Kevin Bernot

List of Publications by Citations

103 papers	5,470 citations	40 h-index	73 g-index
113 ext. papers	5,867 ext. citations	6 avg, IF	5.47 L-index

#	Paper	IF	Citations
103	Magnetic anisotropy in a dysprosium/DOTA single-molecule magnet: beyond simple magneto-structural correlations. *Angewandte Chemie - International Edition*, **2012**, 51, 1606-10	16.4	474
102	A family of rare-earth-based single chain magnets: playing with anisotropy. *Journal of the American Chemical Society*, **2006**, 128, 7947-56	16.4	474
101	Spin chirality in a molecular dysprosium triangle: the archetype of the noncollinear ising model. *Physical Review Letters*, **2008**, 100, 247205	7.4	256
100	Magnetic anisotropy and spin-parity effect along the series of lanthanide complexes with DOTA. *Angewandte Chemie - International Edition*, **2013**, 52, 350-4	16.4	252
99	Magnetic anisotropy of dysprosium(III) in a low-symmetry environment: a theoretical and experimental investigation. *Journal of the American Chemical Society*, **2009**, 131, 5573-9	16.4	232
98	A rational approach to the modulation of the dynamics of the magnetisation in a dysprosium-nitronyl-nitroxide radical complex. *Chemical Communications*, **2007**, 1807-9	5.8	197
97	Effects of 3d-4f magnetic exchange interactions on the dynamics of the magnetization of Dy(III)-M(II)-Dy(III) trinuclear clusters. *Chemistry - A European Journal*, **2007**, 13, 1602-9	4.8	189
96	The canted antiferromagnetic approach to single-chain magnets. *Journal of the American Chemical Society*, **2008**, 130, 1619-27	16.4	175
95	Magnetic memory in an isotopically enriched and magnetically isolated mononuclear dysprosium complex. *Angewandte Chemie - International Edition*, **2015**, 54, 1504-7	16.4	167
94	Structural and luminescent properties of micro- and nanosized particles of lanthanide terephthalate coordination polymers. *Inorganic Chemistry*, **2008**, 47, 3700-8	5.1	160
93	Synthesis, crystal structure, and porosity estimation of hydrated erbium terephthalate coordination polymers. *Inorganic Chemistry*, **2006**, 45, 5399-406	5.1	129
92	Magnetic poles determinations and robustness of memory effect upon solubilization in a Dy(III)-based single ion magnet. *Journal of the American Chemical Society*, **2013**, 135, 16332-5	16.4	124
91	Single molecule magnet behaviour in robust dysprosium-biradical complexes. *Chemical Communications*, **2010**, 46, 6458-60	5.8	123
90	A luminescent and sublimable Dy(III)-based single-molecule magnet. *Chemistry - A European Journal* , **2012**, 18, 11379-87	4.8	119
89	A Long Journey in Lanthanide Chemistry: From Fundamental Crystallogenesis Studies to Commercial Anticounterfeiting Taggants. *Accounts of Chemical Research*, **2016**, 49, 844-56	24.3	112
88	[TmIII(hfac)3(NITPhOPh)]A new member of a lanthanide-based Single Chain Magnets family. *Inorganica Chimica Acta*, **2007**, 360, 3807-3812	2.7	89
87	Magnetic Anisotropy in a Dysprosium/DOTA Single-Molecule Magnet: Beyond Simple Magneto-Structural Correlations. *Angewandte Chemie*, **2012**, 124, 1638-1642	3.6	87

