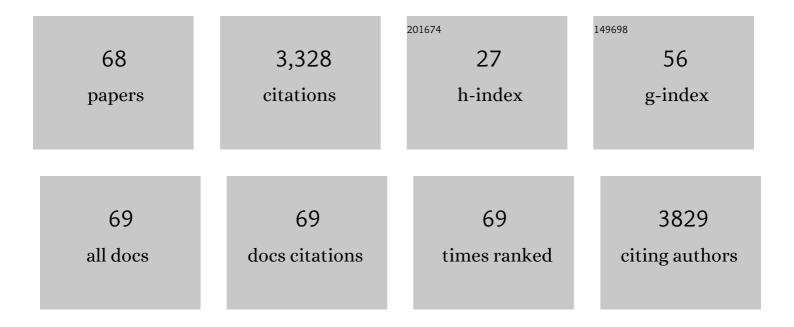
## Carl J Carrano

List of Publications by Year in descending order

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CADI I CADDANO

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The effect of iron on Chilean Alexandrium catenella growth and paralytic shellfish toxin production as related to algal blooms. BioMetals, 2022, 35, 39-51.   | 4.1 | 0         |
| 2  | Halogens in Seaweeds: Biological and Environmental Significance. Phycology, 2022, 2, 132-171.   | 3.6 | 12        |
| 3  | New insights on <i>Laminaria digitata</i> ultrastructure through combined conventional chemical fixation and cryofixation. Botanica Marina, 2021, 64, 177-187.  | 1.2 | 3         |
| 4  | Laminaria kelps impact iodine speciation chemistry in coastal seawater. Estuarine, Coastal and Shelf<br>Science, 2021, 262, 107531.   | 2.1 | 6         |
| 5  | Photoactive siderophores: Structure, function and biology. Journal of Inorganic Biochemistry, 2021, 221, 111457.  | 3.5 | 12        |
| 6  | Loss of Motility as a Non-Lethal Mechanism for Intercolony Inhibition ("Sibling Rivalryâ€ <del>)</del> in<br>Marinobacter. Microorganisms, 2021, 9, 103.  | 3.6 | 0         |
| 7  | The influence of marine algae on iodine speciation in the coastal ocean. Algae, 2020, 35, 167-176.  | 2.3 | 10        |
| 8  | Distribution of dissolved iron and bacteria producing the photoactive siderophore, vibrioferrin, in<br>waters off Southern California and Northern Baja. BioMetals, 2019, 32, 139-154.                                      | 4.1 | 6         |
| 9  | Key aspects of the iodine metabolism in brown algae: a brief critical review. Metallomics, 2019, 11,<br>756-764.  | 2.4 | 29        |
| 10 | Emission of volatile halogenated compounds, speciation and localization of bromine and iodine in the<br>brown algal genome model Ectocarpus siliculosus. Journal of Biological Inorganic Chemistry, 2018,<br>23, 1119-1128. | 2.6 | 24        |
| 11 | Iron and Harmful Algae Blooms: Potential Algal-Bacterial Mutualism Between Lingulodinium<br>polyedrum and Marinobacter algicola. Frontiers in Marine Science, 2018, 5, .  | 2.5 | 18        |
| 12 | Iron uptake and storage in the HAB dinoflagellate Lingulodinium polyedrum. BioMetals, 2017, 30,<br>945-953.   | 4.1 | 4         |
| 13 | Mössbauer Spectroscopic Characterization of Iron(III)–Polysaccharide Coordination Complexes:<br>Photochemistry, Biological, and Photoresponsive Materials Implications. Inorganic Chemistry, 2017,<br>56, 11524-11531.      | 4.0 | 12        |
| 14 | Some aspects of the iodine metabolism of the giant kelp Macrocystis pyrifera (phaeophyceae). Journal<br>of Inorganic Biochemistry, 2017, 177, 82-88.  | 3.5 | 14        |
| 15 | The potential role of kelp forests on iodine speciation in coastal seawater. PLoS ONE, 2017, 12, e0180755.  | 2.5 | 15        |
| 16 | Correction: Surface binding, localization and storage of iron in the giant kelp Macrocystis pyrifera.<br>Metallomics, 2016, 8, 551-551.   | 2.4 | 2         |
| 17 | Surface binding, localization and storage of iron in the giant kelp Macrocystis pyrifera. Metallomics, 2016, 8, 403-411.  | 2.4 | 9         |
| 18 | A Family of Homo―and Heteroscorpionate Ligands: Applications to Bioinorganic Chemistry. European<br>Journal of Inorganic Chemistry, 2016, 2016, 2377-2390.  | 2.0 | 21        |

