

Debbie C. Crans

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313
papers

11,638
citations

60
h-index

92
g-index

347
ext. papers

12,909
ext. citations

6.1
avg, IF

6.55
L-index

#	Paper	IF	Citations
313	The chemistry and biochemistry of vanadium and the biological activities exerted by vanadium compounds. <i>Chemical Reviews</i> , 2004 , 104, 849-902	68.1	1092
312	Ru(II) Compounds: Next-Generation Anticancer Metallotherapeutics?. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 5805-5821	8.3	238
311	Chemistry and insulin-like properties of vanadium(IV) and vanadium(V) compounds. <i>Journal of Inorganic Biochemistry</i> , 2000 , 80, 123-31	4.2	206
310	Decavanadate (V ₁₀ O ₂₈ 6-) and oxovanadates: oxometalates with many biological activities. <i>Journal of Inorganic Biochemistry</i> , 2009 , 103, 536-46	4.2	193
309	Effect of vanadium(IV) compounds in the treatment of diabetes: in vivo and in vitro studies with vanadyl sulfate and bis(maltolato)oxovanadium(IV). <i>Journal of Inorganic Biochemistry</i> , 2001 , 85, 33-42	4.2	184
308	Anti-diabetic effects of a series of vanadium dipicolinate complexes in rats with streptozotocin-induced diabetes. <i>Coordination Chemistry Reviews</i> , 2011 , 255, 2258-2269	23.2	175
307	When is water not water? Exploring water confined in large reverse micelles using a highly charged inorganic molecular probe. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12758-65	16.4	166
306	Interaction of trace levels of vanadium(IV) and vanadium(V) in biological systems. <i>Journal of the American Chemical Society</i> , 1989 , 111, 7597-7607	16.4	166
305	Effects of vanadium complexes with organic ligands on glucose metabolism: a comparison study in diabetic rats. <i>British Journal of Pharmacology</i> , 1999 , 126, 467-77	8.6	163
304	Chemistry and insulin-mimetic properties of bis(acetylacetonate)oxovanadium(IV) and derivatives. <i>Inorganic Chemistry</i> , 2000 , 39, 406-16	5.1	156
303	Caspase-3 promotes genetic instability and carcinogenesis. <i>Molecular Cell</i> , 2015 , 58, 284-96	17.6	140
302	Cobalt(II) and cobalt(III) dipicolinate complexes: solid state, solution, and in vivo insulin-like properties. <i>Inorganic Chemistry</i> , 2002 , 41, 4859-71	5.1	139
301	Aqueous Chemistry of Ammonium (Dipicolinato)oxovanadate(V): The First Organic Vanadium(V) Insulin-Mimetic Compound. <i>Inorganic Chemistry</i> , 2000 , 39, 4409-4416	5.1	138
300	Novel insights into the mechanism of inhibition of MmpL3, a target of multiple pharmacophores in Mycobacterium tuberculosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 6413-23	5.9	137
299	Speciation of metal drugs, supplements and toxins in media and bodily fluids controls in vitro activities. <i>Coordination Chemistry Reviews</i> , 2017 , 352, 473-498	23.2	132
298	Aqueous chemistry of the vanadium(III) (V(III)) and the V(III)-dipicolinate systems and a comparison of the effect of three oxidation states of vanadium compounds on diabetic hyperglycemia in rats. <i>Inorganic Chemistry</i> , 2005 , 44, 5416-27	5.1	122
297	X-ray Structure of (NH ₄) ₆ (Gly-Gly) ₂ V ₁₀ O ₂₈ .4H ₂ O: Model Studies for Polyoxometalate-Protein Interactions. <i>Inorganic Chemistry</i> , 1994 , 33, 5586-5590	5.1	118

