

Stergios Piligkos

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The coordination chemistry of <i>p</i> -tert-butylcalix[4]arene with paramagnetic transition and lanthanide metal ions: an Edinburgh Perspective. Dalton Transactions, 2022, 51, 4213-4226. | 1.6 | 11 |
| 2 | Analysis of vibronic coupling in a 4f molecular magnet with FIRMS. Nature Communications, 2022, 13, 825. | 5.8 | 34 |
| 3 | Design of pure heterodinuclear lanthanoid cryptate complexes. Chemical Science, 2021, 12, 6983-6991. | 3.7 | 9 |
| 4 | [(VIVO) ₂ MII ₅] (M = Ni, Co) Anderson wheels. Dalton Transactions, 2021, 50, 12495-12501. | 1.6 | 3 |
| 5 | Exploiting host-guest chemistry to manipulate magnetic interactions in metallosupramolecular M ₄ L ₆ tetrahedral cages. Chemical Science, 2021, 12, 5134-5142. | 3.7 | 22 |
| 6 | [CrIII ₈ NiII ₆] ⁿ⁺ Heterometallic Coordination Cubes. Molecules, 2021, 26, 757. | 1.7 | 1 |
| 7 | Magnetic Archimedean Tessellations in Metal-Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 14041-14045. | 6.6 | 11 |
| 8 | Hard X-ray magnetochiral dichroism in a paramagnetic molecular 4f complex. Chemical Science, 2020, 11, 8306-8311. | 3.7 | 16 |
| 9 | Functionalized Trigonal Lanthanide Complexes: A New Family of 4f Single-Ion Magnets. Inorganic Chemistry, 2020, 59, 16328-16340. | 1.9 | 10 |
| 10 | Lanthanide cryptate monometallic coordination complexes. Dalton Transactions, 2020, 49, 13557-13565. | 1.6 | 10 |
| 11 | Molecular multifunctionality preservation upon surface deposition for a chiral single-molecule magnet. Chemical Science, 2019, 10, 3065-3073. | 3.7 | 22 |
| 12 | Determination of the electronic structure of a dinuclear dysprosium single molecule magnet without symmetry idealization. Chemical Science, 2019, 10, 2101-2110. | 3.7 | 48 |
| 13 | Modular [Fe ^{III} ₈ M ^{II} ₆] ⁿ⁺ (M ^{II} = Pd, Co, Ni, Cu) Coordination Cages. Inorganic Chemistry, 2018, 57, 3500-3506. | 1.9 | 17 |
| 14 | Chemical tunnel-splitting-engineering in a dysprosium-based molecular nanomagnet. Nature Communications, 2018, 9, 1292. | 5.8 | 81 |
| 15 | A simple methodology for constructing ferromagnetically coupled Cr(III) compounds. Dalton Transactions, 2018, 47, 8100-8109. | 1.6 | 11 |
| 16 | Coherent Manipulation of a Molecular Ln-Based Nuclear Qudit Coupled to an Electron Qubit. Journal of the American Chemical Society, 2018, 140, 9814-9818. | 6.6 | 86 |
| 17 | [MIII ₂ MII ₃] ⁿ⁺ trigonal bipyramidal cages based on diamagnetic and paramagnetic metalloligands. Chemical Science, 2017, 8, 5526-5535. | 3.7 | 18 |
| 18 | Iridates from the molecular side. Nature Communications, 2016, 7, 12195. | 5.8 | 41 |

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|----|---|-----|-----------|
| 19 | [Cr ^{III} ₈ M ^{II} ₆] ⁿ⁺ (M ^{II} = Cu, Co) face-centred, metallosupramolecular cubes. <i>CrystEngComm</i> , 2016, 18, 4914-4920. | 1.3 | 10 |
| 20 | Toward Molecular 4f Single-Ion Magnet Qubits. <i>Journal of the American Chemical Society</i> , 2016, 138, 5801-5804. | 6.6 | 201 |
| 21 | Structurally Flexible and Solution Stable [Ln ₄ TM ₈ (OH) ₈ (L) ₈ (O ₂ CR) ₈ (MeOH) ₈] ²⁶⁺ A Playground for Magnetic Refrigeration. <i>Inorganic Chemistry</i> , 2016, 55, 10535-10546. | 2.6 | 26 |