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|----|---|------|-----------|
| 19 | Boron uptake, localization, and speciation in marine brown algae. Metallomics, 2016, 8, 161-169.  | 2.4  | 14        |
| 20 | Surface-bound iron: a metal ion buffer in the marine brown alga <i>Ectocarpus siliculosus</i> ?.<br>Journal of Experimental Botany, 2014, 65, 585-594.  | 4.8  | 16        |
| 21 | Evaluation of photo-reactive siderophore producing bacteria before, during and after a bloom of the dinoflagellate Lingulodinium polyedrum. Metallomics, 2014, 6, 1156-1163.  | 2.4  | 13        |
| 22 | Detection of photoactive siderophore biosynthetic genes in the marine environment. BioMetals, 2013, 26, 507-516.  | 4.1  | 17        |
| 23 | Synthesis, Characterization, and Dynamic Behaviour of Triosmium Clusters Containing the Tridentate<br>Ligand {Ph2PCH2CH2}2S (PSP). European Journal of Inorganic Chemistry, 2013, 2013, 2447-2459.  | 2.0  | 10        |
| 24 | Atypical iron storage in marine brown algae: a multidisciplinary study of iron transport and storage<br>in Ectocarpus siliculosus. Journal of Experimental Botany, 2012, 63, 5763-5772.   | 4.8  | 24        |
| 25 | A multidisciplinary study of iron transport and storage in the marine green alga Tetraselmis suecica.<br>Journal of Inorganic Biochemistry, 2012, 116, 188-194.   | 3.5  | 13        |
| 26 | Iron transport and storage in the coccolithophore: Emiliania huxleyi. Metallomics, 2012, 4, 1160.   | 2.4  | 11        |
| 27 | Iron transport in the genus Marinobacter. BioMetals, 2012, 25, 135-147.   | 4.1  | 32        |
| 28 | Siderophore-mediated iron uptake in two clades of Marinobacter spp. associated with phytoplankton:<br>the role of light. BioMetals, 2012, 25, 181-192.  | 4.1  | 27        |
| 29 | The Ectocarpus genome and the independent evolution of multicellularity in brown algae. Nature, 2010, 465, 617-621.   | 27.8 | 774       |
| 30 | Directed Synthesis of the Triangular Mixed-Metal Cluster<br>H <sub>2</sub> RhRe <sub>2</sub> Cp*(CO) <sub>9</sub> : Ligand Fluxionality and Facile Cluster<br>Fragmentation in the Presence of CO, Halogenated Solvents, and Thiols. Organometallics, 2010, 29,<br>61-75.                         | 2.3  | 11        |
| 31 | Photolysis of iron–siderophore chelates promotes bacterial–algal mutualism. Proceedings of the<br>National Academy of Sciences of the United States of America, 2009, 106, 17071-17076.   | 7.1  | 446       |
| 32 | Boron and Marine Life: A New Look at an Enigmatic Bioelement. Marine Biotechnology, 2009, 11, 431-440.  | 2.4  | 48        |
| 33 | α-Diimine Ligand Coordination and C–H Bond Activation in the Reaction of Os3(CO)10(MeCN)2 with<br>6-R-2,2′-Bipyridine (where RÂ=ÂEt, Ph): X-ray Diffraction Structures of the Ortho-Metalated Hydride<br>Clusters HOs3(CO)9(N2C10H6-6-R). Journal of Chemical Crystallography, 2009, 39, 820-826. | 1.1  | 2         |
| 34 | Ferric Stability Constants of Representative Marine Siderophores: Marinobactins, Aquachelins, and<br>Petrobactin. Inorganic Chemistry, 2009, 48, 11466-11473.   | 4.0  | 38        |
| 35 | Vibrioferrin, an Unusual Marine Siderophore: Iron Binding, Photochemistry, and Biological<br>Implications. Inorganic Chemistry, 2009, 48, 11451-11458.  | 4.0  | 77        |
| 36 | Boron Binding by a Siderophore Isolated from Marine Bacteria Associated with the Toxic<br>DinoflagellateGymnodiniumcatenatum. Journal of the American Chemical Society, 2007, 129, 478-479.   | 13.7 | 70        |

