Silvia GÃ³mez-Coca

List of Publications by Year
in descending order

40 papers	2,280 citations	377584 21 h-index	325983 40 g-index
43 all docs	43 docs citations	43 times ranked	2589 citing authors

#	Article	IF	Citations
1	Dinuclear Fluoride Single-Bridged Lanthanoid Complexes as Molecule Magnets: Unprecedented Coupling Constant in a Fluoride-Bridged Gadolinium Compound. Inorganic Chemistry, 2022, 61, 9946-9959.	1.9	7
2	Insights into the Spin Dynamics of Mononuclear Cerium(III) Single-Molecule Magnets. Inorganic Chemistry, 2022, 61, 11124-11136.	1.9	7
3	Magnetic anisotropy in Yb^{III} complex candidates for molecular qubits: a theoretical analysis. Physical Chemistry Chemical Physics, 2021, 23, 1976-1983.	1.3	4
4	Slow magnetic relaxation in dinuclear dysprosium and holmium phenoxide bridged complexes: a Dy₂single molecule magnet with a high energy barrier. Inorganic Chemistry Frontiers, 2021, 8, 2532-2541.	3.0	17
5	Spinâ€Phonon Coupling and Slowâ€Magnetic Relaxation in Pristine Ferrocenium. Chemistry - A European Journal, 2021, 27, 16440-16447.	1.7	8
6	Metalâ€“Organic Nanocapsules with Functionalized s-Heptazine Ligands. Inorganic Chemistry, 2021, 60, 570-573.	1.9	0
7	Dysprosium-based complexes with a flat pentadentate donor: a magnetic and ab initio study. Dalton Transactions, 2020, 49, 8389-8401.	1.6	8
8	Single molecule magnets of cobalt and zinc homo- and heterometallic coordination polymers prepared by a one-step synthetic procedure. RSC Advances, 2020, 10, 45090-45104.	1.7	8
9	Modular supramolecular dimerization of optically tunable extended aryl viologens. Chemical Science, 2019, 10, 8806-8811.	3.7	43
10	Dinuclear Co^{II}Y^{III}vs.tetranuclear CoII2YIII2 complexes: the effect of increasing molecular size on magnetic anisotropy and relaxation dynamics. Dalton Transactions, 2019, 48, 14873-14884.	1.6	6
11	Hexagonal Bipyramidal Dy(III) Complexes as a Structural Archetype for Single-Molecule Magnets. Inorganic Chemistry, 2019, 58, 2610-2617.	1.9	60
12	Dissecting RAF Inhibitor Resistance by Structure-based Modeling Reveals Ways to Overcome Oncogenic RAS Signaling. Cell Systems, 2018, 7, 161-179.e14.	2.9	53
13	Anion-Ï€ Interactions in Computer-Aided Drug Design: Modeling the Inhibition of Malate Synthase by Phenyl-Diketo Acids. Journal of Chemical Information and Modeling, 2018, 58, 2085-2091.	2.5	21
14	An air stable radical-bridged dysprosium single molecule magnet and its neutral counterpart: redox switching of magnetic relaxation dynamics. Chemical Communications, 2017, 53, 2283-2286.	2.2	80
15	Analysis of Magnetic Anisotropy and the Role of Magnetic Dilution in Triggering Singleâ€Molecule Magnet (SMM) Behavior in a Family of Co^{II}Y^{III} Dinuclear Complexes with Easyâ€Plane Anisotropy. Chemistry - A European Journal, 2017, 23, 11649-11661.	1.7	51
16	Coming full circle: constructing a [Gd₆] wheel dimer by dimer and the importance of spin topology. Dalton Transactions, 2017, 46, 10255-10263.	1.6	14
17	Influence of the Disposition of the Anisotropy Axes into the Magnetic Properties of MnIII Dinuclear Compounds with Benzoato Derivative Bridges. Inorganic Chemistry, 2017, 56, 8135-8146.	1.9	5
18	Relaxation Dynamics of Identical Trigonal Bipyramidal Cobalt Molecules with Different Local Symmetries and Packing Arrangements: Magnetostructural Correlations and ab inito Calculations. Journal of the American Chemical Society, 2016, 138, 16407-16416.	6.6	84