296	Metal speciation in health and medicine represented by iron and vanadium. <i>Inorganic Chemistry</i> , 2013 , 52, 12262-75	5.1	115
295	Application of time-resolved vanadium-51 2D NMR for quantitation of kinetic exchange pathways between vanadate monomer, dimer, tetramer, and pentamer. <i>Journal of the American Chemical Society</i> , 1990 , 112, 2901-2908	16.4	111
294	Vanadium(V)-protein model studies: solid-state and solution structure. <i>Journal of the American Chemical Society</i> , 1993 , 115, 6769-6776	16.4	108
293	Synthesis, Structure, and Biological Activity of a New Insulinomimetic Peroxovanadium Compound: Bisperoxovanadium Imidazole Monoanion. <i>Journal of the American Chemical Society</i> , 1997 , 119, 5447-5448	16.4	99
292	Aqueous Chemistry of Labile Oxovanadates: Relevance to Biological Studies. <i>Comments on Inorganic Chemistry</i> , 1994 , 16, 1-33	3.9	98
291	Characterization of Vanadium(V) Complexes in Aqueous Solutions: Ethanolamine- and Glycine-Derived Complexes. <i>Journal of the American Chemical Society</i> , 1994 , 116, 1305-1315	16.4	97
290	Solution and Solid State Properties of [N-(2-Hydroxyethyl)iminodiacetato]vanadium(IV), -(V), and -(IV/V) Complexes(1). <i>Inorganic Chemistry</i> , 1997 , 36, 1657-1668	5.1	96
289	Antidiabetic, Chemical, and Physical Properties of Organic Vanadates as Presumed Transition-State Inhibitors for Phosphatases. <i>Journal of Organic Chemistry</i> , 2015 , 80, 11899-915	4.2	92
288	How environment affects drug activity: Localization, compartmentalization and reactions of a vanadium insulin-enhancing compound, dipicolinatooxovanadium(V). <i>Coordination Chemistry Reviews</i> , 2011 , 255, 2178-2192	23.2	92
287	Vanadium(V) Hydroxylamido Complexes: Solid State and Solution Properties ¹ . <i>Journal of the American Chemical Society</i> , 1997 , 119, 8901-8915	16.4	92
286	Molecular probe location in reverse micelles determined by NMR dipolar interactions. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4437-45	16.4	90
285	Membrane transport of vanadium compounds and the interaction with the erythrocyte membrane. <i>Coordination Chemistry Reviews</i> , 2003 , 237, 103-111	23.2	90
284	Vanadium β phosphatase complexes: Phosphatase inhibitors favor the trigonal bipyramidal transition state geometries. <i>Coordination Chemistry Reviews</i> , 2015 , 301-302, 163-199	23.2	89
283	Is vanadate reduced by thiols under biological conditions? Changing the redox potential of V(V)/V(IV) by complexation in aqueous solution. <i>Inorganic Chemistry</i> , 2010 , 49, 4245-56	5.1	88
282	Organometallic and coordination rhenium compounds and their potential in cancer therapy. <i>Coordination Chemistry Reviews</i> , 2019 , 393, 79-117	23.2	84
281	The permeability and cytotoxicity of insulin-mimetic vanadium compounds. <i>Pharmaceutical Research</i> , 2004 , 21, 1026-33	4.5	83
280	Glycerol kinase: synthesis of dihydroxyacetone phosphate, sn-glycerol-3-phosphate, and chiral analogs. <i>Journal of the American Chemical Society</i> , 1985 , 107, 7019-7027	16.4	83
279	Evidence for the distinct vanadyl(+4)-dependent activating system for manifesting insulin-like effects. <i>Biochemistry</i> , 1996 , 35, 8314-8	3.2	81

