

# Eufemio Moreno Pineda

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

2,594  
citations

201575

27  
h-index

197736

49  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular spin qubits for quantum algorithms. <i>Chemical Society Reviews</i> , 2018, 47, 501-513.	18.7	254
2	Direct measurement of dysprosium(III)–dysprosium(III) interactions in a single-molecule magnet. <i>Nature Communications</i> , 2014, 5, 5243.	5.8	223
3	A modular design of molecular qubits to implement universal quantum gates. <i>Nature Communications</i> , 2016, 7, 11377.	5.8	196
4	Mn <sup>II</sup> –Gd <sup>III</sup> Phosphonate Cages with a Large Magnetocaloric Effect. <i>Chemistry - A European Journal</i> , 2012, 18, 4161-4165.	1.7	135
5	Systematic Study of a Family of Butterfly-Like {M <sub>2</sub> Ln <sub>2</sub> } Molecular Magnets (M = Tb, Dy, Ho, Er, Tm, Yb). <i>Inorganic Chemistry</i> , 2016, 55, 10057-10067.	1.9	107
6	Making hybrid [n]-rotaxanes as supramolecular arrays of molecular electron spin qubits. <i>Nature Communications</i> , 2016, 7, 10240.	5.8	91
7	Measuring molecular magnets for quantum technologies. <i>Nature Reviews Physics</i> , 2021, 3, 645-659.	11.9	87
8	Molecular amino-phosphonate cobalt–lanthanide clusters. <i>Chemical Communications</i> , 2013, 49, 3522.	2.2	86
9	Synthesis, structures and magnetic properties of [(9-C9H9)Ln(8-C8H8)] super sandwich complexes. <i>Nature Communications</i> , 2019, 10, 3135.	5.8	74
10	Measurement of Magnetic Exchange in Asymmetric Lanthanide Dimetallics: Toward a Transferable Theoretical Framework. <i>Journal of the American Chemical Society</i> , 2018, 140, 2504-2513.	6.6	73
11	Physicochemical Properties of Near-Linear Lanthanide(II) Bis(silylamide) Complexes (Ln = Sm, Eu, Tm, Yb). <i>Inorganic Chemistry</i> , 2016, 55, 10057-10067.	1.9	66
12	Nuclear Spin Isomers: Engineering a Et <sub>4</sub> N[DyPc <sub>2</sub> ] Spin Qudit. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9915-9919.	7.2	62
13	Iron Lanthanide Phosphonate Clusters: {Fe <sub>6</sub> Ln <sub>6</sub> P <sub>6</sub> } Wells–Dawson-like Structures with <i>D</i> <sub>3d</sub> Symmetry. <i>Inorganic Chemistry</i> , 2014, 53, 3032-3038.	1.9	52
14	Surface confinement of TbPc <sub>2</sub> -SMMs: structural, electronic and magnetic properties. <i>Dalton Transactions</i> , 2016, 45, 18417-18433.	1.6	52
15	Quantum tunnelling of the magnetisation in single-molecule magnet isotopologue dimers. <i>Chemical Science</i> , 2019, 10, 5138-5145.	3.7	52
16	Exchange-bias quantum tunnelling in a CO <sub>2</sub> -based Dy <sub>4</sub> -single molecule magnet. <i>Chemical Science</i> , 2017, 8, 1178-1185.	3.7	48
17	Fast magnetic relaxation in an octahedral dysprosium tetramethyl-aluminate complex. <i>Dalton Transactions</i> , 2014, 43, 3035-3038.	1.6	47
18	[Cr <sup>III</sup> <sub>8</sub> M <sup>II</sup> <sub>6</sub> ] <sup>12+</sup> Coordination Cubes (M <sup>II</sup> = Cu, Ni, Co). <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6761-6764.	7.2	42

