## R Stan Brown

## List of Publications by Year in descending order

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279798 395702 1,099 43 23 33 h-index citations g-index papers 45 45 45 666 citing authors all docs docs citations times ranked

#	Article	IF	CITATIONS
1	Cu(II)-Promoted Methanolysis of $\langle i \rangle N \langle  i \rangle, \langle i \rangle N \langle  i \rangle$ -Bis(2-picolyl)carbamates: Rate-Limiting Metal Ion Delivery of Coordinated Alcoholate Nucleophile Followed by Fast Partitioning of a Tetrahedral Intermediate. Journal of Organic Chemistry, 2015, 80, 1357-1364.	3.2	5
2	Metal Ion-Promoted Leaving Group Assistance in the Light Alcohols. Advances in Physical Organic Chemistry, 2015, 49, 1-55.	0.5	1
3	Density functional theory study of methoxide promoted and Zn <sup>(II)</sup> â€complexed methoxide promoted cleavages of aryl―and alkyl acetates in methanol. Transition from concerted to stepwise processes as a function of leaving group ability. Journal of Physical Organic Chemistry, 2014, 27, 419-429.	1.9	9
4	DFT Computational Study of the Methanolytic Cleavage of DNA and RNA Phosphodiester Models Promoted by the Dinuclear Zn(II)Complex of 1,3-Bis(1,5,9-triazacyclododec-1-yI)propane. Journal of the American Chemical Society, 2013, 135, 17209-17222.	13.7	34
5	A mechanistic study of the [La <sub>2</sub> (OCH <sub>3</sub> ) <sub>2</sub> ] <sup>4+</sup> - and [(1,5,9-triazacyclodo-decane):Zn:(OCH <sub>3</sub> )] <sup>+</sup> -catalyzed methanolysis of carbonates: possible application for the recycling of bisphenol A polycarbonates. Canadian Journal of Chemistry, 2013, 91, 1139-1146.	1.1	5
6	Development of metal-ion containing catalysts for the decomposition of phosphorothioate esters. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 433-442.	2.3	9
7	Solvent induced cooperativity of Zn( <scp>ii</scp> ) complexes cleaving a phosphatediester RNA analog in methanol. Organic and Biomolecular Chemistry, 2012, 10, 631-639.	2.8	18
8	Comparison of Cu(II)-Promoted Leaving Group Stabilization of the Cleavage of a Homologous Set of Phosphate Mono-, Di-, and Triesters in Water, Methanol, and Ethanol. Inorganic Chemistry, 2012, 51, 3846-3854.	4.0	20
9	Experimental and computational determination of Brønsted coefficients for equilibrium transfer of the ⟨i⟩O⟨ i⟩,⟨i⟩O⟨ i⟩â€dimethyl phosphorothioyl group between oxyanion nucleophiles. Journal of Physical Organic Chemistry, 2012, 25, 258-266.	1.9	6
10	Study on the Transesterification of Methyl Aryl Phosphorothioates in Methanol Promoted by $Cd(II)$ , $Mn(II)$ , and a Synthetic $Pd(II)$ Complex. Inorganic Chemistry, 2011, 50, 1786-1797.	4.0	11
11	Palladacycle-Promoted Solvolytic Cleavage of <i>O,O-</i> Dimethyl <i>O-</i> Aryl Phosphorothioates. Converting a Phosphorane-Like Transition State to an Observable Intermediate. Inorganic Chemistry, 2011, 50, 7852-7862.	4.0	4
12	Methanolysis of Thioamide Promoted by a Simple Palladacycle Is Accelerated by 10 <sup>8</sup> over the Methoxide-Catalyzed Reaction. Journal of the American Chemical Society, 2011, 133, 20068-20071.	13.7	10
13	Development of metal ion promoted alcoholysis as a rapid methodology for the destruction of organophosphorus CW agents, their simulants and pesticides. Main Group Chemistry, 2010, 9, 265-281.	0.8	4
14	Dinuclear Zn(II) catalysts as biomimics of RNA and DNA phosphoryl transfer enzymes: changing the medium from water to alcohol provides enzymeâ€like rate enhancements. Journal of Physical Organic Chemistry, 2010, 23, 1-15.	1.9	55
15	Cleavage of an RNA Model Catalyzed by Dinuclear Zn(II) Complexes Containing Rate-Accelerating Pendants. Comparison of the Catalytic Benefits of H-Bonding and Hydrophobic Substituents. Journal of Organic Chemistry, 2010, 75, 8471-8477.	3.2	32
16	On the question of stepwise vs. concerted cleavage of RNA models promoted by a synthetic dinuclear Zn(ii) complex in methanol: implementation of a noncleavable phosphonate probe. Organic and Biomolecular Chemistry, 2010, 8, 822-827.	2.8	13
17	Efficient Methanolytic Cleavage of Phosphate, Phosphonate, and Phosphonothioate Esters Promoted by Solid Supported Lanthanide Ions. Industrial & Engineering Chemistry Research, 2010, 49, 7027-7033.	3.7	10
18	Mechanistic and Computational Study of a Palladacycle-Catalyzed Decomposition of a Series of Neutral Phosphorothioate Triesters in Methanol. Journal of the American Chemical Society, 2010, 132, 16599-16609.	13.7	24