278	Reversible and in situ formation of organic arsenates and vanadates as organic phosphate mimics in enzymatic reactions: mechanistic investigation of aldol reactions and synthetic applications. <i>Journal of Organic Chemistry</i> , 1989 , 54, 70-77	4.2	80
277	Vanadium(IV) and vanadium(V) complexes of dipicolinic acid and derivatives. Synthesis, X-ray structure, solution state properties. <i>Inorganica Chimica Acta</i> , 2003 , 356, 365-378	2.7	78
276	Fifteen years of dancing with vanadium. <i>Pure and Applied Chemistry</i> , 2005 , 77, 1497-1527	2.1	77
275	Cyclic vanadium(V) alkoxide. An analog of the ribonuclease inhibitors. <i>Journal of the American Chemical Society</i> , 1991 , 113, 265-269	16.4	77
274	Trigonal Bipyramidal or Square Pyramidal Coordination Geometry? Investigating the Most Potent Geometry for Vanadium Phosphatase Inhibitors. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 4450-4468	2.3	76
273	Inhibition of protein tyrosine phosphatase 1B and alkaline phosphatase by bis(maltolato)oxovanadium (IV). <i>Journal of Inorganic Biochemistry</i> , 2008 , 102, 1846-53	4.2	75
272	(4-Hydroxypyridine-2,6-dicarboxylato)oxovanadate(V) a new insulin-like compound: chemistry, effects on myoblast and yeast cell growth and effects on hyperglycemia in rats with STZ-induced diabetes. <i>Coordination Chemistry Reviews</i> , 2003 , 237, 13-22	23.2	75
271	Vanadium chemistry and biochemistry of relevance for use of vanadium compounds as antidiabetic agents. <i>Molecular and Cellular Biochemistry</i> , 1995 , 153, 17-24	4.2	74
270	Structural and redox requirements for the action of anti-diabetic vanadium compounds. <i>Dalton Transactions</i> , 2014 , 43, 6965-72	4.3	71
269	Effects of decavanadate and insulin enhancing vanadium compounds on glucose uptake in isolated rat adipocytes. <i>Journal of Inorganic Biochemistry</i> , 2009 , 103, 1687-92	4.2	71
268	Enzyme Interactions with Labile Oxovanadates and Other Polyoxometalates. <i>Comments on Inorganic Chemistry</i> , 1994 , 16, 35-76	3.9	71
267	Vanadate tetramer as the inhibiting species in enzyme reactions in vitro and in vivo. <i>Journal of the American Chemical Society</i> , 1990 , 112, 427-432	16.4	70
266	Synthesis of 3-Deoxy-D-manno-2-octulosonate-8-phosphate (KDO-8-P) from D-Arabinose: Generation of D-Arabinose-5-Phosphate using Hexokinase. <i>Tetrahedron Letters</i> , 1988 , 29, 427-430	2	70
265	Chloro-substituted dipicolinate vanadium complexes: synthesis, solution, solid-state, and insulin-enhancing properties. <i>Journal of Inorganic Biochemistry</i> , 2009 , 103, 575-84	4.2	68
264	The conundrum of pH in water nanodroplets: sensing pH in reverse micelle water pools. <i>Accounts of Chemical Research</i> , 2012 , 45, 1637-45	24.3	66
263	Synthesis and reactivity of oxovanadium(V) trialkoxides of bulky and chiral alcohols. <i>Journal of the American Chemical Society</i> , 1992 , 114, 4543-4550	16.4	66
262	Six-co-ordinated vanadium-(IV) and -(V) complexes of benzimidazole and pyridyl containing ligands. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997 , 2799-2812		65
261	Levels of gamma-H2AX Foci after low-dose-rate irradiation reveal a DNA DSB rejoining defect in cells from human ATM heterozygotes in two at families and in another apparently normal individual. <i>Radiation Research</i> , 2006 , 166, 443-53	3.1	63

