

# Rachel Codd

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82  
papers

2,540  
citations

26  
h-index

48  
g-index

90  
ext. papers

2,743  
ext. citations

5.1  
avg, IF

5.16  
L-index

#	Paper	IF	Citations
82	Adding a diazo-transfer reagent to culture to generate secondary metabolite probes for click chemistry.. <i>Methods in Enzymology</i> , <b>2022</b> , 665, 49-71	1.7	
81	Siderophores and iron transport <b>2021</b> ,		0
80	Directing macrocyclic architecture using iron(III)-, gallium(III)-, or zirconium(IV)-assisted ring closure of linear dimeric endo-hydroxamic acid ligands. <i>Journal of Inorganic Biochemistry</i> , <b>2021</b> , 216, 111337	4.2	1
79	Azido-Desferrioxamine Siderophores as Functional Click-Chemistry Probes Generated in Culture upon Adding a Diazo-Transfer Reagent. <i>ChemBioChem</i> , <b>2020</b> , 21, 1433-1445	3.8	3
78	Improved Access to Linear Tetrameric Hydroxamic Acids with Potential as Radiochemical Ligands for Zirconium(iv)-89 PET Imaging. <i>Australian Journal of Chemistry</i> , <b>2020</b> ,	1.2	4
77	Immobilized Metal Affinity Chromatography as a Drug Discovery Platform for Metalloenzyme Inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 12116-12127	8.3	1
76	-Hydroxamic Acid Monomers for the Assembly of a Suite of Non-native Dimeric Macrocyclic Siderophores Using Metal-Templated Synthesis. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 13591-13603	5.1	4
75	Preparation of a Dithiol-Reactive Probe for PET Imaging of Cell Death. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1967, 295-304	1.4	3
74	Analogues of desferrioxamine B (DFOB) with new properties and new functions generated using precursor-directed biosynthesis. <i>BioMetals</i> , <b>2019</b> , 32, 395-408	3.4	2
73	Exploring hydroxamic acid inhibitors of HDAC1 and HDAC2 using small molecule tools and molecular or homology modelling. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2019</b> , 29, 2581-2586	2.9	1
72	Engineering a cleavable disulfide bond into a natural product siderophore using precursor-directed biosynthesis. <i>Chemical Communications</i> , <b>2018</b> , 54, 9813-9816	5.8	8
71	Fluorinated Analogues of Desferrioxamine B from Precursor-Directed Biosynthesis Provide New Insight into the Capacity of DesBCD. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 2456-2471	4.9	8
70	Advances in the Chemical Biology of Desferrioxamine B. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 11-25	4.9	38
69	Rubikū Cube of Siderophore Assembly Established from Mixed-Substrate Precursor-Directed Biosynthesis. <i>ACS Omega</i> , <b>2018</b> , 3, 18160-18169	3.9	4
68	The chemical biology and coordination chemistry of putrebactin, avaroferrin, bisucaberin, and alcaligin. <i>Journal of Biological Inorganic Chemistry</i> , <b>2018</b> , 23, 969-982	3.7	10
67	Octadentate Zirconium(IV)-Loaded Macrocycles with Varied Stoichiometry Assembled From Hydroxamic Acid Monomers using Metal-Templated Synthesis. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 3719-3728	5.1	21
66	Adamantyl- and other polycyclic cage-based conjugates of desferrioxamine B (DFOB) for treating iron-mediated toxicity in cell models of Parkinson's disease. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2017</b> , 27, 1698-1704	2.9	9

