

D Scott Bohle

List of Publications by Year in descending order

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112
papers

3,218
citations

201674

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all docs

118
docs citations

118
times ranked

3588
citing authors

#	ARTICLE	IF	CITATIONS
1	The structure of malaria pigment δ^2 -haematin. <i>Nature</i> , 2000, 404, 307-310.	27.8	821
2	Copper-catalyzed Highly Regioselective Oxidative C-H Bond Amidation of 2-Arylpyridine Derivatives and 1-Methylindoles. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 632-636.	4.3	177
3	Characterization of the Products of the Heme Detoxification Pathway in Malarial Late Trophozoites by X-ray Diffraction. <i>Journal of Biological Chemistry</i> , 1997, 272, 713-716.	3.4	147
4	Cationic and Anionic Surface Binding Sites on Nanocrystalline Zinc Oxide: Surface Influence on Photoluminescence and Photocatalysis. <i>Journal of the American Chemical Society</i> , 2009, 131, 4397-4404.	13.7	123
5	Biomimetic Synthesis of the Putative Cytotoxin Peroxynitrite, ONOO-, and Its Characterization as a Tetramethylammonium Salt. <i>Journal of the American Chemical Society</i> , 1994, 116, 7423-7424.	13.7	121
6	Metal Oxidation Promoted C-H Activation in Manganese Complexes of N-Confused Porphyrin. <i>Inorganic Chemistry</i> , 2002, 41, 3334-3336.	4.0	78
7	The Relationship of Oxygen Binding and Peroxide Sites and the Fluorescent Properties of Zinc Oxide Semiconductor Nanocrystals. <i>Journal of the American Chemical Society</i> , 2007, 129, 12380-12381.	13.7	71
8	An Umpolung Approach to α -Hyponitrite Complexes. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2371-2373.	13.8	69
9	Aggregated Heme Detoxification Byproducts in Malarial Trophozoites: δ^2 -Hematin and Malaria Pigment Have a Single $S = 5/2$ Iron Environment in the Bulk Phase as Determined by EPR and Magnetic Mössbauer Spectroscopy. <i>Journal of the American Chemical Society</i> , 1998, 120, 8255-8256.	13.7	61
10	Synthesis and Axial Ligand Substitution Chemistry of Ru(TTP)(NO)X. Structures of Ru(TTP)(NO)X (X =) Tj ETQq0 0 0 rrgBT /Overlock 10 T	4.6	60
11	Do Mammalian Cells Really Need to Export and Import Heme?. <i>Trends in Biochemical Sciences</i> , 2017, 42, 395-406.	7.5	57
12	Phase homogeneity and crystal morphology of the malaria pigment δ^2 -hematin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1752-1756.	2.5	44
13	Terminal phosphido complexes of ruthenium(II) and osmium(II): synthesis, reactivity, and crystal structures of Os(PHPh)Cl(CO)2(PPh3)2 and Os{PH(OMe)Ph}(CO)2(PPh3)2. <i>Organometallics</i> , 1986, 5, 1612-1619.	2.3	41
14	Stable terminal methylene complexes of osmium(II) and ruthenium(II). The unexpected preferential migration of α -aryl ligand to carbon monoxide rather than to methylene. <i>Journal of Organometallic Chemistry</i> , 1988, 358, 411-447.	1.8	41
15	Nucleophilic Addition of Hydroxylamine, Methoxylamine, and Hydrazine to Malononitrileoxime. <i>Journal of Organic Chemistry</i> , 2000, 65, 1139-1143.	3.2	40
16	When Push Comes to Shove: Unravelling the Mechanism and Scope of Nonemissive $\langle i \rangle$ meso $\langle /i \rangle$ -Unsaturated BODIPY Dyes. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4758-4765.	2.6	40
17	Synthesis and Characterization of Isostructural Metalloporphyrin Chalconitrosyl Complexes Ru(TTP)(NE)Cl (E = O, S) and a Remarkable Thionitrosyl/Nitrite $\hat{\alpha}$ ' Nitrosyl/Thiazate Transformation. <i>Inorganic Chemistry</i> , 1997, 36, 1992-1993.	4.0	39
18	Synthesis and Characterization of Alkylammonium Hyponitrites and Base-Stabilized Hyponitrous Acid Salts. <i>Inorganic Chemistry</i> , 1999, 38, 2716-2725.	4.0	39

