

# Janet R Morrow

## List of Publications by Year in descending order

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67  
papers

2,799  
citations

136950

32  
h-index

175258

52  
g-index

152  
all docs

152  
docs citations

152  
times ranked

1926  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic metallonucleases for RNA cleavage. <i>Current Opinion in Chemical Biology</i> , 2004, 8, 192-200.	6.1	219
2	Lanthanide(III) Tetraamide Macrocyclic Complexes as Synthetic Ribonucleases: Structure and Catalytic Properties of [La(tcmc)(CF <sub>3</sub> SO <sub>3</sub> )(EtOH)](CF <sub>3</sub> SO <sub>3</sub> ) <sub>2</sub> . <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 773-775.	4.4	171
3	Cooperativity between Metal Ions in the Cleavage of Phosphate Diesters and RNA by Dinuclear Zn(II) Catalysts. <i>Inorganic Chemistry</i> , 2003, 42, 7737-7746.	4.0	143
4	Chloroform-Soluble Schiff-Base Zn(II) or Cd(II) Complexes from a Dynamic Combinatorial Library. <i>Inorganic Chemistry</i> , 2001, 40, 1591-1596.	4.0	138
5	Iron(II) PARACEST MRI Contrast Agents. <i>Journal of the American Chemical Society</i> , 2011, 133, 14154-14156.	13.7	108
6	Phosphate Binding Energy and Catalysis by Small and Large Molecules. <i>Accounts of Chemical Research</i> , 2008, 41, 539-548.	15.6	105
7	A Redox-Activated MRI Contrast Agent that Switches Between Paramagnetic and Diamagnetic States. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13997-14000.	13.8	95
8	The NiCEST Approach: Nickel(II) ParaCEST MRI Contrast Agents. <i>Journal of the American Chemical Society</i> , 2012, 134, 18503-18505.	13.7	79
9	Effect of Mixed Pendent Groups on the Solution and Catalytic Properties of Europium(III) Macrocyclic Complexes: Bifunctional and Monofunctional Amide and Alcohol Pendants in Septadentate or Octadentate Ligands. <i>Inorganic Chemistry</i> , 1998, 37, 3989-3998.	4.0	78
10	RNA Cleavage and Phosphate Diester Transesterification by Encapsulated Lanthanide Ions: Traversing the Lanthanide Series with Lanthanum(III), Europium(III), and Lutetium(III) Complexes of 1,4,7,10-Tetrakis(2-hydroxyalkyl)-1,4,7,10-tetraazacyclododecane. <i>Inorganic Chemistry</i> , 1994, 33, 5036-5041.	4.0	77
11	CoCEST: cobalt(ii) amide-appended paraCEST MRI contrast agents. <i>Chemical Communications</i> , 2013, 49, 10025.	4.1	77
12	Redox-activated MRI contrast agents based on lanthanide and transition metal ions. <i>Journal of Inorganic Biochemistry</i> , 2014, 133, 143-154.	3.5	71
13	Eu(III) Complexes as Anion-Responsive Luminescent Sensors and Paramagnetic Chemical Exchange Saturation Transfer Agents. <i>Inorganic Chemistry</i> , 2011, 50, 4857-4867.	4.0	68
14	Comparison of divalent transition metal ion paraCEST MRI contrast agents. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 191-205.	2.6	66
15	Europium(III) Macrocyclic Complexes with Alcohol Pendant Groups as Chemical Exchange Saturation Transfer Agents. <i>Journal of the American Chemical Society</i> , 2006, 128, 10155-10162.	13.7	61
16	Macrocyclic ligands for Fe(II) paraCEST and chemical shift MRI contrast agents. <i>Inorganica Chimica Acta</i> , 2012, 393, 3-11.	2.4	61
17	Six-coordinate Iron(II) and Cobalt(II) paraSHIFT Agents for Measuring Temperature by Magnetic Resonance Spectroscopy. <i>Inorganic Chemistry</i> , 2016, 55, 700-716.	4.0	61
18	A Class of Fe <sup>III</sup> Macrocyclic Complexes with Alcohol Donor Groups as Effective MRI Contrast Agents. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2414-2419.	13.8	49