65	Analogues of desferrioxamine B designed to attenuate iron-mediated neurodegeneration: synthesis, characterisation and activity in the MPTP-mouse model of Parkinson's disease. <i>Metallomics</i> , <b>2017</b> , 9, 852-864	4.5	20
64	Exploiting the biosynthetic machinery of <i>Streptomyces pilosus</i> to engineer a water-soluble zirconium(IV) chelator. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 5719-5730	3.9	25
63	Reverse Biosynthesis: Generating Combinatorial Pools of Drug Leads from Enzyme-Mediated Fragmentation of Natural Products. <i>ChemBioChem</i> , <b>2017</b> , 18, 368-373	3.8	4
62	Dimeric and trimeric homo- and heteroleptic hydroxamic acid macrocycles formed using mixed-ligand Fe(III)-based metal-templated synthesis. <i>Journal of Inorganic Biochemistry</i> , <b>2017</b> , 177, 344-351	4.2	6
61	Simultaneous biosynthesis of putrebactin, avaroferrin and bisucaberin by <i>Shewanella putrefaciens</i> and characterisation of complexes with iron(III), molybdenum(VI) or chromium(V). <i>Journal of Inorganic Biochemistry</i> , <b>2016</b> , 162, 207-215	4.2	23
60	Mixing Up the Pieces of the Desferrioxamine B Jigsaw Defines the Biosynthetic Sequence Catalyzed by DesD. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 1452-62	4.9	21
59	The BET bromodomain inhibitor exerts the most potent synergistic anticancer effects with quinone-containing compounds and anti-microtubule drugs. <i>Oncotarget</i> , <b>2016</b> , 7, 79217-79232	3.3	14
58	Hands-On Approach to Structure Activity Relationships: The Synthesis, Testing, and Hansch Analysis of a Series of Acetylcholinesterase Inhibitors. <i>Journal of Chemical Education</i> , <b>2015</b> , 92, 1745-1750	2.4	3
57	Forward and reverse (retro) iron(III) or gallium(III) desferrioxamine E and ring-expanded analogues prepared using metal-templated synthesis from endo-hydroxamic acid monomers. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 3573-83	5.1	12
56	The resolution of two clinical agents, bleomycin and desferrioxamine B, from a <i>Streptomyces verticillus</i> fermentation mixture using multi-dimensional immobilised metal ion affinity chromatography. <i>RSC Advances</i> , <b>2015</b> , 5, 3443-3453	3.7	8
55	Isolation of doxorubicin from a bacterial culture using immobilised metal ion affinity chromatography. <i>RSC Advances</i> , <b>2015</b> , 5, 46437-46442	3.7	3
54	Unsaturated macrocyclic dihydroxamic acid siderophores produced by <i>Shewanella putrefaciens</i> using precursor-directed biosynthesis. <i>ACS Chemical Biology</i> , <b>2014</b> , 9, 945-56	4.9	32
53	Dinuclear [(V(V)O(putrebactin)) <sub>2</sub> (EOCH <sub>3</sub> ) <sub>2</sub> ] formed in solution as established from LC-MS measurements using 50V-enriched V <sub>2</sub> O <sub>5</sub> . <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 5852-61	5.1	10
52	Solution species of Fe(III), Ga(III), In(III) or Ln(III) and suberodihydroxamic acid from electrospray ionization mass spectrometry. <i>RSC Advances</i> , <b>2013</b> , 3, 16051	3.7	2
51	The variable hydroxamic acid siderophore metabolome of the marine actinomycete <i>Salinispora tropica</i> CNB-440. <i>Metallomics</i> , <b>2013</b> , 5, 1519-28	4.5	36
50	Lipophilic adamantyl- or deferasirox-based conjugates of desferrioxamine B have enhanced neuroprotective capacity: implications for Parkinson disease. <i>Free Radical Biology and Medicine</i> , <b>2013</b> , 60, 147-56	7.8	26
49	Amide-based derivatives of alanine hydroxamic acid as histone deacetylase inhibitors: attenuation of potency through resonance effects. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2012</b> , 22, 6200-4	2.9	5
48	Coordinate-bond-dependent solid-phase organic synthesis of biotinylated desferrioxamine B: a new route for metal-specific probes. <i>Chemical Communications</i> , <b>2012</b> , 48, 2003-5	5.8	5

