Debbie C. Crans

List of Publications by Year in Descending Order

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	Polyoxidovanadates□nteractions with proteins: An overview. *Coordination Chemistry Reviews*, **2022**, 454, 214344	23.2	12
312	Solution- and gas-phase behavior of decavanadate: implications for mass spectrometric analysis of redox-active polyoxidometalates. *Inorganic Chemistry Frontiers*, **2022**, 9, 1556-1564	6.8	0
311	Biological Effects of Monoenergetic Carbon Ions and Their Associated Secondary Particles.. *Frontiers in Oncology*, **2022**, 12, 788293	5.3	
310	Electron Transport Lipids Fold Within Membrane-Like Interfaces.. *Frontiers in Chemistry*, **2022**, 10, 827539	5	0
309	Metallomics and other omics approaches in antiparasitic metal-based drug research.. *Current Opinion in Chemical Biology*, **2022**, 67, 102127	9.7	1
308	Exploring Growth of Mycobacterium smegmatis Treated with Anticarcinogenic Vanadium Compounds. *Inorganics*, **2022**, 10, 50	2.9	1
307	Highlighting the roles of transition metals and speciation in chemical biology. *Current Opinion in Chemical Biology*, **2022**, 69, 102155	9.7	0
306	Cytotoxicity and genotoxicity of blue LED light and protective effects of AA2G in mammalian cells and associated DNA repair deficient cell lines. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2021**, 872, 503416	3	0
305	Pt- or Mo-substituted decavanadates inhibit the growth of Mycobacterium smegmatis. *Journal of Inorganic Biochemistry*, **2021**, 217, 111356	4.2	6
304	Acute Toxicity Evaluation of Non-Innocent Oxidovanadium(V) Schiff Base Complex. *Inorganics*, **2021**, 9, 42	2.9	10
303	Measurement of Interpeptidic Cu Exchange Rate Constants of Cu-Amyloid-□Complexes to Small Peptide Motifs by Tryptophan Fluorescence Quenching. *Inorganic Chemistry*, **2021**, 60, 7650-7659	5.1	2
302	High LET-Like Radiation Tracks at the Distal Side of Accelerated Proton Bragg Peak. *Frontiers in Oncology*, **2021**, 11, 690042	5.3	4
301	Vanadium(IV)-diamine complex with hypoglycemic activity and a reduction in testicular atrophy. *Journal of Inorganic Biochemistry*, **2021**, 216, 111312	4.2	3
300	Exploiting DNA repair pathways for tumor sensitization, mitigation of resistance, and normal tissue protection in radiotherapy. *Cancer Drug Resistance (Alhambra, Calif.)*, **2021**, 4, 244-263	4.5	4
299	Interactions of Truncated Menaquinones in Lipid Monolayers and Bilayers. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
298	Polyoxovanadates with emerging biomedical activities. *Coordination Chemistry Reviews*, **2021**, 447, 214143	23.2	30
297	Structural Analysis of SMYD3 Lysine Methyltransferase for the Development of Competitive and Specific Enzyme Inhibitors.. *Diseases (Basel, Switzerland)*, **2021**, 10,	4.4	3

296	Characterizing the Role of SMYD2 in Mammalian Embryogenesis-Future Directions. *Veterinary Sciences*, **2020**, 7,	2.4	3
295	Location of menaquinone and menaquinol headgroups in model membranes. *Canadian Journal of Chemistry*, **2020**, 98, 307-317	0.9	2
294	Initiation of a novel mode of membrane signaling: Vanadium facilitated signal transduction. *Coordination Chemistry Reviews*, **2020**, 416, 213286	23.2	16
293	A Short-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	16.4	24
292	Cytotoxicity and Mutagenicity of Narrowband UVB to Mammalian Cells. *Genes*, **2020**, 11,	4.2	2
291	ESI-MS Study of the Interaction of Potential Oxidovanadium(IV) Drugs and Amavadin with Model Proteins. *Inorganic Chemistry*, **2020**, 59, 9739-9755	5.1	13
290	Ascorbic Acid 2-Glucoside Pretreatment Protects Cells from Ionizing Radiation, UVC, and Short Wavelength of UVB. *Genes*, **2020**, 11,	4.2	6
289	Electron Scattering in Conventional Cell Flask Experiments and Dose Distribution Dependency. *Scientific Reports*, **2020**, 10, 482	4.9	
