

# Robert P Doyle

## List of Publications by Year in descending order

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99  
papers

2,469  
citations

186265

28  
h-index

233421

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105  
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105  
docs citations

105  
times ranked

3169  
citing authors

#	ARTICLE	IF	CITATIONS
1	Glucagon-like peptide-1 in diabetes care: Can glycaemic control be achieved without nausea and vomiting?. <i>British Journal of Pharmacology</i> , 2022, 179, 542-556.	5.4	19
2	Single nuclei RNA sequencing of the rat AP and NTS following GDF15 treatment. <i>Molecular Metabolism</i> , 2022, 56, 101422.	6.5	7
3	Synthesis, characterization and crystal structure of a glycyglycinate chelate of zinc(II). <i>Results in Chemistry</i> , 2022, 4, 100274.	2.0	0
4	Photocatalytic turnover of CO <sub>2</sub> under visible light by [Re(CO) <sub>3</sub> (1-(1,10)) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (phenanthroline-5	3.6	1
5	Crystal and Molecular Structures of 2,2'-bipyridine-5,5'-dicarboxylate Complexes: [M(II)(O <sub>2</sub> CC <sub>10</sub> H <sub>6</sub> N <sub>2</sub> CO <sub>2</sub> )(H <sub>2</sub> O) <sub>4</sub> ] (M = Co, Ni). <i>Journal of Chemical Crystallography</i> , 2021, 51, 191-195.	1.1	0
6	[Re(CO) <sub>3</sub> (5-PAN)Cl], a rhenium naphthalimide complex for the visible light photocatalytic reduction of CO <sub>2</sub> . <i>Dalton Transactions</i> , 2021, 50, 3479-3486.	3.3	9
7	Design and Evaluation of Peptide Dual-Agonists of GLP-1 and NPY2 Receptors for Glucoregulation and Weight Loss with Mitigated Nausea and Emesis. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 1127-1138.	6.4	21
8	Synthesis, Optimization, and Biological Evaluation of Corrinated Conjugates of the GLP-1R Agonist Exendin-4. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 3479-3492.	6.4	2
9	Synthesis and Chemical and Biological Evaluation of a Glycine Tripeptide Chelate of Magnesium. <i>Molecules</i> , 2021, 26, 2419.	3.8	6
10	A novel dual agonist of glucagon-like peptide-1 receptors and neuropeptide Y2 receptors attenuates fentanyl taking and seeking in male rats. <i>Neuropharmacology</i> , 2021, 192, 108599.	4.1	15
11	Synthesis, Characterization, and Cellular Uptake of Magnesium Maltol and Ethylmaltol Complexes. <i>ACS Omega</i> , 2021, 6, 29713-29723.	3.5	1
12	A novel approach to treating opioid use disorders: Dual agonists of glucagon-like peptide-1 receptors and neuropeptide Y2 receptors. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 131, 1169-1179.	6.1	10
13	Synthesis, Characterization, and Cellular Uptake of a Glycyglycine Chelate of Magnesium. <i>ACS Omega</i> , 2021, 6, 33454-33461.	3.5	0
14	GDF15 Induces Anorexia through Nausea and Emesis. <i>Cell Metabolism</i> , 2020, 31, 351-362.e5.	16.2	132
15	Fenretinide binding to the lysosomal protein saposin D alters ceramide solubilization and hydrolysis. <i>RSC Medicinal Chemistry</i> , 2020, 11, 1048-1052.	3.9	0
16	Corrination of a GLP-1 Receptor Agonist for Glycemic Control without Emesis. <i>Cell Reports</i> , 2020, 31, 107768.	6.4	18
17	The Coordination Chemistry of Bio-Relevant Ligands and Their Magnesium Complexes. <i>Molecules</i> , 2020, 25, 3172.	3.8	19
18	A second-generation glucagon-like peptide-1 receptor agonist mitigates vomiting and anorexia while retaining glucoregulatory potency in lean diabetic and emetic mammalian models. <i>Diabetes, Obesity and Metabolism</i> , 2020, 22, 1729-1741.	4.4	13