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19	An Overview of the Potential Therapeutic Applications of CO-Releasing Molecules. <i>Bioinorganic Chemistry and Applications</i> , 2018, 2018, 1-23.	4.1	38
20	Multi-Frequency High-Field EPR Study of Iron Centers in Malarial Pigments. <i>Journal of the American Chemical Society</i> , 2006, 128, 4534-4535.	13.7	37
21	Chemistry of the Diazeniumdiolates. O- versus N-Alkylation of the RNH[N(O)NO]-Ion. <i>Journal of the American Chemical Society</i> , 2004, 126, 12880-12887.	13.7	33
22	Effects of Inorganic Arsenic, Methylated Arsenicals, and Arsenobetaine on Atherosclerosis in the apoE ^{-/-} Mouse Model and the Role of As3mt-Mediated Methylation. <i>Environmental Health Perspectives</i> , 2017, 125, 077001.	6.0	33
23	Structural and Spectroscopic Studies of Fe^2 -Hematin (the Heme Coordination Polymer in Malaria) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	0.5	32
24	Synthesis and Thermal Decomposition Studies of New Nitroso- and Nitrodiacyanomethanide Salts. <i>Inorganic Chemistry</i> , 1999, 38, 2709-2715.	4.0	32
25	Salicylaldiminato Derivatives of Cyclotrimeratrylene: A Flexible Strategy for New Rim-Metalated CTV Complexes. <i>Inorganic Chemistry</i> , 2000, 39, 5768-5770.	4.0	31
26	Synthesis, Structure, and Stereochemistry of Double-Chain Surfactant Co(III) Complexes. <i>Inorganic Chemistry</i> , 2001, 40, 836-842.	4.0	29
27	Controlled Co(II) Doping of Zinc Oxide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18139-18145.	3.1	28
28	Structure of Malaria Pigment and Related Propanoate-Linked Metalloporphyrin Dimers. <i>Chemistry and Biodiversity</i> , 2012, 9, 1891-1902.	2.1	28
29	Orienting the heterocyclic periphery: a structural model for chloroquine's antimalarial activity. <i>Chemical Communications</i> , 2014, 50, 13765-13768.	4.1	28
30	Crystal Structure Analysis of the Repair of Iron Centers Protein YtfE and Its Interaction with NO. <i>Chemistry - A European Journal</i> , 2016, 22, 9768-9776.	3.3	28
31	Group 8 and 10 hyponitrite and dinitrosyl complexes. <i>Polyhedron</i> , 2007, 26, 4737-4745.	2.2	27
32	Terminal methylene complexes of ruthenium(II) and osmium(II) and intramolecular methylene and acyl ligand combination to form metallaoxetenes: the crystal structures of $[\text{OsCl}(\text{1-2-C}[\text{O}]\text{-o-tolyl})(\text{1-CH}_2)(\text{PPh}_3)_2]$ and $[\text{Ru}(\text{1-C}[\text{Ph}]\text{OCH}_2)(\text{CN-p-tolyl})_2(\text{PPh}_3)_2]\text{ClO}_4$. <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 563-565.	2.0	26
33	The Novel Arsenical Darinaparsin Is Transported by Cystine Importing Systems. <i>Molecular Pharmacology</i> , 2014, 85, 576-585.	2.3	26
34	<i>i>E</i>/<i>Z</i> Oxime Isomerism in PhC(NO)CN. <i>Chemistry - A European Journal</i>, 2013, 19, 4223-4229.</i>	3.3	25
35	Synthesis and Characterization of Nickel(II) Bis(alkylthio)salen Complexes. <i>Inorganic Chemistry</i> , 2000, 39, 712-718.	4.0	24
36	A Surfactant Transition Metal Chelate. <i>Langmuir</i> , 2003, 19, 4859-4862.	3.5	24

