

Miguel A Novak

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4896787/publications.pdf>

Version: 2024-02-01

102
papers

8,661
citations

145106

33
h-index

48101

92
g-index

105
all docs

105
docs citations

105
times ranked

6970
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, Magnetic and High-Field EPR Investigation of Two Tetranuclear Ni ^{II} -Based Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 14420-14428.	1.9	5
2	Molecular spintronics. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	26
3	Lanthanide chains containing the naphthalenyl nitronyl nitroxide radical. <i>RSC Advances</i> , 2019, 9, 30302-30308.	1.7	6
4	Magnetic Cationic Copper(II) Chains and a Mononuclear Cobalt(II) Complex Containing [Ln(hfac) ₄] ⁺ Blocks as Counterions. <i>Inorganic Chemistry</i> , 2019, 58, 1976-1987.	1.9	18
5	Core-Shell Fe-Pt Nanoparticles in Ionic Liquids: Magnetic and Catalytic Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4641-4650.	1.5	27
6	Synthesis, Crystal Structures, and EPR Studies of First Mn ^{III} -Ln ^{III} Hetero-binuclear Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 326-334.	1.9	20
7	The interplay between single particle anisotropy and interparticle interactions in ensembles of magnetic nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28634-28643.	1.3	54
8	Synthesis, crystal structure, magnetic properties and DFT calculations of a mononuclear copper(II) complex: Relevance of halogen bonding for magnetic interaction. <i>Inorganica Chimica Acta</i> , 2018, 482, 395-401.	1.2	8
9	Water-Based Metallic Nickel Magnetic Fluids. <i>Journal of Nanofluids</i> , 2018, 7, 21-25.	1.4	1
10	One-dimensional coordination polymers constructed from binuclear 3d-4f nodes and isonicotinato spacer. <i>CrystEngComm</i> , 2016, 18, 4779-4786.	1.3	14
11	Binuclear Lanthanide-Radical Complexes Featuring Two Centers with Different Magnetic and Luminescence Properties. <i>Inorganic Chemistry</i> , 2016, 55, 11676-11684.	1.9	30
12	Synthesis, Crystal Structure and Magnetic Properties of Heteropolynuclear Re ^{IV} -M ^{II} Complexes Based on the Robust [ReCl ₅ (pyzCOO)] ₂ Unit (pyzCOO = 2-pyrazinecarboxylate). <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1835-1845.	1.0	6
13	A stochastic model for magnetic dynamics in single-molecule magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 403, 188-192.	1.0	1
14	Synthesis, Crystal Structure and Magnetic Properties of a Novel Heterobimetallic Rhenium(IV)-Dysprosium(III) Chain. <i>Chemistry - A European Journal</i> , 2015, 21, 8696-8700.	1.7	5
15	Exchange bias effect in polycrystalline NiO/NiMn ₂ O ₄ composite. <i>Journal of Alloys and Compounds</i> , 2015, 630, 74-77.	2.8	12
16	A Single-Chain Magnet with a Very High Blocking Temperature and a Strong Coercive Field. <i>Inorganic Chemistry</i> , 2015, 54, 9381-9383.	1.9	65
17	A two-dimensional Cu ^{II} -Mn ^{II} heterometallic coordination polymer: structure determination using synchrotron X-ray powder diffraction and magnetic properties. <i>CrystEngComm</i> , 2015, 17, 7423-7429.	1.3	5
18	Specific heat and magnetization studies of spin-glass like transition in nanogranular Cu ₉₀ Co ₁₀ ribbon. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 370, 116-121.	1.0	4

