

Robert P Doyle

List of Publications by Year in descending order

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99
papers

2,469
citations

186265

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105
all docs

105
docs citations

105
times ranked

3169
citing authors

#	ARTICLE	IF	CITATIONS
1	GDF15 Induces Anorexia through Nausea and Emesis. <i>Cell Metabolism</i> , 2020, 31, 351-362.e5.	16.2	132
2	The coordination chemistry of 1,4,7,10-tetraazacyclododecane-N,N ² ,N ³ ,N ^{2&3} -tetraacetic acid (H4DOTA): Structural overview and analyses on structure-stability relationships. <i>Coordination Chemistry Reviews</i> , 2009, 253, 1906-1925.	18.8	128
3	Traveling the Vitamin B ₁₂ Pathway: Oral Delivery of Protein and Peptide Drugs. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1022-1028.	13.8	123
4	Challenges in the Diagnosis of Magnesium Status. <i>Nutrients</i> , 2018, 10, 1202.	4.1	117
5	Vitamin B ₁₂ in drug delivery: breaking through the barriers to a B ₁₂ bioconjugate pharmaceutical. <i>Expert Opinion on Drug Delivery</i> , 2011, 8, 127-140.	5.0	92
6	Targeting the Folate Receptor (FR): Imaging and Cytotoxicity of Re ^I Conjugates in FR ⁺ Overexpressing Cancer Cells. <i>ChemMedChem</i> , 2008, 3, 1387-1394.	3.2	76
7	Targeting the Cubilin Receptor through the Vitamin B ₁₂ Uptake Pathway: Cytotoxicity and Mechanistic Insight through Fluorescent Re(I) Delivery. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 5253-5261.	6.4	76
8	Vitamin B ₁₂ as a Carrier for the Oral Delivery of Insulin. <i>ChemMedChem</i> , 2007, 2, 1717-1721.	3.2	62
9	A Modular Phase Transfer and Ligand Exchange Protocol for Quantum Dots. <i>Langmuir</i> , 2011, 27, 4371-4379.	3.5	62
10	Synthesis, structure and thermal analysis of the gallium complex of 1,4,7,10-tetraazacyclo-dodecane-N,N ² ,N ³ ,N ⁴ -tetraacetic acid (DOTA). <i>Polyhedron</i> , 2006, 25, 3457-3462.	2.2	56
11	Isostructural Pd ^{II} and Pt ^{II} Pyrophosphato Complexes: Polymorphism and Unusual Bond Character in d ⁸ d ⁸ Systems. <i>Inorganic Chemistry</i> , 2011, 50, 2507-2520.	4.0	56
12	Structure and Magnetic Properties of a Pyrophosphate-Bridged Cu(II) Complex. <i>Inorganic Chemistry</i> , 2001, 40, 1726-1727.	4.0	54
13	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
14	Pyrophosphate-bridged complexes with picomolar toxicity. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1254-1264.	3.5	50
15	Pyrophosphate-Mediated Magnetic Interactions in Cu(II) Coordination Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 378-389.	4.0	48
16	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
17	Ageing-related changes in the iron status of skeletal muscle. <i>Experimental Gerontology</i> , 2013, 48, 1294-1302.	2.8	43
18	Single amino acid chelate complexes of the M(CO) ₃ core for correlating fluorescence and radioimaging studies (M = ^{99m} Tc or Re). <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 255-261.	1.0	42