288	Polyoxometalates function as indirect activators of a G protein-coupled receptor. *Metallomics*, **2020**, 12, 1044-1061	4.5	14
287	Effects of vanadium(IV) compounds on plasma membrane lipids lead to G protein-coupled receptor signal transduction. *Journal of Inorganic Biochemistry*, **2020**, 203, 110873	4.2	10
286	Coordination Chemistry of a Controlled Burst of Zn in Bulk Aqueous and Nanosized Water Droplets with a Zincon Chelator. *Inorganic Chemistry*, **2020**, 59, 184-188	5.1	0
285	Synthesis of Naphthoquinone Derivatives: Menaquinones, Lipoquinones and Other Vitamin K Derivatives. *Molecules*, **2020**, 25,	4.8	5
284	Evaluating the Genotoxic and Cytotoxic Effects of Thymidine Analogs, 5-Ethynyl-2ϴDeoxyuridine and 5-Bromo-2ϴDeoxyurdine to Mammalian Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	5
283	The Acid-Base Equilibrium of Pyrazinoic Acid Drives the pH Dependence of Pyrazinamide-Induced Growth Inhibition. *ACS Infectious Diseases*, **2020**, 6, 3004-3014	5.5	2
282	Vanadium compounds promote biocatalysis in cells through actions on cell membranes. *Catalysis Today*, **2020**,	5.3	1
281	A Short-Lived but Highly Cytotoxic Vanadium(V) Complex as a Potential Drug Lead for Brain Cancer Treatment by Intratumoral Injections. *Angewandte Chemie*, **2020**, 132, 15968-15972	3.6	4
280	Survival in J774A.1 Cells Is Dependent on MenJ Moonlighting Activity, Not Its Enzymatic Activity. *ACS Infectious Diseases*, **2020**, 6, 2661-2671	5.5	3
279	Glycoprotein G-protein Coupled Receptors in Disease: Luteinizing Hormone Receptors and Follicle Stimulating Hormone Receptors. *Diseases (Basel, Switzerland)*, **2020**, 8,	4.4	6

278	In Silico/In Vitro Hit-to-Lead Methodology Yields SMYD3 Inhibitor That Eliminates Unrestrained Proliferation of Breast Carcinoma Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
277	Application of HPLC to measure vanadium in environmental, biological and clinical matrices. *Arabian Journal of Chemistry*, **2020**, 13, 1198-1228	5.9	9
276	The First-Row Transition Metals in the Periodic Table of Medicine. *Inorganics*, **2019**, 7, 111	2.9	16
275	DIFFERENCE IN DEGREE OF SUB-LETHAL DAMAGE RECOVERY BETWEEN CLINICAL PROTON BEAMS AND X-RAYS. *Radiation Protection Dosimetry*, **2019**, 183, 93-97	0.9	3
274	Enhancement of oncolytic virotherapy by vanadium(V) dipicolinates. *BioMetals*, **2019**, 32, 545-561	3.4	11
273	Speciation and toxicity of rhenium salts, organometallics and coordination complexes. *Coordination Chemistry Reviews*, **2019**, 394, 135-161	23.2	19
272	Organometallic and coordination rhenium compounds and their potential in cancer therapy. *Coordination Chemistry Reviews*, **2019**, 393, 79-117	23.2	84
271	Oxidative stress and endoreduplication induced by blue light exposure to CHO cells. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2019**, 841, 31-35	3	6
270	Monoenergetic 290 MeV/n carbon-ion beam biological lethal dose distribution surrounding the Bragg peak. *Scientific Reports*, **2019**, 9, 6157	4.9	7
269	Hydrophobicity may enhance membrane affinity and anti-cancer effects of Schiff base vanadium(v) catecholate complexes. *Dalton Transactions*, **2019**, 48, 6383-6395	4.3	37
268	The Effect of Green and Black Tea Polyphenols on Deficient Chinese Hamster Cells by Synthetic Lethality through PARP Inhibition. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	2
267	A Transition-State Perspective on Y-Family DNA Polymerase □Fidelity in Comparison with X-Family DNA Polymerases □and □*Biochemistry*, **2019**, 58, 1764-1773	3.2	7
266	Radiobiological Characterization of Canine Malignant Melanoma Cell Lines with Different Types of Ionizing Radiation and Efficacy Evaluation with Cytotoxic Agents. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	5
