Debbie C. Crans

List of Publications by Year
in descending order

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312 papers	14,265 citations	16451 64 h-index	30087 103 g-index
347 all docs	347 docs citations	347 times ranked	9933 citing authors

#	Article	IF	Citations
1	The Chemistry and Biochemistry of Vanadium and the Biological Activities Exerted by Vanadium Compounds. Chemical Reviews, 2004, 104, 849-902.	47.7	1,238
2	Ru(II) Compounds: Next-Generation Anticancer Metallotherapeutics?. Journal of Medicinal Chemistry, 2018, 61, 5805-5821.	6.4	343
3	Chemistry and insulin-like properties of vanadium(IV) and vanadium(V) compounds1This manuscript summarizes the presentation given at the symposium â€˜Biological Aspects of Vanadium Chemistry â€” Chemistry, Biochemistry and Therapeutic Applications of Vanadium Compoundsâ€™ and recently communicated in original research articles. The original research articles describing the experimental details of this work are given in Refs: [1â€“5].1. Journal of Inorganic Biochemistry, 2000, 80, 123-131.	3.5	240
4	Decavanadate (V10O286-) and oxovanadates: Oxometalates with many biological activities. Journal of Inorganic Biochemistry, 2009, 103, 536-546.	3.5	232
5	Caspase-3 Promotes Genetic Instability and Carcinogenesis. Molecular Cell, 2015, 58, 284-296.	9.7	202
6	Anti-diabetic effects of a series of vanadium dipicolinate complexes in rats with streptozotocin-induced diabetes. Coordination Chemistry Reviews, 2011, 255, 2258-2269.	18.8	198
7	Effect of vanadium(IV) compounds in the treatment of diabetes: in vivo and in vitro studies with vanadyl sulfate and bis(maltolato)oxovandium(IV). Journal of Inorganic Biochemistry, 2001, 85, 33-42.	3.5	197
8	Effects of vanadium complexes with organic ligands on glucose metabolism: a comparison study in diabetic rats. British Journal of Pharmacology, 1999, 126, 467-477.	5.4	184
9	When Is Water Not Water? Exploring Water Confined in Large Reverse Micelles Using a Highly Charged Inorganic Molecular Probe. Journal of the American Chemical Society, 2006, 128, 12758-12765.	13.7	181
10	Speciation of metal drugs, supplements and toxins in media and bodily fluids controls in vitro activities. Coordination Chemistry Reviews, 2017, 352, 473-498.	18.8	181
11	Chemistry and Insulin-Mimetic Properties of Bis(acetylacetonate)oxovanadium(IV) and Derivatives1. Inorganic Chemistry, 2000, 39, 406-416.	4.0	180
12	Interaction of trace levels of vanadium(IV) and vanadium(V) in biological systems. Journal of the American Chemical Society, 1989, 111, 7597-7607.	13.7	179
13	Novel Insights into the Mechanism of Inhibition of MmpL3, a Target of Multiple Pharmacophores in Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2014, 58, 6413-6423.	3.2	174
14	Aqueous Chemistry of Ammonium (Dipicolinato)oxovanadate(V):Â The First Organic Vanadium(V) Insulin-Mimetic Compound. Inorganic Chemistry, 2000, 39, 4409-4416.	4.0	153
15	Cobalt(II) and Cobalt(III) Dipicolinate Complexes:Â Solid State, Solution, and in Vivo Insulin-like Properties. Inorganic Chemistry, 2002, 41, 4859-4871.	4.0	151
16	Aqueous Chemistry of the VanadiumIII(VIII) and the VIIIâˆ’Dipicolinate Systems and a Comparison of the Effect of Three Oxidation States of Vanadium Compounds on Diabetic Hyperglycemia in Rats. Inorganic Chemistry, 2005, 44, 5416-5427.	4.0	142
17	X-ray Structure of (NH4)6(Gly-Gly)2V10O28.cntdot.4H2O: Model Studies for Polyoxometalate-Protein Interactions. Inorganic Chemistry, 1994, 33, 5586-5590.	4.0	141
