head cage dimers. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 4069-73	3.9	7
23	Anion photoelectron spectra and ab initio calculations of the iodide-carbon monoxide clusters: I(-)(CO)(n), n = 1-4. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3577-84	2.8	7
22	A comparison of solvent extract cleanup procedures in the analysis of organic explosives. <i>Journal of Forensic Sciences</i> , 2013 , 58, 500-7	1.8	7
21	The Bromide - Carbon Monoxide Gas Phase Complex: Anion Photoelectron Spectroscopy and Ab Initio Calculations. <i>Australian Journal of Chemistry</i> , 2012 , 65, 457	1.2	7
20	An investigation into the fate of organic explosives in soil. <i>Australian Journal of Forensic Sciences</i> , 2013 , 45, 71-84	1.1	6
19	The CH ₃ CHOO ⁻ trigee intermediate and its anion: Isomers, infrared spectra, and W3-F12 energetics. <i>Chemical Physics Letters</i> , 2015 , 621, 193-198	2.5	5
18	Characterisation of gas phase halide-acetone complexes with photoelectron spectroscopy and ab initio calculations. <i>Journal of Molecular Spectroscopy</i> , 2019 , 364, 111178	1.3	5
17	Estimation of ethanol mass delivery to groundwater from silicone polymer mats. <i>Environmental Science & Technology</i> , 2007 , 41, 5453-9	10.3	5
16	Evidence For a Water-Stabilised Ion Radical Complex: Photoelectron Spectroscopy and Ab Initio Calculations. <i>Australian Journal of Chemistry</i> , 2020 , 73, 693	1.2	5
15	Photoelectron Spectroscopy and Structures of X-CH ₂ O (X=F, Cl, Br, I) Complexes. <i>ChemPhysChem</i> , 2021 , 22, 69-75	3.2	5
14	Asymmetric halogen dioxides: High level calculations and anion photoelectron spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2020 , 372, 111320	1.3	4
13	A matrix isolation ESR and theoretical study of MgN. <i>Journal of Chemical Physics</i> , 2017 , 147, 044307	3.9	4
12	Magnetic Studies of Metal Ion Coordination Clusters Encapsulated with Thiacalixarene. <i>Australian Journal of Chemistry</i> , 2014 , 67, 1588	1.2	4
11	The bromide-bromomethyl radical dimer complex: Anion photoelectron spectroscopy and CCSD(T) calculations. <i>Chemical Physics Letters</i> , 2020 , 761, 138060	2.5	4
10	Spectroscopic Investigation of Chalcogen Bonding: Halide-Carbon Disulfide Complexes. <i>ChemPhysChem</i> , 2021 , 22, 808-812	3.2	4
9	Towards an Understanding of Halide Interactions with the Carbonyl-Containing Molecule CH ₂ CHO. <i>ChemPhysChem</i> , 2021 , 22, 1316-1320	3.2	3
8	Synthesis and Photocatalytic Activity of Doped Zinc Oxide Nanoparticles 2006 ,		2

- 7 Matrix Isolation ESR and Theoretical Study of ZnN. *Journal of Physical Chemistry A*, **2019**, 123, 3709-3717 2.8 1
- 6 Anion Photoelectron Spectroscopy and High Level Ab Initio Calculations of the Halide-Nitric Oxide Dimer Complexes. *Australian Journal of Chemistry*, **2018**, 71, 265 1.2 1
- 5 A matrix isolation ESR investigation of Mg-N. *Journal of Chemical Physics*, **2019**, 150, 184310 3.9 1
- 4 A matrix isolation ESR investigation of the MgCH radical. *Journal of Chemical Physics*, **2019**, 151, 124304 3.9 1
- 3 Halides and the Carbon-Carbon Double Bond: Interactions of Ethylene with Bromide and Iodide. *Chemical Physics Letters*, **2022**, 139433 2.5 1
- 2 The simplest sulfur-nitrogen hydrogen bond: Matrix isolation spectroscopy of H₂S-NH₃. *Journal of Molecular Spectroscopy*, **2021**, 378, 111440 1.3 1
- 1 Reply to JO Lundberg. *American Journal of Clinical Nutrition*, **2009**, 89, 652-653 7