47	Proteomics of <i>Pseudomonas aeruginosa</i> Australian epidemic strain 1 (AES-1) cultured under conditions mimicking the cystic fibrosis lung reveals increased iron acquisition via the siderophore pyochelin. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 776-95	5.6	33
46	Directing the biosynthesis of putrebactin or desferrioxamine B in <i>Shewanella putrefaciens</i> through the upstream inhibition of ornithine decarboxylase. <i>Chemistry and Biodiversity</i> , <b>2012</b> , 9, 1880-90	2.5	25
45	Copper(II)-based metal affinity chromatography for the isolation of the anticancer agent bleomycin from <i>Streptomyces verticillus</i> culture. <i>Journal of Inorganic Biochemistry</i> , <b>2012</b> , 115, 198-203	4.2	25
44	Analytical-scale purification of trichostatin A from bacterial culture in a single step and with high selectivity using immobilised metal affinity chromatography. <i>RSC Advances</i> , <b>2012</b> , 2, 333-337	3.7	10
43	Complexes formed in solution between vanadium(IV)/(V) and the cyclic dihydroxamic acid putrebactin or linear suberodihydroxamic acid. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 5978-89	5.1	18
42	Cold adaptation of the mononuclear molybdoenzyme periplasmic nitrate reductase from the Antarctic bacterium <i>Shewanella gelidimarina</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 414, 783-8	3.4	10
41	Comparing the potential renal protective activity of desferrioxamine B and the novel chelator desferrioxamine B-N-(3-hydroxyadamant-1-yl)carboxamide in a cell model of myoglobinuria. <i>Biochemical Journal</i> , <b>2011</b> , 435, 669-77	3.8	11
40	The many faces of the adamantyl group in drug design. <i>European Journal of Medicinal Chemistry</i> , <b>2011</b> , 46, 1949-63	6.8	198
39	The periplasmic nitrate reductase in <i>Shewanella</i> : the resolution, distribution and functional implications of two NAP isoforms, NapEDABC and NapDAGHB. <i>Microbiology (United Kingdom)</i> , <b>2010</b> , 156, 302-312	2.9	59
38	Resolution of two native monomeric 90kDa nitrate reductase active proteins from <i>Shewanella gelidimarina</i> and the sequence of two napA genes. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 398, 13-8	3.4	15
37	Structural diversity of complexes between Cu(II) or Ni(II) and endocyclic oxygen- or nitrogen-containing ligands: synthesis, X-ray structure determinations and circular dichroism spectra. <i>CrystEngComm</i> , <b>2010</b> , 12, 4217	3.3	10
36	Conjugates of desferrioxamine B (DFOB) with derivatives of adamantane or with orally available chelators as potential agents for treating iron overload. <i>Journal of Medicinal Chemistry</i> , <b>2010</b> , 53, 1370-82	8.3	41
35	Cloning, expression, purification and crystallization of dihydrodipicolinate synthase from the psychrophile <i>Shewanella benthica</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2010</b> , 66, 1511-6		9
34	Zn(II)-dependent histone deacetylase inhibitors: suberoylanilide hydroxamic acid and trichostatin A. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2009</b> , 41, 736-9	5.6	98
33	2,5-Dioxopyrrolidin-1-yl adamantane-1-carboxyl-ate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 65, o1740-1		3
32	Methyl 3-[(1-adamantylcarbon-yloxy)amino-carbon-yl]propanoate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 65, o1742-3		2
31	Chromium in Cancer and Dietary Supplements. <i>Biological Magnetic Resonance</i> , <b>2009</b> , 551-579	0.5	6
30	Immobilised metal affinity chromatography for the capture of hydroxamate-containing siderophores and other Fe(III)-binding metabolites directly from bacterial culture supernatants. <i>Analyst, The</i> , <b>2008</b> , 133, 877-80	5	25