260	The permeability and cytotoxicity of insulin-mimetic vanadium (III,IV,V)-dipicolinate complexes. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 80-7	4.2	63
259	4-Hydroxypyridine-2,6-dicarboxylatodioxovanadate(V) complexes: solid state and aqueous chemistry. <i>Inorganic Chemistry</i> , 2002 , 41, 6322-31	5.1	63
258	Structural and kinetic characterization of simple complexes as models for vanadate-protein interactions. <i>Journal of the American Chemical Society</i> , 1991 , 113, 3728-3736	16.4	63
257	Insulin-mimetic action of vanadium compounds on osteoblast-like cells in culture. <i>Archives of Biochemistry and Biophysics</i> , 1997 , 338, 7-14	4.1	62
256	Spontaneous and reversible interaction of vanadium(V) oxyanions with amine derivatives. <i>Inorganic Chemistry</i> , 1988 , 27, 1797-1806	5.1	62
255	A convenient synthesis of disodium acetyl phosphate for use in in situ ATP cofactor regeneration. <i>Journal of Organic Chemistry</i> , 1983 , 48, 3130-3132	4.2	61
254	Selective speciation improves efficacy and lowers toxicity of platinum anticancer and vanadium antidiabetic drugs. <i>Journal of Inorganic Biochemistry</i> , 2016 , 165, 56-70	4.2	60
253	Stepwise Cluster Assembly Using VO(2)(acac) as a Precursor: cis-[VO(OCH(CH(3))(2))(acac)(2)], [V(2)O(2)(μ-OCH(3))(2)(acac)(2)(OCH(3))(2)], [V(3)O(3)(μ,μ-OCH(2))(3)CCH(3))(2)(acac)(2)(OC(2)H(5))], and [V(4)O(4)(μ,μ-O)(2)(μ,μ-OCH(3))(2)(μ,μ-OCH(3))(2)(acac)(2)(OCH(3))(2)]·2CH(3)CN(1).	5.1	59
252	Multi-modal Potentiation of Oncolytic Virotherapy by Vanadium Compounds. <i>Molecular Therapy</i> , 2018 , 26, 56-69	11.7	55
251	Metal-Carbohydrate Complexes in Solution. <i>Progress in Inorganic Chemistry</i> , 2007 , 837-945		54
250	Reduction of vanadium(V) by L-ascorbic acid at low and neutral pH: kinetic, mechanistic, and spectroscopic characterization. <i>Inorganic Chemistry</i> , 2006 , 45, 1471-9	5.1	54
249	A Slow Exchanging Vanadium(V) Peptide Complex: Vanadium(V)-Glycine-Tyrosine. <i>Inorganic Chemistry</i> , 1995 , 34, 2524-2534	5.1	54
248	Oxovanadium(V) Alkoxide Derivatives of 1,2-Diols: Synthesis and Solid-State 51V NMR Characterization. <i>Inorganic Chemistry</i> , 1994 , 33, 2427-2438	5.1	53
247	Investigating the vanadium environments in hydroxylamido V(V) dipicolinate complexes using 51V NMR spectroscopy and density functional theory. <i>Inorganic Chemistry</i> , 2007 , 46, 9285-93	5.1	52
246	Effect of micellar and reverse micellar interface on solute location: 2,6-pyridinedicarboxylate in CTAB micelles and CTAB and AOT reverse micelles. <i>Langmuir</i> , 2010 , 26, 13153-61	4	51
245	Interaction of pyridine- and 4-hydroxypyridine-2,6-dicarboxylic acids with heavy metal ions in aqueous solutions. <i>Heteroatom Chemistry</i> , 2003 , 14, 625-632	1.2	50
244	Glycerol kinase: substrate specificity. <i>Journal of the American Chemical Society</i> , 1985 , 107, 7008-7018	16.4	50
243	Correlating proton transfer dynamics to probe location in confined environments. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11904-7	16.4	49

- 242 Antidiabetic vanadium compound and membrane interfaces: interface-facilitated metal complex hydrolysis. *Journal of Biological Inorganic Chemistry*, **2011**, 16, 961-72 3.7 48
- 241 Anti-diabetic effects of vanadium(III, IV, V)-chlorodipicolinate complexes in streptozotocin-induced diabetic rats. *BioMetals*, **2009**, 22, 895-905 3.4 48
- 240 Deprotonation of beta-cyclodextrin in alkaline solutions. *Carbohydrate Research*, **2009**, 344, 250-4 2.9 48
- 239 Impact of confinement and interfaces on coordination chemistry: Using oxovanadate reactions and proton transfer reactions as probes in reverse micelles. *Coordination Chemistry Reviews*, **2009**, 253, 2178-2185 23.2 48
- 238 Sarcoplasmic reticulum calcium ATPase is inhibited by organic vanadium coordination compounds: pyridine-2,6-dicarboxylatodioxovanadium(V), BMOV, and an amavadin analogue. *Inorganic Chemistry*, **2008**, 47, 5677-84 5.1 48
- 237 Determination of enantiomeric purity of polar substrates with chiral lanthanide NMR shift reagents in polar solvents. *Journal of Organic Chemistry*, **1987**, 52, 2273-2276 4.2 48
- 236 Vanadium(IV/V) speciation of pyridine-2,6-dicarboxylic acid and 4-hydroxy-pyridine-2,6-dicarboxylic acid complexes: potentiometry, EPR spectroscopy and comparison across oxidation states. *Journal of Inorganic Biochemistry*, **2003**, 95, 1-13 4.2 47
- 235 Interaction of rabbit muscle aldolase at high ionic strengths with vanadate and other oxoanions. *Biochemistry*, **1992**, 31, 6812-21 3.2 47
- 234 Oxovanadium(V) 1,3-propanediolate chloride complexes: tetrameric clusters. *Inorganic Chemistry*, **1992**, 31, 4939-4949 5.1 46
- 233 Partial Saturation of Menaquinone in : Function and Essentiality of a Novel Reductase, MenJ. *ACS Central Science*, **2015**, 1, 292-302 16.8 45
- 232 Coordination chemistry may explain pharmacokinetics and clinical response of vanadyl sulfate in type 2 diabetic patients. *Metallomics*, **2013**, 5, 1491-502 4.5 45
- 231 Effects of vanadium (III, IV, V)-chlorodipicolinate on glycolysis and antioxidant status in the liver of STZ-induced diabetic rats. *Journal of Inorganic Biochemistry*, **2014**, 136, 47-56 4.2 45
- 230 Methylation of neutral pseudotetrahedral zinc thiolate complexes: model reactions for alkyl group transfer to sulfur by zinc-containing enzymes. *Journal of Biological Inorganic Chemistry*, **2001**, 6, 82-90 3.7 44
- 229 The anti-diabetic bis(maltolato)oxovanadium(IV) decreases lipid order while increasing insulin receptor localization in membrane microdomains. *Dalton Transactions*, **2012**, 41, 6419-30 4.3 43
- 228 ¹H NMR studies of aerosol-OT reverse micelles with alkali and magnesium counterions: preparation and analysis of MAOTs. *Langmuir*, **2008**, 24, 6027-35 4 43
- 227 Inelastic neutron scattering on three mixed-valence dodecanuclear polyoxovanadate clusters. *Inorganic Chemistry*, **2002**, 41, 5675-85 5.1 43
- 226 High-frequency and -field electron paramagnetic resonance of vanadium(IV, III, and II) complexes. *Coordination Chemistry Reviews*, **2015**, 301-302, 123-133 23.2 42
- 225 Vanadate monomers and dimers both inhibit the human prostatic acid phosphatase. *Biochemical and Biophysical Research Communications*, **1989**, 165, 246-50 3.4 42