18	Organometallic and coordination rhenium compounds and their potential in cancer therapy. Coordination Chemistry Reviews, 2019, 393, 79-117.	18.8	135

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19	Metal Speciation in Health and Medicine Represented by Iron and Vanadium. Inorganic Chemistry, 2013, 52, 12262-12275.	4.0	128
20	Application of time-resolved vanadium-51 2D NMR for quantitation of kinetic exchange pathways between vanadate monomer, dimer, tetramer, and pentamer. Journal of the American Chemical Society, 1990, 112, 2901-2908.	13.7	125
21	Vanadium(V)-protein model studies: solid-state and solution structure. Journal of the American Chemical Society, 1993, 115, 6769-6776.	13.7	124
22	Antidiabetic, Chemical, and Physical Properties of Organic Vanadates as Presumed Transition-State Inhibitors for Phosphatases. Journal of Organic Chemistry, 2015, 80, 11899-11915.	3.2	122
23	Characterization of Vanadium(V) Complexes in Aqueous Solutions: Ethanolamine- and Glycine-Derived Complexes. Journal of the American Chemical Society, 1994, 116, 1305-1315.	13.7	115
24	Vanadiumâ€“phosphatase complexes: Phosphatase inhibitors favor the trigonal bipyramidal transition state geometries. Coordination Chemistry Reviews, 2015, 301-302, 163-199.	18.8	115
25	Polyoxovanadates with emerging biomedical activities. Coordination Chemistry Reviews, 2021, 447, 214143.	18.8	115
26	Aqueous Chemistry of Labile Oxovanadates: Relevance to Biological Studies. Comments on Inorganic Chemistry, 1994, 16, 1-33.	5.2	112
27	Synthesis, Structure, and Biological Activity of a New Insulinomimetic Peroxovanadium Compound:Â Bisperoxovanadium Imidazole Monoanion. Journal of the American Chemical Society, 1997, 119, 5447-5448.	13.7	108
28	How environment affects drug activity: Localization, compartmentalization and reactions of a vanadium insulin-enhancing compound, dipicolinatooxovanadium(V). Coordination Chemistry Reviews, 2011, 255, 2178-2192.	18.8	106
29	Vanadium(V) Hydroxylamido Complexes:Â Solid State and Solution Properties1. Journal of the American Chemical Society, 1997, 119, 8901-8915.	13.7	105
30	Solution and Solid State Properties of [N-(2-Hydroxyethyl)iminodiacetato]vanadium(IV), -(V), and -(IV/V) Complexes1. Inorganic Chemistry, 1997, 36, 1657-1668.	4.0	105
31	Is Vanadate Reduced by Thiols under Biological Conditions? Changing the Redox Potential of V(V)/V(IV) by Complexation in Aqueous Solution. Inorganic Chemistry, 2010, 49, 4245-4256.	4.0	104
32	Glycerol kinase: synthesis of dihydroxyacetone phosphate, sn-glycerol-3-phosphate, and chiral analogs. Journal of the American Chemical Society, 1985, 107, 7019-7027.	13.7	100
33	Evidence for the Distinct Vanadyl(+4)-Dependent Activating System for Manifesting Insulin-Like Effectsâ€. Biochemistry, 1996, 35, 8314-8318.	2.5	99
34	Cyclic vanadium(V) alkoxide. An analog of the ribonuclease inhibitors. Journal of the American Chemical Society, 1991, 113, 265-269.	13.7	97
35	Membrane transport of vanadium compounds and the interaction with the erythrocyte membrane. Coordination Chemistry Reviews, 2003, 237, 103-111.	18.8	97
36	Molecular Probe Location in Reverse Micelles Determined by NMR Dipolar Interactions. Journal of the American Chemical Society, 2006, 128, 4437-4445.	13.7	96

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37	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. Journal of Organic Chemistry, 1989, 54, 70-77.	3.2	94
