

Athanassios K Boudalis

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85
papers

2,277
citations

26
h-index

44
g-index

95
ext. papers

2,380
ext. citations

3.8
avg. IF

4.51
L-index

#	Paper	IF	Citations
85	A nonanuclear iron(II) single-molecule magnet. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2266-70	16.4	196
84	Co(II) chemistry of 2,6-bis(2-pyridylcarbonyl)pyridine: an icosanuclear Co cluster exhibiting superparamagnetic relaxation. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 432-5	16.4	110
83	A family of enneanuclear iron(II) single-molecule magnets. <i>Chemistry - A European Journal</i> , 2008 , 14, 2514-26	14.86	102
82	New poly-iron(II) complexes of N4O dinucleating Schiff bases and pseudohalides: syntheses, structures, and magnetic and Mössbauer properties. <i>Inorganic Chemistry</i> , 2004 , 43, 1574-86	5.1	102
81	Novel rectangular [Fe ₄ (μ ₄ -OHO)(μ-OH) ₂](7+) versus "butterfly" [Fe ₄ (μ ₃ -O ₂)](8+) core topology in the Fe(III)/RCO ₂ (-)/phen reaction systems (R = Me, Ph; phen = 1,10-phenanthroline): preparation and properties of [Fe ₄ (OHO)(OH)(2)(O ₂ CMe)(4)(phen)(4)](ClO ₄)(3), [Fe ₄ O ₂ (O ₂ CPh)(7)(phen)(2)](ClO ₄), and [Fe ₄ O ₂ (O ₂ CPh)(8)(phen)(2)]. <i>Inorganic Chemistry</i> , 2002 , 41, 6474-87	5.1	81
80	Ferromagnetic Cu(II) ₄ , Co(II) ₄ , and Ni(II) ₆ azido complexes derived from metal-assisted methanolysis of di-2,6-(2-pyridylcarbonyl)pyridine. <i>Inorganic Chemistry</i> , 2009 , 48, 3167-76	5.1	76
79	Cation-dependent nuclearity of the copper-azido moiety: synthesis, structure, and magnetic study. <i>Inorganic Chemistry</i> , 2005 , 44, 6379-85	5.1	67
78	Reactions of 2,2'-bipyridine (bpy) and 1,10-phenanthroline (phen) with yttrium(III) nitrate: preparation, X-ray crystal structures and spectroscopic characterization of the bis-bpy and bis-phen complexes. <i>Transition Metal Chemistry</i> , 2001 , 26, 276-281	2.1	65
77	Formation of the core in copper(II) carboxylate chemistry via use of di-2-pyridyl ketone oxime [(py) ₂ CNOH]:[Cu ₃ (OH)(O ₂ CR) ₂ {(py) ₂ CNO}] ₃ (R=Me, Ph). <i>Inorganic Chemistry Communication</i> , 2006 , 9, 814-818	3.1	63
76	An octanuclear complex containing the [Fe ₃ O] ⁷⁺ metal core: structural, magnetic, Mössbauer, and electron paramagnetic resonance studies. <i>Inorganic Chemistry</i> , 2006 , 45, 443-53	5.1	57
75	A metamagnetic 2D copper(ii)-azide complex with 1D ferromagnetism and a hysteretic spin-flop transition. <i>Dalton Transactions</i> , 2009 , 3215-21	4.3	56
74	Use of the di-2-pyridyl ketone/3,5-di-tert-butylcatechol blend in iron(III) chemistry: a cationic tetranuclear cluster and an anionic trinuclear complex. <i>Dalton Transactions</i> , 2003 , 3411-3418	4.3	54
73	Slow magnetic relaxation of a ferromagnetic Ni(II) ₅ cluster with an S = 5 ground state. <i>Inorganic Chemistry</i> , 2008 , 47, 10674-81	5.1	53
72	Salicylaldoxime (H ₂ salox) in iron(III) carboxylate chemistry: Synthesis, X-ray crystal structure, spectroscopic characterization and magnetic behavior of trinuclear oxo-centered complexes. <i>Polyhedron</i> , 2005 , 24, 711-721	2.7	48
71	Hexanuclear iron(III) salicylaldoximate complexes presenting the [Fe ₆ (μ ₃ -O) ₂ (μ ₂ -OR) ₂] ¹²⁺ core: syntheses, crystal structures, and spectroscopic and magnetic characterization. <i>Inorganic Chemistry</i> , 2006 , 45, 2317-26	5.1	47
70	Mixed-Valence Cobalt(II/III) Carboxylate Clusters: CoII ₄ CoIII ₂ and CoII ₂ CoIII ₂ Complexes from the Use of 2-(Hydroxymethyl)pyridine. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 5098-5104	2.3	45
69	Isomorphous replacement of M(II) ions in M(II)-Gd(III) dimers (M(II) = Cu(II), Mn(II), Ni(II), Co(II), Zn(II)): magnetic studies of the products. <i>Dalton Transactions</i> , 2010 , 39, 5020-7	4.3	44

