

# Nã°ria Aliaga-Alcalde

## List of Publications by Year in descending order

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82  
papers

4,544  
citations

159585

30  
h-index

98798

67  
g-index

84  
all docs

84  
docs citations

84  
times ranked

4597  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exchange-biased quantum tunnelling in a supramolecular dimer of single-molecule magnets. <i>Nature</i> , 2002, 416, 406-409.	27.8	934
2	Quantum Coherence in an Exchange-Coupled Dimer of Single-Molecule Magnets. <i>Science</i> , 2003, 302, 1015-1018.	12.6	529
3	Mononuclear Single-Molecule Magnets: Tailoring the Magnetic Anisotropy of First-Row Transition-Metal Complexes. <i>Journal of the American Chemical Society</i> , 2013, 135, 7010-7018.	13.7	397
4	Room-Temperature Gating of Molecular Junctions Using Few-Layer Graphene Nanogap Electrodes. <i>Nano Letters</i> , 2011, 11, 4607-4611.	9.1	310
5	The Geometric and Electronic Structure of [(cyclam-acetato)Fe(N)] <sup>+</sup> : A Genuine Iron(V) Species with a Ground-State Spin S=1/2. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2908-2912.	13.8	144
6	Electrochemical and theoretical quantum approaches on the inhibition of C1018 carbon steel corrosion in acidic medium containing chloride using some newly synthesized phenolic Schiff bases compounds. <i>Journal of Electroanalytical Chemistry</i> , 2015, 743, 120-133.	3.8	105
7	Control of molecular architecture by steric factors: mononuclear vs polynuclear manganese(III) compounds with tetradentate N <sub>2</sub> O <sub>2</sub> donor Schiff bases. <i>Dalton Transactions</i> , 2011, 40, 7916.	3.3	92
8	Single-Molecule Magnets: Preparation and Properties of Low Symmetry [Mn <sub>4</sub> O <sub>3</sub> (O <sub>2</sub> CPh-R) <sub>4</sub> (dbm) <sub>3</sub> ] Complexes with S = 9/2. <i>Journal of the American Chemical Society</i> , 2004, 126, 12503-12516.	13.7	89
9	Lanthanide Contraction within a Series of Asymmetric Dinuclear [Ln <sub>2</sub> ] Complexes. <i>Chemistry - A European Journal</i> , 2013, 19, 5881-5891.	3.3	84
10	Spin Quantum Tunneling via Entangled States in a Dimer of Exchange-Coupled Single-Molecule Magnets. <i>Physical Review Letters</i> , 2003, 91, 227203.	7.8	83
11	Synthesis, Magnetic Properties, and Structural Investigation of Mixed-Ligand Cu(II) Helical Coordination Polymers with an Amino Acid Backbone and N-Donor Propping: 1-D Helical, 2-D Hexagonal Net (<math>\langle b \rangle_{hcb}</math>), and 3-D <math>\langle b \rangle_{ins}</math> Topologies. <i>Crystal Growth and Design</i> , 2011, 11, 1631-1641.	3.0	79
12	Synthesis, crystal structure, spectral and magnetic studies and catecholase activity of copper(II) complexes with di- and tri-podal ligands. <i>Inorganica Chimica Acta</i> , 2010, 363, 97-106.	2.4	76
13	Quantum tunneling in a three-dimensional network of exchange-coupled single-molecule magnets. <i>Physical Review B</i> , 2003, 68, .	3.2	71
14	Characterization of a Genuine Iron(V) Nitrido Species by Nuclear Resonant Vibrational Spectroscopy Coupled to Density Functional Calculations. <i>Journal of the American Chemical Society</i> , 2007, 129, 11053-11060.	13.7	70
15	Structures, Magnetochemistry, Spectroscopy, Theoretical Study, and Catechol Oxidase Activity of Dinuclear and Dimer-of-Dinuclear Mixed-Valence Mn <sup>III</sup> Mn <sup>II</sup> Complexes Derived from a Macrocyclic Ligand. <i>Inorganic Chemistry</i> , 2013, 52, 7732-7746.	4.0	66
16	Dy <sup>III</sup> and Yb <sup>III</sup> Curcuminoid Compounds: Original Fluorescent Single-Ion Magnet and Magnetic Near-IR Luminescent Species. <i>Chemistry - A European Journal</i> , 2012, 18, 11545-11549.	3.3	64
17	Mechanistic insight on the catecholase activity of dinuclear copper complexes with distant metal centers. <i>Dalton Transactions</i> , 2012, 41, 4985.	3.3	63
18	Density-functional theory calculation of the intermolecular exchange interaction in the magnetic Mn <sub>4</sub> dimer. <i>Physical Review B</i> , 2003, 68, .	3.2	60