38	Trigonal Bipyramidal or Square Pyramidal Coordination Geometry? Investigating the Most Potent Geometry for Vanadium Phosphatase Inhibitors. European Journal of Inorganic Chemistry, 2014, 2014, 4450-4468.	2.0	93
39	The Permeability and Cytotoxicity of Insulin-Mimetic Vanadium Compounds. Pharmaceutical Research, 2004, 21, 1026-1033.	3.5	91
40	Vanadium(IV) and vanadium(V) complexes of dipicolinic acid and derivatives. Synthesis, X-ray structure, solution state properties. Inorganica Chimica Acta, 2003, 356, 365-378.	2.4	88
41	Effects of decavanadate and insulin enhancing vanadium compounds on glucose uptake in isolated rat adipocytes. Journal of Inorganic Biochemistry, 2009, 103, 1687-1692.	3.5	86
42	Fifteen years of dancing with vanadium. Pure and Applied Chemistry, 2005, 77, 1497-1527.	1.9	85
43	Vanadium chemistry and biochemistry of relevance for use of vanadium compounds as antidiabetic agents. Molecular and Cellular Biochemistry, 1995, 153, 17-24.	3.1	84
44	Inhibition of protein tyrosine phosphatase 1B and alkaline phosphatase by bis(maltolato)oxovanadium (IV). Journal of Inorganic Biochemistry, 2008, 102, 1846-1853.	3.5	83
45	Enzyme Interactions with Labile Oxovanadates and Other Polyoxometalates. Comments on Inorganic Chemistry, 1994, 16, 35-76.	5.2	80
46	Synthesis of 3-Deoxy-D-manno-2-octulosonate-8-phosphate (KDO-8-P) fromD-Arabinose: Generation of D-Arabinose-5-Phosphate using Hexokinase. Tetrahedron Letters, 1988, 29, 427-430.	1.4	79
47	Synthesis and reactivity of oxovanadium(V) trialkoxides of bulky and chiral alcohols. Journal of the American Chemical Society, 1992, 114, 4543-4550.	13.7	79
48	Structural and redox requirements for the action of anti-diabetic vanadium compounds. Dalton Transactions, 2014, 43, 6965-6972.	3.3	78
49	Polyoxidovanadates' interactions with proteins: An overview. Coordination Chemistry Reviews, 2022, 454, 214344.	18.8	78
50	Vanadate tetramer as the inhibiting species in enzyme reactions in vitro and in vivo. Journal of the American Chemical Society, 1990, 112, 427-432.	13.7	77
51	(4-Hydroxypyridine-2,6-dicarboxylato)oxovanadate(V)â€"a new insulin-like compound: chemistry, effects on myoblast and yeast cell growth and effects on hyperglycemia in rats with STZ-induced diabetes. Coordination Chemistry Reviews, 2003, 237, 13-22.	18.8	77
52	The Conundrum of pH in Water Nanodroplets: Sensing pH in Reverse Micelle Water Pools. Accounts of Chemical Research, 2012, 45, 1637-1645.	15.6	77
53	Multi-modal Potentiation of Oncolytic Virotherapy by Vanadium Compounds. Molecular Therapy, 2018, 26, 56-69.	8.2	77
54	A convenient synthesis of disodium acetyl phosphate for use in in situ ATP cofactor regeneration. Journal of Organic Chemistry, 1983, 48, 3130-3132.	3.2	74

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55	Spontaneous and reversible interaction of vanadium(V) oxyanions with amine derivatives. Inorganic Chemistry, 1988, 27, 1797-1806.	4.0	72
56	Structural and kinetic characterization of simple complexes as models for vanadate-protein interactions. Journal of the American Chemical Society, 1991, 113, 3728-3736.	13.7	72
57	Chloro-substituted dipicolinate vanadium complexes: Synthesis, solution, solid-state, and insulin-enhancing properties. Journal of Inorganic Biochemistry, 2009, 103, 575-584.	3.5	72
58	Partial Saturation of Menaquinone in Mycobacterium tuberculosis: Function and Essentiality of a Novel Reductase, MenJ. ACS Central Science, 2015, 1, 292-302.	11.3	71
59	Six-co-ordinated vanadium-(IV) and -(V) complexes of benzimidazole and pyridyl containing ligands. Journal of the Chemical Society Dalton Transactions, 1997, , 2799-2812.	1.1	70