68	A trinuclear cluster containing the {Fe ₃ (β-O)} ⁷⁺ core: Structural, magnetic and spectroscopic (IR, Mössbauer, EPR) studies. <i>Polyhedron</i> , 2005 , 24, 1540-1548	2.7	43
67	Syntheses, Structural, and Physical Studies of Basic Cr(III) and Fe(III) Benzilates and Benzoates: Evidence of Antisymmetric Exchange and Distributions of Isotropic and Antisymmetric Exchange Parameters. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 3710-3723	2.3	40
66	A new example of a tetranuclear iron(III) cluster containing the [Fe ₄ O ₂] ⁸⁺ core: preparation, X-ray crystal structure, magnetochemistry and Mössbauer study of [Fe ₄ O ₂ (O ₂ CMe) ₆ (N ₃) ₂ (phen) ₂]. <i>Inorganica Chimica Acta</i> , 2004 , 357, 1345-1354	2.7	39
65	An "S"-shaped pentanuclear Cu(II) cluster derived from the metal-assisted hydrolysis of pyCOpyCOpy: structural, magnetic and spectroscopic studies. <i>Dalton Transactions</i> , 2007 , 3582-9	4.3	38
64	Reactivity and structural and physical studies of tetranuclear iron(III) clusters containing the [Fe ₄ (μ ₃ -O) ₂] ⁸⁺ "butterfly" core: an Fe(III) ₄ cluster with an S = 1 ground state. <i>Inorganic Chemistry</i> , 2006 , 45, 7372-81	5.1	34
63	Ferromagnetism in Cu(II) ₄ and Co(II) ₄ Complexes Derived from Metal-Assisted Solvolysis of Di-2,6-(2-pyridylcarbonyl)pyridine: Syntheses, Structures, and Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 3796-3801	2.3	33
62	A Nonanuclear Iron(II) Single-Molecule Magnet. <i>Angewandte Chemie</i> , 2004 , 116, 2316-2320	3.6	33
61	Synthesis and characterization of the tetranuclear iron(III) complex of a new asymmetric multidentate ligand. A structural model for purple acid phosphatases. <i>Dalton Transactions</i> , 2007 , 5132-9	4.3	30
60	First Demonstration of Magnetoelectric Coupling in a Polynuclear Molecular Nanomagnet: Single-Crystal EPR Studies of [Fe(O)(O ⁻ CPh)(py)]ClO ₄ ·py under Static Electric Fields. <i>Chemistry - A European Journal</i> , 2018 , 24, 14896-14900	4.8	27
59	Structural variation from 1D chains to 3D networks: a systematic study of coordination number effect on the construction of coordination polymers using the terephthaloylbisglycinate ligand. <i>New Journal of Chemistry</i> , 2011 , 35, 1060	3.6	25
58	Aromatic -oxide bridged copper(II) coordination polymers: Synthesis, characterization and magnetic properties. <i>Inorganica Chimica Acta</i> , 2010 , 363, 2279-2286	2.7	25
57	Coordination Polymers of Lanthanide(III): Toward Encapsulation of Well-Defined Assembly of Guest Molecules. <i>Crystal Growth and Design</i> , 2011 , 11, 547-554	3.5	24
56	Cluster based copper(II)-azide polymer: Synthesis, structure and magnetic study. <i>Polyhedron</i> , 2010 , 29, 3342-3348	2.7	24
55	A general synthetic route for the preparation of high-spin molecules: Replacement of bridging hydroxo ligands in molecular clusters by end-on azido ligands. <i>Polyhedron</i> , 2007 , 26, 2089-2094	2.7	24
54	Salicylaldoxime in manganese(III) carboxylate chemistry: Synthesis, structural characterization and physical studies of hexanuclear and polymeric complexes. <i>Polyhedron</i> , 2008 , 27, 3575-3586	2.7	24
53	Synthesis, spectroscopic, structural and electrochemical studies of carboxyl substituted 1,4-naphthoquinones. <i>Inorganica Chimica Acta</i> , 2008 , 361, 1681-1688	2.7	23
52	Tetranuclear iron(III) carboxylate clusters with 1,10-phenanthroline and 2,2'-bipyridine: a new [Fe ₄ (β-OH)(EDH) ₂] ⁷⁺ core. <i>Dalton Transactions RSC</i> , 2001 , 955-957		23
51	Weak ferromagnetism in 1D coordination polymers: Syntheses, crystal structures, spectroscopic and magnetic properties of [Cu(L)(Memal)] _n (Memal ²⁻ the dianion of methylmalonic acid, L=1,10-phenanthroline, 2,2'-bipyridine). <i>Polyhedron</i> , 2007 , 26, 2536-2542	2.7	21

