

Guillermo Minguez Espallargas

List of Publications by Year in descending order

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86
papers

7,341
citations

134610

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85
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108
all docs

108
docs citations

108
times ranked

12330
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A fluorinated 2D magnetic coordination polymer. Dalton Transactions, 2022, 51, 1861-1865. | 1.6 | 1 |
| 2 | Multivariate sodalite zeolitic imidazolate frameworks: a direct solvent-free synthesis. Chemical Science, 2022, 13, 842-847. | 3.7 | 13 |
| 3 | Semiconductor Porous Hydrogen-Bonded Organic Frameworks Based on Tetrathiafulvalene Derivatives. Journal of the American Chemical Society, 2022, 144, 9074-9082. | 6.6 | 26 |
| 4 | Selective CO ₂ Sorption Using Compartmentalized Coordination Polymers with Discrete Voids**. Chemistry - A European Journal, 2021, 27, 4653-4659. | 1.7 | 5 |
| 5 | Exploiting Reaction-Diffusion Conditions to Trigger Pathway Complexity in the Growth of a MOF. Angewandte Chemie - International Edition, 2021, 60, 15920-15927. | 7.2 | 19 |
| 6 | Innenteilbild: Exploiting Reaction-Diffusion Conditions to Trigger Pathway Complexity in the Growth of a MOF (Angew. Chem. 29/2021). Angewandte Chemie, 2021, 133, 15794-15794. | 1.6 | 0 |
| 7 | Exploiting Reaction-Diffusion Conditions to Trigger Pathway Complexity in the Growth of a MOF. Angewandte Chemie, 2021, 133, 16056-16063. | 1.6 | 1 |
| 8 | Near Isotropic <i>d</i> ₄ Spin Qubits as Nodes of a Gd(III)-Based Metal-Organic Framework. Inorganic Chemistry, 2021, 60, 8575-8580. | 1.9 | 6 |
| 9 | Functionalization using biocompatible carboxylated cyclodextrins of iron-based nanoMIL-100. Polyhedron, 2021, 210, 115509. | 1.0 | 1 |
| 10 | Chemical Design and Magnetic Ordering in Thin Layers of 2D Metal-Organic Frameworks (MOFs). Journal of the American Chemical Society, 2021, 143, 18502-18510. | 6.6 | 22 |
| 11 | A thermally/chemically robust and easily regenerable anilato-based ultramicroporous 3D MOF for CO ₂ uptake and separation. Journal of Materials Chemistry A, 2021, 9, 25189-25195. | 5.2 | 13 |
| 12 | Cobalt Metal-Organic Framework Based on Layered Double Nanosheets for Enhanced Electrocatalytic Water Oxidation in Neutral Media. Journal of the American Chemical Society, 2020, 142, 19198-19208. | 6.6 | 64 |
| 13 | 2D magnetic MOFs with micron-lateral size by liquid exfoliation. Chemical Communications, 2020, 56, 7657-7660. | 2.2 | 21 |
| 14 | Interpenetrated Luminescent Metal-Organic Frameworks based on 1 <i>H</i> -Indazole-5-carboxylic Acid. Crystal Growth and Design, 2020, 20, 4550-4560. | 1.4 | 9 |
| 15 | MOF-Mediated Synthesis of Supported Fe-Doped Pd Nanoparticles under Mild Conditions for Magnetically Recoverable Catalysis**. Chemistry - A European Journal, 2020, 26, 13659-13667. | 1.7 | 9 |
| 16 | A systematic study of the optical properties of mononuclear hybrid organo-inorganic lanthanoid complexes. Inorganic Chemistry Frontiers, 2020, 7, 3049-3062. | 3.0 | 18 |
| 17 | In and out: crystal engineering for reversible iodine uptake. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 722-723. | 0.5 | 0 |
| 18 | Design of cost-efficient and photocatalytically active Zn-based MOFs decorated with Cu ₂ O nanoparticles for CO ₂ methanation. Chemical Communications, 2019, 55, 10932-10935. | 2.2 | 34 |