29	Studies of iron-uptake mechanisms in two bacterial species of the shewanella genus adapted to middle-range ( <i>Shewanella putrefaciens</i> ) or antarctic ( <i>Shewanella gelidimarina</i> ) temperatures. <i>Chemistry and Biodiversity</i> , <b>2008</b> , 5, 2113-23	2.5	16
28	Traversing the coordination chemistry and chemical biology of hydroxamic acids. <i>Coordination Chemistry Reviews</i> , <b>2008</b> , 252, 1387-1408	23.2	209
27	Life on Earth. Extremophiles Continue to Move the Goal Posts. <i>Environmental Chemistry</i> , <b>2006</b> , 3, 77	3.2	39
26	Aqua[bis(2-pyridylmethyl)amine][chelidonato(1.5)]copper(II) chelidonate(0.5)]monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2006</b> , 62, m3582-m3584		9
25	Chromium(V) complexes generated in <i>Arthrobacter oxydans</i> by simulation analysis of EPR spectra. <i>Journal of Inorganic Biochemistry</i> , <b>2006</b> , 100, 1827-33	4.2	22
24	Chromium(V) complexes of hydroxamic acids: formation, structures, and reactivities. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 2934-43	5.1	34
23	Coordination modes between copper(II) and N-acetylneuraminic (sialic) acid from a 2D-simulation analysis of EPR spectra. Implications for copper mediation of sialoglycoconjugate chemistry relevant to human biology. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 2531-43	5.1	14
22	Metalloglycomics: a new perspective upon competitive metal-carbohydrate binding using EPR spectroscopy. <i>Chemical Communications</i> , <b>2004</b> , 2653-5	5.8	9
21	X-ray absorption spectroscopic studies of chromium(V/IV/III)- 2-ethyl-2-hydroxybutanoato(2-/1-) complexes. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 1046-55	5.1	32
20	Sialoglycoprotein and carbohydrate complexes in chromium toxicity. <i>Current Opinion in Chemical Biology</i> , <b>2003</b> , 7, 213-9	9.7	59
19	Oxochromium(V) species formed with 2,3-dehydro-2-deoxy-N-acetylneuraminic or N-acetylneuraminic (sialic) acids: an in vitro model system of oxochromium(V) species potentially stabilized in the respiratory tract upon inhalation of carcinogenic chromium(VI) compounds. <i>Chemical Research in Toxicology</i> , <b>2003</b> , 16, 881-92	4	23
18	Pulsed ELDOR spectroscopy of the Mo(V)/Fe(III) state of sulfite oxidase prepared by one-electron reduction with Ti(III) citrate. <i>Journal of Biological Inorganic Chemistry</i> , <b>2002</b> , 7, 338-50	3.7	45
17	A potential synthon for models of vanadium haloperoxidase: (3,5-dimethylpyrazole)bis[2-hydroxy-2-methylbutanoato(1)]oxovanadium(IV). <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2002</b> , 58, m737-m739		3
16	Studies on the genotoxicity of chromium: from the test tube to the cell. <i>Coordination Chemistry Reviews</i> , <b>2001</b> , 216-217, 537-582	23.2	162
15	Chromium(V)-sialic (neuraminic) acid species are formed from mixtures of chromium(VI) and saliva. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 11799-800	16.4	29
14	Characterization and X-ray absorption spectroscopic studies of bis[quinato(2-)]oxochromate(V). <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 990-7	5.1	32
13	Competition between 1,2-Diol and 2-Hydroxy Acid Coordination in Cr(V)-Quinic Acid Complexes: Implications for Stabilization of Cr(V) Intermediates of Relevance to Cr(VI)-Induced Carcinogenesis. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 7864-7876	16.4	46
12	In vitro plasmid DNA cleavage by chromium(V) and -(IV) 2-hydroxycarboxylato complexes. <i>Chemical Research in Toxicology</i> , <b>1999</b> , 12, 371-81	4	51

11	Stability and Ligand Exchange Reactions of Chromium(IV) Carboxylato Complexes in Aqueous Solutions1. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 5440-5448	5.1	57
10	Synthesis, Characterization, and Crystal Structure of a Vanadium(V)-Vanadium(IV)-Vanadium(V) Mixed-Valence Trinuclear Complex with a Tridentate Quinato Ligand, (NH <sub>4</sub> ) <sub>2</sub> {[VV(O) <sub>2</sub> ] <sub>2</sub> [VIV(O)](μ <sub>3</sub> -(-)-quinato(3-)) <sub>2</sub> }.cntdot.H <sub>2</sub> O. <i>Inorganic Chemistry</i> , <b>1995</b> , 34, 877-882	5.1	46
9	EPR characterisation of the CrV intermediates in the CrVI/V oxidations of organic substrates and of relevance to Cr-induced cancers. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1995</b> , 91, 1207		81
8	Electrochemical investigations of poplar, spinach, cucumber, and parsley plastocyanins at conventional and microsized carbon electrodes. <i>Inorganic Chemistry</i> , <b>1992</b> , 31, 5007-5014	5.1	22
7	The expression, purification and crystallization of the epsilon subunit of the F1 portion of the ATPase of Escherichia coli. <i>Journal of Molecular Biology</i> , <b>1992</b> , 228, 306-9	6.5	4
6	Measurement of (1- $\alpha$ ), (1- $\beta$ )-D-glucan in barley and oats: A streamlined enzymic procedure. <i>Journal of the Science of Food and Agriculture</i> , <b>1991</b> , 55, 303-312	4.3	313
5	Resonance Raman spectra of plastocyanin and pseudoazurin: evidence for conserved cysteine ligand conformations in cupredoxins (blue copper proteins). <i>Biochemistry</i> , <b>1991</b> , 30, 10904-13	3.2	72
4	Measurement of $\alpha$ -amylase in cereal flours and commercial enzyme preparations. <i>Journal of Cereal Science</i> , <b>1989</b> , 9, 17-33	3.8	128
3	Pyrolysis and mesophase formation from sucrose. <i>Carbon</i> , <b>1988</b> , 26, 553-558	10.4	5
2	Chromium in Biology: Toxicology and Nutritional Aspects145-250		4
1	New Applications of Immobilized Metal Ion Affinity Chromatography in Chemical Biology1-35		2