265	Investigating Substrate Analogues for Mycobacterial MenJ: Truncated and Partially Saturated Menaquinones. *Biochemistry*, **2019**, 58, 1596-1615	3.2	6
264	Exploring Wells-Dawson Clusters Associated With the Small Ribosomal Subunit. *Frontiers in Chemistry*, **2019**, 7, 462	5	4
263	Reciprocal Translocation Analysis with Whole Chromosome Painting for FISH. *Methods in Molecular Biology*, **2019**, 1984, 117-122	1.4	0
262	Micronuclei Formation Analysis After Ionizing Radiation. *Methods in Molecular Biology*, **2019**, 1984, 23-29	1.4	
261	Sister Chromatid Exchange as a Genotoxic Stress Marker. *Methods in Molecular Biology*, **2019**, 1984, 61-68	1.4	2

260	PNA Telomere and Centromere FISH Staining for Accurate Analysis of Radiation-Induced Chromosomal Aberrations. *Methods in Molecular Biology*, **2019**, 1984, 95-100	1.4	2
259	Human Lymphocyte Metaphase Chromosome Preparation for Radiation-Induced Chromosome Aberration Analysis. *Methods in Molecular Biology*, **2019**, 1984, 1-6	1.4	2
258	In Situ DNA Damaging Foci Analysis on Metaphase Chromosomes. *Methods in Molecular Biology*, **2019**, 1984, 87-93	1.4	1
257	G2 Chromosomal Radiosensitivity Assay for Testing Individual Radiation Sensitivity. *Methods in Molecular Biology*, **2019**, 1984, 39-45	1.4	0
256	CHAPTER 7:Vanadium Compounds as Enzyme Inhibitors with a Focus on Anticancer Effects. *2-Oxoglutarate-Dependent Oxygenases*, **2019**, 169-195	1.8	2
255	Small Molecules: The Past or the Future in Drug Innovation?. *Metal Ions in Life Sciences*, **2019**, 19,	2.6	14
254	Developing Vanadium as an Antidiabetic or Anticancer Drug: A Clinical and Historical Perspective. *Metal Ions in Life Sciences*, **2019**, 19,	2.6	11
253	Persistence of Gamma-H2AX Foci in Bronchial Cells Correlates with Susceptibility to Radiation Associated Lung Cancer in Mice. *Radiation Research*, **2019**, 191, 67-75	3.1	11
252	Probing of ferrocenylanilines on model micelle/reverse micelle membrane and their enhanced reactivity for reactive oxidants. *Applied Organometallic Chemistry*, **2018**, 32, e4334	3.1	4
251	Measurement of Interpeptidic Cu(II) Exchange Rate Constants by Static Fluorescence Quenching of Tryptophan. *Inorganic Chemistry*, **2018**, 57, 4791-4794	5.1	10
250	Health Benefits of Vanadium and Its Potential as an Anticancer Agent. *Metal Ions in Life Sciences*, **2018**, 18,	2.6	16
249	Ru(II) Compounds: Next-Generation Anticancer Metallotherapeutics?. *Journal of Medicinal Chemistry*, **2018**, 61, 5805-5821	8.3	238
248	Design and evaluation of a novel flavonoid-based radioprotective agent utilizing monoglucosyl rutin. *Journal of Radiation Research*, **2018**, 59, 272-281	2.4	9
247	Platinum(IV) Prodrugs. *Metal Ions in Life Sciences*, **2018**, 18,	2.6	21
246	Coordination environment changes of the vanadium in vanadium-dependent haloperoxidase enzymes. *Journal of Inorganic Biochemistry*, **2018**, 186, 267-279	4.2	27
245	Ferrocene-based anilides: synthesis, structural characterization and inhibition of butyrylcholinesterase. *Dalton Transactions*, **2018**, 47, 11769-11781	4.3	6
244	DNA Repair Deficient Chinese Hamster Ovary Cells Exhibiting Differential Sensitivity to Charged Particle Radiation under Aerobic and Hypoxic Conditions. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	12
243	Histone Deacetylase Inhibitor Induced Radiation Sensitization Effects on Human Cancer Cells after Photon and Hadron Radiation Exposure. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	22

242	Confinement Effects on Chemical Equilibria: Pentacyano(Pyrazine)Ferrate(II) Stability Changes within Nanosized Droplets of Water. *Molecules*, **2018**, 23,	4.8	2
241	Mycobacterial MenJ: An Oxidoreductase Involved in Menaquinone Biosynthesis. *ACS Chemical Biology*, **2018**, 13, 2498-2507	4.9	17