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19	Copper Curcuminoids Containing Anthracene Groups: Fluorescent Molecules with Cytotoxic Activity. <i>Inorganic Chemistry</i> , 2010, 49, 9655-9663.	4.0	60
20	Magneto-Structural Correlation Studies and Theoretical Calculations of a Unique Family of Single End-to-End Azide-Bridged Ni <sup>II</sup> <sub>4</sub> Cyclic Clusters. <i>Inorganic Chemistry</i> , 2010, 49, 9517-9526.	4.0	52
21	Multiscale study of mononuclear Co <sup>II</sup> SMMs based on curcuminoid ligands. <i>Chemical Science</i> , 2016, 7, 2793-2803.	7.4	52
22	Syntheses, Structures, and Magnetic Properties of Three One-Dimensional End-to-End Azide/Cyanate-Bridged Copper(II) Compounds Exhibiting Ferromagnetic Interaction: New Type of Solid State Isomerism. <i>Inorganic Chemistry</i> , 2011, 50, 5687-5695.	4.0	51
23	Sequential Electron Transport and Vibrational Excitations in an Organic Molecule Coupled to Few-Layer Graphene Electrodes. <i>ACS Nano</i> , 2016, 10, 2521-2527.	14.6	47
24	Huge Magnetic Anisotropy in a Trigonal-Pyramidal Nickel(II) Complex. <i>Inorganic Chemistry</i> , 2014, 53, 676-678.	4.0	45
25	Novel sandwich triple-decker dinuclear Nd <sup>III</sup> -(bis-N,N'-p-bromo-salicylideneamine-1,2-diaminobenzene) complex. <i>Polyhedron</i> , 2013, 64, 203-208.	2.2	42
26	Methylene spacer regulated variation in structures and magnetic properties in copper(II) compounds with O, N, O donor Schiff bases. <i>Polyhedron</i> , 2013, 49, 269-276.	2.2	38
27	Crystalline Curcumin bioMOF Obtained by Precipitation in Supercritical CO <sub>2</sub> and Structural Determination by Electron Diffraction Tomography. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12309-12319.	6.7	36
28	Fragmentation of the (Cyclam-acetato)iron Azide Cation in the Gas Phase. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 816-821.	2.0	33
29	Neodymium 1D systems: targeting new sources for field-induced slow magnetization relaxation. <i>Dalton Transactions</i> , 2015, 44, 15774-15778.	3.3	33
30	A 3D Cu <sup>II</sup> Coordination Framework with $\sqrt{4} \times \sqrt{2}$ -Oxalato Anions and a Bent Dipyridyl Coligand: Unique Zeolite-Type Ni <sup>2+</sup> Topological Network and Magnetic Properties. <i>Inorganic Chemistry</i> , 2011, 50, 6850-6852.	4.0	31
31	Synthesis, molecular and supramolecular structures, electrochemistry and magnetic properties of two macrocyclic dicopper(II) complexes: Microporous supramolecular assembly. <i>Polyhedron</i> , 2009, 28, 3707-3714.	2.2	30
32	Metal-Organic Frameworks Precipitated by Reactive Crystallization in Supercritical CO <sub>2</sub> . <i>Crystal Growth and Design</i> , 2017, 17, 2864-2872.	3.0	30
33	Crystal Structure, Fluorescence, and Nanostructuring Studies of the First Zn <sup>II</sup> Anthracene-Based Curcuminoid. <i>Inorganic Chemistry</i> , 2012, 51, 864-873.	4.0	29
34	Design of Dinuclear Copper Species with Carboranylcarboxylate Ligands: Study of Their Steric and Electronic Effects. <i>Chemistry - A European Journal</i> , 2011, 17, 13217-13229.	3.3	27
35	A Racemic and Enantiopure Unsymmetric Diiron(III) Complex with a Chiral Carborane-Based Pyridylalcohol Ligand: Combined Chiroptical, Magnetic, and Nonlinear Optical Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 1081-1090.	3.3	25
36	A comparative high frequency EPR study of monomeric and dimeric Mn <sup>4+</sup> single-molecule magnets. <i>Polyhedron</i> , 2003, 22, 1911-1916.	2.2	24