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19	Iron(II) Complexes Containing Octadentate Tetraazamacrocycles as ParaCEST Magnetic Resonance Imaging Contrast Agents. <i>Inorganic Chemistry</i> , 2012, 51, 7448-7450.	4.0	48
20	The Development of Iron(II) Complexes as ParaCEST MRI Contrast Agents. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2006-2014.	2.0	48
21	SPEED LIMITS FOR ARTIFICIAL RIBONUCLEASES. <i>Comments on Inorganic Chemistry</i> , 2008, 29, 169-188.	5.2	47
22	Luminescence Resonance Energy Transfer in Heterodinuclear Ln <sup>III</sup> Complexes for Sensing Biologically Relevant Anions. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 154-164.	2.0	45
23	Gear Up for a pH Shift: A Responsive Iron(II) 2-Amino-6-picoyl-Appended Macrocylic paraCEST Agent That Protonates at a Pendent Group. <i>Inorganic Chemistry</i> , 2016, 55, 12001-12010.	4.0	45
24	Seven-Coordinate Co <sup>II</sup> , Fe <sup>II</sup> and Six-Coordinate Ni <sup>II</sup> Amide-Appended Macrocylic Complexes as ParaCEST Agents in Biological Media. <i>Inorganic Chemistry</i> , 2014, 53, 8311-8321.	4.0	43
25	Six, Seven or Eight Coordinate Fe <sup>II</sup> , Co <sup>II</sup> or Ni <sup>II</sup> Complexes of Amide-Appended Tetraazamacrocycles for ParaCEST Thermometry. <i>Chemistry - A European Journal</i> , 2015, 21, 18290-18300.	3.3	42
26	The reactivity of macrocylic Fe(II) paraCEST MRI contrast agents towards biologically relevant anions, cations, oxygen or peroxide. <i>Journal of Inorganic Biochemistry</i> , 2012, 117, 212-219.	3.5	40
27	Restoration of Catalytic Activity by Replacement of a Coordinated Amide Group: A Synthesis and Laser-Induced Luminescence Studies of the Phosphate Diester Transesterification Catalyst [Eu(NBAC)] <sup>3+</sup> . <i>Inorganic Chemistry</i> , 1996, 35, 7466-7467.	4.0	39
28	Cerium(III), Europium(III), and Ytterbium(III) Complexes with Alcohol Donor Groups as Chemical Exchange Saturation Transfer Agents for MRI. <i>Inorganic Chemistry</i> , 2009, 48, 7237-7243.	4.0	38
29	Uridine Binding by Zn(II) Macrocylic Complexes: A Diversion of RNA Cleavage Catalysts. <i>Inorganic Chemistry</i> , 2005, 44, 9397-9404.	4.0	37
30	Activation of a PARACEST Agent for MRI through Selective Outersphere Interactions with Phosphate Diesters. <i>Inorganic Chemistry</i> , 2010, 49, 5963-5970.	4.0	37
31	Imidazole-Appended Macrocylic Complexes of Fe(II), Co(II), and Ni(II) as ParaCEST Agents. <i>Inorganic Chemistry</i> , 2017, 56, 4545-4554.	4.0	35
32	Next-Generation Magnetic Resonance Imaging Contrast Agents. <i>Inorganic Chemistry</i> , 2017, 56, 6029-6034.	4.0	34
33	Low-Spin Fe(III) Macrocylic Complexes of Imidazole-Appended 1,4,7-Triazacyclononane as Paramagnetic Probes. <i>Inorganic Chemistry</i> , 2018, 57, 8364-8374.	4.0	34
34	Inner-Sphere and Outer-Sphere Water Interactions in Co(II) paraCEST Agents. <i>Inorganic Chemistry</i> , 2018, 57, 2085-2095.	4.0	33
35	PARACEST Properties of a Dinuclear Neodymium(III) Complex Bound to DNA or Carbonate. <i>Bioconjugate Chemistry</i> , 2009, 20, 1375-1382.	3.6	32
36	Modulating the Properties of Fe(III) Macrocylic MRI Contrast Agents by Appending Sulfonate or Hydroxyl Groups. <i>Molecules</i> , 2020, 25, 2291.	3.8	29

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37	Fe(ii) and Co(ii)N-methylated CYCLEN complexes as paraSHIFT agents with large temperature dependent shifts. Dalton Transactions, 2018, 47, 916-924.	3.3	27
38	An Fe <sup>III</sup> Azamacrocyclic Complex as a pH-Tunable Catholyte and Anolyte for Redox-Flow Battery Applications. Chemistry - A European Journal, 2017, 23, 15327-15331.	3.3	25
39	Exploring Inner-Sphere Water Interactions of Fe(II) and Co(II) Complexes of 12-Membered Macrocycles To Develop CEST MRI Probes. Inorganic Chemistry, 2019, 58, 8710-8719.	4.0	25
40	Dinuclear Fe(III) Hydroxypropyl-Appended Macrocyclic Complexes as MRI Probes. Inorganic Chemistry, 2021, 60, 8651-8664.	4.0	24
41	Distinct Coordination Chemistry of Fe(III)-Based MRI Probes. Accounts of Chemical Research, 2022, 55, 1435-1444.	15.6	23
42	A Class of Fe <sup>III</sup> Macrocyclic Complexes with Alcohol Donor Groups as Effective $T_1$ MRI Contrast Agents. Angewandte Chemie, 2020, 132, 2435-2440.	2.0	20
43	Binding and Release of Fe <sup>III</sup> Complexes from Glucan Particles for the Delivery of $T_1$ MRI Contrast Agents. ChemMedChem, 2020, 15, 1050-1057.	3.2	19
44	Harnessing thorium(iv) as a catalyst: RNA and phosphate diester cleavage by a thorium(iv) macrocyclic complex. Chemical Communications, 2000, , 2509-2510.	4.1	18
45	Preparation of a Cobalt(II) Cage: An Undergraduate Laboratory Experiment That Produces a ParaSHIFT Agent for Magnetic Resonance Spectroscopy. Journal of Chemical Education, 2016, 93, 1115-1119.	2.3	17
46	Metals in Biology: From Metallomics to Trafficking. Inorganic Chemistry, 2019, 58, 13505-13508.	4.0	17
47	Nickel(II) Complexes as Paramagnetic Shift and paraCEST Agents. European Journal of Inorganic Chemistry, 2018, 2018, 1902-1908.	2.0	15
48	MRI and fluorescence studies of Saccharomyces cerevisiae loaded with a bimodal Fe(III) $T_1$ contrast agent. Journal of Inorganic Biochemistry, 2019, 201, 110832.	3.5	15
49	Metal-Organic Polyhedron with Four Fe(III) Centers Producing Enhanced $T_1$ Magnetic Resonance Imaging Contrast in Tumors. Inorganic Chemistry, 2022, 61, 2603-2611.	4.0	14
50	Isomeric Co(ii) paraCEST agents as pH responsive MRI probes. Dalton Transactions, 2020, 49, 279-284.	3.3	12
51	Co II Complexes as Liposomal CEST Agents. Angewandte Chemie - International Edition, 2020, 59, 12093-12097.	13.8	11
52	Comparison of phosphonate, hydroxypropyl and carboxylate pendants in Fe(III) macrocyclic complexes as MRI contrast agents. Journal of Inorganic Biochemistry, 2021, 225, 111594.	3.5	11
53	Spectroscopic Investigations of Lanthanide Ion Binding to Nucleic Acids. Metal Ions in Life Sciences, 2012, 10, 171-199.	2.8	10
54	Liposomal Fe(III) Macrocyclic Complexes with Hydroxypropyl Pendants as MRI Probes. ACS Applied Bio Materials, 2021, 4, 7951-7960.	4.6	9