#	ARTICLE	IF	CITATIONS
19	A Cobalt Pyrenylnitronyl Nitroxide Single-Chain Magnet with High Coercivity and Record Blocking Temperature. <i>Chemistry - A European Journal</i> , 2014, 20, 5460-5467.	1.7	98
20	Synthesis, crystal structures and magnetic behaviour of four coordination compounds constructed with a phosphinic amide-TEMPO radical and [M(hfac) ₂] (M = Cu ^{II}), DOI: 10.1039/C4DT00000G / DOI: 10.1039/C4DT00000G	1.7	697
21	New Families of Hetero-tri-spin 2p ³ d ⁴ f Complexes: Synthesis, Crystal Structures, and Magnetic Properties. <i>Inorganic Chemistry</i> , 2014, 53, 7508-7517.	1.9	79
22	Anisotropic magnetic carbon materials based on graphite and magnetite nanoparticles. <i>Carbon</i> , 2014, 77, 600-606.	5.4	6
23	Heptanuclear cobalt(II) dicubane compounds with single-molecule magnet behavior. <i>Inorganic Chemistry Communication</i> , 2013, 37, 101-105.	1.8	15
24	Effect of the counter-anion on the structural and magnetic properties of a copper(II) complex with 2-[(bis(2-pyridylmethyl)amino)methyl]-4-methyl-6-(methylthio)phenol. <i>Polyhedron</i> , 2013, 51, 180-185.	1.0	1
25	Controlled synthesis of Mn ₃ O ₄ nanoparticles in ionic liquids. <i>Dalton Transactions</i> , 2013, 42, 14473.	1.6	44
26	Macroscopic quantum tunneling of magnetization explored by quantum-first-order reversal curves. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	5
27	Two co-crystalline M(hfac) ₂ (PhIN) ₂ ·M(hfac) ₂ (M = Mn, Co) compounds with a bis(iminoylnitroxide) biradical: structure and magnetism. <i>New Journal of Chemistry</i> , 2013, 37, 1927.	1.4	7
28	New Synthetic Route toward Heterometallic 3d ⁶ and 3d ⁴ Single-Molecule Magnets. The First Collinear Mn ^{III} Heterometallic Complex. <i>Inorganic Chemistry</i> , 2013, 52, 8309-8311.	1.9	33
29	Radicals organized by disk shaped aromatics - polymorphism and co-crystals that tune inter-electron exchange. <i>CrystEngComm</i> , 2012, 14, 1515-1526.	1.3	20
30	Tuning of Magnetic Dipolar Interactions of Maghemite Nanoparticles Embedded in Polyelectrolyte Layer-by-Layer Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6672-6678.	0.9	14
31	Two Cobalt(II) Cubane Compounds: The Key Role of Small Ligand Changes on the Crystal Packing and Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5642-5648.	1.0	25
32	Magnetic Mn and Co Complexes with a Large Polycyclic Aromatic Substituted Nitronyl Nitroxide. <i>Inorganic Chemistry</i> , 2012, 51, 3138-3145.	1.9	38
33	Magnetic properties of nanoscale crystalline maghemite obtained by a new synthetic route. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3029-3033.	1.0	38
34	Design of 1D and 2D molecule-based magnets with the ligand 4,5-dimethyl-1,2-phenylenebis(oxamato). <i>Dalton Transactions</i> , 2011, 40, 746-754.	1.6	18
35	cis-[Ni(1/4-ox)(H ₂ O) ₂] _n : Metal organic coordination polymer assembled by oxalate ligand: Structural and magnetic characterization. <i>Polyhedron</i> , 2011, 30, 3171-3176.	1.0	9
36	Synthesis, crystal structure, magnetism and specific heat of a new copper(II) compound with p-aminobenzoic acid. <i>Inorganica Chimica Acta</i> , 2011, 378, 134-139.	1.2	14

#	ARTICLE	IF	CITATIONS
37	Dynamic study of the internal magnetic order of Mn ₃ O ₄ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5653-5659.	0.8	8
38	Synthesis, crystal structure, magnetism and electrochemical properties of two copper(II) furoyltrifluoroacetate complexes with nitroxide radical. <i>Inorganica Chimica Acta</i> , 2011, 370, 469-473.	1.2	15
39	Magnetic coupled electrochemistry: Exploring the use of superparamagnetic nanoparticles for capturing, transporting and concentrating trace amounts of analytes. <i>Electrochemistry Communications</i> , 2011, 13, 72-74.	2.3	15
40	Synthesis, crystal structures, electrochemical and magnetic properties of polynuclear {Fe ₄ } and {Fe ₈ Na ₄ } carboxylate/picolinate clusters. <i>Inorganica Chimica Acta</i> , 2011, 370, 427-434.	1.2	6
41	Catalytic properties of thioredoxin immobilized on superparamagnetic nanoparticles. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 738-744.	1.5	13
42	Structure and morphology of spinel MFe ₂ O ₄ (M=Fe, Co, Ni) nanoparticles chemically synthesized from heterometallic complexes. <i>Journal of Colloid and Interface Science</i> , 2011, 358, 39-46.	5.0	40
43	Magnetic Nanocomposites Fabricated via the Layer-by-Layer Approach. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2679-2685.	0.9	20
44	Dinuclear copper(II) complexes of a novel 3-(aminomethyl)naphthoquinone Mannich base: Synthesis, structural, magnetic and electrochemical studies. <i>Polyhedron</i> , 2010, 29, 2884-2891.	1.0	23
45	A new family of oxime-based hexanuclear manganese(III) single molecule magnets with high anisotropy energy barriers. <i>Chemical Communications</i> , 2010, 46, 5106.	2.2	54
46	Compostos magnéticos moleculares: o desenvolvimento de novos materiais magnéticos nanoestruturados. <i>Química Nova</i> , 2010, 33, 1756-1764.	0.3	1
47	Fabrication and characterization of nanostructured conducting polymer films containing magnetic nanoparticles. <i>Thin Solid Films</i> , 2009, 517, 1753-1758.	0.8	29
48	Crystal Structure and Magnetic Properties of a New Chiral Manganese(II) Three-Dimensional Framework: Na ₃ [Mn ₃ (HCOO) ₉]. <i>Inorganic Chemistry</i> , 2009, 48, 4737-4742.	1.9	31
49	Layer-by-Layer Assembly of Bifunctional Nanofilms: Surface-Functionalized Maghemite Hosted in Polyaniline. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5087-5095.	1.5	33
50	[Cu(H ₂ btec)(bipy)] ⁺ : a novel metal organic framework (MOF) as heterogeneous catalyst for the oxidation of olefins. <i>Dalton Transactions</i> , 2009, , 1422.	1.6	118
51	New copper(II)-radical one dimensional chain: Synthesis, crystal structure, EPR, magnetic properties and DFT calculations. <i>Dalton Transactions</i> , 2009, , 6816.	1.6	25
52	Mononuclear and Polynuclear Copper(II) Complexes Derived from Pyridylalkylaminomethylphenol Polyodal Ligands. <i>Inorganic Chemistry</i> , 2009, 48, 8845-8855.	1.9	15
53	Magnetic Studies of CoFe ₂ O ₄ /SiO ₂ /Aerogel and Xerogel Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5932-5939.	0.9	4
54	Cobalt Nanocubes in Ionic Liquids: Synthesis and Properties. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9075-9078.	7.2	106