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37	Autofluorescence of Condensed Heme Aggregates in Malaria Pigment and Its Synthetic Equivalent Hematin Anhydride (\hat{I}^2 -Hematin). <i>Journal of Physical Chemistry B</i> , 2009, 113, 8391-8401.	2.6	23
38	Reversible and Irreversible Hemichrome Generation by the Oxygenation of Nitrosylmyoglobin. <i>Biochemistry</i> , 1999, 38, 4750-4756.	2.5	22
39	Synthetic routes to terminal phosphido complexes of Group VIII (8) metals: neutral and cationic complexes of phenyl- and diphenylphosphine. <i>Organometallics</i> , 1986, 5, 1607-1611.	2.3	21
40	Cyclohexadienone Diazeniumdiolates from Nitric Oxide Addition to Phenolates. <i>Journal of Organic Chemistry</i> , 2000, 65, 5685-5692.	3.2	21
41	Phosphine (PH ₃) complexes of ruthenium, osmium and iridium as precursors of terminal phosphido (PH ₂) complexes and the crystal structure of [Os($\hat{I}^{1/2}$ -PH ₂) Cl(CO) (PPh ₃) ₂] ₂ · (C ₂ H ₂ Cl ₄) ₄ . <i>Journal of Organometallic Chemistry</i> , 1988, 348, 385-409.	1.8	20
42	Soluble Synthetic Analogues of Malaria Pigment: Structure of Mesohematin Anhydride and its Interaction with Chloroquine in Solution. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6151-6154.	13.8	20
43	Propionic acid side chain hydrogen bonding in the malaria pigment \hat{I}^2 -hematin. <i>Biochemical and Biophysical Research Communications</i> , 2002, 294, 132-135.	2.1	19
44	Understanding Chloroquine Action at the Molecular Level in Antimalarial Therapy: X-ray Absorption Studies in Dimethyl Sulfoxide Solution. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1145-1150.	2.6	19
45	Spectroscopic and Theoretical Studies of Ga(III)protoporphyrin-IX and Its Reactions with Myoglobin. <i>Inorganic Chemistry</i> , 2012, 51, 3743-3753.	4.0	19
46	[Gallium(III) protoporphyrin IX] ₂ : A Soluble Diamagnetic Model for Malaria Pigment. <i>Inorganic Chemistry</i> , 2012, 51, 4411-4413.	4.0	19
47	Correlation of the Product E/Z Framework Geometry and O/O vs O/N Regioselectivity in the Dialkylation of Hyponitrite. <i>Journal of the American Chemical Society</i> , 2000, 122, 5539-5549.	13.7	18
48	Multiplicity Control in the Polygeminal Diazeniumdiolation of Active Hydrogen Bearing Carbons: Chemistry of a New Type of Trianionic Molecular Propeller. <i>Journal of the American Chemical Society</i> , 2001, 123, 10860-10869.	13.7	17
49	Soluble Diamagnetic Model for Malaria Pigment: Coordination Chemistry of Gallium(III)protoporphyrin-IX. <i>Inorganic Chemistry</i> , 2012, 51, 10747-10761.	4.0	17
50	Traube's Oxazomalonic Acid is a 3-Hydroxysydnone Carboxylate with an E-ONNO Geometry This research was supported by the Airforce Office of Scientific Research and the National Institutes of Health. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2089.	13.8	16
51	Chemistry of the Diazeniumdiolates: Isomerism. <i>Journal of the American Chemical Society</i> , 2005, 127, 5388-5395.	13.7	16
52	Kinetics and Mechanism of Nucleophilic Addition to Nitric Oxide: Secondary Amine Diazeniumdiolation. <i>Inorganic Chemistry</i> , 2008, 47, 3925-3927.	4.0	16
53	Main Group Compounds. <i>Inorganic Syntheses</i> , 2004, , 1-48.	0.3	15
54	A New Synthetic Route to 3-Oxo-4-amino-1,2,3-oxadiazole from the Diazeniumdiolation of Benzyl Cyanide: Stable Sydnone Iminium N-Oxides. <i>Journal of Organic Chemistry</i> , 2009, 74, 1621-1626.	3.2	15