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19	Demonstration of Prominent Cu(II)-Promoted Leaving Group Stabilization of the Cleavage of a Homologous Set of Phosphate Mono-, Di-, and Triesters in Methanol. Journal of the American Chemical Society, 2010, 132, 3561-3573.	13.7	34
20	Cleavage of models for RNA mediated by a diZn(II) complex of bis[1,4- <i>N</i> < <sub>1</sub> $3 \in 2$ (1,5,9-triazacyclododecanyl)] butane in methanol and ethanol. Canadian Journal of Chemistry, 2009, 87, 640-649.	1.1	5
21	Dinuclear Zn(II) Complex Promotes Cleavage and Isomerization of 2-Hydroxypropyl Alkyl Phosphates by a Common Cyclic Phosphate Intermediate. Journal of the American Chemical Society, 2009, 131, 4159-4166.	13.7	24
22	Investigation of the Effect of Oxy Bridging Groups in Dinuclear Zn(II) Complexes that Catalyze the Cleavage of a Simple Phosphate Diester RNA Analogue. Inorganic Chemistry, 2009, 48, 11425-11433.	4.0	36
23	Dissociative Solvolytic Cleavage of Methyl (ortho-Carboxymethyl)Aryl Phosphate Diesters Mediated by Yb3+ in Methanol Gives a 1012-Fold Rate Acceleration Attributable to Leaving Group Assistance. Journal of the American Chemical Society, 2009, 131, 368-377.	13.7	24
24	Leaving Group Assistance in the La <sup>3+</sup> -Catalyzed Cleavage of Dimethyl ( <i>&gt;0</i> )Methoxycarbonyl)aryl Phosphate Triesters in Methanol. Journal of the American Chemical Society, 2009, 131, 13738-13748.	13.7	29
25	An Immobilized Ortho-Palladated Dimethylbenzylamine Complex as an Efficient Catalyst for the Methanolysis of Phosphorothionate Pesticides. Inorganic Chemistry, 2009, 48, 1183-1191.	4.0	15
26	A Simple DNase Model System Comprising a Dinuclear Zn(II) Complex in Methanol Accelerates the Cleavage of a Series of Methyl Aryl Phosphate Diesters by 1011â^'1013. Journal of the American Chemical Society, 2008, 130, 6639-6649.	13.7	46
27	Biomimetic Cleavage of RNA Models Promoted by a Dinuclear Zn(II) Complex in Ethanol. Greater than 30 kcal/mol Stabilization of the Transition State for Cleavage of a Phosphate Diester. Journal of the American Chemical Society, 2008, 130, 16711-16720.	13.7	36
28	Methanolysis of organophosphorus esters promoted by an M <sup>2+</sup> catalyst supported on polystyrene-based copolymers. Canadian Journal of Chemistry, 2008, 86, 91-100.	1.1	5
29	Enzyme-like Acceleration for the Hydrolysis of a DNA Model Promoted by a Dinuclear Zn(II) Catalyst in Dilute Aqueous Ethanol. Journal of the American Chemical Society, 2008, 130, 13870-13872.	13.7	27
30	Metal-catalyzed alcoholysis reactions of carboxylate and organophosphorus esters. Advances in Physical Organic Chemistry, 2007, , 271-331.	0.5	27
31	Rapid Three-Step Cleavage of RNA and DNA Model Systems Promoted by a Dinuclear Cu(II) Complex in Methanol. Energetic Origins of the Catalytic Efficacy. Journal of the American Chemical Society, 2007, 129, 11642-11652.	13.7	63
32	A Reductionist Biomimetic Model System That Demonstrates Highly Effective Zn(II)-Catalyzed Cleavage of an RNA Model. Inorganic Chemistry, 2007, 46, 1778-1788.	4.0	19
33	The Dinuclear Zn(II) Complex Catalyzed Cyclization of a Series of 2-Hydroxypropyl Aryl Phosphate RNA Models:  Progressive Change in Mechanism from Rate-Limiting Pâ^'O Bond Cleavage to Substrate Binding. Journal of the American Chemical Society, 2007, 129, 16238-16248.	13.7	70
34	Halogen Transfer Reactions from bis-Amino Halonium Ions to Acceptor Olefins: Mechanism and Strategies for Chiral Halogenation. ACS Symposium Series, 2007, , 458-476.	0.5	8
35	Combination of a Dinuclear Zn2+Complex and a Medium Effect Exerts a 1012-Fold Rate Enhancement of Cleavage of an RNA and DNA Model System. Journal of the American Chemical Society, 2006, 128, 16398-16405.	13.7	64
36	Catalytic Decomposition of Simulants for Chemical Warfare V Agents: Highly Efficient Catalysis of the Methanolysis of Phosphonothioate Esters. Angewandte Chemie - International Edition, 2006, 45, 1767-1770.	13.8	41