#	ARTICLE	IF	CITATIONS
55	Investigation of the static and dynamic magnetic properties of CoFe ₂ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e327-e330.	1.0	62
56	Low temperature specific heat of the single molecule magnet Fe ₈ . <i>Inorganica Chimica Acta</i> , 2008, 361, 3975-3979.	1.2	2
57	Synthesis, structure, electronic and magnetic properties of two new complexes obtained by coordination of Co(II) and Mn(II) phenyltrifluoroacetylacetonate with a nitronyl nitroxide radical. <i>Inorganica Chimica Acta</i> , 2008, 361, 4024-4030.	1.2	20
58	Aging Investigation of Cobalt Ferrite Nanoparticles in Low pH Magnetic Fluid. <i>Langmuir</i> , 2007, 23, 9611-9617.	1.6	91
59	Ligand Design for Heterobimetallic Single-Chain Magnets: Synthesis, Crystal Structures, and Magnetic Properties of MIIICuII (M=Mn, Co) Chains with Sterically Hindered Methyl-Substituted Phenylloxamate Bridging Ligands. <i>Chemistry - A European Journal</i> , 2007, 13, 2054-2066.	1.7	105
60	Synthesis of nanoparticles of Co _x Fe(3-x)O ₄ by combustion reaction method. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 308, 198-202.	1.0	94
61	Synthesis, structural and magnetic characterization of a new copper(II)-nitronyl nitroxide radical complex. <i>Journal of the Brazilian Chemical Society</i> , 2007, 18, 916-923.	0.6	4
62	Synthesis, molecular structure and spectroscopic, electrochemical and magnetic properties of a new dinuclear iron complex containing μ-sulfate-di-μ-alkoxo bridges: evaluating the influence of the sulfate bridge on the physicochemical properties of the di-μ-alkoxo-diiron unit. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 1584-1593.	0.6	11
63	Magnetic nanocomposite thin films prepared by sol-gel process. <i>Brazilian Journal of Physics</i> , 2006, 36, 1078-1080.	0.7	5
64	Solid state and solution characterization of a new dinuclear nickel (II) complex: The search for synthetic models for urease. <i>Journal of Molecular Structure</i> , 2006, 797, 154-164.	1.8	19
65	Dynamic behavior of superparamagnetic iso-oriented magnesioferrite nanoparticles. <i>Physica B: Condensed Matter</i> , 2006, 384, 300-302.	1.3	8
66	New unsymmetric dinuclear CuIICuII complexes and their relevance to copper(II) containing metalloenzymes and DNA cleavage. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 992-1004.	1.5	50
67	Magnetic investigation of zero-field-cooled dextran-coated magnetite-based magnetic fluid. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 289, 174-176.	1.0	2
68	Synthesis and characterisation of		

