

Constantinos J Milios

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A new twist on an old ligand: a [Mn ₁₆] double square wheel and a [Mn ₁₀] contorted wheel. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1804-1809.	3.0	3
2	A [Mn ₁₈] wheel-of-wheels. <i>Chemical Communications</i> , 2021, 57, 4122-4125.	2.2	10
3	The first amino acid bound manganese–calcium clusters: a {[MnIII3Ca] ₂ } methylalanine complex, and a [MnII6Ca] trigonal prism. <i>Dalton Transactions</i> , 2020, 49, 10339-10343.	1.6	4
4	A Ferromagnetically Coupled, Bell-Shaped [Ni ₄ Gd ₅] Cage. <i>Inorganic Chemistry</i> , 2019, 58, 11404-11409.	1.9	8
5	Dinuclear and Mononuclear Rhenium Coordination Compounds upon Employment of a Schiff-Base Triol Ligand: Structural, Magnetic, and Computational Studies. <i>Inorganic Chemistry</i> , 2019, 58, 8596-8606.	1.9	5
6	A decanuclear [DyIII6ZnII4] cluster: a {ZnII4} rectangle surrounding an octahedral {DyIII6} single molecule magnet. <i>Dalton Transactions</i> , 2019, 48, 3566-3570.	1.6	10
7	Constructing Cr ^{III} -centered heterometallic complexes: [NiII6Cr ^{III}] and [Coll6Cr ^{III}] wheels. <i>Dalton Transactions</i> , 2018, 47, 58-61.	1.6	16
8	A [Cr ₂ Ni] coordination polymer: slow relaxation of magnetization in quasi-one-dimensional ferromagnetic chains. <i>Chemical Communications</i> , 2018, 54, 6153-6156.	2.2	4
9	±-Amino acids: Natural and artificial building blocks for discrete polymetallic clusters. <i>Polyhedron</i> , 2018, 151, 1-32.	1.0	9
10	Heterometallic lanthanide-centred [NiII6Ln ^{III}] rings. <i>Dalton Transactions</i> , 2018, 47, 12863-12867.	1.6	11
11	Tetradecanuclearity in 3d–4f chemistry: relaxation and magnetocaloric effects in [NiII6LnIII8] species. <i>Dalton Transactions</i> , 2017, 46, 3449-3452.	1.6	17
12	A [Ce ₂₁] keplerate. <i>Dalton Transactions</i> , 2017, 46, 7677-7680.	1.6	7
13	New members of the [Mn ₆ /oxime] family and analogues with converging [Mn ₃] planes. <i>Journal of Coordination Chemistry</i> , 2016, 69, 826-840.	0.8	8
14	Two unique star-like [MnIVMnIII2LnIII] clusters: magnetic relaxation phenomena. <i>RSC Advances</i> , 2016, 6, 45326-45329.	1.7	2
15	Building 1D lanthanide chains and non-symmetrical [Ln ₂] triple-decker clusters using salen-type ligands: magnetic cooling and relaxation phenomena. <i>Dalton Transactions</i> , 2016, 45, 18591-18602.	1.6	14
16	A triacontanuclear [Zn ₁₂ Dy ₁₈] cluster: a ring of [Dy ₄] cubes. <i>Chemical Communications</i> , 2016, 52, 343-345.	2.2	13
17	Dodecanuclear [MnIII6LnIII6] species: synthesis, structures and characterization of magnetic relaxation phenomena. <i>Dalton Transactions</i> , 2015, 44, 11696-11699.	1.6	12
18	A family of [Mn ^{III} ₆ Ln ^{III} ₂] rod-like clusters. <i>Dalton Transactions</i> , 2015, 44, 6082-6088.	1.6	14

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19	Enneanuclear $[\text{Ni}_6\text{Ln}_3]$ Cages: $[\text{Ln}_3\text{Ni}_6]$ Triangles Capping $[\text{Ni}_6\text{Ln}_3]$ Trigonal Prisms Including a $[\text{Ni}_6\text{Dy}_3]$ Single-Molecule Magnet. <i>Inorganic Chemistry</i> , 2015, 54, 7089-7095.	1.9	22
20	A family of dinuclear lanthanide(III) complexes from the use of a tridentate Schiff base. <i>Dalton Transactions</i> , 2015, 44, 10200-10209.	1.6	60
21	A bulky oxime for the synthesis of Mn(III) clusters. <i>Journal of Coordination Chemistry</i> , 2015, 68, 3472-3484.	0.8	10
22	Solvothermal synthesis of enneanuclear $[\text{Cu}_7\text{Ln}_2]$ clusters. <i>Dalton Transactions</i> , 2015, 44, 19880-19885.	1.6	11