60	Selective speciation improves efficacy and lowers toxicity of platinum anticancer and vanadium antidiabetic drugs. Journal of Inorganic Biochemistry, 2016, 165, 56-70.	3.5	69
61	Insulin-Mimetic Action of Vanadium Compounds on Osteoblast-like Cells in Culture. Archives of Biochemistry and Biophysics, 1997, 338, 7-14.	3.0	68
62	Levels of Î³-H2AX Foci after Low-Dose-Rate Irradiation Reveal a DNA DSB Rejoining Defect in Cells from HumanATMHeterozygotes in Two AT Families and in Another Apparently Normal Individual. Radiation Research, 2006, 166, 443-453.	1.5	68
63	4-Hydroxypyridine-2,6-dicarboxylatodioxovanadate(V) Complexes:Â Solid State and Aqueous Chemistry. Inorganic Chemistry, 2002, 41, 6322-6331.	4.0	67
64	A Slow Exchanging Vanadium(V) Peptide Complex: Vanadium(V)-Glycine-Tyrosine. Inorganic Chemistry, 1995, 34, 2524-2534.	4.0	66
65	The permeability and cytotoxicity of insulin-mimetic vanadium (III,IV,V)-dipicolinate complexes. Journal of Inorganic Biochemistry, 2006, 100, 80-87.	3.5	66
66	Oxovanadium(V) Alkoxide Derivatives of 1,2-Diols: Synthesis and Solid-State 51V NMR Characterization. Inorganic Chemistry, 1994, 33, 2427-2438.	4.0	65
67	Stepwise Cluster Assembly Using VO2(acac) as a Precursor:Âcis-[VO(OCH(CH3)2)(acac)2], [V2O2(Î¼-OCH3)2(acac)2(OCH3)2], [V3O3{Î¼,Î¼-(OCH2)3CCH3}2(acac)2(OC2H5)], and [V4O4(Î¼-O)2(Î¼-OCH3)2(Î¼3-OCH3)2(acac)2(OCH3)2]Â·2CH3CN1. Inorganic Chemistry, 1998, 37, 5439-5451.	4.0	65
68	High-frequency and -field electron paramagnetic resonance of vanadium(IV, III, and II) complexes. Coordination Chemistry Reviews, 2015, 301-302, 123-133.	18.8	65
69	Deprotonation of Î²-cyclodextrin in alkaline solutions. Carbohydrate Research, 2009, 344, 250-254.	2.3	64
70	Glycerol kinase: substrate specificity. Journal of the American Chemical Society, 1985, 107, 7008-7018.	13.7	63
71	Reduction of Vanadium(V) byl-Ascorbic Acid at Low and Neutral pH:Â Kinetic, Mechanistic, and Spectroscopic Characterization. Inorganic Chemistry, 2006, 45, 1471-1479.	4.0	62
72	Anti-diabetic effects of vanadium(III, IV, V)â€“chlorodipicolinate complexes in streptozotocin-induced diabetic rats. BioMetals, 2009, 22, 895-905.	4.1	57

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73	Oxovanadium(V) 1,3-propanediolate chloride complexes: tetrameric clusters. Inorganic Chemistry, 1992, 31, 4939-4949.	4.0	56
74	Metal-Carbohydrate Complexes in Solution. Progress in Inorganic Chemistry, 2007, , 837-945.	3.0	55
75	Investigating the Vanadium Environments in Hydroxylamido V(V) Dipicolinate Complexes Using ⁵¹V NMR Spectroscopy and Density Functional Theory. Inorganic Chemistry, 2007, 46, 9285-9293.	4.0	55
76	Coordination chemistry may explain pharmacokinetics and clinical response of vanadyl sulfate in type 2 diabetic patients. Metallomics, 2013, 5, 1491.	2.4	55
77	Natural and glucosyl flavonoids inhibit poly(ADP-ribose) polymerase activity and induce synthetic lethality in BRCA mutant cells. Oncology Reports, 2014, 31, 551-556.	2.6	55
78	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.	3.5	55
79	Determination of enantiomeric purity of polar substrates with chiral lanthanide NMR shift reagents in polar solvents. Journal of Organic Chemistry, 1987, 52, 2273-2276.	3.2	54
80	Antidiabetic vanadium compound and membrane interfaces: interface-facilitated metal complex hydrolysis. Journal of Biological Inorganic Chemistry, 2011, 16, 961-972.	2.6	54