#	ARTICLE	IF	CITATIONS
73	A CullColl Metallacyclophane-Based Metamagnet with a Corrugated Brick-Wall Sheet Architecture. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 956-958.	7.2	90
74	Finite-Size Effects in Single Chain Magnets: An Experimental and Theoretical Study. <i>Physical Review Letters</i> , 2004, 92, 207204.	2.9	131
75	Pressure effects of a genuine organic crystalline ferromagnet dupeyredioxyl. <i>Polyhedron</i> , 2003, 22, 2287-2291.	1.0	11
76	Cluster glass-like behavior in a 2D bimetallic molecule-based magnet. <i>Polyhedron</i> , 2003, 22, 2387-2390.	1.0	17
77	Magnetic properties of an interlocked molecular magnet. <i>Polyhedron</i> , 2003, 22, 2391-2394.	1.0	4
78	Glauber slow dynamics of the magnetization in a molecular Ising chain. <i>Europhysics Letters</i> , 2002, 58, 771-777.	0.7	103
79	Preparation of Magnetite Nanoparticles in Mesoporous Copolymer Template. <i>Nano Letters</i> , 2001, 1, 105-108.	4.5	67
80	Low temperature specific heat and magnetic properties of the pure organic ferromagnet Dupeyredioxyl. <i>Polyhedron</i> , 2001, 20, 1513-1516.	1.0	1
81	Cobalt(II)-Nitronyl Nitroxide Chains as Molecular Magnetic Nanowires. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1760-1763.	7.2	1,074
82	New properties of the [3-MeRad] ₂ [Mn ₂ {Cu(opba)} ₃] system [3-MeRad+=radical cation, opba=ortho-phenylenebis(oxamato)]: a molecule-based magnet with two-dimensional behavior. <i>Inorganica Chimica Acta</i> , 2001, 326, 65-72.	1.2	15
83	Quantum tunneling of magnetization in Mn ₁₂ Bz clusters: Evidences of spin parity effect. <i>Journal of Applied Physics</i> , 2000, 87, 6004-6006.	1.1	6
84	Coercivity extrema in melt-spun CuCo ribbons: Effects of the magnetic moment distribution. <i>Journal of Applied Physics</i> , 1999, 86, 3010-3014.	1.1	13
85	The molecular approach to nanoscale magnetism. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 200, 182-201.	1.0	202
86	Magnetic properties of the quaternary intermetallic compounds RNiBC (R=Ho, Dy, Tb, Gd, Dy ¹⁻³ xGdx). <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 188, 379-386.	1.0	6
87	Unusual properties of the molecular nanomagnet Mn ₁₂ ac. <i>Journal of Applied Physics</i> , 1998, 83, 6943-6945.	1.1	8
88	Specific heat and magnetic relaxation of the quantum nanomagnet Mn ₁₂ Ac. <i>Physical Review B</i> , 1998, 57, 5021-5024.	1.1	94
89	Ferromagnetic order in the sulfur-containing nitronyl nitroxide radical, 2-(4-thiomethyl)phenyl-4,4,5,5-tetramethylimidazoline-l-oxyl-3-oxide, NIT(SMe)Ph. <i>Advanced Materials</i> , 1995, 7, 476-478.	11.1	78
90	Magnetic properties of a Mn cluster organic compound. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 146, 211-213.	1.0	90

#	ARTICLE	IF	CITATIONS
91	AC Susceptibility Relaxation Studies on a Manganese Organic Cluster Compound: Mn ₁₂ Ac. , 1995, , 171-188.		52
92	Mössbauer investigation of ⁵⁷ Fe-doped YBa ₂ Cu ₄ O ₈ and Y _{0.95} Ca _{0.05} Ba ₂ Cu ₄ O ₈ . Influence of high pressure oxygen treatment. Hyperfine Interactions, 1994, 93, 1727-1731.	0.2	0
93	A ferromagnetic transition at 1.48 K in an organic nitroxide. Nature, 1993, 363, 147-149.	13.7	480
94	Magnetic bistability in a metal-ion cluster. Nature, 1993, 365, 141-143.	13.7	3,860
95	Quantum tunneling in magnetic systems of various sizes (invited). Journal of Applied Physics, 1993, 73, 6703-6708.	1.1	88
96	Exchange interactions and magnetic dimension in Cu(L-alanine) ₂ . Physical Review B, 1991, 43, 1074-1083.	1.1	25
97	Characteristics of YBaCuO magnetic shields. IEEE Transactions on Magnetics, 1991, 27, 1874-1876.	1.2	12
98	Very Low Temperature Magnetization of Cu(L-ALA) ₂ . Japanese Journal of Applied Physics, 1987, 26, 861.	0.8	3
99	Spin-glass transition of a dilute Ag-Mn alloy in a magnetic field. Physical Review B, 1986, 33, 343-346.	1.1	4
100	Spin freezing below the nearest-neighbor percolation concentration in Cd _{1-x} Mn _x Te and Cd _{1-x} Mn _x Se. Physical Review B, 1986, 33, 6391-6394.	1.1	36
101	Spin glass behavior of Cd _{1-x} Mn _x Te below the nearest-neighbor percolation limit. Journal of Applied Physics, 1985, 57, 3418-3420.	1.1	48
102	Magnetization of hemoglobin and myoglobin below 1 k. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 99, 62-64.	0.9	1