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55	Co(II) Macrocyclic Complexes Appended with Fluorophores as paraCEST and cellCEST Agents. <i>Inorganic Chemistry</i> , 2020, 59, 16531-16544.	4.0	6
56	Co II Complexes as Liposomal CEST Agents. <i>Angewandte Chemie</i> , 2020, 132, 12191-12195.	2.0	6
57	Zn <sup>2+</sup> -Selective Switch of Duplex to Hairpin DNA. <i>Inorganic Chemistry</i> , 2015, 54, 3084-3086.	4.0	5
58	SYNTHESIS AND CRYSTALLOGRAPHIC CHARACTERIZATION OF [Eu(C <sub>18</sub> H <sub>18</sub> N <sub>6</sub> )(OAc) <sub>2</sub> ][Cl <sup>-</sup> ] <sup>+</sup> ·7H <sub>2</sub> O, A TEN-COORDINATE Eu(III) COMPLEX WITH A CLOSE-TO-PLANAR HEXADENTATE C <sub>18</sub> H <sub>18</sub> N <sub>6</sub> LIGAND: AN INTERESTING CASE OF A STRUCTURE WITH MULTIPLE DISORDER PROBLEMS. <i>Journal of Coordination Chemistry</i> , 2000, 50, 339-352.	2.2	4
59	Co(II) and Fe(II) triazole-appended 4,10-diaza-15-crown-5-ether Macrocyclic complexes for CEST MRI applications. <i>Inorganica Chimica Acta</i> , 2020, 509, 119649.	2.4	4
60	Chapter 12 Transition Metal paraCEST Probes as Alternatives to Lanthanides. , 2017, , 257-282.		3
61	What IS Inorganic Chemistry?. <i>Inorganic Chemistry</i> , 2019, 58, 9515-9516.	4.0	2
62	Metal Ion Macrocyclic Complexes as Artificial Ribonucleases. <i>Advances in Chemistry Series</i> , 1996, , 431-447.	0.6	1
63	Crystal and molecular structure of the triflate salt of diprotonated 1,4,8,11-tetrakis(2-hydroxyethyl)-1,4,8,11-tetraazacyclotetradecane, [C <sub>10</sub> H <sub>22</sub> N <sub>4</sub> (CH <sub>2</sub> CH <sub>2</sub> OH) <sub>4</sub> 2+] <sup>+</sup> [CF <sub>3</sub> SO <sub>3</sub> <sup>-</sup> ] <sub>2</sub> : geometry of a diprotonated octadenate ligand. <i>Journal of Chemical Crystallography</i> , 1997, 27, 319-324.	1.1	1
64	Hypervalent phosphorus compounds as ligands. <i>Heteroatom Chemistry</i> , 1998, 9, 699-702.	0.7	0
65	Manganese-Enhanced MRI Contrast Agents: From Small Chelates to Nanosized Hybrids The Development of Iron(II) Complexes as ParaCEST MRI Contrast Agents Lanthanide Complexes as Paramagnetic Probes for 19F Magnetic Resonance The Solution Structure and Dynam. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, n/a-n/a.	2.0	0
66	Saccharomyces cerevisiae and Candida albicans Yeast Cells Labeled with Fe(III) Complexes as MRI Probes. <i>Magnetochemistry</i> , 2020, 6, 41.	2.4	0
67	Should You Become a Chemist Entrepreneur?. <i>Inorganic Chemistry</i> , 2021, 60, 17415-17418.	4.0	0