23	Dinuclear, tetrakis(acetato)-bridged lanthanide(III) complexes from the use of 2-acetylpyridine hydrazone. <i>Inorganic Chemistry Communication</i> , 2015, 51, 99-102.	1.8	12
24	Synthesis, Characterization, Magnetic and Catalytic Properties of a Ladder-Shaped Mn(II) Coordination Polymer. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3638-3644.	1.0	9
25	Constructing anhydrous halide bridged manganese(II) clusters: Synthesis, structures and magnetic properties. <i>Inorganica Chimica Acta</i> , 2014, 409, 458-464.	1.2	2
26	Cluster-Based Single-Molecule Magnets. <i>Structure and Bonding</i> , 2014, , 1-109.	1.0	42
27	A family of polynuclear cobalt complexes upon employment of an indeno-quinoxaline based oxime ligand. <i>RSC Advances</i> , 2014, 4, 23068-23077.	1.7	17
28	Heptanuclear lanthanide $[\text{Ln}_7]$ clusters: from blue-emitting solution-stable complexes to hybrid clusters. <i>Dalton Transactions</i> , 2014, 43, 12486-12494.	1.6	18
29	New members in the $[\text{Mn}_{10}]$ supertetrahedron family. <i>Inorganic Chemistry Communication</i> , 2014, 45, 71-74.	1.8	6
30	Bipolar Mass Spectrometry of Labile Coordination Complexes, Redox Active Inorganic Compounds, and Proteins Using a Glass Nebulizer for Sonic-Spray Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1250-1259.	1.2	17
31	Employment of 2-pyrrole aldoxime in iron cluster chemistry: Trinuclear and hexanuclear clusters. <i>Polyhedron</i> , 2013, 52, 1411-1415.	1.0	7
32	Employment of a naphthalene-based tetraol ligand in Mn chemistry: Mononuclear and linear trinuclear clusters. <i>Polyhedron</i> , 2013, 64, 52-58.	1.0	1
33	An indeno-quinoxaline based oxime ligand for the synthesis of polynuclear Ni(II) clusters. <i>RSC Advances</i> , 2013, 3, 13214.	1.7	7
34	Flexible lanthanide MOFs as highly selective and reusable liquid MeOH sorbents. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5061.	5.2	42
35	Twisted molecular magnets. <i>Chemical Communications</i> , 2012, 48, 181-190.	2.2	102
36	Incorporation of a high-spin heptanuclear $[\text{Cu}_7\text{Gd}]$ cluster into carboxyl-functionalized mesoporous silica. <i>RSC Advances</i> , 2012, 2, 9809.	1.7	6

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37	Heptanuclear Heterometallic [Cu ₆ Ln] Clusters: Trapping Lanthanides into Copper Cages with Artificial Amino Acids. <i>Inorganic Chemistry</i> , 2012, 51, 5911-5918.	1.9	46
38	Employment of a New Tripodal Ligand for the Synthesis of Cobalt(II/III), Nickel(II), and Copper(II) Clusters: Magnetic, Optical, and Thermal Properties. <i>Inorganic Chemistry</i> , 2012, 51, 10461-10470.	1.9	31
39	Pseudopeptidic ligands: exploring the self-assembly of isophthaloylbisglycine (H2IBG) and divalent metal ions. <i>Dalton Transactions</i> , 2012, 41, 12501.	1.6	6
40	A Strongly Blue-Emitting Heptametallic [DyIII7] Centered-Octahedral Single-Molecule Magnet. <i>Inorganic Chemistry</i> , 2012, 51, 7451-7453.	1.9	61
41	2-Aminoisobutyric Acid in Co(II) and Co(II)/Ln(III) Chemistry: Homometallic and Heterometallic Clusters. <i>Inorganic Chemistry</i> , 2012, 51, 1170-1179.	1.9	66
42	A new oxime ligand in manganese chemistry: a [Mn8] and a [Mn6] cage from the use of 2-dihydroxy-2-phenylacetamidine. <i>Dalton Transactions</i> , 2011, 40, 11371.	1.6	8
43	Hexametallic manganese clusters with bulky derivatised salicylaldoximes. <i>Dalton Transactions</i> , 2011, 40, 1693.	1.6	19