| 22 | In-Depth Magnetic Characterization of a [2 Å – 2] Mn(III) Square Grid Using SQUID Magnetometry, Inelastic Neutron Scattering, and High-Field Electron Paramagnetic Resonance Spectroscopy. <i>Inorganic Chemistry</i> , 2016, 55, 10377-10382. | 1.9 | 9 |
| 23 | A hexameric [Mn ^{III} 18Na ₆] wheel based on [Mn ^{III} 3O] ⁷⁺ sub-units. <i>Chemical Communications</i> , 2016, 52, 12829-12832. | 2.2 | 13 |
| 24 | Solvothermal synthesis of discrete cages and extended networks comprising {Cr(III) ₃ O(O ₂ CR) ₃ (oxime) ₃ } ₂ ⁺ (R = H, CH ₃ , C(CH ₃) ₃ , C ₁₄ H ₉) building blocks. <i>RSC Advances</i> , 2016, 6, 73668-73676. | 1.7 | 2 |
| 25 | Spin Crossover in Fe(II) Complexes with N ₄ S ₂ Coordination. <i>Inorganic Chemistry</i> , 2016, 55, 5904-5913. | 1.9 | 49 |
| 26 | Facile Interchange of 3d and 4f Ions in Single-Molecule Magnets: Stepwise Assembly of [Mn ₄], [Mn ₃ Ln] and [Mn ₂ Ln ₂] Cages within Calix[4]arene Scaffolds. <i>Chemistry - A European Journal</i> , 2015, 21, 11212-11218. | 1.7 | 35 |
| 27 | Frontispiece: Linked Supramolecular Building Blocks for Enhanced Cluster Formation. <i>Chemistry - A European Journal</i> , 2015, 21, n/a-n/a. | 1.7 | 0 |
| 28 | Reversible Guest Binding in a Non-Porous Fe ^{II} Coordination Polymer Host Toggles Spin Crossover. <i>Chemistry - A European Journal</i> , 2015, 21, 16066-16072. | 1.7 | 41 |
| 29 | Linked Supramolecular Building Blocks for Enhanced Cluster Formation. <i>Chemistry - A European Journal</i> , 2015, 21, 2804-2812. | 1.7 | 20 |
| 30 | Design of Single-Molecule Magnets: Insufficiency of the Anisotropy Barrier as the Sole Criterion. <i>Inorganic Chemistry</i> , 2015, 54, 7600-7606. | 1.9 | 191 |
| 31 | [Cr ^{III} ₈ M ^{II} ₆] ¹²⁺ Coordination Cubes (M ^{II} =Cu, Co). <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6761-6764. | 7.2 | 42 |
| 32 | Magnetic and magnetocaloric properties of an unusual family of carbonate-panelled [Ln ^{III} 6Zn ^{II} 2] cages. <i>Dalton Transactions</i> , 2015, 44, 10315-10320. | 1.6 | 27 |
| 33 | Crystal structure of trihydrogen bis{[1,1,1-tris(2-oxidoethylaminomethyl)ethane]cobalt(III)} trinitrate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015, 71, m275-m276. | 0.2 | 1 |
| 34 | [ReF ₆] ²⁻ : A Robust Module for the Design of Molecule-Based Magnetic Materials. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1351-1354. | 7.2 | 98 |
| 35 | Converting an hexametallc Mn ^{III} wheel to a dodecametallc Mn ^{III} wheel via ligand oximation. <i>Chemical Communications</i> , 2014, 50, 3310-3312. | 2.2 | 13 |
| 36 | Fluoride-Bridged {Gd ^{III} ₃ M ^{III} ₂ } (M=Cr, Fe, Ga) Molecular Magnetic Refrigerants. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2394-2397. | 7.2 | 86 |

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|----|--|-----|-----------|
| 37 | Innentitelbild: [ReF6]2 ⁺ : A Robust Module for the Design of Molecule-Based Magnetic Materials (Angew. Chem. 5/2014). Angewandte Chemie, 2014, 126, 1192-1192. | 1.6 | 0 |
| 38 | From antiferromagnetic to ferromagnetic exchange in a family of oxime-based MnIII dimers: a magneto-structural study. Dalton Transactions, 2013, 42, 16510. | 1.6 | 33 |
| 39 | Angular dependence of the exchange interaction in fluoride-bridged GdIII ⁺ CrIII complexes. Chemical Communications, 2013, 49, 5583. | 2.2 | 33 |