240	Novel function of HATs and HDACs in homologous recombination through acetylation of human RAD52 at double-strand break sites. *PLoS Genetics*, **2018**, 14, e1007277	6	19
239	Metallo-Drugs: Development and Action of Anticancer Agents **2018**,		15
238	Multi-modal Potentiation of Oncolytic Virotherapy by Vanadium Compounds. *Molecular Therapy*, **2018**, 26, 56-69	11.7	55
237	A Synthetic Isoprenoid Lipoquinone, Menaquinone-2, Adopts a Folded Conformation in Solution and at a Model Membrane Interface. *Journal of Organic Chemistry*, **2018**, 83, 275-288	4.2	14
236	Effect of hydroxyl group position in flavonoids on inducing single-stranded DNA damage mediated by cupric ions. *International Journal of Molecular Medicine*, **2018**, 42, 658-664	4.4	3
235	Synthesis and Characterization of Partially and Fully Saturated Menaquinone Derivatives. *ACS Omega*, **2018**, 3, 14889-14901	3.9	9
234	Decavanadate Inhibits Mycobacterial Growth More Potently Than Other Oxovanadates. *Frontiers in Chemistry*, **2018**, 6, 519	5	32
233	Palmitoyl ascorbic acid 2-glucoside has the potential to protect mammalian cells from high-LET carbon-ion radiation. *Scientific Reports*, **2018**, 8, 13822	4.9	5
232	Structure Dependence of Pyridine and Benzene Derivatives on Interactions with Model Membranes. *Langmuir*, **2018**, 34, 8939-8951	4	2
231	**2018**,		9
230	Coordination of the Ser2056 and Thr2609 Clusters of DNA-PKcs in Regulating Gamma Rays and Extremely Low Fluencies of Alpha-Particle Irradiation to G/G Phase Cells. *Radiation Research*, **2017**, 187, 259-267	3.1	5
229	Selenium speciation in the Fountain Creek Watershed and its effects on fish diversity. *Journal of Biological Inorganic Chemistry*, **2017**, 22, 751-763	3.7	4
228	Does anion-cation organization in Na+-containing X-ray crystal structures relate to solution interactions in inhomogeneous nanoscale environments: Sodium-decavanadate in solid state materials, minerals, and microemulsions. *Coordination Chemistry Reviews*, **2017**, 344, 115-130	23.2	22
227	Speciation of metal drugs, supplements and toxins in media and bodily fluids controls in vitro activities. *Coordination Chemistry Reviews*, **2017**, 352, 473-498	23.2	132
226	Hypersensitivity of BRCA2 deficient cells to rosemary extract explained by weak PARP inhibitory activity. *Scientific Reports*, **2017**, 7, 16704	4.9	3
225	Investigation of the relative biological effectiveness and uniform isobiological killing effects of irradiation with a clinical carbon SOBP beam on DNA repair deficient CHO cells. *Oncology Letters*, **2017**, 13, 4911-4916	2.6	5

224	Metal Nanoparticles and Their Toxicity **2017**, 237-293		1
223	Methods for Preparation of Metal Nanoparticles **2017**, 15-31		3
222	Metal Nanoparticles as Therapeutic Agents: A Paradigm Shift in Medicine **2017**, 33-48		2
221	Soft-Oxometalates: A New State of Oxometalates and Their Potential Applications as Nanomotors **2017**, 49-65		
220	Medicinal Applications of Metal Nanoparticles **2017**, 67-119		2
219	Metal Nanoparticles in Nanomedicine: Advantages and Scope **2017**, 121-168		3
218	Applications of Metal Nanoparticles in Medicine/Metal Nanoparticles as Anticancer Agents **2017**, 169-190		4
217	Noble Metal Nanoparticles and Their Antimicrobial Properties **2017**, 191-201		1
216	Metal Nanoparticles and Their Toxicity **2017**, 203-259		
215	PARP Inhibition by Flavonoids Induced Selective Cell Killing to BRCA2-Deficient Cells. *Pharmaceuticals*, **2017**, 10,	5.2	10
214	Selenium Speciation in the Fountain Creek Watershed (Colorado, USA) Correlates with Water Hardness, Ca and Mg Levels. *Molecules*, **2017**, 22,	4.8	7
213	Relative biological effectiveness in canine osteosarcoma cells irradiated with accelerated charged particles. *Oncology Letters*, **2016**, 12, 1597-1601	2.6	5