81	Interaction of pyridine- and 4-hydroxypyridine-2,6-dicarboxylic acids with heavy metal ions in aqueous solutions. Heteroatom Chemistry, 2003, 14, 625-632.	0.7	53
82	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.	3.5	53
83	Effect of Micellar and Reverse Micellar Interface on Solute Location: 2,6-Pyridinedicarboxylate in CTAB Micelles and CTAB and AOT Reverse Micelles. Langmuir, 2010, 26, 13153-13161.	3.5	53
84	Correlating Proton Transfer Dynamics To Probe Location in Confined Environments. Journal of the American Chemical Society, 2012, 134, 11904-11907.	13.7	53
85	[25] Enzymatic regeneration of adenosine 5â€²-triphosphate: Acetyl phosphate, phosphoenolpyruvate, methoxycarbonyl phosphate, dihydroxyacetone phosphate, 5-phospho-Î±-d-ribosyl pyrophosphate, uridine-5â€²-diphosphoglucose. Methods in Enzymology, 1987, 136, 263-280.	1.0	52
86	Open questions on the biological roles of first-row transition metals. Communications Chemistry, 2020, 3, .	4.5	52
87	Interaction of rabbit muscle aldolase at high ionic strengths with vanadate and other oxoanions. Biochemistry, 1992, 31, 6812-6821.	2.5	51
88	Structure and solution properties of a dimeric tetrahedral vanadium(V) chloride alkoxide complex. Inorganic Chemistry, 1993, 32, 247-248.	4.0	51
89	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.	2.6	51
90	Hydrophobicity may enhance membrane affinity and anti-cancer effects of Schiff base vanadium(<scp>v</scp>) catecholate complexes. Dalton Transactions, 2019, 48, 6383-6395.	3.3	51

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91	Vanadate monomers and dimers both inhibit the human prostatic acid phosphatase. Biochemical and Biophysical Research Communications, 1989, 165, 246-250.	2.1	50
92	Sarcoplasmic Reticulum Calcium ATPase Is Inhibited by Organic Vanadium Coordination Compounds: Pyridine-2,6-dicarboxylatodioxovanadium(V), BMOV, and an Amavadine Analogue. Inorganic Chemistry, 2008, 47, 5677-5684.	4.0	50
93	Validation of64Cu-ATSM damaging DNA via high-LET Auger electron emission. Journal of Radiation Research, 2015, 56, 784-791.	1.6	50
94	The Chemistry of Vanadium in Aqueous and Nonaqueous Solution. ACS Symposium Series, 1998, , 2-29.	0.5	49
95	Inelastic Neutron Scattering on Three Mixed-Valence Dodecanuclear Polyoxovanadate Clustersâ€. Inorganic Chemistry, 2002, 41, 5675-5685.	4.0	49
96	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.	18.8	49
97	The anti-diabetic bis(maltolato)oxovanadium(iv) decreases lipid order while increasing insulin receptor localization in membrane microdomains. Dalton Transactions, 2012, 41, 6419.	3.3	49
98	Induction of cytotoxic and genotoxic responses by natural and novel quercetin glycosides. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2015, 784-785, 15-22.	1.7	49
99	¹H NMR Studies of Aerosol-OT Reverse Micelles with Alkali and Magnesium Counterions: Preparation and Analysis of MAOTs. Langmuir, 2008, 24, 6027-6035.	3.5	47
100	Interaction of porcine uterine fluid purple acid phosphatase with vanadate and vanadyl cation. Biochemistry, 1992, 31, 11731-11739.	2.5	46
101	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.	13.7	46
102	Factors Affecting Solution Properties of Vanadium(V) Compounds:â€‰X-ray Structure of Î²-cis-NH4[VO2(EDDA)]1. Inorganic Chemistry, 1996, 35, 3599-3606.	4.0	46
103	Counterion Affects Interaction with Interfaces: The Antidiabetic Drugs Metformin and Decavanadate. European Journal of Inorganic Chemistry, 2013, 2013, 1859-1868.	2.0	46
104	Decavanadate Inhibits Mycobacterial Growth More Potently Than Other Oxovanadates. Frontiers in Chemistry, 2018, 6, 519.	3.6	46