224	Natural and glucosyl flavonoids inhibit poly(ADP-ribose) polymerase activity and induce synthetic lethality in BRCA mutant cells. <i>Oncology Reports</i> , 2014 , 31, 551-6	3.5	41
223	Chemically induced modification of cofactor specificity of glucose-6-phosphate dehydrogenase. <i>Journal of the American Chemical Society</i> , 1992 , 114, 4926-4928	16.4	41
222	Interaction of porcine uterine fluid purple acid phosphatase with vanadate and vanadyl cation. <i>Biochemistry</i> , 1992 , 31, 11731-9	3.2	41
221	Enzymatic regeneration of adenosine 5-triphosphate: acetyl phosphate, phosphoenolpyruvate, methoxycarbonyl phosphate, dihydroxyacetone phosphate, 5-phospho-alpha-D-ribosyl pyrophosphate, uridine-5-diphosphoglucose. <i>Methods in Enzymology</i> , 1987 , 136, 263-80	1.7	40
220	Characterization of noninnocent metal complexes using solid-state NMR spectroscopy: o-dioxolene vanadium complexes. <i>Inorganic Chemistry</i> , 2011 , 50, 9794-803	5.1	39
219	Induction of cytotoxic and genotoxic responses by natural and novel quercetin glycosides. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2015 , 784-785, 15-22	3	38
218	The Chemistry of Vanadium in Aqueous and Nonaqueous Solution. <i>ACS Symposium Series</i> , 1998 , 2-29	0.4	38
217	Structure and solution properties of a dimeric tetrahedral vanadium(V) chloride alkoxide complex. <i>Inorganic Chemistry</i> , 1993 , 32, 247-248	5.1	38
216	Hydrophobicity may enhance membrane affinity and anti-cancer effects of Schiff base vanadium(v) catecholate complexes. <i>Dalton Transactions</i> , 2019 , 48, 6383-6395	4.3	37
215	Layered structure of room-temperature ionic liquids in microemulsions by multinuclear NMR spectroscopic studies. <i>Chemistry - A European Journal</i> , 2011 , 17, 6837-46	4.8	37
214	Anti-diabetic effects of sodium 4-amino-2,6-dipicolinatodioxovanadium(V) dihydrate in streptozotocin-induced diabetic rats. <i>Journal of Inorganic Biochemistry</i> , 2009 , 103, 585-9	4.2	37
213	Diabetes-altered gene expression in rat skeletal muscle corrected by oral administration of vanadyl sulfate. <i>Physiological Genomics</i> , 2006 , 26, 192-201	3.6	37
212	Nonreductive interaction of vanadate with an enzyme containing a thiol group in the active site: glycerol-3-phosphate dehydrogenase. <i>Biochemistry</i> , 1991 , 30, 6734-41	3.2	37
211	Validation of ⁶⁴ Cu-ATSM damaging DNA via high-LET Auger electron emission. <i>Journal of Radiation Research</i> , 2015 , 56, 784-91	2.4	36
210	Vanadate dimer and tetramer both inhibit glucose-6-phosphate dehydrogenase from <i>Leuconostoc mesenteroides</i> . <i>Biochemistry</i> , 1990 , 29, 6698-706	3.2	36
209	What is inside a nonionic reverse micelle? Probing the interior of Igepal reverse micelles using decavanadate. <i>Langmuir</i> , 2009 , 25, 5496-503	4	35
208	Speciation in Vanadium Bioinorganic Systems. 4. Interactions between Vanadate, Adenosine, and Imidazole An Aqueous Potentiometric and ⁵¹ V NMR Study. <i>Journal of the American Chemical Society</i> , 1997 , 119, 7005-7012	16.4	35
207	Comparison of the induction and disappearance of DNA double strand breaks and gamma-H2AX foci after irradiation of chromosomes in G1-phase or in condensed metaphase cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008 , 639, 108-12	3.3	35