212	Differences in Interactions of Benzoic Acid and Benzoate with Interfaces. *Langmuir*, **2016**, 32, 9451-9	4	8
211	Novel glyceryl glucoside is a low toxic alternative for cryopreservation agent. *Biochemical and Biophysical Research Communications*, **2016**, 476, 359-364	3.4	10
210	Synthesis, structural characterization, modal membrane interaction and anti-tumor cell line studies of nitrophenyl ferrocenes. *Journal of Molecular Structure*, **2016**, 1113, 162-170	3.4	21
209	Size and shape trump charge in interactions of oxovanadates with self-assembled interfaces: application of continuous shape measure analysis to the decavanadate anion. *New Journal of Chemistry*, **2016**, 40, 962-975	3.6	14
208	Multinuclear NMR studies of aqueous vanadium–EDTA complexes. *Polyhedron*, **2016**, 114, 325-332	2.7	8
207	Data for induction of cytotoxic response by natural and novel quercetin glycosides. *Data in Brief*, **2016**, 6, 262-6	1.2	6

206	Intrinsic Radiosensitivity and Cellular Characterization of 27 Canine Cancer Cell Lines. *PLoS ONE*, **2016**, 11, e0156689	3.7	16
205	How Interfaces Affect the Acidity of the Anilinium Ion. *Chemistry - A European Journal*, **2016**, 22, 3873-80	4.8	5
204	Molecular dynamics simulation of telomeric single-stranded DNA and POT1. *Polymer Journal*, **2016**, 48, 189-195	2.7	5
203	Translational Science for Energy and Beyond. *Inorganic Chemistry*, **2016**, 55, 9131-43	5.1	9
202	In vitro screening of radioprotective properties in the novel glucosylated flavonoids. *International Journal of Molecular Medicine*, **2016**, 38, 1525-1530	4.4	9
201	Selective speciation improves efficacy and lowers toxicity of platinum anticancer and vanadium antidiabetic drugs. *Journal of Inorganic Biochemistry*, **2016**, 165, 56-70	4.2	60
200	Vanadium phosphatase complexes: Phosphatase inhibitors favor the trigonal bipyramidal transition state geometries. *Coordination Chemistry Reviews*, **2015**, 301-302, 163-199	23.2	89
199	NMR crystallography for structural characterization of oxovanadium(V) complexes: deriving coordination geometry and detecting weakly coordinated ligands at atomic resolution in the solid state. *Inorganic Chemistry*, **2015**, 54, 1363-74	5.1	13
198	Effects of targeted phosphorylation site mutations in the DNA-PKcs phosphorylation domain on low and high LET radiation sensitivity. *Oncology Letters*, **2015**, 9, 1621-1627	2.6	8
197	Induction of cytotoxic and genotoxic responses by natural and novel quercetin glycosides. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, **2015**, 784-785, 15-22	3	38
196	Evaluating transition state structures of vanadium-phosphatase protein complexes using shape analysis. *Journal of Inorganic Biochemistry*, **2015**, 147, 153-64	4.2	26
195	Caspase-3 promotes genetic instability and carcinogenesis. *Molecular Cell*, **2015**, 58, 284-96	17.6	140
194	Role of various DNA repair pathways in chromosomal inversion formation in CHO mutants. *International Journal of Radiation Biology*, **2015**, 91, 925-33	2.9	5
193	Antidiabetic, Chemical, and Physical Properties of Organic Vanadates as Presumed Transition-State Inhibitors for Phosphatases. *Journal of Organic Chemistry*, **2015**, 80, 11899-915	4.2	92
192	Partial Saturation of Menaquinone in : Function and Essentiality of a Novel Reductase, MenJ. *ACS Central Science*, **2015**, 1, 292-302	16.8	45
191	Hyperthermia-induced radiosensitization in CHO wild-type, NHEJ repair mutant and HR repair mutant following proton and carbon-ion exposure. *Oncology Letters*, **2015**, 10, 2828-2834	2.6	9
190	Validation of 64Cu-ATSM damaging DNA via high-LET Auger electron emission. *Journal of Radiation Research*, **2015**, 56, 784-91	2.4	36