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37	Syntheses, crystal structures and magnetic properties of three bis(end-on azide) bridged dicopper(II) complexes derived from half-condensed ligands: Observation of the smallest Cu–azide–Cu bridge angle in dinuclear systems. <i>Polyhedron</i> , 2013, 63, 96-102.	2.2	24
38	A new family of fullerene derivatives: fullerene-curcumin conjugates for biological and photovoltaic applications. <i>RSC Advances</i> , 2018, 8, 41692-41698.	3.6	23
39	First Structural and Magnetic Studies of Ni Clusters Containing 2,6-Diacetylpyridine-dioxime as a Ligand. <i>Inorganic Chemistry</i> , 2010, 49, 2259-2266.	4.0	22
40	Synthesis, X-ray structural and magnetic characterizations, and epoxidation activity of a new bis( $\frac{1}{4}$ -acetato)( $\frac{1}{4}$ -alkoxo)dinuclear iron(III) complex. <i>Polyhedron</i> , 2013, 53, 264-268.	2.2	22
41	Coumarin Derivative Directly Coordinated to Lanthanides Acts as an Excellent Antenna for UV–Vis and Near-IR Emission. <i>Inorganic Chemistry</i> , 2018, 57, 908-911.	4.0	22
42	Fabrication of hybrid molecular devices using multi-layer graphene break junctions. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 474205.	1.8	20
43	Oximato bridged copper(II) dimers: Synthesis, crystal structure, magnetic, thermal and electrochemical properties. <i>Polyhedron</i> , 2011, 30, 2310-2319.	2.2	19
44	Hetero-bimetallic paddlewheel clusters in coordination polymers formed by a water-induced single-crystal-to-single-crystal transformation. <i>Chemical Communications</i> , 2016, 52, 13397-13400.	4.1	19
45	Tuning Single-Molecule Conductance in Metalloporphyrin-Based Wires via Supramolecular Interactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19193-19201.	13.8	19
46	Multiscale Approach to the Study of the Electronic Properties of Two Thiophene Curcuminoid Molecules. <i>Chemistry - A European Journal</i> , 2016, 22, 12808-12818.	3.3	18
47	Syntheses, crystal structures and properties of a new family of isostructural and isomorphous compounds of type $[M(L)(NCS)_3]$ [ $M=La, Gd, Tb$ and $Dy$ ; $L$ =a neutral hexadentate Schiff base]. <i>Polyhedron</i> , 2010, 29, 2716-2721.	2.2	17
48	Metallo-supramolecular Chemistry of Novel Chiral closo-o-Carboranylalcohol Pyridine and Quinoline Ligands: Syntheses, Characterization, and Properties of Cobalt Complexes. <i>Crystal Growth and Design</i> , 2012, 12, 5720-5736.	3.0	17
49	Water-Soluble Manganese Inorganic Polymers: The Role of Carborane Clusters and Producing Large Structural Adjustments from Minor Molecular Changes. <i>Chemistry - A European Journal</i> , 2014, 20, 13993-14003.	3.3	17
50	Slow-spin relaxation of a low-spin $S = 1/2$ Fe(III) carborane complex. <i>Chemical Communications</i> , 2019, 55, 3825-3828.	4.1	17
51	Electric-field induced bistability in single-molecule conductance measurements for boron coordinated curcuminoid compounds. <i>Chemical Science</i> , 2018, 9, 6988-6996.	7.4	16
52	First report on N,N'-diisoalkylisonicotinamide 1D coordination network containing linear trinuclear $[Co_3L_4Cl_6]$ units with mixed $Coll(Td)$ – $Coll(Oh)$ – $Coll(Td)$ geometries: structure and magnetic properties. <i>Dalton Transactions</i> , 2010, 39, 7951.	3.3	15
53	Syntheses, X-ray crystal structure and magnetic studies of a new dinuclear Cu(I) complex, $[Cu_2(\frac{1}{4}-Cl)_2L_2Cl_2] \cdot 2CH_3CN$ , $L$ : N,N,N',N'-tetraisopropylpyridine-2,6-dicarboxamide. <i>Journal of Molecular Structure</i> , 2010, 981, 40-45.	3.6	14
54	Quantum dynamics of exchange biased single-molecule magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1037-1041.	2.3	13

