

Janet R Morrow

List of Publications by Year in descending order

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67
papers

2,799
citations

136950

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152
docs citations

152
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citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Organic Polyhedron with Four Fe(III) Centers Producing Enhanced T ₁ Magnetic Resonance Imaging Contrast in Tumors. <i>Inorganic Chemistry</i> , 2022, 61, 2603-2611.	4.0	14
2	Distinct Coordination Chemistry of Fe(III)-Based MRI Probes. <i>Accounts of Chemical Research</i> , 2022, 55, 1435-1444.	15.6	23
3	Dinuclear Fe(III) Hydroxypropyl-Appended Macrocyclic Complexes as MRI Probes. <i>Inorganic Chemistry</i> , 2021, 60, 8651-8664.	4.0	24
4	Comparison of phosphonate, hydroxypropyl and carboxylate pendants in Fe(III) macrocyclic complexes as MRI contrast agents. <i>Journal of Inorganic Biochemistry</i> , 2021, 225, 111594.	3.5	11
5	Liposomal Fe(III) Macrocyclic Complexes with Hydroxypropyl Pendants as MRI Probes. <i>ACS Applied Bio Materials</i> , 2021, 4, 7951-7960.	4.6	9
6	Should You Become a Chemist Entrepreneur?. <i>Inorganic Chemistry</i> , 2021, 60, 17415-17418.	4.0	0
7	A Class of Fe ^{III} Macrocyclic Complexes with Alcohol Donor Groups as Effective T ₁ MRI Contrast Agents. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2414-2419.	13.8	49
8	Isomeric Co(ii) paraCEST agents as pH responsive MRI probes. <i>Dalton Transactions</i> , 2020, 49, 279-284.	3.3	12
9	A Class of Fe ^{III} Macrocyclic Complexes with Alcohol Donor Groups as Effective T ₁ MRI Contrast Agents. <i>Angewandte Chemie</i> , 2020, 132, 2435-2440.	2.0	20
10	<i>Saccharomyces cerevisiae</i> and <i>Candida albicans</i> Yeast Cells Labeled with Fe(III) Complexes as MRI Probes. <i>Magnetochemistry</i> , 2020, 6, 41.	2.4	0
11	Co(II) Macrocyclic Complexes Appended with Fluorophores as paraCEST and cellCEST Agents. <i>Inorganic Chemistry</i> , 2020, 59, 16531-16544.	4.0	6
12	Modulating the Properties of Fe(III) Macrocyclic MRI Contrast Agents by Appending Sulfonate or Hydroxyl Groups. <i>Molecules</i> , 2020, 25, 2291.	3.8	29
13	Binding and Release of Fe(III) Complexes from Glucan Particles for the Delivery of T ₁ MRI Contrast Agents. <i>ChemMedChem</i> , 2020, 15, 1050-1057.	3.2	19
14	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
15	Co II Complexes as Liposomal CEST Agents. <i>Angewandte Chemie</i> , 2020, 132, 12191-12195.	2.0	6
16	Co II Complexes as Liposomal CEST Agents. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12093-12097.	13.8	11
17	What IS Inorganic Chemistry?. <i>Inorganic Chemistry</i> , 2019, 58, 9515-9516.	4.0	2
18	Metals in Biology: From Metallomics to Trafficking. <i>Inorganic Chemistry</i> , 2019, 58, 13505-13508.	4.0	17

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19	MRI and fluorescence studies of <i>Saccharomyces cerevisiae</i> loaded with a bimodal Fe(III) T1 contrast agent. <i>Journal of Inorganic Biochemistry</i> , 2019, 201, 110832.	3.5	15
20	Exploring Inner-Sphere Water Interactions of Fe(II) and Co(II) Complexes of 12-Membered Macrocycles To Develop CEST MRI Probes. <i>Inorganic Chemistry</i> , 2019, 58, 8710-8719.	4.0	25
21	Nickel(II) Complexes as Paramagnetic Shift and paraCEST Agents. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1902-1908.	2.0	15
22	Inner-Sphere and Outer-Sphere Water Interactions in Co(II) paraCEST Agents. <i>Inorganic Chemistry</i> , 2018, 57, 2085-2095.	4.0	33
23	Fe(ii) and Co(ii)N-methylated CYCLEN complexes as paraSHIFT agents with large temperature dependent shifts. <i>Dalton Transactions</i> , 2018, 47, 916-924.	3.3	27
24	Low-Spin Fe(III) Macrocyclic Complexes of Imidazole-Appended 1,4,7-Triazacyclononane as Paramagnetic Probes. <i>Inorganic Chemistry</i> , 2018, 57, 8364-8374.	4.0	34
25	Next-Generation Magnetic Resonance Imaging Contrast Agents. <i>Inorganic Chemistry</i> , 2017, 56, 6029-6034.	4.0	34
26	Imidazole-Appended Macrocyclic Complexes of Fe(II), Co(II), and Ni(II) as ParaCEST Agents. <i>Inorganic Chemistry</i> , 2017, 56, 4545-4554.	4.0	35
27	An Fe ^{III} Azamacrocyclic Complex as a pH-Tunable Catholyte and Anolyte for Redox-Flow Battery Applications. <i>Chemistry - A European Journal</i> , 2017, 23, 15327-15331.	3.3	25
28	Chapter 12 Transition Metal paraCEST Probes as Alternatives to Lanthanides. , 2017, , 257-282.		3
29	Gear Up for a pH Shift: A Responsive Iron(II) 2-Amino-6-picoyl-Appended Macrocyclic paraCEST Agent That Protonates at a Pendent Group. <i>Inorganic Chemistry</i> , 2016, 55, 12001-12010.	4.0	45
30	Preparation of a Cobalt(II) Cage: An Undergraduate Laboratory Experiment That Produces a ParaSHIFT Agent for Magnetic Resonance Spectroscopy. <i>Journal of Chemical Education</i> , 2016, 93, 1115-1119.	2.3	17
31	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
32	Six, Seven or Eight Coordinate Fe ^{II} , Co ^{II} or Ni ^{II} Complexes of Amide-Appended Tetraazamacrocycles for ParaCEST Thermometry. <i>Chemistry - A European Journal</i> , 2015, 21, 18290-18300.	3.3	42
33	Zn ²⁺ -Selective Switch of Duplex to Hairpin DNA. <i>Inorganic Chemistry</i> , 2015, 54, 3084-3086.	4.0	5
34	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
35	Comparison of divalent transition metal ion paraCEST MRI contrast agents. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 191-205.	2.6	66
36	Seven-Coordinate Co ^{II} , Fe ^{II} and Six-Coordinate Ni ^{II} Amide-Appended Macrocyclic Complexes as ParaCEST Agents in Biological Media. <i>Inorganic Chemistry</i> , 2014, 53, 8311-8321.	4.0	43