189	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

188	Solution Radioactivated by Hadron Radiation Can Increase Sister Chromatid Exchanges. *PLoS ONE*, **2015**, 10, e0144619	3.7	2
187	Role of LET and chromatin structure on chromosomal inversion in CHO10B2 cells. *Genome Integrity*, **2014**, 5, 1	0.8	4
186	Correlation of insulin-enhancing properties of vanadium-dipicolinate complexes in model membrane systems: phospholipid langmuir monolayers and AOT reverse micelles. *Chemistry - A European Journal*, **2014**, 20, 5149-59	4.8	26
185	Spectroscopic Characterization of L-ascorbic Acid-induced Reduction of Vanadium(V) Dipicolinates: Formation of Vanadium(III) and Vanadium(IV) Complexes from Vanadium(V) Dipicolinate Derivatives. *Inorganica Chimica Acta*, **2014**, 420, 112-119	2.7	17
184	Novel insights into the mechanism of inhibition of MmpL3, a target of multiple pharmacophores in Mycobacterium tuberculosis. *Antimicrobial Agents and Chemotherapy*, **2014**, 58, 6413-23	5.9	137
183	Interaction of a biguanide compound with membrane model interface systems: probing the properties of antimalaria and antidiabetic compounds. *Langmuir*, **2014**, 30, 8697-706	4	20
182	Structural and redox requirements for the action of anti-diabetic vanadium compounds. *Dalton Transactions*, **2014**, 43, 6965-72	4.3	71
181	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	2.3	76
180	Monoglucosyl-rutin as a potential radioprotector in mammalian cells. *Molecular Medicine Reports*, **2014**, 10, 10-4	2.9	23
179	Differential radiosensitivity phenotypes of DNA-PKcs mutations affecting NHEJ and HRR systems following irradiation with gamma-rays or very low fluences of alpha particles. *PLoS ONE*, **2014**, 9, e93579	3.7	10
178	INTERACTION OF DECAVANADATE WITH INTERFACES AND BIOLOGICAL MODEL MEMBRANE SYSTEMS: CHARACTERIZATION OF SOFT OXOMETALATE SYSTEMS. *Journal of Molecular and Engineering Materials*, **2014**, 02, 1440007	1.3	15
177	Natural and glucosyl flavonoids inhibit poly(ADP-ribose) polymerase activity and induce synthetic lethality in BRCA mutant cells. *Oncology Reports*, **2014**, 31, 551-6	3.5	41
176	Modern Coordination Chemistry 100 Years after Werner. *European Journal of Inorganic Chemistry*, **2014**, 2014, 4413-4416	2.3	1
175	Electron-Transfer Rate Enhancements in Nanosized Waterpools. *European Journal of Inorganic Chemistry*, **2014**, 2014, 4537-4540	2.3	9
174	Guanylurea metformium double salt of decavanadate, (HGU+)4(HMet+)2(V10O286)□2H2O. *Inorganica Chimica Acta*, **2014**, 420, 85-91	2.7	15
173	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
172	Effect of Ancillary Ligand on Electronic Structure as Probed by V Solid-State NMR Spectroscopy for Vanadium--Dioxolene Complexes. *CrystEngComm*, **2013**, 15,	3.3	15
171	Preface for the forum on metals in medicine and health: new opportunities and approaches to improving health. *Inorganic Chemistry*, **2013**, 52, 12181-3	5.1	7

170	Coordination chemistry may explain pharmacokinetics and clinical response of vanadyl sulfate in type 2 diabetic patients. *Metallomics*, **2013**, 5, 1491-502	4.5	45
169	Raft localization of type I Fc receptor and degranulation of RBL-2H3 cells exposed to decavanadate, a structural model for V2O5. *Dalton Transactions*, **2013**, 42, 11912-20	4.3	19
168	Stabilization of a vanadium(V) catechol complex by compartmentalization and reduced solvation inside reverse micelles. *New Journal of Chemistry*, **2013**, 37, 75-81	3.6	12
167	Cation exchange, solvent free synthesis and packing patterns of quinolinium nickel(II) dipicolinates. *Inorganica Chimica Acta*, **2013**, 408, 204-208	2.7	9
166	Metal speciation in health and medicine represented by iron and vanadium. *Inorganic Chemistry*, **2013**, 52, 12262-75	5.1	115