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19	Observation of the influence of dipolar and spin frustration effects on the magnetocaloric properties of a trigonal prismatic $\{Gd_7\}$ molecular nanomagnet. <i>Chemical Science</i> , 2016, 7, 4891-4895.	3.7	42
20	Controlled Synthesis of Nanoscopic Metal Cages. <i>Journal of the American Chemical Society</i> , 2015, 137, 7644-7647.	6.6	41
21	Octametallic 4f-phosphonate horseshoes. <i>Dalton Transactions</i> , 2013, 42, 14045.	1.6	39
22	Centred nine-metal rings of lanthanides. <i>Chemical Communications</i> , 2014, 50, 1438-1440.	2.2	39
23	Engineering in Hybrid Rotaxanes To Create AB and $AB_2$ Electron Spin Systems: EPR Spectroscopic Studies of Weak Interactions between Dissimilar Electron Spin Qubits. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10858-10861.	7.2	36
24	Tetrametallic lanthanide( $iii$ ) phosphonate cages: synthetic, structural and magnetic studies. <i>Dalton Transactions</i> , 2014, 43, 17101-17107.	1.6	35
25	Wells' Dawson Cages as Molecular Refrigerants. <i>Inorganic Chemistry</i> , 2013, 52, 13702-13707.	1.9	33
26	Inorganic Approach to Stabilizing Nanoscale Toroidicity in a Tetraicosanuclear $Fe_{18}Dy_6$ Single Molecule Magnet. <i>Journal of the American Chemical Society</i> , 2020, 142, 14838-14842.	6.6	32
27	Radical-lanthanide ferromagnetic interaction in a $Tb_2(Cu_2)_{10}$ complex. <i>Physical Review Materials</i> , 2018, 2, .	0.9	29
28	Direct Conversion of $CO_2$ to Multi-layer Graphene using Cu-Pd Alloys. <i>ChemSusChem</i> , 2019, 12, 3509-3514.	3.6	28
29	Observation of Cooperative Electronic Quantum Tunneling: Increasing Accessible Nuclear States in a Molecular Qudit. <i>Inorganic Chemistry</i> , 2018, 57, 9873-9879.	1.9	27
30	Bi-stable spin-crossover characteristics of a highly distorted $[Fe(1-BPP-COOC)_2(H)_5]_2(ClO_4)_2 \cdot CH_3CN$ complex. <i>Dalton Transactions</i> , 2019, 48, 3825-3830.	1.6	27
31	Measuring Spin-Spin Interactions between Heterospins in a Hybrid [2]Rotaxane. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3876-3879.	7.2	26
32	Stereochemistry of coordination polyhedra vs. single ion magnetism in penta- and hexacoordinated $Co(ii)$ complexes with tridentate rigid ligands. <i>Dalton Transactions</i> , 2020, 49, 1249-1264.	1.6	22
33	Single-molecule magnet behavior in 2,2'-bipyrimidine-bridged dilanthanide complexes. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 126-137.	1.5	21
34	Selective Coordination of Self-Assembled Hexanuclear $[Ni_4Ln_2]$ and $[Ni_2Mn_2Ln_2]$ ( $Ln = Dy^{III}$ , $Tb^{III}$ , and $Tj$ ) ETQq0 0 0 rBT / Overlock 10 Tf	1.9	21
35	Copper Lanthanide Phosphonate Cages: Highly Symmetric $\{Cu_3Ln_9P_6\}$ and $\{Cu_6Ln_6P_6\}$ Clusters with $C_3v$ and $D_3h$ Symmetry. <i>Inorganic Chemistry</i> , 2015, 54, 6331-6337.	1.9	20
36	Luminescence thermometry and field induced slow magnetic relaxation based on a near infrared emissive heterometallic complex. <i>Dalton Transactions</i> , 2022, 51, 8208-8216.	1.6	20