86	Crystal packing effects on the magnetic slow relaxation of Tb(III)-nitronyl nitroxide radical cyclic dinuclear clusters. *Inorganic Chemistry*, **2012**, 51, 12218-29	5.1	84
85	Delicate crystal structure changes govern the magnetic properties of 1D coordination polymers based on 3d metal carboxylates. *Chemistry - A European Journal*, **2008**, 14, 2034-43	4.8	83
84	Brightness and Color Tuning in a Series of Lanthanide-Based Coordination Polymers with Benzene-1,2,4,5-tetracarboxylic Acid as a Ligand. *Inorganic Chemistry*, **2016**, 55, 794-802	5.1	81
83	Coordination polymers based on heterohexanuclear rare earth complexes: toward independent luminescence brightness and color tuning. *Inorganic Chemistry*, **2013**, 52, 6720-30	5.1	78
82	Evidence of intermolecular π-stacking enhancement of second-harmonic generation in a family of single chain magnets. *Journal of Materials Chemistry*, **2006**, 16, 2587-2592		71
81	Color and Brightness Tuning in Heteronuclear Lanthanide Terephthalate Coordination Polymers. *European Journal of Inorganic Chemistry*, **2013**, 2013, 3464-3476	2.3	65
80	Magnetic Anisotropy and Spin-Parity Effect Along the Series of Lanthanide Complexes with DOTA. *Angewandte Chemie*, **2013**, 125, 368-372	3.6	60
79	Rational Organization of Lanthanide-Based SMM Dimers into Three-Dimensional Networks. *Inorganic Chemistry*, **2015**, 54, 5213-9	5.1	54
78	Magnetic Slow Relaxation in a Metal-Organic Framework Made of Chains of Ferromagnetically Coupled Single-Molecule Magnets. *Chemistry - A European Journal*, **2018**, 24, 6983-6991	4.8	54
77	Influence of photoinduced electron transfer on lanthanide-based coordination polymer luminescence: a comparison between two pseudoisoreticular molecular networks. *Inorganic Chemistry*, **2014**, 53, 1217-28	5.1	52
76	Lanthanide-Based Coordination Polymers with a 4,5-Dichlorophthalate Ligand Exhibiting Highly Tunable Luminescence: Toward Luminescent Bar Codes. *Inorganic Chemistry*, **2018**, 57, 3399-3410	5.1	50
75	Experimental and theoretical evidence that electrostatics governs easy-axis orientation in Dy(III)-based molecular chains. *Chemical Communications*, **2014**, 50, 13346-8	5.8	49
74	A carbon-rich ruthenium decorated dysprosium single molecule magnet. *Chemical Communications*, **2012**, 48, 3948-50	5.8	48
73	Unraveling the crystal structure of lanthanide-murexide complexes: use of an ancient complexometry indicator as a near-infrared-emitting single-ion magnet. *Chemistry - A European Journal*, **2014**, 20, 1569-76	4.8	47
72	1,2,4,5-Benzene-tetra-carboxylic acid: a versatile ligand for high dimensional lanthanide-based coordination polymers. *CrystEngComm*, **2013**, 15, 1882	3.3	46
71	Lanthanide Aminoisophthalate Coordination Polymers: A Promising System for Tunable Luminescent Properties. *European Journal of Inorganic Chemistry*, **2011**, 2011, n/a-n/a	2.3	46
70	Sterically-induced synthesis of 3d–4f one-dimensional compounds: A new route towards 3d–4f single chain magnets. *Inorganica Chimica Acta*, **2008**, 361, 3997-4003	2.7	45
69	Heteronuclear lanthanide-based coordination polymers exhibiting tunable multiple emission spectra. *Journal of Materials Chemistry C*, **2014**, 2, 5510	7.1	43