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19	Dorsal vagal complex and hypothalamic glia differentially respond to leptin and energy balance dysregulation. <i>Translational Psychiatry</i> , 2020, 10, 90.	4.8	15
20	Hydrothermal synthesis and structure of a two-dimensional Fe(III)-organodiphosphonate compound, [Fe(O3PCH2C6H4CH2PO3H)(H2O)], and an Expansion of the Harris Notation. <i>Inorganica Chimica Acta</i> , 2020, 506, 119518.	2.4	2
21	FRET Reporter Assays for cAMP and Calcium in a 96-well Format Using Genetically Encoded Biosensors Expressed in Living Cells. <i>Bio-protocol</i> , 2020, 10, .	0.4	7
22	Synthesis, structure and magnetic properties of a binuclear Co(II)-pyrophosphate complex, [Co2(phenanthroline-dione)4(P2O7)]. <i>Polyhedron</i> , 2019, 170, 705-711.	2.2	2
23	Synthesis and structural and magnetic characterization of an Iron(III) pyrophosphate complex with 1,10-phenanthroline. <i>Inorganica Chimica Acta</i> , 2019, 498, 119084.	2.4	8
24	Systemically Administered Plant Recombinant Holo-Intrinsic Factor Targets the Liver and is not Affected by Endogenous B12 levels. <i>Scientific Reports</i> , 2019, 9, 12269.	3.3	2
25	Defining the origins of multiple emission/excitation in rhenium-bisthiazole complexes. <i>Inorganica Chimica Acta</i> , 2019, 489, 301-309.	2.4	4
26	Exploring the biological, catalytic, and magnetic properties of transition metal coordination complexes incorporating pyrophosphate. <i>Coordination Chemistry Reviews</i> , 2019, 384, 37-64.	18.8	23
27	A methylenediphosphonate bridged copper(II) tetramer: Synthesis, structural, thermal, and magnetic characterization of [Cu4(H2O)2(phen)4(1/4-P2O6CH2)2]·21H2O. <i>Polyhedron</i> , 2019, 169, 162-168.	2.2	7
28	Nonconventional glucagon and GLP-1 receptor agonist and antagonist interplay at the GLP-1 receptor revealed in high-throughput FRET assays for cAMP. <i>Journal of Biological Chemistry</i> , 2019, 294, 3514-3531.	3.4	24
29	Chimeric peptide EP45 as a dual agonist at GLP-1 and NPY2R receptors. <i>Scientific Reports</i> , 2018, 8, 3749.	3.3	35
30	A vitamin B12 conjugate of exendin-4 improves glucose tolerance without associated nausea or hypophagia in rodents. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 1223-1234.	4.4	25
31	Metal-citrate complex transport in <i>Kineococcus radiotolerans</i> . <i>Journal of Basic Microbiology</i> , 2018, 58, 209-216.	3.3	0
32	Recombinant Manganese Peroxidase Reduces A2E Burden in Age-Related and Stargardt's Macular Degeneration Models. <i>Rejuvenation Research</i> , 2018, 21, 560-571.	1.8	13
33	Challenges in the Diagnosis of Magnesium Status. <i>Nutrients</i> , 2018, 10, 1202.	4.1	117
34	Cover Image, Volume 20, Issue 5. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, i.	4.4	0
35	Sapoin B Binds the Lipofuscin Bisretinoid A2E and Prevents its Enzymatic and Photooxidation. <i>ChemPhotoChem</i> , 2017, 1, 256-259.	3.0	4
36	Exploring the Multiligand Binding Specificity of Sapoin B Reveals Two Binding Sites. <i>ACS Omega</i> , 2017, 2, 7141-7145.	3.5	4