50	2,2'-Bipyrimidine (bpym) in iron(III) carboxylate chemistry: preparation and characterization of [Fe ₂ O(O ₂ CMe) ₂ (bpym) ₂ (H ₂ O) ₂](ClO ₄) ₂ , and the influence of weak interactions in the formation of metal clusters. <i>Polyhedron</i> , 2004 , 23, 1271-1277	2.7	20
49	A Diferrous Single-Molecule Magnet. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 2409-2415	2.3	18
48	Alcoholysis/hydrolysis of 1,1'-carbonyldiimidazole as a means of preparing unprecedented, imidazole-containing one-dimensional coordination polymers of copper(II). <i>Dalton Transactions</i> , 2009 , 3354-62	4.3	17
47	Iron(III) chemistry with ferrocene-1,1'-dicarboxylic acid (fdch ₂): an Fe ₇ cluster with an oxidized fdc(-) ligand. <i>Inorganic Chemistry</i> , 2011 , 50, 5646-54	5.1	16
46	Magnetic relaxation in basic iron(III) carboxylate [Fe ₃ O(O ₂ CPh) ₆ (H ₂ O) ₃](ClO ₄) ₃ py. <i>Dalton Transactions</i> , 2011 , 40, 6371-4	4.3	16
45	Two new coordination polymers containing the triangular [Mn ₃ O(O ₂ CR) ₆] ^{0/+} units. <i>Inorganica Chimica Acta</i> , 2008 , 361, 4100-4106	2.7	15
44	Dynamic versus Static Character of the Magnetic Jahn-Teller Effect: Magnetostructural Studies of [FeO(OCPh)(py)]ClO ₄ py. <i>Inorganic Chemistry</i> , 2017 , 56, 762-772	5.1	14
43	The first member of a second generation family of ligands derived from metal-ion assisted reactivity of di-2,6-(2-pyridylcarbonyl)pyridine: Synthesis and characterization of a MnII/III ₄ rhombus. <i>Inorganic Chemistry Communication</i> , 2012 , 15, 73-77	3.1	14
42	Towards ionic liquids with tailored magnetic properties: bmim salts of ferro- and antiferromagnetic Cu triangles. <i>Dalton Transactions</i> , 2017 , 46, 12263-12273	4.3	14
41	Expanding the 3d-4f heterometallic chemistry of the (py) ₂ CO and pyCOpyCOpy ligands: structural, magnetic and Mössbauer spectroscopic studies of two Fe(II)-Gd(III) complexes. <i>Dalton Transactions</i> , 2011 , 40, 8199-205	4.3	14
40	Reaction between Yttrium Nitrate and 2,2':6',2"-Terpyridine (terpy) in MeCN: Preparation, Crystal Structures and Spectroscopic Characterization of [Y(NO ₃) ₃ (terpy)(H ₂ O)] and [Y(NO ₃) ₃ (terpy)(H ₂ O)] ₃ MeCN. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2001 , 56, 122-128	1	14
39	Nitrite Reduction by Trinuclear Copper Pyrazolate Complexes: An Example of a Catalytic, Synthetic Polynuclear NO Releasing System. <i>Inorganic Chemistry</i> , 2019 , 58, 7537-7544	5.1	13
38	Interactions between H-bonded [Cu(EDH)] triangles; a combined magnetic susceptibility and EPR study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17234-17244	3.6	13
37	The first non-acetato members of the bis(anion)octacarboxylatotetrakis{di-2-pyridyl-methanediolate(2-)}enneametal(II) family of complexes: Synthesis, X-ray structures and magnetism of [M ₉ (N ₃) ₂ (O ₂ CCMe ₃) ₈ {(py) ₂ CO ₂ } ₄] (M = Co, Ni). <i>Polyhedron</i> , 2011 , 30, 3024-3033	2.7	13
36	Reversible core-interconversion of an iron(III) dihydroxo bridged complex. <i>Inorganic Chemistry</i> , 2008 , 47, 11314-23	5.1	13
35	Structure and properties of dinuclear manganese(III) complexes with pentaanionic pentadentate ligands including alkoxo, amido, and phenoxo donors. <i>Inorganic Chemistry</i> , 2007 , 46, 6902-10	5.1	13
34	The benzoate/nitrate/2,2':6',2"-terpyridine blend in lanthanide(III) chemistry: Relevance to the separation of lanthanides and actinides by solvent extraction. <i>Inorganic Chemistry Communication</i> , 2007 , 10, 800-804	3.1	13
33	Aerobic Fe(III) Reduction in the Presence of 2,4,6-Tri(2-pyridyl)-1,3,5-triazine and Benzilic Acid: Synthesis and Characterization of a Heptacoordinate Fe(II) Nitrate Complex. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 5632-5641	2.3	13