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|----|--|------|-----------|
| 19 | Electronic, Structural and Functional Versatility in Tetrathiafulvalene- Ln -Lanthanide Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2019, 25, 12636-12643. | 1.7 | 40 |
| 20 | Use of Alkylarsonium Directing Agents for the Synthesis and Study of Zeolites. <i>Chemistry - A European Journal</i> , 2019, 25, 16390-16396. | 1.7 | 6 |
| 21 | Charge-transfer interactions between fullerenes and a mesoporous tetrathiafulvalene-based metal-organic framework. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1883-1893. | 1.5 | 24 |
| 22 | Cation influence in adsorptive propane/propylene separation in ZIF-8 (SOD) topology. <i>Chemical Engineering Journal</i> , 2019, 371, 848-856. | 6.6 | 35 |
| 23 | Influence of interpenetration on the flexibility of MUV-2 . <i>CrystEngComm</i> , 2019, 21, 3031-3035. | 1.3 | 10 |
| 24 | Solvent-Free Synthesis of ZIFs: A Route toward the Elusive Fe(II) Analogue of ZIF-8. <i>Journal of the American Chemical Society</i> , 2019, 141, 7173-7180. | 6.6 | 76 |
| 25 | Cobalt Metal-Organic Framework Based on Two Dinuclear Secondary Building Units for Electrocatalytic Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46658-46665. | 4.0 | 40 |
| 26 | Hybrid organic-inorganic mononuclear lanthanoid single ion magnets. <i>Chemical Communications</i> , 2019, 55, 14992-14995. | 2.2 | 14 |
| 27 | A highly stable and hierarchical tetrathiafulvalene-based metal-organic framework with improved performance as a solid catalyst. <i>Chemical Science</i> , 2018, 9, 2413-2418. | 3.7 | 50 |
| 28 | Sublimable chloroquinolate lanthanoid single-ion magnets deposited on ferromagnetic electrodes. <i>Chemical Science</i> , 2018, 9, 199-208. | 3.7 | 23 |
| 29 | Magnetic functionalities in MOFs: from the framework to the pore. <i>Chemical Society Reviews</i> , 2018, 47, 533-557. | 18.7 | 615 |
| 30 | Sublimable Single Ion Magnets Based on Lanthanoid Quinolate Complexes: The Role of Intermolecular Interactions on Their Thermal Stability. <i>Inorganic Chemistry</i> , 2018, 57, 14170-14177. | 1.9 | 13 |
| 31 | Implementation of slow magnetic relaxation in a SIM-MOF through a structural rearrangement. <i>Dalton Transactions</i> , 2018, 47, 14734-14740. | 1.6 | 10 |
| 32 | Breathing-Dependent Redox Activity in a Tetrathiafulvalene-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2018, 140, 10562-10569. | 6.6 | 62 |
| 33 | Two Consecutive Magneto-Structural Gas-Solid Transformations in Non-Porous Molecular Materials. <i>Chemistry - A European Journal</i> , 2018, 24, 12426-12432. | 1.7 | 14 |
| 34 | Isorecticular two-dimensional magnetic coordination polymers prepared through pre-synthetic ligand functionalization. <i>Nature Chemistry</i> , 2018, 10, 1001-1007. | 6.6 | 94 |
| 35 | Gas confinement in compartmentalized coordination polymers for highly selective sorption. <i>Chemical Science</i> , 2017, 8, 3109-3120. | 3.7 | 15 |
| 36 | Single-Crystal-to-Single-Crystal Anion Exchange in a Gadolinium MOF: Incorporation of POMs and $[\text{AuCl}_4]^-$. <i>Polymers</i> , 2016, 8, 171. | 2.0 | 6 |