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37	<sup>89</sup> Zr-Cobalamin PET Tracer: Synthesis, Cellular Uptake, and Use for Tumor Imaging. ACS Omega, 2017, 2, 6314-6320.	3.5	19
38	Sapoin B Binds the Lipofuscin Bisretinoid A2E and Prevents its Enzymatic and Photooxidation. ChemPhotoChem, 2017, 1, 255-255.	3.0	0
39	14. Vitamin B12 and Drug Development. , 2017, , 338-364.		1
40	The Lysosomal Protein Sapoin B Binds Chloroquine. ChemMedChem, 2016, 11, 277-282.	3.2	25
41	Solution Structure and Constrained Molecular Dynamics Study of Vitamin B <sub>12</sub> Conjugates of the Anorectic Peptide PYY(3-36). ChemMedChem, 2016, 11, 1015-1021.	3.2	6
42	Clinical isolates of Candida albicans, Candida tropicalis, and Candida krusei have different susceptibilities to Co(II) and Cu(II) complexes of 1,10-phenanthroline. BioMetals, 2015, 28, 415-423.	4.1	10
43	Vitamin B12 Conjugation of Peptide-YY3-36 Decreases Food Intake Compared to Native Peptide-YY3-36 Upon Subcutaneous Administration in Male Rats. Endocrinology, 2015, 156, 1739-1749.	2.8	22
44	Ferromagnetic Coupling in $\mu$ -Double-Bridged $\mu$ -Dihydrogenpyrophosphate Complexes of Cobalt(II) and Nickel(II). Inorganic Chemistry, 2015, 54, 6537-6546.	4.0	12
45	Enhanced Peptide Stability Against Protease Digestion Induced by Intrinsic Factor Binding of a Vitamin B <sub>12</sub> Conjugate of Exendin-4. Molecular Pharmaceutics, 2015, 12, 3502-3506.	4.6	13
46	Investigation of a Vitamin B <sub>12</sub> Conjugate as a PET Imaging Probe. ChemMedChem, 2014, 9, 1244-1251.	3.2	18
47	Single amino acid chelate complexes of the M(CO) <sub>3</sub> + core for correlating fluorescence and radioimaging studies (M = <sup>99m</sup> Tc or Re). Journal of Labelled Compounds and Radiopharmaceuticals, 2014, 57, 255-261.	1.0	42
48	Emission wavelength variation with changes in excitation in a Re(i)-bisthiazole ligand complex that breaks the Kasha-Vavilov rule. Chemical Science, 2013, 4, 2490.	7.4	29
49	Co(II) and Cu(II) pyrophosphate complexes have selectivity and potency against Mycobacteria including Mycobacterium tuberculosis. European Journal of Medicinal Chemistry, 2013, 70, 589-593.	5.5	26
50	Aging-related changes in the iron status of skeletal muscle. Experimental Gerontology, 2013, 48, 1294-1302.	2.8	43
51	Synthesis, Characterization and Pharmacodynamics of Vitamin B <sub>12</sub> -Conjugated Glucagon-Like Peptide-1. ChemMedChem, 2013, 8, 582-586.	3.2	28
52	Site-Selective Oxidation of Vitamin B12 Using 2-Iodoxybenzoic Acid. Synlett, 2012, 23, 2363-2366.	1.8	10
53	Tailoring Quantum Dot Interfaces for Improved Biofunctionality and Energy Transfer. ACS Symposium Series, 2012, , 59-79.	0.5	1
54	Expression and purification of human PYY(3-36) in Escherichia coli using a His-tagged small ubiquitin-like modifier fusion. Protein Expression and Purification, 2012, 85, 51-59.	1.3	3

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55	Pyro without Fire: Synthesis, Structure, and Reactivity of a Dimeric Vanadyl Pyrophosphate Coordination Complex. <i>Inorganic Chemistry</i> , 2012, 51, 10077-10079.	4.0	10
56	Metal-citrate complex uptake and CitMHS transporters: From coordination chemistry to possible vaccine development. <i>Inorganica Chimica Acta</i> , 2012, 393, 125-134.	2.4	13
57	Examining the effects of vitamin B12 conjugation on the biological activity of insulin: a molecular dynamic and in vivo oral uptake investigation. <i>MedChemComm</i> , 2012, 3, 1054.	3.4	11
58	Synthesis, structural, thermal, and magnetic investigations of Co(II), Ni(II), and Mn(II) pyrophosphate chains. <i>Inorganica Chimica Acta</i> , 2012, 389, 151-158.	2.4	11
59	Preliminary investigation of skeletal muscle signal recognition particle receptor beta in response to aging in the rat. <i>FASEB Journal</i> , 2012, 26, 1075.15.	0.5	1
60	Pyrophosphate-Mediated Magnetic Interactions in Cu(II) Coordination Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 378-389.	4.0	48
61	A Modular Phase Transfer and Ligand Exchange Protocol for Quantum Dots. <i>Langmuir</i> , 2011, 27, 4371-4379.	3.5	62
62	Trifluoroacetic Acid-Assisted Crystallization of Vitamin B <sub>12</sub> Results in Protonation of the Phosphate Group of the Nucleotide Loop: Insight into the Influence of Crystal Packing Forces on Vitamin B <sub>12</sub> Structures. <i>Inorganic Chemistry</i> , 2011, 50, 220-230.	4.0	11
63	Isostructural Pd <sup>II</sup> and Pt <sup>II</sup> Pyrophosphato Complexes: Polymorphism and Unusual Bond Character in d <sup>8</sup> Systems. <i>Inorganic Chemistry</i> , 2011, 50, 2507-2520.	4.0	56
64	Oral Delivery of the Appetite Suppressing Peptide hPYY(3-36) through the Vitamin B <sub>12</sub> Uptake Pathway. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 8707-8711.	6.4	33
65	Vitamin B <sub>12</sub> in drug delivery: breaking through the barriers to a B <sub>12</sub> bioconjugate pharmaceutical. <i>Expert Opinion on Drug Delivery</i> , 2011, 8, 127-140.	5.0	92
66	Synthesis and structure of a lead(II) citrate: {Na(H <sub>2</sub> O) <sub>3</sub> }[Pb <sub>5</sub> (C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> ) <sub>3</sub> (C <sub>6</sub> H <sub>6</sub> O <sub>7</sub> )(H <sub>2</sub> O) <sub>3</sub> ]·9.5H <sub>2</sub> O. <i>Inorganica Chimica Acta</i> , 2011, 378, 186-193.	2.4	9
67	Synthesis, cytotoxicity and cellular uptake studies of N3 functionalized Re(CO) <sub>3</sub> thymidine complexes. <i>Dalton Transactions</i> , 2011, 40, 6216.	3.3	37
68	A water soluble vitamin B12-Re(i) fluorescent conjugate for cell uptake screens: use in the confirmation of cubilin in the lung cancer line A549. <i>Chemical Communications</i> , 2011, 47, 9792.	4.1	39
69	Recombinant expression of His-tagged saposin B and pH-dependent binding to the lipid coenzyme Q10. <i>Analytical Biochemistry</i> , 2011, 419, 145-152.	2.4	8
70	Reinvestigation of Coenzyme Q10 Isolation from <i>Sporidiobolus johnsonii</i> . <i>Chemistry and Biodiversity</i> , 2011, 8, 1033-1051.	2.1	15
71	Synthesis, Cytotoxicity, and Insight into the Mode of Action of Re(CO) <sub>3</sub> Thymidine Complexes. <i>ChemMedChem</i> , 2010, 5, 1513-1529.	3.2	35
72	Coordination complexes incorporating pyrophosphate: Structural overview and exploration of their diverse magnetic, catalytic and biological properties. <i>Coordination Chemistry Reviews</i> , 2010, 254, 890-915.	18.8	54