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|----|--|------|-----------|
| 37 | Synthesis and characterization of heteroscorpionate dioxo-tungsten(VI) complexes. Inorganica<br>Chimica Acta, 2007, 360, 1961-1969.  | 2.4  | 9         |
| 38 | Oxidation-state and metal-ion dependent stereoisomerization in oxo molybdenum and tungsten complexes of a bulky alkoxy heteroscorpionate ligand. Dalton Transactions, 2006, , 3822.  | 3.3  | 20        |
| 39 | Photoreactivity of Iron(III)â^'Aerobactin:Â Photoproduct Structure and Iron(III) Coordination. Inorganic<br>Chemistry, 2006, 45, 6028-6033.  | 4.0  | 91        |
| 40 | H-Bonding Interactions and Control of Thiolate Nucleophilicity and Specificity in Model Complexes of Zinc Metalloproteins. Inorganic Chemistry, 2005, 44, 2012-2017.   | 4.0  | 65        |
| 41 | A Family of Dioxoâ^'Molybdenum(VI) Complexes of N2X Heteroscorpionate Ligands of Relevance to<br>Molybdoenzymes. Inorganic Chemistry, 2004, 43, 7800-7806.   | 4.0  | 54        |
| 42 | Isomerization and Oxygen Atom Transfer Reactivity in Oxoâ^'Mo Complexes of Relevance to Molybdoenzymes. Inorganic Chemistry, 2004, 43, 7573-7575.  | 4.0  | 39        |
| 43 | Title is missing!. Journal of Chemical Crystallography, 2003, 33, 431-436.   | 1.1  | 5         |
| 44 | Synthesis and characterization of several zinc(II) complexes containing the bulky heteroscorpionate ligand bis(5-tert-butyl-3-methylpyrazol-2-yl)acetate: relevance to the resting states of the zinc(II) enzymes thermolysin and carboxypeptidase A. Inorganica Chimica Acta, 2003, 346, 227-238. | 2.4  | 50        |
| 45 | Control of Thiolate Nucleophilicity and Specificity in Zinc Metalloproteins by Hydrogen Bonding:Â<br>Lessons from Model Compound Studies. Journal of the American Chemical Society, 2003, 125, 868-869.  | 13.7 | 92        |
| 46 | Donor Atom Dependent Geometric Isomers in Mononuclear Oxoâ `Molybdenum(V) Complexes:Â<br>Implications for Coordinated Endogenous Ligation in Molybdoenzymes. Inorganic Chemistry, 2003, 42,<br>5999-6007.  | 4.0  | 28        |
| 47 | Synthesis, Characterization, Electrochemistry, Electronic Structure, and Isomerization of<br>Mononuclear Oxoâ `Molybdenum(V) Complexes: The Serine Gate Hypothesis in the Function of DMSO<br>Reductases. Inorganic Chemistry, 2002, 41, 1281-1291.  | 4.0  | 34        |
| 48 | Metal complexes of 3-carboxyethyl substituted trispyrazolylborates: interactions with the ester carbonyl oxygens. Dalton Transactions RSC, 2002, , 3374-3380.  | 2.3  | 16        |
| 49 | Zinc complexes of hydrogen bond accepting ester substituted trispyrazolylborates. Inorganica Chimica Acta, 2002, 341, 33-38.   | 2.4  | 25        |
| 50 | New H-bond accepting tris(pyrazolyl)borates: stabilization of metal aquo species as models for the vicinal oxygen chelate enzyme superfamily. Dalton Transactions RSC, 2001, , 1448-1451.  | 2.3  | 24        |
| 51 | Geometric Control of Reduction Potential in Oxomolybdenum Centers:Â Implications to the Serine<br>Coordination in DMSO Reductase. Inorganic Chemistry, 2001, 40, 2632-2633.  | 4.0  | 28        |
| 52 | Methylation of (2-Methylethanethiol-bis-3,5-dimethylpyrazolyl)methane Zinc Complexes and<br>Coordination of the Resulting Thioether:Â Relevance to Zinc-Containing Alkyl Transfer Enzymes.<br>Inorganic Chemistry, 2001, 40, 919-927.  | 4.0  | 74        |