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|----|---|------|-----------|
| 37 | Insertion of a $[\text{Fe}^{\text{II}}(\text{pyimH})_3]^{2+}$ $[\text{pyimH} = 2\text{-}(\text{1-H-imidazol-2-yl})\text{pyridine}]$ Spin-Crossover Complex Inside a Ferromagnetic Lattice Based on a Chiral 3D Bimetallic Oxalate Network. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2187-2192. | 1.0 | 14 |
| 38 | New dinuclear copper complexes incorporating bis(imidazolyl) based ligands and bidentate-monodentate oxalate bridges. Crystal structure and magnetic properties of $[\text{Cu}_2(\text{BIM})_2(\text{C}_2\text{O}_4)_2] \cdot 4\text{H}_2\text{O}$ and $[\text{Cu}_2(\text{BIK})_2(\text{C}_2\text{O}_4)_2]$ (BIM=bis(2-imidazolyl)methane), <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 808-813. | 1.0 | 8 |
| 39 | Table crossover between one- and three-dimensional magnetic dynamics in single-chain magnets organized by halogen bonding. <i>Physical Review B</i> , 2016, 93, . | 1.1 | 13 |
| 40 | Isostructural compartmentalized spin-crossover coordination polymers for gas confinement. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 808-813. | 3.0 | 8 |
| 41 | Snapshots of a solid-state transformation: coexistence of three phases trapped in one crystal. <i>Chemical Science</i> , 2016, 7, 2907-2915. | 3.7 | 36 |
| 42 | Key Role of the Cation in the Crystallization of Chiral Tris(Anilato)Metalate Magnetic Anions. <i>Crystal Growth and Design</i> , 2016, 16, 518-526. | 1.4 | 22 |
| 43 | Coordination Polymer Flexibility Leads to Polymorphism and Enables a Crystalline Solid-Vapour Reaction: A Multi-technique Mechanistic Study. <i>Chemistry - A European Journal</i> , 2015, 21, 8799-8811. | 1.7 | 25 |
| 44 | Quantum Error Correction with magnetic molecules. <i>Europhysics Letters</i> , 2015, 110, 33001. | 0.7 | 11 |
| 45 | Layered gadolinium hydroxides for low-temperature magnetic cooling. <i>Chemical Communications</i> , 2015, 51, 14207-14210. | 2.2 | 37 |
| 46 | 2D and 3D Anilato-Based Heterometallic M(I)M(III) Lattices: The Missing Link. <i>Inorganic Chemistry</i> , 2015, 54, 5410-5418. | 1.9 | 45 |
| 47 | Blue-luminescent organic lead bromide perovskites: highly dispersible and photostable materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14039-14045. | 5.2 | 74 |
| 48 | Solvent-Free Synthesis of a Pillared Three-Dimensional Coordination Polymer with Magnetic Ordering. <i>Inorganic Chemistry</i> , 2015, 54, 10490-10496. | 1.9 | 19 |
| 49 | A Mixed-Ligand Approach for Spin-Crossover Modulation in a Linear Fe^{II} Coordination Polymer. <i>Inorganic Chemistry</i> , 2014, 53, 4482-4490. | 1.9 | 13 |
| 50 | Perovskite solar cells employing organic charge-transport layers. <i>Nature Photonics</i> , 2014, 8, 128-132. | 15.6 | 1,320 |
| 51 | Flexible high efficiency perovskite solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 994. | 15.6 | 409 |
| 52 | Nontemplate Synthesis of $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Perovskite Nanoparticles. <i>Journal of the American Chemical Society</i> , 2014, 136, 850-853. | 6.6 | 1,128 |
| 53 | A SIMOF: Three-Dimensional Organisation of Single-Ion Magnets with Anion-Exchange Capabilities. <i>Chemistry - A European Journal</i> , 2014, 20, 10695-10702. | 1.7 | 107 |
| 54 | Structural re-arrangement in two hexanuclear Cu^{II} complexes: from a spin frustrated trigonal prism to a strongly coupled antiferromagnetic soluble ring complex with a porous tubular structure. <i>Chemical Science</i> , 2014, 5, 324-332. | 3.7 | 31 |

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|----|--|------|-----------|
| 55 | A rare example of nickel(ii) chains based on a heteroscorpionate-like ligand with quadruple imidazolyl interactions. Dalton Transactions, 2014, 43, 11371-11375. | 1.6 | 4 |
| 56 | Hybrid Magnetic Superconductors Formed by TaS ₂ Layers and Spin Crossover Complexes. Inorganic Chemistry, 2013, 52, 8451-8460. | 1.9 | 17 |
| 57 | A Family of Layered Chiral Porous Magnets Exhibiting Tunable Ordering Temperatures. Inorganic Chemistry, 2013, 52, 10031-10040. | 1.9 | 101 |
| 58 | Chemical transformations of a crystalline coordination polymer: a multi-stage solid-vapour reaction manifold. Chemical Science, 2013, 4, 696-708. | 3.7 | 35 |
| 59 | Hydrogen bonding versus π -stacking in ferromagnetic interactions. Studies on a copper triazolopyridine complex. CrystEngComm, 2013, 15, 1836. | 1.3 | 10 |
| 60 | Dynamic magnetic MOFs. Chemical Society Reviews, 2013, 42, 1525-1539. | 18.7 | 577 |
| 61 | Spin-Crossover Modification through Selective CO ₂ Sorption. Journal of the American Chemical Society, 2013, 135, 15986-15989. | 6.6 | 129 |
| 62 | Single-crystal EPR spectroscopy of a Co(II) single-chain magnet. Polyhedron, 2013, 66, 218-221. | 1.0 | 9 |
| 63 | A novel coordination polymer with an unusual [3Å ²] oblique copper(II) grid: [Cu ₂ (HBIMAM) ₂ (C ₄ O ₄) ₃ (H ₂ O) ₂] _n ·2nH ₂ O [BIMAM=bis(imidazol-2-yl)methylaminomethane]. X-ray structure and magnetic characterization. Polyhedron, 2013, 56, 90-95. | 1.0 | 5 |
| 64 | Dynamic Magnetic Materials Based on the Cationic Coordination Polymer [Cu(btix) ₂] _n ·[btix = 1,4-Bis(triazol-1-ylmethyl)benzene]: Tuning the Structural and Magnetic Properties through Anion Exchange. Inorganic Chemistry, 2012, 51, 12938-12947. | 1.9 | 23 |
| 65 | One-dimensional organization of free radicals via halogen bonding. CrystEngComm, 2012, 14, 6381. | 1.3 | 30 |
| 66 | Combination of Magnetic Susceptibility and Electron Paramagnetic Resonance to Monitor the 1D to 2D Solid State Transformation in Flexible Metal-Organic Frameworks of Co(II) and Zn(II) with 1,4-Bis(triazol-1-ylmethyl)benzene. Inorganic Chemistry, 2012, 51, 4403-4410. | 1.9 | 37 |
| 67 | Tuning the magneto-structural properties of non-porous coordination polymers by HCl chemisorption. Nature Communications, 2012, 3, 828. | 5.8 | 99 |
| 68 | Different structural destinations: comparing reactions of [CuBr ₂ (3-Brpy) ₂] crystals with HBr and HCl gas. CrystEngComm, 2011, 13, 4400. | 1.3 | 22 |
| 69 | Multifunctional Magnetic Materials Obtained by Insertion of a Spin-Crossover Fe ^{III} Complex into Bimetallic Oxalate-Based Ferromagnets. Chemistry - A European Journal, 2010, 16, 2207-2219. | 1.7 | 79 |
| 70 | Mechanistic Insights into a Gas-Solid Reaction in Molecular Crystals: The Role of Hydrogen Bonding. Angewandte Chemie - International Edition, 2010, 49, 8892-8896. | 7.2 | 59 |
| 71 | Effects of halogen bonding in ferromagnetic chains based on Co(ii) coordination polymers. CrystEngComm, 2010, 12, 2339. | 1.3 | 43 |
| 72 | Rational Modification of the Hierarchy of Intermolecular Interactions in Molecular Crystal Structures by Using Tunable Halogen Bonds. Chemistry - A European Journal, 2009, 15, 7554-7568. | 1.7 | 164 |