32	Pentanuclear complexes with unusual structural topologies from the initial use of two aliphatic amino-alcohol ligands in Fe chemistry. <i>Dalton Transactions</i> , 2012 , 41, 1544-52	4.3	12
31	Selective adenine/cytosine cations in one-dimensional coordination polymers of manganese (II) and copper (II) 2,3-pyridinedicarboxylates. <i>Inorganic Chemistry Communication</i> , 2010 , 13, 1244-1248	3.1	12
30	J-strain and antisymmetric exchange in a polynuclear compound containing the {Fe ₃ O}7+ core. <i>Comptes Rendus Chimie</i> , 2007 , 10, 116-124	2.7	12
29	Maleamate(II) and Maleate(II) Copper(II)-2,2'-Bipyridine Complexes: Synthesis, Reactivity and Structural and Physical Studies. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 4554-4563	2.3	11
28	Mössbauer spectra of two extended series of basic iron(III) carboxylates [Fe ₃ O(O ₂ CR) ₆ (H ₂ O) ₆]A (A = ClO ₄ , NO ₃). <i>Hyperfine Interactions</i> , 2010 , 198, 229-241	0.8	11
27	Ligand-induced electronic effects in the physical properties of transition metal clusters: Modulation of Mössbauer parameters and magnetic exchange couplings in complexes by the R substituent. <i>Inorganica Chimica Acta</i> , 2007 , 360, 39-47	2.7	11
26	A Tetragonal Core with Asymmetric Iron Environments Supported Solely by Bis(E ₂ OH){E(OE ₂ OH)} Bridging and Terminal Pyridine Amide (N, O) Coordination: A New Member of the Tetrairon(III) Family. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 2820-2829	2.3	11
25	A systematic investigation of the CuCl ₂ /H ₂ mal/phen reaction system (H ₂ mal=malonic acid): Solution and solid state studies of its products. <i>Polyhedron</i> , 2008 , 27, 2315-2326	2.7	11
24	Azide-bridged manganese(III) one-dimensional chain: synthesis, structure, and magnetic study. <i>Journal of Coordination Chemistry</i> , 2013 , 66, 9-17	1.6	10
23	Crystal structure and topological ferrimagnetic behavior of a new 2D metal-organic hybrid manganese complex [Mn ₃ (N ₃) ₄ (L) ₂ (H ₂ O) ₂] _n ·0.6(C ₂ H ₅ OH)·0.4(H ₂ O) with the AF/AF/F alternating sequence (HL = N ₂ -((pyridine-2-yl)methylene)isonicotinohydrazide). <i>Polyhedron</i> , 2013 , 49, 61-66	2.7	10
22	Determination of the Distributions of the Spin-Hamiltonian Parameters in Spin Triangles: A Combined Magnetic Susceptometry and Electron Paramagnetic Resonance Spectroscopic Study of the Highly Symmetric [CrO(PhCOO)(py)](ClO ₄) _{0.5} py. <i>Inorganic Chemistry</i> , 2018 , 57, 13259-13269	5.1	10
21	2-Pyridyl ketone oximes in iron(III) carboxylate chemistry: Synthesis, structural and physical studies of tetranuclear clusters containing the [Fe ₄ (β-O) ₂] ⁸⁺ Butterfly-core. <i>Polyhedron</i> , 2009 , 28, 3221-3226	2.7	9
20	Copper(II)-mediated oxime-triple coupling in non-aqueous solutions: Synthetic, structural and magnetic studies of the copper(II)-alicyclic aldehyde oxime reaction system. <i>Inorganica Chimica Acta</i> , 2011 , 370, 50-58	2.7	9
19	Polyanisotropic Magnetolectric Coupling in an Electrically Controlled Molecular Spin Qubit. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19765-19775	16.4	9
18	A diferric complex from metal-assisted methanolysis of di-2,6-(2-pyridylcarbonyl)-pyridine: Structural, magnetic and spectroscopic (Mössbauer, EPR) studies. <i>Polyhedron</i> , 2009 , 28, 3251-3256	2.7	8
17	Further investigations on the Fe(ClO ₄) ₃ /RCO ₂ -/phen reaction system: Syntheses, structural and physical characterization of complexes [Fe ₂ O(O ₂ CCl ₃) ₂ (phen) ₂ (H ₂ O) ₂](ClO ₄) ₂ and [Fe ₂ O(O ₂ CCMe ₃) ₂ (phen) ₂ (H ₂ O) ₂](ClO ₄) ₂ . <i>Polyhedron</i> , 2006 , 25, 1391-1398	2.7	8
16	Hexanuclear complexes from the use of a series of amino-alcohol ligands in Fe chemistry. <i>Polyhedron</i> , 2013 , 64, 218-230	2.7	7
15	Initial use of 1,1'-oxalyl-diimidazole for inorganic synthesis: Decomposition of the ligand as a means to the preparation of an imidazole- and oxalate(-2)-containing, 1D copper(II) complex. <i>Inorganic Chemistry Communication</i> , 2009 , 12, 402-405	3.1	7