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19	Trigonal antiprismatic Co(ii) single molecule magnets with large uniaxial anisotropies: importance of Raman and tunneling mechanisms. Chemical Science, 2016, 7, 6519-6527.	3.7	112
20	Magnetic Behaviour of Transition Metal Complexes with Functionalized Chiral and C60-Filled Nanotubes as Bridging Ligands: A Theoretical Study. Magnetochemistry, 2015, 1, 62-71.	1.0	4
21	Two types of nitrito support for Î¼₄-oxido-bridged [Cu₄] complexes: synthesis, crystal structures, magnetic properties and DFT analysis. Dalton Transactions, 2015, 44, 6107-6117.	1.6	13
22	Large magnetic anisotropy in mononuclear metal complexes. Coordination Chemistry Reviews, 2015, 289-290, 379-392.	9.5	339
23	A trinuclear CuII complex with functionalized s-heptazine N-ligands: molecular chemistry from a g-C3N4 fragment. Dalton Transactions, 2015, 44, 15761-15763.	1.6	9
24	Huge Magnetic Anisotropy in a Trigonal-Pyramidal Nickel(II) Complex. Inorganic Chemistry, 2014, 53, 676-678.	1.9	45
25	Origin of slow magnetic relaxation in Kramers ions with non-uniaxial anisotropy. Nature Communications, 2014, 5, 4300.	5.8	345
26	Two 3dâ€“4f nanomagnets formed via a two-step in situ reaction of picolinaldehyde. Chemical Communications, 2013, 49, 6549.	2.2	69
27	A density functional theory approach to the magnetic properties of a coupled single-molecule magnet (Mn₇)₂ complex â€" An entangled qubit pair candidate. Canadian Journal of Chemistry, 2013, 91, 866-871.	0.6	1
28	Unprecedented ferromagnetic dipolar interaction in a dinuclear holmium(iii) complex: a combined experimental and theoretical study. Chemical Communications, 2013, 49, 9341.	2.2	32
29	Mononuclear Single-Molecule Magnets: Tailoring the Magnetic Anisotropy of First-Row Transition-Metal Complexes. Journal of the American Chemical Society, 2013, 135, 7010-7018.	6.6	397
30	Self-Assembly of Pentanuclear Mesocate versus Octanuclear Helicate: Size Effect of the [M^{II}₃(Î¼₃-O/X)]ⁿ⁺ Triangle Core. Inorganic Chemistry, 2013, 52, 1099-1107.	1.9	36
31	Magnetic Interactions Mediated by Diamagnetic Cations in [Mn18M] (M = Sr2+, Y3+, Cd2+, and Lu3+) Coordination Clusters. Inorganic Chemistry, 2013, 52, 5764-5774.	1.9	20
32	Cu^{II}ï£¿Gd^{III} Cryogenic Magnetic Refrigerants and Cu₈Dy₉ Singleâ€Molecule Magnet Generated by In Situ Reactions of Picolinaldehyde and Acetylpyridine: Experimental and Theoretical Study. Chemistry - A European Journal, 2013, 19, 17567-17577.	1.7	88
33	Exchange coupling and magnetic anisotropy of exchanged-biased quantum tunnelling single-molecule magnet Ni3Mn2 complexes using theoretical methods based on Density Functional Theory. Dalton Transactions, 2012, 41, 2659.	1.6	6
34	Exchange Coupling Mediated by Nâ€“HÂ·Â·Â·Cl Hydrogen Bonds: Experimental and Theoretical Study of the Frustrated Magnetic System in Bis(o-phenylenediamine)nickel(II) Chloride. Inorganic Chemistry, 2012, 51, 5487-5493.	1.9	24
35	Charge Transfer and Tunable Ambipolar Effect Induced by Assembly of Cu(II) Binuclear Complexes on Carbon Nanotube Field Effect Transistor Devices. Journal of the American Chemical Society, 2012, 134, 7896-7901.	6.6	24
36	Theoretical Study of Exchange Coupling in 3d-Gd Complexes: Large Magnetocaloric Effect Systems. Journal of the American Chemical Society, 2012, 134, 10532-10542.	6.6	154

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37	The Use of a Bis(phenylpyrazolyl)pyridyl Ligand to Prepare [Mn₄] and [Mn₁₀] Cage Complexes. Chemistry - A European Journal, 2011, 17, 4960-4963.	1.7	23
38	Magnetic coupling in trinuclear partial cubane copper(II) complexes with a hydroxo bridging core and peripheral phenoxo bridges from NNO donor Schiff base ligands. Inorganica Chimica Acta, 2010, 363, 846-854.	1.2	38
39	Extended Fe4 butterfly complexes: theoretical analysis of magnetic properties and magnetostructural maps. Dalton Transactions, 2010, 39, 4832.	1.6	8
40	Single-molecule magnet Fe9 supramolecular dimers: a theoretical approach to intramolecular and intermolecular exchange interactions. Chemical Communications, 2009, , 4363.	2.2	13