44	Unique trigonal prism encapsulated Ln complexes: a [Coll6Eu] and a [Coll6Dy] cage. <i>Dalton Transactions</i> , 2011, 40, 4793.	1.6	44
45	Artificial Amino Acids in Nickel(II) and Nickel(II)/Lanthanide(III) Chemistry. <i>Inorganic Chemistry</i> , 2011, 50, 5175-5185.	1.9	29
46	The first heterometallic Mn-Ca cluster containing exclusively Mn(III) centers. <i>Inorganic Chemistry Communication</i> , 2011, 14, 213-216.	1.8	35
47	Naked [Mn3O]7+Triangles: The Effect of Auxiliary Ligands on Magnetic Exchange. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 483-489.	1.0	10
48	Rare Oxidation-State Combinations and Unusual Structural Motifs in Hexanuclear Mn Complexes Using 2-Pyridyloximate Ligands. <i>Inorganic Chemistry</i> , 2010, 49, 4388-4390.	1.9	39
49	Magnetic quantum tunneling: insights from simple molecule-based magnets. <i>Dalton Transactions</i> , 2010, 39, 4693.	1.6	129
50	Ferromagnetic manganese cubes from PSII to single-molecule magnets. <i>Dalton Transactions</i> , 2010, 39, 4777.	1.6	28
51	Polynuclear manganese amino acid complexes. <i>Dalton Transactions</i> , 2010, 39, 7943.	1.6	19
52	Assembling molecular triangles into discrete and infinite architectures. <i>CrystEngComm</i> , 2010, 12, 2064.	1.3	22
53	Addressing the magnetic properties of sub-monolayers of single-molecule magnets by X-ray magnetic circular dichroism. <i>Nanoscale</i> , 2010, 2, 2698.	2.8	25
54	MCD spectroscopy of hexanuclear Mn(III) salicylaldoxime single-molecule magnets. <i>Dalton Transactions</i> , 2010, 39, 9904.	1.6	18

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55	Neutron spectroscopy and magnetic relaxation of the Mn ₆ nanomagnets. <i>Polyhedron</i> , 2009, 28, 1940-1944.	1.0	10
56	Linear and cubane carboxylate clusters derived from di-2-pyridyl ketone: Synthesis, characterization and magnetic properties. <i>Polyhedron</i> , 2009, 28, 2017-2025.	1.0	14
57	A comparative EPR study of high- and low-spin Mn ₆ single-molecule magnets. <i>Polyhedron</i> , 2009, 28, 1788-1791.	1.0	21
58	Crystal engineering with 2,1,3-benzoselenadiazole and mercury(II) chloride. <i>Polyhedron</i> , 2009, 28, 3199-3202.	1.0	21
59	Quantum tunnelling of magnetization in the single-molecule magnet Mn ₆ . <i>New Journal of Chemistry</i> , 2009, 33, 1231.	1.4	12
60	Supramolecular Entanglement from Interlocked Molecular Nanomagnets. <i>Crystal Growth and Design</i> , 2009, 9, 24-27.	1.4	40
61	Theoretical Methods Enlighten Magnetic Properties of a Family of Mn ₆ Single-Molecule Magnets. <i>Inorganic Chemistry</i> , 2009, 48, 8012-8019.	1.9	74
62	High pressure induced spin changes and magneto-structural correlations in hexametallc SMMs. <i>Dalton Transactions</i> , 2009, , 4858.	1.6	47
63	Attempting to understand (and control) the relationship between structure and magnetism in an extended family of Mn ₆ single-molecule magnets. <i>Dalton Transactions</i> , 2009, , 3403.	1.6	146
64	Constructing clusters with enhanced magnetic properties by assembling and distorting Mn ₃ building blocks. <i>Dalton Transactions</i> , 2009, , 2812.	1.6	46
65	The first amino acid manganese cluster: a [Mn ^{IV} 2Mn ^{III} 3] dl-valine cage. <i>Dalton Transactions</i> , 2009, , 9117.	1.6	13
66	A Mn ^{II} 4cubane and a novel Mn ^{III} 10Mn ^{III} 4cluster from the use of di-2-pyridyl ketone in manganese acetate chemistry. <i>Dalton Transactions</i> , 2009, , 307-317.	1.6	49
67	[Mn ₆] under Pressure: A Combined Crystallographic and Magnetic Study. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2828-2831.	7.2	68