| 40 | Synthetic, structural, spectroscopic and theoretical study of a Mn(III)-Cu(II) dimer containing a Jahn-Teller compressed Mn ion. Dalton Transactions, 2013, 42, 207-216. | 1.6 | 16 |
| 41 | New Nanostructured Materials: Synthesis of Dodecanuclear Ni ^{II} Complexes and Surface Deposition Studies. Chemistry - A European Journal, 2013, 19, 9064-9071. | 1.7 | 19 |
| 42 | Homo- and heterometallic planes, chains and cubanes. Dalton Transactions, 2013, 42, 10315. | 1.6 | 16 |
| 43 | Inelastic neutron scattering studies on the odd-membered antiferromagnetic wheel Cr ₈ Ni. Physical Review B, 2012, 86, . | 1.1 | 14 |
| 44 | Twisted molecular magnets. Chemical Communications, 2012, 48, 181-190. | 2.2 | 102 |
| 45 | Calixarene-supported clusters: employment of complementary cluster ligands for the construction of a ferromagnetic [Mn ₅] cage. Chemical Communications, 2012, 48, 11190. | 2.2 | 34 |
| 46 | A classification of spin frustration in molecular magnets from a physical study of large odd-numbered-metal, odd electron rings. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19113-19118. | 3.3 | 114 |
| 47 | Direct observation of a ferri-to-ferromagnetic transition in a fluoride-bridged 3d ⁴ -4f molecular cluster. Chemical Science, 2012, 3, 1024-1032. | 3.7 | 78 |
| 48 | Four-Coordinate Cooperative Spin Crossover in a Mononuclear Fe ^{II} Complex. Angewandte Chemie - International Edition, 2012, 51, 11049-11052. | 7.2 | 58 |
| 49 | Fluoride-bridged {Ln ₂ Cr ₂ } polynuclear complexes from semi-labile mer-[CrF ₃ (py) ₃] and [Ln(hfac) ₃ (H ₂ O) ₂]. Dalton Transactions, 2012, 41, 11284. | 1.6 | 43 |
| 50 | Fluoride Bridges as Structure-Directing Motifs in 3d-4f Cluster Chemistry. Inorganic Chemistry, 2012, 51, 5435-5443. | 1.9 | 86 |
| 51 | The Importance of Being Exchanged: [Gd ^{III} ₄ M ^{II} ₈ (OH) ₈ (L) ₈ (O ₂) ₂ CR ₈] Clusters for Magnetic Refrigeration. Angewandte Chemie - International Edition, 2012, 51, 4633-4636. | 7.2 | 78 |
| 52 | Ferromagnetic exchange in a twisted, oxime-bridged [MnIII ₂] dimer. Dalton Transactions, 2012, 41, 8340. | 1.6 | 10 |
| 53 | Modification of the magnetic properties of a heterometallic wheel by inclusion of a Jahn-Teller distorted Cu(II) ion. Dalton Transactions, 2011, 40, 8533. | 1.6 | 12 |
| 54 | Calix[4]arene supported clusters: a dimer of [MnIIIMnII] dimers. Chemical Communications, 2011, 47, 1440-1442. | 2.2 | 34 |

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|----|--|-----|-----------|
| 55 | Varying spin state composition by the choice of capping ligand in a family of molecular chains: detailed analysis of magnetic properties of chromium(III) horseshoes. Dalton Transactions, 2011, 40, 2725. | 1.6 | 18 |
| 56 | Magnetic Properties of a Manganese(III) Chain with Monoatomic Bridges: <i>catena</i> -MnF(salen). Inorganic Chemistry, 2011, 50, 5312-5314. | 1.9 | 29 |
| 57 | Chiral single-molecule magnets: a partial Mn(III) supertetrahedron from achiral components. Chemical Communications, 2011, 47, 3090. | 2.2 | 51 |
| 58 | Accidentally on purpose: construction of a ferromagnetic, oxime-based [MnIII ₂] dimer. Dalton Transactions, 2011, 40, 9999. | 1.6 | 16 |
| 59 | A linear single-molecule magnet based on [RuIII(CN) ₆] ³⁻ . Chemical Communications, 2011, 47, 6918. | 2.2 | 50 |