- 206 Bis(acetylamido)oxovanadium(IV) complexes: solid state and solution studies. *Dalton Transactions RSC*, **2001**, 3337-3345 35
- 205 Counterion Affects Interaction with Interfaces: The Antidiabetic Drugs Metformin and Decavanadate. *European Journal of Inorganic Chemistry*, **2013**, 2013, 1859-1868 2.3 34
- 204 Do probe molecules influence water in confinement?. *Journal of Physical Chemistry B*, **2008**, 112, 10158-64 34
- 203 Structure of the Dimeric Ethylene Glycol-Vanadate Complex and Other 1,2-Diol-Vanadate Complexes in Aqueous Solution: Vanadate-Derived Transition-State Analog Complexes of Phosphotransferases. *Journal of the American Chemical Society*, **1995**, 117, 6015-6026 16.4 34
- 202 Factors Affecting Solution Properties of Vanadium(V) Compounds: X-ray Structure of $\text{Etis-NH}_4[\text{VO}_2(\text{EDDA})]_1$. *Inorganic Chemistry*, **1996**, 35, 3599-3606 5.1 33
- 201 Substituent effects in organic vanadate esters in imidazole-buffered aqueous solutions. *Journal of Organic Chemistry*, **1991**, 56, 1266-1274 4.2 33
- 200 Decavanadate Inhibits Mycobacterial Growth More Potently Than Other Oxovanadates. *Frontiers in Chemistry*, **2018**, 6, 519 5 32
- 199 Vanadium(V) Complexes of Polydentate Amino Alcohols: Fine-Tuning Complex Properties. *Journal of the American Chemical Society*, **1998**, 120, 8069-8078 16.4 31
- 198 Penetration of negatively charged lipid interfaces by the doubly deprotonated dipicolinate. *Journal of Organic Chemistry*, **2008**, 73, 9633-40 4.2 31
- 197 Effects of vanadium-containing compounds on membrane lipids and on microdomains used in receptor-mediated signaling. *Chemistry and Biodiversity*, **2008**, 5, 1558-70 2.5 31
- 196 (-)-Cryptaustoline: its synthesis, revision of absolute stereochemistry, and mechanism of inversion of stereochemistry. *Journal of the American Chemical Society*, **1992**, 114, 8483-8489 16.4 31
- 195 A kinetic method for determination of free vanadium(IV) and (V) at trace level concentrations. *Analytical Biochemistry*, **1990**, 188, 53-64 3.1 31
- 194 gamma-H2AX foci after low-dose-rate irradiation reveal atm haploinsufficiency in mice. *Radiation Research*, **2006**, 166, 47-54 3.1 30
- 193 Vanadate interactions with bovine copper,zinc-superoxide dismutase as probed by vanadium-51 NMR spectroscopy. *Journal of the American Chemical Society*, **1991**, 113, 7872-7881 16.4 30
- 192 Polyoxovanadates with emerging biomedical activities. *Coordination Chemistry Reviews*, **2021**, 447, 214143.2 30
- 191 51V solid-state NMR and density functional theory studies of vanadium environments in V(V)O2 dipicolinic acid complexes. *Journal of Chemical Physics*, **2008**, 128, 052317 3.9 29
- 190 4-amino- and 4-nitrodipicolinatovanadium(V) complexes and their hydroxylamido derivatives: synthesis, aqueous, and solid-state properties. *Inorganic Chemistry*, **2007**, 46, 9827-40 5.1 29
- 189 A defect in DNA double strand break processing in cells from unaffected parents of retinoblastoma patients and other apparently normal humans. *DNA Repair*, **2007**, 6, 818-29 4.3 29