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37	Copper Keplerates: High Symmetry Magnetic Molecules. <i>ChemPhysChem</i> , 2016, 17, 55-60.	1.0	19
38	A hybrid organic-inorganic molecular daisy chain. <i>Chemical Communications</i> , 2015, 51, 11126-11129.	2.2	18
39	Investigation of nanocrystalline zinc chromite obtained by two soft chemical routes. <i>Materials Research Bulletin</i> , 2014, 49, 151-159.	2.7	17
40	Linking Cr <sub>3</sub> triangles through phosphonates and lanthanides: synthetic, structural, magnetic and EPR studies. <i>Dalton Transactions</i> , 2014, 43, 13242-13249.	1.6	16
41	Single molecule magnet behaviour in a {Dy <sub>4</sub> P <sub>2</sub> } octahedron. <i>Dalton Transactions</i> , 2015, 44, 12522-12525.	1.6	16
42	Increasing the Hilbert space dimension using a single coupled molecular spin. <i>Nature Communications</i> , 2021, 12, 4443.	5.8	16
43	Nuclear Spin Isomers: Engineering a Et <sub>4</sub> N[DyPc <sub>2</sub> ] Spin Qudit. <i>Angewandte Chemie</i> , 2017, 129, 10047-10051.	1.6	15
44	High-Performance Luminescence Thermometer with Field-Induced Slow Magnetic Relaxation Based on a Heterometallic Cyanido-Bridged 3d-4f Complex. <i>Inorganic Chemistry</i> , 2022, 61, 2546-2557.	1.9	15
45	Enantiopure Benzamidinate/Cyclooctatetraene Complexes of the Rare-Earth Elements: Synthesis, Structure, and Magnetism. <i>Organometallics</i> , 2018, 37, 3708-3717.	1.1	14
46	Transmetalation of Chromocene by Lithium-Amide, -Phosphide, and -Arsenide Nucleophiles. <i>Inorganic Chemistry</i> , 2013, 52, 3878-3883.	1.9	12
47	Spacer type mediated tunable spin crossover (SCO) characteristics of pyrene decorated 2,6-bis(pyrazol-1-yl)pyridine (bpp) based Fe <sup>II</sup> molecular spintronic modules. <i>Dalton Transactions</i> , 2017, 46, 9765-9768.	1.6	12
48	Self-assembled octanuclear [Ni <sub>5</sub> Ln <sub>3</sub> ] (Ln = Dy, Tb and Ho) complexes: synthesis, coordination induced ligand hydrolysis, structure and magnetism. <i>Dalton Transactions</i> , 2020, 49, 7968-7976.	1.6	12
49	Homoleptic Chiral Benzamidinate Complexes of Rare Earth Elements: Synthesis, Structure, Luminescence, and Magnetism. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 5512-5518.	1.0	11
50	Supramolecular Interaction Tuning of Spin-Crossover in Pyrene/Fullerene (C <sub>60</sub> ) Tethered Fe <sup>II</sup> -2,6-Di(pyrazol-1-yl)pyridine Complexes: Towards Switchable Molecular Devices. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 5091-5097.	1.0	11
51	Amorphous nickel nanophases inducing ferromagnetism in equiatomic Ni Ti alloy. <i>Acta Materialia</i> , 2018, 161, 47-53.	3.8	11
52	Addition of pnictogen atoms to chromium <sup>II</sup> : synthesis, structure and magnetic properties of a chromium <sup>IV</sup> phosphide and a chromium <sup>III</sup> arsenide. <i>Chemical Science</i> , 2014, 5, 2443-2448.	3.7	10
53	Measuring Spin-Spin Interactions between Heterospins in a Hybrid [2]Rotaxane. <i>Angewandte Chemie</i> , 2017, 129, 3934-3937.	1.6	7
54	Synthesis and Characterization of a Heterometallic Extended Architecture Based on a Manganese(II)-Substituted Sandwich-Type Polyoxotungstate. <i>Materials</i> , 2018, 11, 155.	1.3	7

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55	Synthesis of five isostructural tetranuclear Fe <sub>2</sub> Ln <sub>2</sub> (Ln = Gd, Tb, Dy, Ho, Er) complexes with an inverse butterfly-core. <i>Polyhedron</i> , 2019, 158, 255-261.	1.0	7
56	Exchange-Bias Quantum Tunneling of the Magnetization in a Dysprosium Dimer. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8230-8237.	1.1	7
57	Magnetic properties of transition metal dimers probed by inelastic neutron scattering. <i>Dalton Transactions</i> , 2018, 47, 11953-11959.	1.6	6
58	Synthesis, characterization, magnetism and theoretical analysis of hetero-metallic [Ni <sub>2</sub> Ln <sub>2</sub> ] partial di-cubane assemblies. <i>Dalton Transactions</i> , 2021, 50, 12517-12527.	1.6	6
59	Size-Controlled Hapticity Switching in [Ln(C <sub>9</sub> H <sub>9</sub> )(C <sub>8</sub> H <sub>8</sub> )] Sandwiches. <i>Chemistry - A European Journal</i> , 2021, 27, 13558-13567.	1.7	6
60	Indirect Spin-Readout of Rare-Earth-Based Single-Molecule Magnet with Scanning Tunneling Microscopy. <i>Physical Review Letters</i> , 2021, 127, 123201.	2.9	6
61	Coordination ability of amino acid hydrazide ligands and their influence on magnetic properties in copper(ii) coordination polymers. <i>CrystEngComm</i> , 2018, 20, 2396-2403.	1.3	5
62	Molecular Nanomagnets Based on f-Elements. , 2018, , 1-50.		2
63	The Effect of Modifying the Macrocyclic Ring Size on Zn <sub>3</sub> Ln (<i>Ln</i> = Dy, Er, and) Tj ETQq1 1 0.784314 rgBT / 0.6 775-779.	0.6	2
64	Heteroleptic, polynuclear dysprosium(III)-carbamato complexes through <i>in situ</i> carbon dioxide capture. <i>Dalton Transactions</i> , 2021, 50, 4735-4742.	1.6	2
65	Room-temperature spin nutations in a magnetically condensed phase of [Y(pc) <sub>2</sub> ] <sup>+</sup> . <i>Chemical Communications</i> , 2021, 57, 11505-11508.	2.2	1