| 60 | A Family of Calix[4]arene-supported [Mn ^{III} ₂ Mn ^{II} ₂] Clusters. Chemistry - A European Journal, 2011, 17, 7521-7530. | 1.7 | 74 |
| 61 | Alkali metal cation complexation and solvent interactions by robust chromium(III) fluoride complexes. Journal of Fluorine Chemistry, 2010, 131, 898-906. | 0.9 | 25 |
| 62 | Magnetic circular dichroism spectroscopy on the Cr ₈ antiferromagnetic ring. Dalton Transactions, 2010, 39, 4999. | 1.6 | 19 |
| 63 | Frozen-solution magnetisation dynamics of hexanuclear oxime-based MnIII Single-Molecule Magnets. Chemical Science, 2010, 1, 631. | 3.7 | 16 |
| 64 | Computationally inexpensive interpretation of magnetic data for finite spin clusters. Dalton Transactions, 2010, 39, 4882. | 1.6 | 10 |
| 65 | MCD spectroscopy of hexanuclear Mn(III) salicylaldoxime single-molecule magnets. Dalton Transactions, 2010, 39, 9904. | 1.6 | 18 |
| 66 | EPR Spectroscopy of a Family of Cr ^{III} ₇ M ^{II} (M = Cd, Zn, Mn, Ni) "Wheels": Studies of Isostructural Compounds with Different Spin Ground States. Chemistry - A European Journal, 2009, 15, 3152-3167. | 1.7 | 77 |
| 67 | A New Polynuclear Coordination Type for (Salicylaldoxime)copper(II) Complexes: Structure and Magnetic Properties of an (Oxime)Cu ₆ Cluster. European Journal of Inorganic Chemistry, 2009, 2009, 4613-4617. | 1.0 | 32 |
| 68 | Calix[4]arene-Based Single-Molecule Magnets. Angewandte Chemie - International Edition, 2009, 48, 8285-8288. | 7.2 | 109 |
| 69 | Magnetic circular dichroism spectroscopy of weakly exchange coupled transition metal dimers: A model study. Coordination Chemistry Reviews, 2009, 253, 2352-2362. | 9.5 | 24 |
| 70 | EPR OF Mn ²⁺ IMPURITIES IN CALCITE: A DETAILED STUDY PERTINENT TO MARBLE PROVENANCE DETERMINATION*. Archaeometry, 2009, 51, 43-48. | 0.6 | 14 |
| 71 | Attempting to understand (and control) the relationship between structure and magnetism in an extended family of Mn ₆ single-molecule magnets. Dalton Transactions, 2009, , 3403. | 1.6 | 146 |
| 72 | Ground state spin-switching via targeted structural distortion: twisted single-molecule magnets from derivatised salicylaldoximes. Dalton Transactions, 2008, , 1809-1817. | 1.6 | 169 |

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|----|--|-----|-----------|
| 73 | A ligand-field study of the ground spin-state magnetic anisotropy in a family of hexanuclear Mn(III) single-molecule magnets. Dalton Transactions, 2008, , 2277. | 1.6 | 29 |
| 74 | Sign and magnitude of spin Hamiltonian parameters for Mn ²⁺ impurities in calcite. A multi- and low-frequency EPR study. Molecular Physics, 2007, 105, 2025-2030. | 0.8 | 23 |
| 75 | Importance of the Anisotropic Exchange Interaction for the Magnetic Anisotropy of Polymetallic Systems. Journal of the American Chemical Society, 2007, 129, 760-761. | 6.6 | 62 |
| 76 | Studies of a linear single-molecule magnet. Dalton Transactions, 2007, , 5282. | 1.6 | 28 |
| 77 | A rare mixed-valence state manganese(II/IV) tetranuclear cage formed using phenyl 2-pyridyl ketone oxime and azide as ligands. Inorganic Chemistry Communication, 2006, 9, 638-641. | 1.8 | 39 |
| 78 | Magnetic and theoretical characterization of a ferromagnetic Mn(III) dimer. Polyhedron, 2005, 24, 2450-2454. | 1.0 | 29 |