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55	Novel paramagnetic-luminescent building blocks containing manganese(II) and anthracene-based curcuminoids. <i>Polyhedron</i> , 2013, 52, 398-405.	2.2	13
56	Magneto-structural studies of two new cobalt(II)-N,N-diisobutylisonicotinamide compounds: [Co(LCl <sub>2</sub> ) <sub>n</sub> ] and [Co(L) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> ][CoLBr <sub>3</sub> ] <sub>2</sub> ·2H <sub>2</sub> O. <i>Dalton Transactions</i> , 2011, 40, 12560.	3.3	12
57	A water soluble Mn(II) polymer with aqua metal bridges. <i>Dalton Transactions</i> , 2013, 42, 7838.	3.3	12
58	Discrete systems and two-dimensional coordination polymers containing potentially multidentate and bridging inorganic anions: Observation of a new type of two-dimensional topology. <i>Polyhedron</i> , 2014, 74, 57-66.	2.2	12
59	Solvatochromic studies of a novel Cd <sup>2+</sup> -anthracene-based curcuminoid and related complexes. <i>Inorganica Chimica Acta</i> , 2012, 380, 187-193.	2.4	11
60	Ligand template synthesis of an undecametallic iron(III) complex: X-ray structure, magnetism and catecholase activity. <i>Inorganica Chimica Acta</i> , 2015, 425, 61-66.	2.4	10
61	Entanglement of Exchange-Coupled Dimers of Single-Molecule Magnets. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	9
62	Imidazole-imidazole stacking in some inorganic complexes. <i>Inorganica Chimica Acta</i> , 2009, 362, 2879-2883.	2.4	9
63	Crystal structure and magnetic properties of a hexacopper(II)-based azide-bridged one-dimensional coordination polymer: A new pattern of azide-bridged network. <i>Polyhedron</i> , 2014, 73, 67-71.	2.2	9
64	Room-Temperature Spin-Dependent Transport in Metalloporphyrin-Based Supramolecular Wires. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25958-25965.	13.8	9
65	Spin-Phonon Coupling and Slow-Magnetic Relaxation in Pristine Ferrocenium. <i>Chemistry - A European Journal</i> , 2021, 27, 16440-16447.	3.3	8
66	Single molecule magnets of cobalt and zinc homo- and heterometallic coordination polymers prepared by a one-step synthetic procedure. <i>RSC Advances</i> , 2020, 10, 45090-45104.	3.6	8
67	Synthesis, structures and properties of iron(III) complexes with (o-carboranyl)bis-(2-hydroxymethyl)pyridine: Racemic versus meso. <i>Inorganica Chimica Acta</i> , 2016, 448, 97-103.	2.4	7
68	Carving a 1D Co <sup>II</sup> -carboranylcarboxylate system by using organic solvents to create stable trinuclear molecular analogues: complete structural and magnetic studies. <i>Dalton Transactions</i> , 2016, 45, 10916-10927.	3.3	7
69	Boosting Self-Assembly Diversity in the Solid-State by Chiral/Non-Chiral Zn <sup>II</sup> -Porphyrin Crystallization. <i>Chemistry - A European Journal</i> , 2018, 24, 12950-12960.	3.3	7
70	Chemical, structural and biological studies of cis-[Pt(3-AcPy) <sub>2</sub> Cl <sub>2</sub> ]. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1221-1227.	3.5	6
71	pH-Dependent Imidazolato Bridge Formation in Dicopper Complexes: Magnetic, Electrochemical, and Catalytic Repercussions. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 4739-4749.	2.0	6
72	First report on a dinuclear Cu(II) complex based on pyridine dicarboxamido ligand having benzimidazole moieties in the amide side arms: Synthesis, structure and magnetic properties of [Cu(GBPA)] <sub>2</sub> ·4H <sub>2</sub> O, GBPA=N,N'-bis(2-methylbenzimidazolyl)-pyridine-1,3-dicarboxamide. <i>Polyhedron</i> , 2012, 36, 85-91.	2.2	6

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73	Stabilisation of true $\pi$ -electron $\pi$ -electron interactions in an inorganic cocrystal. <i>Inorganica Chimica Acta</i> , 2015, 427, 97-102.	2.4	6
74	Single-Molecule Transport of Fullerene-Based Curcuminoids. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2698-2704.	3.1	6
75	Formation of self-assembled monolayer of curcuminoid molecules on gold surfaces. <i>Applied Surface Science</i> , 2017, 392, 834-840.	6.1	5
76	Tuning Single-Molecule Conductance in Metalloporphyrin-Based Wires via Supramolecular Interactions. <i>Angewandte Chemie</i> , 2020, 132, 19355-19363.	2.0	5
77	Novel Zn(II) Coordination Polymers Based on the Natural Molecule Bisdemethoxycurcumin. <i>Crystal Growth and Design</i> , 2020, 20, 6555-6564.	3.0	5
78	Determination of Curcuminoids by Liquid Chromatography with Diode Array Detection: Application to the Characterization of Turmeric and Curry Samples. <i>Current Analytical Chemistry</i> , 2020, 16, 95-105.	1.2	5
79	Room-Temperature Spin-Dependent Transport in Metalloporphyrin-Based Supramolecular Wires. <i>Angewandte Chemie</i> , 2021, 133, 26162-26169.	2.0	5
80	Physical characterization and biological studies of a (streptidine)(PtII(Cl)4) compound. <i>Polyhedron</i> , 2009, 28, 3459-3466.	2.2	4
81	Comparative Magnetic Studies in the Solid State and Solution of Two Isostructural 1D Coordination Polymers Containing Coll/Nill-Curcuminoid Moieties. <i>Magnetochemistry</i> , 2016, 2, 29.	2.4	3
82	Broadening the scope of high structural dimensionality nanomaterials using pyridine-based curcuminoids. <i>Dalton Transactions</i> , 2021, 50, 7056-7064.	3.3	2