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55	Accumulation of persistent tungsten in bone as in situ generated polytungstate. <i>Communications Chemistry</i> , 2018, 1, .	4.5	15
56	Generation of a Mn(IV)â€“Peroxo or Mn(III)â€“Oxoâ€“Mn(III) Species upon Oxygenation of Mono- and Binuclear Thiolate-Ligated Mn(II) Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 10559-10569.	4.0	14
57	The reversible hydration of the malaria pigment Î²-hematin. <i>Canadian Journal of Chemistry</i> , 2003, 81, 1285-1291.	1.1	13
58	Chelating the Surface of Zinc in Zinc Oxide Nanocrystals: Spectroscopic Characterization of ZnO Surface-Bound Eriochrome Black T and 8-Hydroxyquinoline. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14435-14439.	3.1	12
59	Seven-Membered Ring Nucleoside Analogues: Stereoselective Synthesis and Studies on Their Conformational Properties. <i>Organic Letters</i> , 2015, 17, 5416-5419.	4.6	12
60	Methylation of Sydnone N-Oxides: Kinetic and Thermodynamic Control in the Alkylation Site of an Electron-Rich Heterocycle. <i>Journal of Organic Chemistry</i> , 2007, 72, 3625-3631.	3.2	11
61	Addressing K/L-edge overlap in elemental analysis from micro-X-ray fluorescence: bioimaging of tungsten and zinc in bone tissue using synchrotron radiation and laser ablation inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 259-265.	3.7	11
62	Synthesis of Diazeniumdiolates from the Reactions of Nitric Oxide with Enolates. <i>Journal of Organic Chemistry</i> , 2006, 71, 572-581.	3.2	10
63	Anhydrous Dinitrogen Trioxide Solutions for Brønsted Acid Free Nitrous Acid Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5461-5465.	2.0	9
64	Sex-Specific Effects of Prenatal and Early Life Inorganic and Methylated Arsenic Exposure on Atherosclerotic Plaque Development and Composition in Adult ApoE ^{-/-} Mice. <i>Environmental Health Perspectives</i> , 2021, 129, 57008.	6.0	9
65	Permethylated Salts and Radicals Derived from Azoâ€“Naphthalenes. <i>ChemPlusChem</i> , 2012, 77, 387-395.	2.8	8
66	Iridium(I) Complexes of Î±-Acidic Carboxamides. <i>Organometallics</i> , 2015, 34, 1074-1084.	2.3	8
67	What is pure hemozoin? A close look at the surface of the malaria pigment. <i>Journal of Inorganic Biochemistry</i> , 2019, 194, 214-222.	3.5	8
68	Nâ€“H Activation in N-Nitropropionamide: Coordination Chemistry of a Primary Nitroamide. <i>Inorganic Chemistry</i> , 2011, 50, 3135-3140.	4.0	7
69	General Two-Step Preparation of Chalcones Containing Thiazole. <i>Journal of Heterocyclic Chemistry</i> , 2012, 49, 768-773.	2.6	7
70	Facile Ni ^{II} Activation in Benzotriazole: Capturing the Dimroth Azo/Triazole Intermediate by Complexation to Iridium. <i>ChemPlusChem</i> , 2013, 78, 1304-1310.	2.8	7
71	Radical Dinitroalkane Dianions from the Nitration of Nitroalkanes by Peroxynitrite. <i>Chemical Research in Toxicology</i> , 2000, 13, 963-966.	3.3	6
72	Chemistry of the potassium, silver, and tetra(n-butyl)ammonium salts of sydnone N-oxide (Traube's) <i>Tetrahedron Letters</i> , 1961, 2, 101-102.	9.1	6