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19	Synthesis and Structural and Magnetic Characterization of $\{[(\text{phen})_2\text{Ni}]_2(\text{P}_2\text{O}_7)_2\} \cdot 27\text{H}_2\text{O}$ and $\{[(\text{phen})_2\text{Mn}]_2(\text{P}_2\text{O}_7)_2\} \cdot 13\text{H}_2\text{O}$: Rare Examples of Coordination Complexes with the Pyrophosphate Ligand. <i>Inorganic Chemistry</i> , 2007, 46, 6668-6674.	4.0	41
20	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
21	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
22	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
23	Synthesis, cytotoxicity and cellular uptake studies of N3 functionalized $\text{Re}(\text{CO})_3$ thymidine complexes. <i>Dalton Transactions</i> , 2011, 40, 6216.	3.3	37
24	Synthesis, Cytotoxicity, and Insight into the Mode of Action of $\text{Re}(\text{CO})_3$ Thymidine Complexes. <i>ChemMedChem</i> , 2010, 5, 1513-1529.	3.2	35
25	Chimeric peptide EP45 as a dual agonist at GLP-1 and NPY2R receptors. <i>Scientific Reports</i> , 2018, 8, 3749.	3.3	35
26	Polynuclear complexes with bridging pyrophosphate ligands: synthesis and characterisation of $\{[(\text{bipy})\text{Cu}(\text{H}_2\text{O})(\mu\text{-P}_2\text{O}_7)\text{Na}_2(\text{H}_2\text{O})_6] \cdot 4\text{H}_2\text{O}\}$, $\{[(\text{bipy})\text{Zn}(\text{H}_2\text{O})(\mu\text{-P}_2\text{O}_7)\text{Zn}(\text{bipy})]_2 \cdot 14\text{H}_2\text{O}\}$ and $\{[(\text{bipy})(\text{VO})_2]_2(\mu\text{-P}_2\text{O}_7) \cdot 5\text{H}_2\text{O}\}$. <i>Dalton Transactions</i> , 2005, , 3745.	3.3	34
27	Oral Delivery of the Appetite Suppressing Peptide hPYY(3-36) through the Vitamin B ₁₂ Uptake Pathway. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 8707-8711.	6.4	33
28	Emission wavelength variation with changes in excitation in a $\text{Re}(\text{i})$ -bisthiazole ligand complex that breaks the Kasha-Vavilov rule. <i>Chemical Science</i> , 2013, 4, 2490.	7.4	29
29	Synthesis, Characterization and Pharmacodynamics of Vitamin B ₁₂ Conjugated Glucagon-Like Peptide-1. <i>ChemMedChem</i> , 2013, 8, 582-586.	3.2	28
30	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
31	Synthesis, Structural, Thermal and Magnetic Characterization of a Pyrophosphate-Bridged Cobalt(II) Complex. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2691-2697.	2.0	26
32	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
33	Co(II) and Cu(II) pyrophosphate complexes have selectivity and potency against Mycobacteria including <i>Mycobacterium tuberculosis</i> . <i>European Journal of Medicinal Chemistry</i> , 2013, 70, 589-593.	5.5	26
34	The Lysosomal Protein Saposin-B Binds Chloroquine. <i>ChemMedChem</i> , 2016, 11, 277-282.	3.2	25
35	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
36	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

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37	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
38	Vitamin B12 Conjugation of Peptide-YY3â€“36 Decreases Food Intake Compared to Native Peptide-YY3â€“36 Upon Subcutaneous Administration in Male Rats. <i>Endocrinology</i> , 2015, 156, 1739-1749.	2.8	22
39	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
40	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
41	⁸⁹ Zr-Cobalamin PET Tracer: Synthesis, Cellular Uptake, and Use for Tumor Imaging. <i>ACS Omega</i> , 2017, 2, 6314-6320.	3.5	19
42	The Coordination Chemistry of Bio-Relevant Ligands and Their Magnesium Complexes. <i>Molecules</i> , 2020, 25, 3172.	3.8	19
43	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
44	A dihydrogen arsenate-mediated supramolecular network: crystal structure and magnetic properties of {[<i>(bipy)</i> Cu($\frac{1}{4}$ -H ₂ AsO ₄)(H ₂ AsO ₄)] ₂ } _n . <i>CrystEngComm</i> , 2002, 4, 13-16.	2.6	18
45	Investigation of a Vitamin B ₁₂ Conjugate as a PET Imaging Probe. <i>ChemMedChem</i> , 2014, 9, 1244-1251.	3.2	18
46	Corrination of a GLP-1 Receptor Agonist for Glycemic Control without Emesis. <i>Cell Reports</i> , 2020, 31, 107768.	6.4	18
47	Synthesis, X-ray Structure, Thermal and Magnetic Behavior of [(<i>bipy</i>) ₂ Ni ₂ ($\frac{1}{4}$ -Cl) ₂ Cl ₂ (H ₂ O) 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
48	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
49	Synthesis, Characterization, and In Vitro Assay of Folic Acid Conjugates of 3- ² -Azido-3- ² -Deoxythymidine (AZT): Toward Targeted AZT Based Anticancer Therapeutics. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2008, 27, 173-185.	1.1	15
50	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
51	Reinvestigation of Coenzyme Q10 Isolation from <i>Sporidiobolus johnsonii</i> . <i>Chemistry and Biodiversity</i> , 2011, 8, 1033-1051.	2.1	15
52	Dorsal vagal complex and hypothalamic glia differentially respond to leptin and energy balance dysregulation. <i>Translational Psychiatry</i> , 2020, 10, 90.	4.8	15
53	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
54	Expanding Monomeric Pyrophosphate Complexes beyond Platinum. <i>Inorganic Chemistry</i> , 2010, 49, 6790-6792.	4.0	14