68	Switching pairwise exchange interactions to enhance SMM properties. <i>Comptes Rendus Chimie</i> , 2008, 11, 1175-1181.	0.2	7
69	The use of di-2-pyridyl ketone in manganese(II) benzoate chemistry: Two novel linkage isomers containing the ketone form of the ligand and a neutral cubane containing the ligand in its gem-diolate(-1) form. <i>Inorganic Chemistry Communication</i> , 2008, 11, 196-202.	1.8	35
70	Grafting Derivatives of Mn ₆ Single-Molecule Magnets with High Anisotropy Energy Barrier on Au(111) Surface. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9729-9735.	1.2	35
71	Ground state spin-switching via targeted structural distortion: twisted single-molecule magnets from derivatised salicylaldoximes. <i>Dalton Transactions</i> , 2008, , 1809-1817.	1.6	169
72	A ligand-field study of the ground spin-state magnetic anisotropy in a family of hexanuclear Mn(III) single-molecule magnets. <i>Dalton Transactions</i> , 2008, , 2277.	1.6	29

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73	On the origin of ferromagnetism in oximate-based [Mn ₃ O] ₇ triangles. Dalton Transactions, 2008, , 234-240.	1.6	65
74	Polymetallic clusters of iron(iii) with derivatised salicylaldoximes. Dalton Transactions, 2008, , 2043.	1.6	45
75	Breakdown of the Giant Spin Model in the Magnetic Relaxation of the Mn ₆ Nanomagnets. Physical Review Letters, 2008, 100, 157203.	2.9	67
76	A Mononuclear and a Mixed-Valence Chain Polymer Arising from Copper(II) Halide Chemistry and the Use of 2,2'-Pyridil. Bioinorganic Chemistry and Applications, 2007, 2007, 1-6.	1.8	2
77	Spin Switching via Targeted Structural Distortion. Journal of the American Chemical Society, 2007, 129, 6547-6561.	6.6	144
78	Synthesis and characterisation of a mixed-valence Mn ₁₃ complex with S ₆ symmetry by using 2-phenoxybenzoate. Dalton Transactions, 2007, , 728-730.	1.6	18
79	Turning up the spin, turning on single-molecule magnetism: from S = 1 to S = 7 in a [Mn ₈] cluster via ligand induced structural distortion. Chemical Communications, 2007, , 2738.	2.2	52
80	Two Frustrated, Bitetrahedral Single-Molecule Magnets. Inorganic Chemistry, 2007, 46, 6215-6217.	1.9	33
81	Enhancing SMM properties in a family of [Mn ₆] clusters. Chemical Communications, 2007, , 3476.	2.2	79
82	A rare ferromagnetic manganese(iii) $\hat{\sim}$ cube $\hat{\sim}$ ™. Chemical Communications, 2007, , 153-155.	2.2	59
83	1,2,3-Triazolate-Bridged Tetradecametallic Transition Metal Clusters [M ₁₄ (L) ₆ O ₆ (OMe) ₁₈ X ₆] (M = Fe ^{III}), Tj ETQq1 1 0.784314 rgBT / O Spin-Enhanced Magnetocaloric Effect. Inorganic Chemistry, 2007, 46, 4968-4978.	1.9	146
84	A Record Anisotropy Barrier for a Single-Molecule Magnet. Journal of the American Chemical Society, 2007, 129, 2754-2755.	6.6	693
85	A rare all-Mn ²⁺ decametallc cage from distorted face-sharing cubes. Inorganica Chimica Acta, 2007, 360, 61-68.	1.2	25
86	The use of methylsalicyloxime in manganese chemistry: A triangle and its oxidation to a rod. Inorganica Chimica Acta, 2007, 360, 3932-3940.	1.2	53
87	Adsorption dynamics and interfacial properties of thiol-based cobalt terpyridine monolayers. Electrochimica Acta, 2007, 52, 6692-6699.	2.6	11
88	Synthesis and magnetic properties of heptadecametallic Fe(III) clusters. Polyhedron, 2007, 26, 1835-1837.	1.0	12
89	New octa- and dodecametallic mixed-valent Mn rods. Polyhedron, 2007, 26, 1923-1926.	1.0	7