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73	Expanding Monomeric Pyrophosphate Complexes beyond Platinum. <i>Inorganic Chemistry</i> , 2010, 49, 6790-6792.	4.0	14
74	The binding of vitamin B12 to transcobalamin(II); structural considerations for bioconjugate design—a molecular dynamics study. <i>Molecular BioSystems</i> , 2010, 6, 1611.	2.9	15
75	Secondary transport of metal-citrate complexes: the CitMHS family. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2010, 45, 453-462.	5.2	17
76	R161, K452 and R460 residues are vital for metal-citrate complex transport in CitSc from <i>Streptomyces coelicolor</i> . <i>Metallomics</i> , 2010, 2, 342.	2.4	4
77	Traveling the Vitamin B <sub>12</sub> Pathway: Oral Delivery of Protein and Peptide Drugs. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1022-1028.	13.8	123
78	Pyrophosphate-bridged complexes with picomolar toxicity. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1254-1264.	3.5	50
79	The coordination chemistry of 1,4,7,10-tetraazacyclododecane-N,N',N'',N'''-tetraacetic acid (H4DOTA): Structural overview and analyses on structure-stability relationships. <i>Coordination Chemistry Reviews</i> , 2009, 253, 1906-1925.	18.8	128
80	Targeting the Cubilin Receptor through the Vitamin B <sub>12</sub> Uptake Pathway: Cytotoxicity and Mechanistic Insight through Fluorescent Re(I) Delivery. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 5253-5261.	6.4	76
81	Targeting the Folate Receptor (FR): Imaging and Cytotoxicity of Re <sup>I</sup> Conjugates in FR-Overexpressing Cancer Cells. <i>ChemMedChem</i> , 2008, 3, 1387-1394.	3.2	76
82	Synthesis, Structural, Thermal and Magnetic Characterization of a Pyrophosphato-Bridged Cobalt(II) Complex. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2691-2697.	2.0	26
83	Synthesis, Structural, Magnetic and Thermal Characterization of {[Cu(bipy)] <sub>2</sub> ( <sup>1</sup> / <sub>4</sub> HP <sub>2</sub> O <sub>7</sub> )( <sup>1</sup> / <sub>4</sub> Cl)}·H <sub>2</sub> O. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 5281-5286.	2.0	13
84	Spin canting in an unprecedented three-dimensional pyrophosphate- and 2,2'-bipyrimidine-bridged cobalt(II) framework. <i>Dalton Transactions</i> , 2008, , 5152.	3.3	39
85	Functional Characterization and Metal Ion Specificity of the Metal-Citrate Complex Transporter from <i>Streptomyces coelicolor</i> . <i>Journal of Bacteriology</i> , 2008, 190, 5616-5623.	2.2	26
86	On the evolutionary significance and metal-binding characteristics of a monolobal transferrin from <i>Ciona intestinalis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3268-3273.	7.1	27
87	Synthesis, Characterization, and In Vitro Assay of Folic Acid Conjugates of 3-Azido-3-Deoxythymidine (AZT): Toward Targeted AZT Based Anticancer Therapeutics. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2008, 27, 173-185.	1.1	15
88	Targeting Gallium to Cancer Cells through the Folate Receptor. <i>Drug Target Insights</i> , 2008, 3, DTI.S651.	1.4	8
89	Metamorphosis of a butterfly: synthesis, structural, thermal, magnetic and DFT characterisation of a ferromagnetically coupled tetranuclear copper(II) complex. <i>Dalton Transactions</i> , 2007, , 5140.	3.3	21
90	Synthesis and Structural and Magnetic Characterization of {[Cu(phen) <sub>2</sub> ] <sub>2</sub> ( <sup>1</sup> / <sub>4</sub> -P <sub>2</sub> O <sub>7</sub> )}·27H <sub>2</sub> O and {[Mn(phen) <sub>2</sub> ] <sub>2</sub> ( <sup>1</sup> / <sub>4</sub> -P <sub>2</sub> O <sub>7</sub> )}·13H <sub>2</sub> O: Rare Examples of Coordination Complexes with the Pyrophosphate Ligand. <i>Inorganic Chemistry</i> , 2007, 46, 6668-6674.	4.0	41