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55	Synthesis, Structural, Magnetic and Thermal Characterization of $\{[\text{Cu}(\text{bipy})]_2(\frac{1}{4}\text{HP})_2\text{O}_7\}(\frac{1}{4}\text{Cl})\cdot 2\text{H}_2\text{O}$. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 5281-5286.	2.0	13
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	Enhanced Peptide Stability Against Protease Digestion Induced by Intrinsic Factor Binding of a Vitamin B ₁₂ Conjugate of Exendin-4. <i>Molecular Pharmaceutics</i> , 2015, 12, 3502-3506.	4.6	13
58	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
59	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
60	Ferromagnetic Coupling in "Double-Bridged" Dihydrogenpyrophosphate Complexes of Cobalt(II) and Nickel(II). <i>Inorganic Chemistry</i> , 2015, 54, 6537-6546.	4.0	12
61	Trifluoroacetic Acid-Assisted Crystallization of Vitamin B ₁₂ Results in Protonation of the Phosphate Group of the Nucleotide Loop: Insight into the Influence of Crystal Packing Forces on Vitamin B ₁₂ Structures. <i>Inorganic Chemistry</i> , 2011, 50, 220-230.	4.0	11
62	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
63	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
64	Site-Selective Oxidation of Vitamin B12 Using 2-Iodoxybenzoic Acid. <i>Synlett</i> , 2012, 23, 2363-2366.	1.8	10
65	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
66	Clinical isolates of <i>Candida albicans</i> , <i>Candida tropicalis</i> , and <i>Candida krusei</i> have different susceptibilities to Co(II) and Cu(II) complexes of 1,10-phenanthroline. <i>BioMetals</i> , 2015, 28, 415-423.	4.1	10
67	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
68	Synthesis and structure of a lead(II) "citrate": $\{\text{Na}(\text{H}_2\text{O})_3\}[\text{Pb}_5(\text{C}_6\text{H}_5\text{O}_7)_3(\text{C}_6\text{H}_6\text{O}_7)(\text{H}_2\text{O})_3]\cdot 9.5\text{H}_2\text{O}$. <i>Inorganica Chimica Acta</i> , 2011, 378, 186-193.	2.4	9
69	$[\text{Re}(\text{CO})_3(5\text{-PAN})\text{Cl}]$, a rhenium(<i>scpi</i>) naphthalimide complex for the visible light photocatalytic reduction of CO_2 . <i>Dalton Transactions</i> , 2021, 50, 3479-3486.	3.3	9
70	Targeting Gallium to Cancer Cells through the Folate Receptor. <i>Drug Target Insights</i> , 2008, 3, DTI.S651.	1.4	8
71	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
72	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