14	Polymerization of a preformed Mn ₆ cluster to a one-dimensional chain. <i>Polyhedron</i> , 2013 , 52, 917-923	2.7	6
13	Origin of Ferromagnetism and Magnetic Anisotropy in a Family of Copper(II) Triangles. <i>Chemistry - A European Journal</i> , 2020 , 26, 12769-12784	4.8	5
12	The [Fe{(SePPh ₂) ₂ N} ₂] Complex Revisited: X-ray Crystallography, Magnetometry, High-Frequency EPR, and Mössbauer Studies Reveal Its Tetrahedral FeIISe ₄ Coordination Sphere. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 713-721	2.3	5
11	Half-Integer Spin Triangles: Old Dogs, New Tricks. <i>Chemistry - A European Journal</i> , 2021 , 27, 7022-7042	4.8	5
10	CoII Chemistry of 2,6-Bis(2-pyridylcarbonyl)pyridine: An Icosanuclear Co Cluster Exhibiting Superparamagnetic Relaxation. <i>Angewandte Chemie</i> , 2006 , 118, 446-449	3.6	4
9	Hydrogen-Bonded Networks Featuring Yttrium(III) Complexes of N,N-Dimethylurea (DMU): Preparation and Characterization of [Y(DMU) ₆][YCl ₆] and [Y(NO ₃) ₃ (DMU) ₃]. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2005 , 60, 363-372	1	4
8	Relevance of Dzyaloshinskii-Moriya spectral broadenings in promoting spin decoherence: a comparative pulsed-EPR study of two structurally related iron(III) and chromium(III) spin-triangle molecular qubits. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 19575-19584	3.6	3
7	Site preferences in hetero-metallic [FeNi] clusters: a combined crystallographic, spectroscopic and theoretical analysis. <i>Dalton Transactions</i> , 2017 , 46, 12835-12844	4.3	3
6	Supramolecular Assemblies of Trinuclear Copper(II)-Pyrazolato Units: A Structural, Magnetic and EPR Study. <i>Chemistry</i> , 2020 , 2, 626-644	2.1	2
5	Chromium(III)-pyrazole complexes. X-Ray crystal structures, ¹ H NMR investigation of ligand fluxional behavior and EPR studies. <i>Inorganica Chimica Acta</i> , 2020 , 502, 119299	2.7	2
4	Room-temperature spin nutations in a magnetically condensed phase of [Y(pc)] ₃ . <i>Chemical Communications</i> , 2021 , 57, 11505-11508	5.8	1
3	Room-Temperature Cu(II) Radical-Triggered Alkyne C-H Activation. <i>Jacs Au</i> , 2021 , 1, 1937-1948		0
2	Observation and deconvolution of a unique EPR signal from two cocrystallized spin triangles. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 14415-14421	3.6	
1	Broadband electron paramagnetic resonance of a molecular spin triangle. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 20268-20274	3.6	