| 79 | Molecular nanoclusters as magnetic refrigerants: The case of Fe ₁₄ with very large spin ground-state. Polyhedron, 2005, 24, 2573-2578. | 1.0 | 26 |
| 80 | AF molecular rings for quantum computation. Polyhedron, 2005, 24, 2562-2567. | 1.0 | 8 |
| 81 | Studies of chromium cages and wheels. Coordination Chemistry Reviews, 2005, 249, 2577-2590. | 9.5 | 140 |
| 82 | Efficient Preparation of Functionalized Hybrid Organic/Inorganic Wells Dawson-Type Polyoxotungstates. ChemInform, 2005, 36, no. | 0.1 | 0 |
| 83 | A Vertebrate-type Ferredoxin Domain in the Na ⁺ -translocating NADH Dehydrogenase from Vibrio cholerae. Journal of Biological Chemistry, 2005, 280, 22560-22563. | 1.6 | 6 |
| 84 | The Electronic Structure of the Isoelectronic, Square-Planar Complexes [Fe(L) ₂] ₂ - and [Co(LBu) ₂] ₂ -(L ₂ - and (LBu) ₂ - Benzene-1,2-dithiolates): An Experimental and Density Functional Theoretical Study. Journal of the American Chemical Society, 2005, 127, 4403-4415. | 6.6 | 176 |
| 85 | Topology and spin dynamics in magnetic molecules. Physical Review B, 2005, 72, . | 1.1 | 61 |
| 86 | Studies of an Enneanuclear Manganese Single-Molecule Magnet. Journal of the American Chemical Society, 2005, 127, 5572-5580. | 6.6 | 90 |
| 87 | Efficient Preparation of Functionalized Hybrid Organic/Inorganic Wells Dawson-type Polyoxotungstates. Journal of the American Chemical Society, 2005, 127, 6788-6794. | 6.6 | 192 |
| 88 | Molecular Engineering of Antiferromagnetic Rings for Quantum Computation. Physical Review Letters, 2005, 94, 207208. | 2.9 | 291 |
| 89 | Single-crystal parallel-mode EPR spectroscopy of an S=6 ground-state transition-metal cluster. Physical Review B, 2004, 69, . | 1.1 | 14 |
| 90 | Engineering molecular rings for magnetocaloric effect. Applied Physics Letters, 2004, 84, 3468-3470. | 1.5 | 80 |

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| 91 | Magnetic and Optical Studies on an $S = 6$ Ground-State Cluster $[\text{Cr}_{12}\text{O}_9(\text{OH})_3(\text{O}_2\text{CCMe}_3)_{15}]$: Determination of, and the Relationship Between, Single-Ion and Cluster Spin Hamiltonian Parameters. <i>Inorganic Chemistry</i> , 2003, 42, 5293-5303. | 1.9 | 48 |
| 92 | Synthesis and Characterization of Heterometallic $\{\text{Cr}_7\text{M}\}$ Wheels. <i>Angewandte Chemie</i> , 2003, 115, 105-109. | 1.6 | 54 |
| 93 | Highly Efficient Peptide Bond Formation to Functionalized Wells-Dawson-Type Polyoxotungstates. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3404-3406. | 7.2 | 116 |
| 94 | Synthesis and Characterization of Heterometallic $\{\text{Cr}_7\text{M}\}$ Wheels. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 101-105. | 7.2 | 205 |
| 95 | Optical Determination of the Single-Ion Zero-Field Splitting in Large Spin Clusters. <i>Journal of the American Chemical Society</i> , 2003, 125, 1168-1169. | 6.6 | 20 |
| 96 | A Novel Undecametallic Iron(III) Cluster with an $S=11/2$ Spin Ground State. <i>Inorganic Chemistry</i> , 2003, 42, 6601-6603. | 1.9 | 65 |
| 97 | Octametallic and Hexadecametallic Ferric Wheels. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4318-4321. | 7.2 | 104 |
| 98 | High-resolution electron-energy-loss spectroscopy of vanadium and vanadium oxide thin films on $\text{TiO}_2(110)$ ($1\text{\AA}-1$). <i>Physical Review B</i> , 2001, 64, . | 1.1 | 15 |