

# Philippe Barrie Wilson

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

731  
citations

687220

13  
h-index

552653

26  
g-index

44  
all docs

44  
docs citations

44  
times ranked

985  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ruthenium(II)-Catalyzed C-H Functionalization Using the Oxazolidinone Heterocycle as a Weakly Coordinating Directing Group: Experimental and Computational Insights. ACS Catalysis, 2016, 6, 5520-5529.	5.5	87
2	Application of mesoporous silica nanoparticles as drug delivery carriers for chemotherapeutic agents. Drug Discovery Today, 2020, 25, 1513-1520.	3.2	83
3	Progress in low-field benchtop NMR spectroscopy in chemical and biochemical analysis. Analytica Chimica Acta, 2019, 1067, 11-30.	2.6	82
4	Potential Adverse Public Health Effects Afforded by the Ingestion of Dietary Lipid Oxidation Product Toxins: Significance of Fried Food Sources. Nutrients, 2020, 12, 974.	1.7	71
5	Low-Field, Benchtop NMR Spectroscopy as a Potential Tool for Point-of-Care Diagnostics of Metabolic Conditions: Validation, Protocols and Computational Models. High-Throughput, 2019, 8, 2.	4.4	60
6	Recent advances in avian egg science: A review. Poultry Science, 2017, 96, 3747-3754.	1.5	51
7	Q6: A comprehensive toolkit for empirical valence bond and related free energy calculations. SoftwareX, 2018, 7, 388-395.	1.2	47
8	G-Protein coupled receptors: structure and function in drug discovery. RSC Advances, 2020, 10, 36337-36348.	1.7	29
9	Benchtop Low-Frequency 60 MHz NMR Analysis of Urine: A Comparative Metabolomics Investigation. Metabolites, 2020, 10, 155.	1.3	23
10	Dynamic Quantum Sensing of Paramagnetic Species Using Nitrogen-Vacancy Centers in Diamond. ACS Sensors, 2020, 5, 703-710.	4.0	22
11	Benchtop NMR Spectroscopy and Spectral Analysis of the <i>cis</i> - and <i>trans</i> -Stilbene Products of the Wittig Reaction. Journal of Chemical Education, 2019, 96, 1938-1947.	1.1	18
12	Influence of Equatorial CH <sub>2</sub> ...O Interactions on Secondary Kinetic Isotope Effects for Methyl Transfer. Angewandte Chemie - International Edition, 2016, 55, 3192-3195.	7.2	15
13	Solvent Effects on Isotope Effects: Methyl Cation as a Model System. Journal of Physical Chemistry B, 2015, 119, 802-809.	1.2	13
14	Structure-activity modelling of essential oils, their components, and key molecular parameters and descriptors. Molecular and Cellular Probes, 2018, 38, 25-30.	0.9	13
15	Metabolomic Studies of Lipid Storage Disorders, with Special Reference to Niemann-Pick Type C Disease: A Critical Review with Future Perspectives. International Journal of Molecular Sciences, 2020, 21, 2533.	1.8	13
16	Self-Assembled Anion-Binding Cryptand for the Selective Liquid-Liquid Extraction of Phosphate Anions. Angewandte Chemie - International Edition, 2020, 59, 20480-20484.	7.2	12
17	Teaching Analytical Chemistry to Pharmacy Students: A Combined, Iterative Approach. Journal of Chemical Education, 2018, 95, 47-54.	1.1	11
18	Evaluations of the Peroxidative Susceptibilities of Cod Liver Oils by a 1H NMR Analysis Strategy: Peroxidative Resistivity of a Natural Collagenous and Biogenic Amine-Rich Fermented Product. Nutrients, 2020, 12, 753.	1.7	11

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19	Critical evaluation of anharmonic corrections to the equilibrium isotope effect for methyl cation transfer from vacuum to dielectric continuum. <i>Molecular Physics</i> , 2015, 113, 1704-1711.	0.8	10
20	SULISO: The Bath suite of vibrational characterization and isotope effect calculation software. <i>SoftwareX</i> , 2017, 6, 1-6.	1.2	8
21	Genetic analysis of the endangered Cleveland Bay horse: A century of breeding characterised by pedigree and microsatellite data. <i>PLoS ONE</i> , 2020, 15, e0240410.	1.1	6
22	Molecular Composition of and Potential Health Benefits Offered by Natural East African Virgin Sunflower Oil Products: A 400 MHz <sup>1</sup> H NMR Analysis Study. <i>International Journal of Nutrition</i> , 2019, 3, 22-43.	0.8	6
23	NMR-based metabolomics associated with chronic kidney disease in humans and animals: a one health perspective. <i>Molecular and Cellular Biochemistry</i> , 2021, 476, 4133-4137.	1.4	5
24	16 Years of breed management brings substantial improvement in population genetics of the endangered Cleveland Bay Horse. <i>Ecology and Evolution</i> , 2021, 11, 14555-14572.	0.8	5
25	A computational study of the influence of methyl substituents on competitive ring closure to $\beta$ - and $\gamma$ -lactones. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 7235-7240.	1.5	4
26	Characterization of yellow root cassava and food products: investigation of cyanide and $\beta$ -carotene concentrations. <i>BMC Research Notes</i> , 2020, 13, 333.	0.6	4
27	Mitochondrial D-loop sequence variation and maternal lineage in the endangered Cleveland Bay horse. <i>PLoS ONE</i> , 2020, 15, e0243247.	1.1	4
28	Preliminary demonstration of benchtop NMR metabolic profiling of feline urine: chronic kidney disease as a case study. <i>BMC Research Notes</i> , 2021, 14, 469.	0.6	4
29	Errors in DFT integration grids and their potential impact on chemical shift calculations. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 116-117.	1.1	3
30	Influence of Equatorial CH <sub>2</sub> ...O Interactions on Secondary Kinetic Isotope Effects for Methyl Transfer. <i>Angewandte Chemie</i> , 2016, 128, 3244-3247.	1.6	2
31	Computational Modeling of a Caged Methyl Cation: Structure, Energetics, and Vibrational Analysis. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1432-1438.	1.1	2
32	Minireview: Applications of NMR-based metabolomics for the detection and characterisation of toxoplasmosis in felids. <i>Analytical Science Advances</i> , 2021, 2, 295-298.	1.2	1
33	Mitochondrial D-loop sequence variation and maternal lineage in the endangered Cleveland Bay horse. , 2020, 15, e0243247.		0
34	Mitochondrial D-loop sequence variation and maternal lineage in the endangered Cleveland Bay horse. , 2020, 15, e0243247.		0
35	Mitochondrial D-loop sequence variation and maternal lineage in the endangered Cleveland Bay horse. , 2020, 15, e0243247.		0
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37	Mitochondrial D-loop sequence variation and maternal lineage in the endangered Cleveland Bay horse. , 2020, 15, e0243247.		0
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