105	A Shortâ€Lived but Highly Cytotoxic Vanadium(V) Complex as a Potential Drug Lead for Brain Cancer Treatment by Intratumoral Injections. Angewandte Chemie - International Edition, 2020, 59, 15834-15838.	13.8	46
106	Chemically induced modification of cofactor specificity of glucose-6-phosphate dehydrogenase. Journal of the American Chemical Society, 1992, 114, 4926-4928.	13.7	45
107	Vanadate dimer and tetramer both inhibit glucose-6-phosphate dehydrogenase from Leuconostoc mesenteroides. Biochemistry, 1990, 29, 6698-6706.	2.5	44
108	(-)-Cryptaustoline: its synthesis, revision of absolute stereochemistry, and mechanism of inversion of stereochemistry. Journal of the American Chemical Society, 1992, 114, 8483-8489.	13.7	44

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109	Speciation in Vanadium Bioinorganic Systems. 4. Interactions between Vanadate, Adenosine, and ImidazoleAn Aqueous Potentiometric and51V NMR Study. Journal of the American Chemical Society, 1997, 119, 7005-7012.	13.7	43
110	Characterization of Noninnocent Metal Complexes Using Solid-State NMR Spectroscopy: o-Dioxolene Vanadium Complexes. Inorganic Chemistry, 2011, 50, 9794-9803.	4.0	43
111	Nonreductive interaction of vanadate with an enzyme containing a thiol group in the active site: glycerol-3-phosphate dehydrogenase. Biochemistry, 1991, 30, 6734-6741.	2.5	42
112	Diabetes-altered gene expression in rat skeletal muscle corrected by oral administration of vanadyl sulfate. Physiological Genomics, 2006, 26, 192-201.	2.3	42
113	Coordination environment changes of the vanadium in vanadium-dependent haloperoxidase enzymes. Journal of Inorganic Biochemistry, 2018, 186, 267-279.	3.5	42
114	Anti-diabetic effects of sodium 4-amino-2,6-dipicolinatodioxovanadium(V) dihydrate in streptozotocin-induced diabetic rats. Journal of Inorganic Biochemistry, 2009, 103, 585-589.	3.5	41
115	Comparison of the induction and disappearance of DNA double strand breaks and Î³-H2AX foci after irradiation of chromosomes in G1-phase or in condensed metaphase cells. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2008, 639, 108-112.	1.0	40
116	Syntheses, X-ray Structures, and Solution Properties of [V4O4{(OCH2)3CCH3}3(OC2H5)3] and [V4O4{(OCH2)3CCH3}2(OCH3)6]:Â Examples of New Ligand Coordination Modes. Inorganic Chemistry, 1997, 36, 1038-1047.	4.0	39
117	Vanadium(V) Complexes of Polydentate Amino Alcohols:â€‰ Fine-Tuning Complex Properties. Journal of the American Chemical Society, 1998, 120, 8069-8078.	13.7	38
118	Layered Structure of Roomâ€Temperature Ionic Liquids in Microemulsions by Multinuclear NMR Spectroscopic Studies. Chemistry - A European Journal, 2011, 17, 6837-6846.	3.3	38
119	Substituent effects in organic vanadate esters in imidazole-buffered aqueous solutions. Journal of Organic Chemistry, 1991, 56, 1266-1274.	3.2	37
120	Bis(acetylamido)oxovanadium(IV) complexes: solid state and solution studies. Dalton Transactions RSC, 2001, , 3337-3345.	2.3	37
121	What Is Inside a Nonionic Reverse Micelle? Probing the Interior of Igepal Reverse Micelles Using Decavanadate. Langmuir, 2009, 25, 5496-5503.	3.5	37
122	A kinetic method for determination of free vanadium(IV) and (V) at trace level concentrations. Analytical Biochemistry, 1990, 188, 53-64.	2.4	35
123	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.	13.7	35
124	Do Probe Molecules Influence Water in Confinement?. Journal of Physical Chemistry B, 2008, 112, 10158-10164.	2.6	35