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73	A methylenediphosphonate bridged copper(II) tetramer: Synthesis, structural, thermal, and magnetic characterization of [Cu ₄ (H ₂ O) ₂ (phen) ₄ (1/4-P ₂ O ₆ CH ₂) ₂] \cdot 21H ₂ O. <i>Polyhedron</i> , 2019, 169, 162-168.	2.2	7
74	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
75	Single nuclei RNA sequencing of the rat AP and NTS following GDF15 treatment. <i>Molecular Metabolism</i> , 2022, 56, 101422.	6.5	7
76	Solution Structure and Constrained Molecular Dynamics Study of Vitamin B ₁₂ Conjugates of the Anorectic Peptide PYY(3-36). <i>ChemMedChem</i> , 2016, 11, 1015-1021.	3.2	6
77	Synthesis and Chemical and Biological Evaluation of a Glycine Tripeptide Chelate of Magnesium. <i>Molecules</i> , 2021, 26, 2419.	3.8	6
78	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
79	Saposin B Binds the Lipofuscin Bisretinoid A2E and Prevents its Enzymatic and Photooxidation. <i>ChemPhotoChem</i> , 2017, 1, 256-259.	3.0	4
80	Exploring the Multiligand Binding Specificity of Saposin B Reveals Two Binding Sites. <i>ACS Omega</i> , 2017, 2, 7141-7145.	3.5	4
81	Defining the origins of multiple emission/excitation in rhenium-bisthiazole complexes. <i>Inorganica Chimica Acta</i> , 2019, 489, 301-309.	2.4	4
82	A molecular "back-flip": the structural consequences of the crystal-to-crystal phase transition between [(phen) ₂ CuCO ₃] \cdot 11H ₂ O and [(phen) ₂ CuCO ₃] \cdot 7H ₂ O. <i>CrystEngComm</i> , 2006, 8, 904-908.	2.6	3
83	Expression and purification of human PYY(3-36) in <i>Escherichia coli</i> using a His-tagged small ubiquitin-like modifier fusion. <i>Protein Expression and Purification</i> , 2012, 85, 51-59.	1.3	3
84	Synthesis, structure and magnetic properties of a binuclear Co(II)-pyrophosphate complex, [Co ₂ (phenanthroline-dione) ₄ (P ₂ O ₇)]. <i>Polyhedron</i> , 2019, 170, 705-711.	2.2	2
85	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
86	Hydrothermal synthesis and structure of a two-dimensional Fe(III)-organodiphosphonate compound, [Fe(O ₃ PCH ₂ C ₆ H ₄ CH ₂ PO ₃ H)(H ₂ O)], and an Expansion of the Harris Notation. <i>Inorganica Chimica Acta</i> , 2020, 506, 119518.	2.4	2
87	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
88	Tailoring Quantum Dot Interfaces for Improved Biofunctionality and Energy Transfer. <i>ACS Symposium Series</i> , 2012, , 59-79.	0.5	1
89	14. Vitamin B12 and Drug Development. , 2017, , 338-364.		1
90	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

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91	Synthesis, Characterization, and Cellular Uptake of Magnesium Maltol and Ethylmaltol Complexes. ACS Omega, 2021, 6, 29713-29723.	3.5	1
92	Photocatalytic turnover of CO ₂ under visible light by [Re(CO) ₃ (1-(1,10)) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (phenanthroline-5-ylidene)pyridine] complex. Journal of Inorganic Biochemistry, 2022, 12, 5080-5084.	3.6	1
93	Sapoin B Binds the Lipofuscin Bisretinoid A2E and Prevents its Enzymatic and Photooxidation. ChemPhotoChem, 2017, 1, 255-255.	3.0	0
94	Metal-citrate complex transport in <i>Kineococcus radiotolerans</i> . Journal of Basic Microbiology, 2018, 58, 209-216.	3.3	0
95	Cover Image, Volume 20, Issue 5. Diabetes, Obesity and Metabolism, 2018, 20, i.	4.4	0
96	Fenretinide binding to the lysosomal protein sapoin D alters ceramide solubilization and hydrolysis. RSC Medicinal Chemistry, 2020, 11, 1048-1052.	3.9	0
97	Crystal and Molecular Structures of 2,2'-bipyridine-5,5'-dicarboxylate Complexes: [M(II)(O ₂ CC ₁₀ H ₆ N ₂ CO ₂)(H ₂ O) ₄] (M = Co, Ni). Journal of Chemical Crystallography, 2021, 51, 191-195.	1.1	0
98	Synthesis, Characterization, and Cellular Uptake of a Glycylglycine Chelate of Magnesium. ACS Omega, 2021, 6, 33454-33461.	3.5	0
99	Synthesis, characterization and crystal structure of a glycylglycinate chelate of zinc(II). Results in Chemistry, 2022, 4, 100274.	2.0	0