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73	Activation of Nitrogen Brønsted Acids: Synthesis and Reactivity of a New Class of Nitrogen Acid Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 11160-11172.	4.0	6
74	Nitric Oxide Catalysis of Diazene E/Z Isomerization. <i>Inorganic Chemistry</i> , 2015, 54, 7145-7151.	4.0	6
75	Surface Characterization of Hematin Anhydride: A Comparison between Two Different Synthesis Methods. <i>Langmuir</i> , 2016, 32, 4479-4484.	3.5	6
76	Topical combination of meldonium and N-acetyl cysteine relieves allodynia in rat models of CRPS and peripheral neuropathic pain by enhancing NO-mediated tissue oxygenation. <i>Journal of Neurochemistry</i> , 2020, 152, 570-584.	3.9	6
77	Electronic structure of S-nitrosothiols from sulfur K-edge X-ray absorption spectroscopy. <i>Canadian Journal of Chemistry</i> , 2011, 89, 93-97.	1.1	5
78	3-Halo Chloroquine Derivatives Overcome Plasmodium falciparum Chloroquine Resistance Transporter-Mediated Drug Resistance in P. falciparum. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 7891-7893.	3.2	5
79	Homochiral crystal generation via sequential dehydration and Viedma ripening. <i>CrystEngComm</i> , 2016, 18, 4277-4280.	2.6	5
80	Solution and Solid State Correlations of Antimalarial Drug Actions: NMR and Crystallographic Studies of Drug Interactions with a Heme Model. <i>Inorganic Chemistry</i> , 2017, 56, 7803-7810.	4.0	5
81	Coordination Chemistry of the Parent Dithiocarbamate H_2NCS_2 : Organometallic Chemistry and Tris-Chelates of Group 9 Metals. <i>Inorganic Chemistry</i> , 2022, 61, 4660-4672.	4.0	5
82	Decarboxylation and ring fragmentation reactions of sydnone N-oxides. <i>Tetrahedron Letters</i> , 2008, 49, 4550-4552.	1.4	4
83	3-Iodo-4-aminoquinoline derivative sensitises resistant strains of Plasmodium falciparum to chloroquine. <i>International Journal of Antimicrobial Agents</i> , 2016, 47, 482-485.	2.5	4
84	Structural and spectroscopic trends in the phosphine Os(II) complexes $OsHCl(CO)(L)(PPh_3)_2$. <i>Journal of Molecular Structure</i> , 2019, 1192, 252-257.	3.6	4
85	2,3,5-Metallotriazoles: Amphoteric Mesoionic Chelates from Nitrosoguanidines. <i>Inorganic Chemistry</i> , 2021, 60, 9621-9630.	4.0	4
86	Separation of Isomers and Mechanisms of Inversion of Stereochemistry of Group 9 d^6 Tris-Chelate Complexes of Hinokitiol. <i>Inorganic Chemistry</i> , 2021, 60, 13567-13577.	4.0	4
87	Lewis acid stabilization and activation of primary N-nitrosamides. <i>RSC Advances</i> , 2017, 7, 8205-8219.	3.6	3
88	Quantification of local zinc and tungsten deposits in bone with LA-ICP-MS using novel hydroxyapatite-collagen calibration standards. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2431-2438.	3.0	3
89	Fluxionality in the Tropolone Hinokitiol Chelate. <i>Inorganic Chemistry</i> , 2021, 60, 3305-3313.	4.0	3
90	Novel β -galactosidase-specific O ₂ -glycosylated diazeniumdiolate probes. <i>Canadian Journal of Chemistry</i> , 2010, 88, 969-980.	1.1	2