165	Direct DNA and PNA probe binding to telomeric regions without classical in situ hybridization. *Molecular Cytogenetics*, **2013**, 6, 42	2	15
164	Counterion Affects Interaction with Interfaces: The Antidiabetic Drugs Metformin and Decavanadate. *European Journal of Inorganic Chemistry*, **2013**, 2013, 1859-1868	2.3	34
163	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
162	Solid-to-solid oxidation of a vanadium(IV) to a vanadium(V) compound: chemisty of a sulfur-containing siderophore. *Inorganic Chemistry*, **2012**, 51, 9144-6	5.1	10
161	Switching off electron transfer reactions in confined media: reduction of [Co(dipic)2]- and [Co(edta)]- by hexacyanoferrate(II). *Inorganic Chemistry*, **2012**, 51, 2757-65	5.1	13
160	Correlating proton transfer dynamics to probe location in confined environments. *Journal of the American Chemical Society*, **2012**, 134, 11904-7	16.4	49
159	Redox Activity in a Vanadium(V) -Dioxolene Complex Is Modulated by Protonation State As Indicated by 51V Solid-State NMR Spectroscopy and Density Functional Theory. *European Journal of Inorganic Chemistry*, **2012**, 2012, 4644-4651	2.3	7
158	The conundrum of pH in water nanodroplets: sensing pH in reverse micelle water pools. *Accounts of Chemical Research*, **2012**, 45, 1637-45	24.3	66
157	Insulin receptors and downstream substrates associate with membrane microdomains after treatment with insulin or chromium(III) picolinate. *Cell Biochemistry and Biophysics*, **2012**, 62, 441-50	3.2	11
156	Genomic instability and telomere fusion of canine osteosarcoma cells. *PLoS ONE*, **2012**, 7, e43355	3.7	25
155	Characterization of noninnocent metal complexes using solid-state NMR spectroscopy: o-dioxolene vanadium complexes. *Inorganic Chemistry*, **2011**, 50, 9794-803	5.1	39
154	Quantification of foscarnet with chromogenic and fluorogenic chemosensors: indicator displacement assays based on metal ion coordination with a catechol ligand moiety. *New Journal of Chemistry*, **2011**, 35, 2877	3.6	10
153	Antidiabetic vanadium compound and membrane interfaces: interface-facilitated metal complex hydrolysis. *Journal of Biological Inorganic Chemistry*, **2011**, 16, 961-72	3.7	48

152	Gel formulation containing mixed surfactant and lipids associating with carboplatin. *Chemistry and Biodiversity*, **2011**, 8, 2195-210	2.5	1
151	Layered structure of room-temperature ionic liquids in microemulsions by multinuclear NMR spectroscopic studies. *Chemistry - A European Journal*, **2011**, 17, 6837-46	4.8	37
150	Reduced molybenum-oxide-based core-shell hybrids: "blue" electrons are delocalized on the shell. *Chemistry - A European Journal*, **2011**, 17, 6635-42	4.8	20
149	How environment affects drug activity: Localization, compartmentalization and reactions of a vanadium insulin-enhancing compound, dipicolinatooxovanadium(V). *Coordination Chemistry Reviews*, **2011**, 255, 2178-2192	23.2	92
148	Anti-diabetic effects of a series of vanadium dipicolinate complexes in rats with streptozotocin-induced diabetes. *Coordination Chemistry Reviews*, **2011**, 255, 2258-2269	23.2	175
147	Coexisting aggregates in mixed aerosol OT and cholesterol microemulsions. *Langmuir*, **2011**, 27, 948-54	4	28
146	Acidification of reverse micellar nanodroplets by atmospheric pressure CO2. *Journal of the American Chemical Society*, **2011**, 133, 7205-14	16.4	19
145	Effects of metal compounds with distinct physicochemical properties on iron homeostasis and antibacterial activity in the lungs: chromium and vanadium. *Inhalation Toxicology*, **2010**, 22, 169-78	2.7	23
144	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, 4245-56	5.1	88
143	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, 13153-61	4	51
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