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37	Mechanistic studies of La3+ and Zn2+-catalyzed methanolysis of O-ethyl O-aryl methylphosphonate esters. An effective solvolytic method for the catalytic destruction of phosphonate CW simulants. Organic and Biomolecular Chemistry, 2005, 3, 4082.	2.8	33
38	Solvent deuterium kinetic isotope effects for the methanolyses of neutral $Ci \in O$ , $Pi \in O$ and $Pi \in S$ esters catalyzed by a triazacyclododecane : $Zn2+$ -methoxide complex. Organic and Biomolecular Chemistry, 2005, 3, 4329.	2.8	21
39	An ortho-palladated dimethylbenzylamine complex as a highly efficient turnover catalyst for the decomposition of Pî€5 insecticides. Mechanistic studies of the methanolysis of some Pî€5-containing phosphorothioate triesters. Organic and Biomolecular Chemistry, 2005, 3, 3379.	2.8	40
40	Metal ion promoted transesterifications of carboxylate esters. A structure/activity study of the efficacy of Zn2+ and La3+ to catalyze the methanolysis of some aryl and aliphatic esters. Organic and Biomolecular Chemistry, 2005, 3, 65.	2.8	27
41	Mechanistic studies of La3+- and Zn2+-catalyzed methanolysis of aryl phosphate and phosphorothioate triesters. Development of artificial phosphotriesterase systems. Organic and Biomolecular Chemistry, 2005, 3, 1525.	2.8	55
42	Cu(ii)-Mediated decomposition of phosphorothionate $P \in S$ pesticides. Billion-fold acceleration of the methanolysis of fenitrothion promoted by a simple Cu(ii) $\hat{a} \in \text{``ligand system. Organic and Biomolecular Chemistry, 2004, 2, 2245-2248.}$	2.8	42
43	2004 Bader Award LectureMetal-ion-catalyzed acyl and phosphoryl transfer reactions to alcohols: La3+-promoted alcoholysis of activated amides, carboxylate esters, and neutral organophosphorus esters. Canadian Journal of Chemistry, 2004, 82, 1791-1805.	1.1	30