125	Î³-H2AX Foci after Low-Dose-Rate Irradiation RevealAtmHaploinsufficiency in Mice. Radiation Research, 2006, 166, 47-54.	1.5	34
126	9. HEALTH BENEFITS OF VANADIUM AND ITS POTENTIAL AS AN ANTICANCER AGENT. , 2018, 18, 251-280.		34

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127	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, 818-829.	2.8	33
128	Evaluating transition state structures of vanadiumâ€“phosphatase protein complexes using shape analysis. Journal of Inorganic Biochemistry, 2015, 147, 153-164.	3.5	33
129	Cu(II) complex formation with xylitol in alkaline solutions. Carbohydrate Research, 2004, 339, 599-605.	2.3	32
130	4-Amino- and 4-Nitrodipicolinatovanadium(V) Complexes and Their Hydroxylamido Derivatives:â€‰ Synthesis, Aqueous, and Solid-State Properties. Inorganic Chemistry, 2007, 46, 9827-9840.	4.0	32
131	Effects of Vanadiumâ€Containing Compounds on Membrane Lipids and on Microdomains Used in Receptorâ€Mediated Signaling. Chemistry and Biodiversity, 2008, 5, 1558-1570.	2.1	32
132	Penetration of Negatively Charged Lipid Interfaces by the Doubly Deprotonated Dipicolinate. Journal of Organic Chemistry, 2008, 73, 9633-9640.	3.2	32
133	V 51 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.	3.0	32
134	Speciation and toxicity of rhenium salts, organometallics and coordination complexes. Coordination Chemistry Reviews, 2019, 394, 135-161.	18.8	32
135	Simple Oxovanadates as Multiparameter Probes of Reverse Micelles. Langmuir, 2007, 23, 6510-6518.	3.5	31
136	Effects of metal compounds with distinct physicochemical properties on iron homeostasis and antibacterial activity in the lungs: chromium and vanadium. Inhalation Toxicology, 2010, 22, 169-178.	1.6	31
137	Correlation of Insulinâ€Enhancing Properties of Vanadiumâ€Dipicolinate Complexes in Model Membrane Systems: Phospholipid Langmuir Monolayers and AOT Reverse Micelles. Chemistry - A European Journal, 2014, 20, 5149-5159.	3.3	31
138	15. IRON AND ITS ROLE IN CANCER DEFENSE: A DOUBLE-EDGED SWORD. , 2018, 18, 437-468.		31
139	Mycobacterial MenJ: An Oxidoreductase Involved in Menaquinone Biosynthesis. ACS Chemical Biology, 2018, 13, 2498-2507.	3.4	31
140	The First-Row Transition Metals in the Periodic Table of Medicine. Inorganics, 2019, 7, 111.	2.7	31
141	Dinuclear Oxovanadium(IV)N-(Phosphonomethyl)iminodiacetate Complexes:Â Na4[V2O2{(O)2P(O)CH2N(CH2COO)2}2]Â·10H2O and Na8[V2O2{(O)2P(O)CH2N(CH2COO)2}2]2Â·16H2O1. Inorganic Chemistry, 1998, 37, 6645-6655.	4.0	30
142	Interaction of Dipicolinatodioxovanadium(V) with Polyatomic Cations and Surfaces in Reverse Micelles. Langmuir, 2005, 21, 6250-6258.	3.5	30
143	Coexisting Aggregates in Mixed Aerosol OT and Cholesterol Microemulsions. Langmuir, 2011, 27, 948-954.	3.5	30
144	14. CHEMICAL AND CLINICAL ASPECTS OF METAL-CONTAINING ANTIDOTES FOR POISONING BY CYANIDE. , 2019, 19, 359-392.		29

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145	Genomic Instability and Telomere Fusion of Canine Osteosarcoma Cells. PLoS ONE, 2012, 7, e43355.	2.5	29
146	Tetracoordinate planar carbon: a singlet biradical. Journal of the American Chemical Society, 1980, 102, 7152-7154.	13.7	28
147	Speciation in Vanadium Bioinorganic Systems. 5. Interactions between Vanadate, Uridine, and ImidazoleAn Aqueous Potentiometric,51V,17O, and13C NMR Study. Inorganic Chemistry, 1998, 37, 6153-6160.	4.0	28
148	VARIATIONS IN RADIOSENSITIVITY AMONG INDIVIDUALS: A POTENTIAL IMPACT ON RISK ASSESSMENT?. Health Physics, 2009, 97, 470-480.	0.5	28
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