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91	E versus Z Diazeniumdiolation of Acetoacetate-Derived Carbanions. <i>Journal of Organic Chemistry</i> , 2012, 77, 7313-7318.	3.2	2
92	Synthesis of reduction-sensitive 1,1-diarylhydrazines from 1,1-diarylamines. <i>Canadian Journal of Chemistry</i> , 2014, 92, 904-912.	1.1	2
93	Synthesis, Structure, and Conformational Analysis of Nucleoside Analogues Comprising Six-Membered 1,3-Oxathiane Sugar Rings. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 1945-1953.	2.4	2
94	Extended structure of indium(III) protoporphyrin IX acetate mimics dimer structure of hemoanhydride. <i>Polyhedron</i> , 2016, 108, 36-42.	2.2	2
95	Inorganic ions on hemozoin surface provide a glimpse into Plasmodium biology. <i>Journal of Inorganic Biochemistry</i> , 2019, 200, 110808.	3.5	2
96	Hydrating the Bispropionate Notch in Malaria Pigment: A New Structural Motif in the Iron(III)(deuteroporphyrin) Dimer. <i>Chemistry - A European Journal</i> , 2019, 25, 4373-4378.	3.3	2
97	Arsenic 3 methyltransferase (AS3MT) automethylates on cysteine residues in vitro. <i>Archives of Toxicology</i> , 2022, 96, 1371-1386.	4.2	2
98	E/Z Conformation and the Vibrational Spectroscopy of Me ₂ NN(O)NOMe. <i>Journal of Physical Chemistry A</i> , 2005, 109, 11317-11321.	2.5	1
99	The Evolution and Refinement of a Chemical Biology Training Program: A Canadian Perspective. <i>ACS Chemical Biology</i> , 2006, 1, 485-486.	3.4	1
100	Vibrational Spectroscopy Study of the Interaction of Quinoline Antimalarials with Ferriprotoporphyrin IX. , 2010, , .		1
101	Facile dimethylarsenic exchange and pyramidal inversion in its cysteine and glutathione adducts. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 2578.	2.8	1
102	Stabilizing and Activating Nitrogen Catenates. <i>Chemistry - A European Journal</i> , 2015, 21, 13739-13747.	3.3	1
103	Anions of π -Acidic N-nitrosulfonyl/carboxy Amides and Their Re Complexes. <i>ChemistrySelect</i> , 2016, 1, 2096-2101.	1.5	1
104	π -Delocalization in the vicinal lone pairs of hydrazines: Electronic effects in derivatives of 1-(2-nitrophenyl)-1-phenylhydrazine. <i>Journal of Molecular Structure</i> , 2016, 1116, 30-36.	3.6	1
105	Linkage Scrambling in Branched Chain Polymercury Compounds: Nitrides from the Mercury-Mediated Disproportionation of N ₂ O ₃ . <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 659-665.	2.0	1
106	Micro-Raman high-pressure investigation on the malaria pigment hemoanhydride (β^2 -hemoanhydride). <i>Journal of Inorganic Biochemistry</i> , 2018, 189, 180-184.	3.5	1
107	Isolable Adducts of Tertiary Amines and Dinitrogen Trioxide. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4543-4549.	2.0	1
108	Synthesis and Characterization of Chiral Dithiophosphate Diesters Based on the Tartrate Backbone; New C ₂ Symmetric Chiral Auxiliaries. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1994, 93, 459-460.	1.6	0

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109	Cover Picture: Soluble Synthetic Analogues of Malaria Pigment: Structure of Mesoheamatin Anhydride and its Interaction with Chloroquine in Solution (Angew. Chem. Int. Ed. 27/2011). Angewandte Chemie - International Edition, 2011, 50, 5973-5973.	13.8	0
110	The Light-Driven Isomerization of Aqueous Nitrate: A Theoretical Perspective. ChemPhotoChem, 2018, 2, 725-733.	3.0	0
111	The Light-Driven Isomerization of Aqueous Nitrate: A Theoretical Perspective. ChemPhotoChem, 2018, 2, 702-702.	3.0	0
112	Structural chemistry at McGill. Canadian Journal of Chemistry, 2022, 100, 234-238.	1.1	0