188	Interaction of dipicolinatodioxovanadium(V) with polyatomic cations and surfaces in reverse micelles. <i>Langmuir</i> , 2005 , 21, 6250-8	4	29
187	Coexisting aggregates in mixed aerosol OT and cholesterol microemulsions. <i>Langmuir</i> , 2011 , 27, 948-54	4	28
186	Syntheses, X-ray Structures, and Solution Properties of $[V(4)O(4)\{(OCH(2))(3)CCH(3)\}(3)(OC(2)H(5))(3)]$ and $[V(4)O(4)\{(OCH(2))(3)CCH(3)\}(2)(OCH(3))(6)]$: Examples of New Ligand Coordination Modes. <i>Inorganic Chemistry</i> , 1997 , 36, 1038-1047	5.1	28
185	Cu(II) complex formation with xylitol in alkaline solutions. <i>Carbohydrate Research</i> , 2004 , 339, 599-605	2.9	28
184	Dinuclear Oxovanadium(IV) N-(Phosphonomethyl)iminodiacetate Complexes: $Na(4)[V(2)O(2)\{(O)(2)P(O)CH(2)N(CH(2)COO)(2)\}(2)].10H(2)O$ and $Na(8)[V(2)O(2)\{(O)(2)P(O)CH(2)N(CH(2)COO)(2)\}(2)](2).16H(2)O(1)$. <i>Inorganic Chemistry</i> , 1998 , 37, 6645-6655	5.1	28
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182	Variations in radiosensitivity among individuals: a potential impact on risk assessment?. <i>Health Physics</i> , 2009 , 97, 470-80	2.3	27
181	Simple oxovanadates as multiparameter probes of reverse micelles. <i>Langmuir</i> , 2007 , 23, 6510-8	4	27
180	Transition state analogues for nucleotidyl transfer reactions: Structure and stability of pentavalent vanadate and phosphate ester dianions. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14988-99	3.4	27
179	Evaluating transition state structures of vanadium-phosphatase protein complexes using shape analysis. <i>Journal of Inorganic Biochemistry</i> , 2015 , 147, 153-64	4.2	26
178	Correlation of insulin-enhancing properties of vanadium-dipicolinate complexes in model membrane systems: phospholipid langmuir monolayers and AOT reverse micelles. <i>Chemistry - A European Journal</i> , 2014 , 20, 5149-59	4.8	26
177	Genomic instability and telomere fusion of canine osteosarcoma cells. <i>PLoS ONE</i> , 2012 , 7, e43355	3.7	25
176	A Short-Lived but Highly Cytotoxic Vanadium(V) Complex as a Potential Drug Lead for Brain Cancer Treatment by Intratumoral Injections. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15834-15838	16.4	24
175	Tetracoordinate planar carbon: a singlet biradical. <i>Journal of the American Chemical Society</i> , 1980 , 102, 7152-7154	16.4	24
174	Monoglucosyl-rutin as a potential radioprotector in mammalian cells. <i>Molecular Medicine Reports</i> , 2014 , 10, 10-4	2.9	23
173	Effects of metal compounds with distinct physicochemical properties on iron homeostasis and antibacterial activity in the lungs: chromium and vanadium. <i>Inhalation Toxicology</i> , 2010 , 22, 169-78	2.7	23
172	Anti-diabetic effects of cesium aqua (N,N@ethylene(salicylideneiminato)-5-sulfonato) oxovanadium (IV) dihydrate in streptozotocin-induced diabetic rats. <i>Biological Trace Element Research</i> , 2008 , 121, 226-425	4.5	23
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