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|----|--|-----|-----------|
| 73 | Ligand Substitution within Nonporous Crystals of a Coordination Polymer: Elimination from and Insertion into Ag ⁺ ⋯O Bonds by Alcohol Molecules in a Solid–Vapor Reaction. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1693-1697. | 7.2 | 65 |
| 74 | Noncovalent Interactions under Extreme Conditions: High-Pressure and Low-Temperature Diffraction Studies of the Isostructural Metal–Organic Networks (4-Chloropyridinium) ₂ [CoX ₄] (X = Cl, Br). <i>Journal of the American Chemical Society</i> , 2008, 130, 9058-9071. | 6.6 | 82 |
| 75 | Competition between coordination network and halogen bond network formation: towards halogen-bond functionalised network materials using copper-iodobenzoate units. <i>CrystEngComm</i> , 2008, 10, 1335. | 1.3 | 34 |
| 76 | Combining metals with halogen bonds. <i>CrystEngComm</i> , 2008, 10, 1712. | 1.3 | 300 |
| 77 | Ligand flexibility and framework rearrangement in a new family of porous metal–organic frameworks. <i>Chemical Communications</i> , 2007, , 1532-1534. | 2.2 | 73 |
| 78 | Reversible Gas Uptake by a Nonporous Crystalline Solid Involving Multiple Changes in Covalent Bonding. <i>Journal of the American Chemical Society</i> , 2007, 129, 15606-15614. | 6.6 | 82 |
| 79 | Unexpected structural homologies involving hydrogen-bonded and halogen-bonded networks in halopyridinium halometallate salts. <i>CrystEngComm</i> , 2006, 8, 425. | 1.3 | 51 |
| 80 | Reversible Extrusion and Uptake of HCl Molecules by Crystalline Solids Involving Coordination Bond Cleavage and Formation. <i>Journal of the American Chemical Society</i> , 2006, 128, 9584-9585. | 6.6 | 113 |
| 81 | Designing Intermolecular Interactions between Halogenated Peripheries of Inorganic and Organic Molecules: Electrostatically Directed M–X⋯X⋯C Halogen Bonds. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 435-440. | 1.2 | 152 |
| 82 | Symmetrical reconversion: measuring cross-correlation rates with enhanced accuracy. <i>Journal of Magnetic Resonance</i> , 2003, 161, 258-264. | 1.2 | 58 |
| 83 | Involving metals in halogen–halogen interactions: second-sphere Lewis acid ligands for perhalometallate ions (M–X–X–C). <i>CrystEngComm</i> , 2003, 5, 343-345. | 1.3 | 100 |
| 84 | Diffraction Studies in Crystal Engineering. , 0, , 241-265. | | 0 |
| 85 | Slow Relaxation of the Magnetization on Frustrated Triangular FeIII Units with S = 1/2 Ground State: The Effect of the Highly Ordered Crystal Lattice and the Counteranions. <i>Crystal Growth and Design</i> , 0, , | 1.4 | 5 |
| 86 | Synthesis, Structures, and Solution Studies of a New Class of [Mo ₂ O ₂ S ₂]-Based Thiosemicarbazone Coordination Complexes. <i>ACS Omega</i> , 0, , | 1.6 | 5 |