90	A general synthetic route for the preparation of high-spin molecules: Replacement of bridging hydroxo ligands in molecular clusters by end-on azido ligands. Polyhedron, 2007, 26, 2089-2094.	1.0	25

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91	A Single-Molecule Magnet with a "Twist". Journal of the American Chemical Society, 2007, 129, 8-9.	6.6	192
92	Toward a Magnetostructural Correlation for a Family of Mn ₆ SMMs. Journal of the American Chemical Society, 2007, 129, 12505-12511.	6.6	345
93	Making "wheels"™ and "cubes"™ from triangles. Dalton Transactions, 2006, , 3161-3163.	1.6	35
94	1,1,1-Tris(hydroxymethyl)propane in manganese carboxylate chemistry: synthesis, structure and magnetic properties of a mixed-valence [Mn ^{III} ₄ Mn ^{II} ₄] cluster featuring the novel [Mn ^{III} ₄ Mn ^{II} ₄ (¹ / ₄ 3-OR) ₆ (¹ / ₂ 2-OR) ₈] ₆ +core. Dalton Transactions, 2006, , 351-356.	1.6	32
95	Microwave-Assisted Synthesis of a Hexanuclear Mn ^{III} Single-Molecule Magnet. Inorganic Chemistry, 2006, 45, 5272-5274.	1.9	98
96	A Family of [Mn ₆] Complexes Featuring Tripodal Ligands. Inorganic Chemistry, 2006, 45, 6782-6793.	1.9	59
97	High-Spin M ²⁺ Carboxylate Triangles from the Microwave. Inorganic Chemistry, 2006, 45, 7053-7055.	1.9	71
98	A Cube in a Tetrahedron: A Microwave-Assisted Synthesis of an Octametalllic Fe ^{III} Cluster. Inorganic Chemistry, 2006, 45, 5281-5283.	1.9	64
99	A rare mixed-valence state manganese(III/IV) tetranuclear cage formed using phenyl 2-pyridyl ketone oxime and azide as ligands. Inorganic Chemistry Communication, 2006, 9, 638-641.	1.8	39
100	The coordination chemistry of pyridyl oximes. Polyhedron, 2006, 25, 134-194.	1.0	308
101	Di-2-pyridyl ketone oxime [(py) ₂ CNOH] in manganese carboxylate chemistry: mononuclear, dinuclear and tetranuclear complexes, and partial transformation of (py) ₂ CNOH to the gem-diolate(2 ⁻) derivative of di-2-pyridyl ketone leading to the formation of NO ₃ ⁻ . Dalton Transactions, 2005, , 501-511.	1.6	71
102	Hexanuclear Manganese(III) Single-Molecule Magnets. Angewandte Chemie - International Edition, 2004, 43, 210-212.	7.2	232
103	Phenyl 2-Pyridyl Ketone and Its Oxime in Manganese Carboxylate Chemistry: Synthesis, Characterisation, X-ray Studies and Magnetic Properties of Mononuclear, Trinuclear and Octanuclear Complexes. European Journal of Inorganic Chemistry, 2004, 2004, 2885-2901.	1.0	102
104	2-Pyridinealdoxime [(py)CHNOH] in manganese(II) carboxylate chemistry: mononuclear, dinuclear, tetranuclear and polymeric complexes, and partial transformation of (py)CHNOH to picolinate(⁻ 1). Polyhedron, 2004, 23, 83-95.	1.0	92
105	Di-2-pyridyl ketone oxime in 3d-metal carboxylate cluster chemistry: a new family of mixed-valence Mn ^{II} Mn ^{III} complexes. Inorganic Chemistry Communication, 2003, 6, 1056-1060.	1.8	38
106	Octanuclearity and tetradecanuclearity in manganese chemistry: an octanuclear manganese(ii)/(iii) complex featuring the novel [Mn ₈ (^μ 4-O) ₂ (^μ 3-OH) ₂] ₁₄ + core and [Mn ₁₀ II ₄ III ₆ O ₄ (O ₂ CMe) ₂₀ {(2-py) ₂ C(OH)O} ₄] (2-py = 2-pyridyl). Chemical Communications, 2003, , 819-821.	2.2	97
107	The Hexakis(N,N'-Dimethylurea)Cobalt(II) Cation: A Flexible Building Block for the Construction of Hydrogen Bonded Networks. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2003, 58, 74-84.	0.3	5
108	Title is missing!. Transition Metal Chemistry, 2002, 27, 864-873.	0.7	9

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109	Constructing "Closed" and "Open" Mn_{8} Clusters. <i>Crystal Growth and Design</i> , 0, , .	1.4	0