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91	Synthesis, X-ray Structure, Thermal and Magnetic Behavior of $[(bipy)_2Ni_2(\frac{1}{4}-Cl)_2Cl_2(H_2O)_2]$ : The First Neutral Ferromagnetically Coupled Six-Coordinate Dichlorido-Bridged Nickel(II) Dimer. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 2083-2088.	2.0	17
92	Vitamin B <sub>12</sub> as a Carrier for the Oral Delivery of Insulin. <i>ChemMedChem</i> , 2007, 2, 1717-1721.	3.2	62
93	Hydrogen-bond tuning of ferromagnetic interactions: synthesis, structure and magnetic properties of polynuclear copper(ii) complexes incorporating p-block oxo-anions. <i>Dalton Transactions</i> , 2006, , 2081.	3.3	40
94	A molecular "back-flip": the structural consequences of the crystal-to-crystal phase transition between $[(phen)_2CuCO_3] \cdot 11H_2O$ and $[(phen)_2CuCO_3] \cdot 7H_2O$ . <i>CrystEngComm</i> , 2006, 8, 904-908.	2.6	3
95	Synthesis, structure and thermal analysis of the gallium complex of 1,4,7,10-tetraazacyclo-dodecane-N,N <sup>2</sup> ,N <sup>3</sup> ,N <sup>6</sup> -tetraacetic acid (DOTA). <i>Polyhedron</i> , 2006, 25, 3457-3462.	2.2	56
96	Polynuclear complexes with bridging pyrophosphate ligands: synthesis and characterisation of $\{[(bipy)Cu(H_2O)(\mu-P_2O_7)Na_2(H_2O)_6] \cdot 4H_2O\}$ , $\{[(bipy)Zn(H_2O)(\mu-P_2O_7)Zn(bipy)]_2 \cdot 14H_2O\}$ and $\{[(bipy)(VO)_2]_2(\mu-P_2O_7)] \cdot 5H_2O\}$ . <i>Dalton Transactions</i> , 2005, , 3745.	3.3	34
97	Synthesis and structural and magnetic characterisation of tetranuclear Cu(ii) complexes possessing novel $[Cu_4(\frac{1}{4}-PO_4)_2(\frac{1}{2}-CO_3)]$ butterfly cores that exhibit supramolecular isomerism. <i>Dalton Transactions</i> , 2003, , 4230-4237.	3.3	44
98	A dihydrogen arsenate-mediated supramolecular network: crystal structure and magnetic properties of $\{[(bipy)Cu(\frac{1}{4}-H_2AsO_4)(H_2AsO_4)]_2\}_n$ . <i>CrystEngComm</i> , 2002, 4, 13-16.	2.6	18
99	Structure and Magnetic Properties of a Pyrophosphate-Bridged Cu(II) Complex. <i>Inorganic Chemistry</i> , 2001, 40, 1726-1727.	4.0	54