| 53 | 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        |
| 54 | Heterobactins: A new class of siderophores from Rhodococcus erythropolis IGTS8 containing both hydroxamate and catecholate donor groups. BioMetals, 2001, 14, 119-125.   | 4.1  | 77        |

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|----|---|------|-----------|
| 55 | The structure and characterization of zinc heteroscorpionate complexes containing pentafluorothiophenol. Inorganica Chimica Acta, 2000, 300-302, 427-433.   | 2.4  | 13        |
| 56 | Methylation of (2-methylethanethiol-bis-3,5-dimethylpyrazolyl)methane zinc complexes and coordination of the resulting thioether: relevance to zinc-containing alkyl transfer enzymes. Chemical Communications, 2000, , 1635-1636.  | 4.1  | 49        |
| 57 | Structure and physical properties of several pseudotetrahedral zinc complexes containing a new alkyl thiolate heteroscorpionate ligand. Dalton Transactions RSC, 2000, , 3304-3309.   | 2.3  | 43        |
| 58 | Synthesis and Characterization of Pseudotetrahedral N2O and N2S Zinc(II) Complexes of Two<br>Heteroscorpionate Ligands:  Models for the Binding Sites of Several Zinc Metalloproteins. Inorganic<br>Chemistry, 1999, 38, 4593-4600.   | 4.0  | 88        |
| 59 | A new class of biomimetically relevant â€ <sup>~</sup> Scorpionateâ€ <sup>™</sup> ligands III. The bis(pyrazolyl)methane(phen-2′-ol)s:<br>Synthesis and structural characterization of mono and dinuclear copper(II) complexes. Inorganica<br>Chimica Acta, 1998, 273, 14-23. | 2.4  | 22        |
| 60 | Homo- and Heterometallic Mono-, Di-, and Trinuclear Co2+, Ni2+, Cu2+, and Zn2+Complexes of the<br>"Heteroscorpionate―Ligand (2-Hydroxyphenyl)bis(pyrazolyl)methane and Its Derivatives. Inorganic<br>Chemistry, 1998, 37, 1473-1482.  | 4.0  | 23        |
| 61 | A New Class of Biomimetically Relevant "Scorpionate―Ligands. 2. The<br>(2-Hydroxyphenyl)bis(pyrazolyl)methanes:Â Structural Characterization of a Series of Mono-, Di-, and<br>Trinuclear Nickel(II) Complexes. Inorganic Chemistry, 1997, 36, 298-306.                       | 4.0  | 80        |
| 62 | A New Class of Biomimetically Relevant "Scorpionate―Ligands. 1. The<br>(2-Hydroxyphenyl)bis(pyrazolyl)methanes:Â Synthesis and Structural Characterization of Some<br>Cobalt(II) Complexes. Inorganic Chemistry, 1997, 36, 291-297.   | 4.0  | 86        |
| 63 | Coordination Chemistry of the Carboxylate Type Siderophore Rhizoferrin:Â The Iron(III) Complex and Its<br>Metal Analogs. Inorganic Chemistry, 1996, 35, 6429-6436.  | 4.0  | 81        |
| 64 | Fungal ferritins: The ferritin from mycelia ofAbsidia spinosais a bacterioferritin. FEBS Letters, 1996,<br>390, 261-264.  | 2.8  | 29        |
| 65 | Specificity and mechanism of rhizoferrin-mediated metal ion uptake. BioMetals, 1996, 9, 185.  | 4.1  | 10        |
| 66 | Base-Free Monomeric Organogallium Hydrides. Angewandte Chemie International Edition in English,<br>1994, 33, 1253-1255.   | 4.4  | 18        |
| 67 | Basenfreie monomere Organogalliumhydride. Angewandte Chemie, 1994, 106, 1354-1356.  | 2.0  | 5         |
| 68 | Coordination chemistry of microbial iron transport compounds. 16. Isolation, characterization, and formation constants of ferric aerobactin. Journal of the American Chemical Society, 1979, 101, 2722-2727.  | 13.7 | 156       |