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37	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
38	CoCEST: cobalt(ii) amide-appended paraCEST MRI contrast agents. <i>Chemical Communications</i> , 2013, 49, 10025.	4.1	77
39	The NiCEST Approach: Nickel(II) ParaCEST MRI Contrast Agents. <i>Journal of the American Chemical Society</i> , 2012, 134, 18503-18505.	13.7	79
40	The reactivity of macrocyclic 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
41	Macrocyclic ligands for Fe(II) paraCEST and chemical shift MRI contrast agents. <i>Inorganica Chimica Acta</i> , 2012, 393, 3-11.	2.4	61
42	Iron(II) Complexes Containing Octadentate Tetraazamacrocycles as ParaCEST Magnetic Resonance Imaging Contrast Agents. <i>Inorganic Chemistry</i> , 2012, 51, 7448-7450.	4.0	48
43	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
44	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
45	Spectroscopic Investigations of Lanthanide Ion Binding to Nucleic Acids. <i>Metal Ions in Life Sciences</i> , 2012, 10, 171-199.	2.8	10
46	Iron(II) PARACEST MRI Contrast Agents. <i>Journal of the American Chemical Society</i> , 2011, 133, 14154-14156.	13.7	108
47	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
48	Luminescence Resonance Energy Transfer in Heterodinuclear Ln ^{III} Complexes for Sensing Biologically Relevant Anions. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 154-164.	2.0	45
49	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
50	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
51	PARACEST Properties of a Dinuclear Neodymium(III) Complex Bound to DNA or Carbonate. <i>Bioconjugate Chemistry</i> , 2009, 20, 1375-1382.	3.6	32
52	SPEED LIMITS FOR ARTIFICIAL RIBONUCLEASES. <i>Comments on Inorganic Chemistry</i> , 2008, 29, 169-188.	5.2	47
53	Phosphate Binding Energy and Catalysis by Small and Large Molecules. <i>Accounts of Chemical Research</i> , 2008, 41, 539-548.	15.6	105
54	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

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55	Uridine Binding by Zn(II) Macrocyclic Complexes: A Diversion of RNA Cleavage Catalysts. <i>Inorganic Chemistry</i> , 2005, 44, 9397-9404.	4.0	37
56	Synthetic metallonucleases for RNA cleavage. <i>Current Opinion in Chemical Biology</i> , 2004, 8, 192-200.	6.1	219
57	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
58	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
59	SYNTHESIS AND CRYSTALLOGRAPHIC CHARACTERIZATION OF [Eu(C ₁₈ H ₁₈ N ₆)(OAc) ₂][Cl ⁻] ⁺ ·7H ₂ O, A TEN-COORDINATE Eu(III) COMPLEX WITH A CLOSE-TO-PLANAR HEXADENTATE C ₁₈ H ₁₈ N ₆ LIGAND: AN INTERESTING CASE OF A STRUCTURE WITH MULTIPLE DISORDER PROBLEMS. <i>Journal of Coordination Chemistry</i> , 2000, 50, 339-352.	2.2	4
60	Harnessing thorium(IV) as a catalyst: RNA and phosphate diester cleavage by a thorium(IV) macrocyclic complex. <i>Chemical Communications</i> , 2000, , 2509-2510.	4.1	18
61	Hypervalent phosphorus compounds as ligands. <i>Heteroatom Chemistry</i> , 1998, 9, 699-702.	0.7	0
62	Effect of Mixed Pendant 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
63	Crystal and molecular structure of the triflate salt of diprotonated 1,4,8,11-tetrakis(2-hydroxyethyl)-1,4,8,11-tetraazacyclotetradecane, [C ₁₀ H ₂₂ N ₄ (CH ₂ CH ₂ OH) ₄] ²⁺ [CF ₃ SO ₃] ⁻ ₂ : geometry of a diprotonated octadentate ligand. <i>Journal of Chemical Crystallography</i> , 1997, 27, 319-324.	1.1	1
64	Restoration of Catalytic Activity by Replacement of a Coordinated Amide Group: Synthesis and Laser-Induced Luminescence Studies of the Phosphate Diester Transesterification Catalyst [Eu(NBAC)] ³⁺ . <i>Inorganic Chemistry</i> , 1996, 35, 7466-7467.	4.0	39
65	Metal Ion Macrocyclic Complexes as Artificial Ribonucleases. <i>Advances in Chemistry Series</i> , 1996, , 431-447.	0.6	1
66	Lanthanide(III) Tetraamide Macrocyclic Complexes as Synthetic Ribonucleases: Structure and Catalytic Properties of [La(tcmc)(CF ₃ SO ₃)(EtOH)](CF ₃ SO ₃) ₂ . <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 773-775.	4.4	171
67	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