68	A family of lanthanide-based coordination polymers with boronic Acid as ligand. *Inorganic Chemistry* , **2015**, 54, 5534-46	5.1	42
67	Redox modulation of magnetic slow relaxation in a 4f-based single-molecule magnet with a 4d carbon-rich ligand. *Inorganic Chemistry*, **2014**, 53, 2361-3	5.1	42
66	Synthesis, crystal structure and luminescent properties of new lanthanide-containing coordination polymers involving 4,4?-oxy-bis-benzoate as ligand. *CrystEngComm*, **2013**, 15, 706-720	3.3	41
65	Magnetic Memory in an Isotopically Enriched and Magnetically Isolated Mononuclear Dysprosium Complex. *Angewandte Chemie*, **2015**, 127, 1524-1527	3.6	40
64	Spin control in ladderlike hexanuclear copper(II) complexes with metallacyclophane cores. *Inorganic Chemistry*, **2004**, 43, 2768-70	5.1	40
63	New lanthanide based coordination polymers with high potential porosity. *Journal of Alloys and Compounds*, **2008**, 451, 377-383	5.7	39
62	Robust Magnetic Properties of a Sublimable Single-Molecule Magnet. *ACS Nano*, **2016**, 10, 5663-9	16.7	38
61	Influence of ferromagnetic connection of Ising-type Dy(III)-based single ion magnets on their magnetic slow relaxation. *Dalton Transactions*, **2013**, 42, 6728-31	4.3	37
60	Lanthanide-based hexa-nuclear complexes and their use as molecular precursors. *Coordination Chemistry Reviews*, **2017**, 340, 134-153	23.2	34
59	Lanthanide-Based Coordination Polymers With 1,4-Carboxyphenylboronic Ligand: Multiemissive Compounds for Multisensitive Luminescent Thermometric Probes. *Inorganic Chemistry*, **2019**, 58, 462-475	5.1	33
58	Field induced 4f5d [Re(salen)]2O3[Dy(hfac)3(H2O)]2 single molecule magnet. *Inorganic Chemistry*, **2010**, 49, 4355-61	5.1	32
57	Hysteresis Photomodulation via Single-Crystal-to-Single-Crystal Isomerization of a Photochromic Chain of Dysprosium Single-Molecule Magnets. *Journal of the American Chemical Society*, **2020**, 142, 931-936	16.4	31
56	Multi-Emissive Lanthanide-Based Coordination Polymers for Potential Application as Luminescent Bar-Codes. *Inorganic Chemistry*, **2019**, 58, 2659-2668	5.1	29
55	First NiIIInIII Coordination Polymers Constructed by Using [Ni(bpca)2] as a Building Block [Hbpca = bis(2-pyridylcarbonyl)amine]: Synthesis, Crystal Structures and Magnetic Properties. *European Journal of Inorganic Chemistry*, **2007**, 2007, 5533-5540	2.3	29
54	Self-assembly and magnetic properties of a double-propeller octanuclear copper(II) complex with a meso-helicate-type metallacryptand core. *Chemical Communications*, **2004**, 920-1	5.8	28
53	Determination of the Nature of Exchange Interactions in the 3d4f Magnetic Chain {[Cu(salen)Pr(hfac)3]2(L)}n (L = 4,4?-Bipyridine, Pyrazine). *European Journal of Inorganic Chemistry*, **2010**, 2010, 952-964	2.3	27
52	3D Organization of Dysprosium Cubanes. *European Journal of Inorganic Chemistry*, **2013**, 2013, 5879-5885	2.3	26
51	Characterization and Luminescence Properties of Lanthanide-Based Polynuclear Complexes Nanoaggregates. *Inorganic Chemistry*, **2015**, 54, 6043-54	5.1	25

50	Extending the lanthanide terephthalate system: Isolation of an unprecedented Tb(III)-based coordination polymer with high potential porosity and luminescence properties. *Journal of Molecular Structure*, **2015**, 1086, 34-42	3.4	23
49	High Brightness and Easy Color Modulation in Lanthanide-Based Coordination Polymers with 5-Methoxyisophthalate as Ligand: Toward Emission Colors Additive Strategy. *Crystal Growth and Design*, **2017**, 17, 1224-1234	3.5	22
48	Analysis of the Magnetic Exchange Interactions in Yttrium(III) Complexes Containing Nitronyl Nitroxide Radicals. *Inorganic Chemistry*, **2017**, 56, 6788-6801	5.1	22
47	Optimization of Magnetic Relaxation and Isotopic Enrichment in Dimeric DyIII Single-Molecule Magnets. *European Journal of Inorganic Chemistry*, **2018**, 2018, 326-332	2.3	22
46	Influence of the supramolecular architecture on the magnetic properties of a Dy(III) single-molecule magnet: an ab initio investigation. *Beilstein Journal of Nanotechnology*, **2014**, 5, 2267-74	3	21
45	A Journey in Lanthanide Coordination Chemistry: From Evaporable Dimers to Magnetic Materials and Luminescent Devices. *Accounts of Chemical Research*, **2021**, 54, 427-440	24.3	20
44	Structural diversity and photo-physical and magnetic properties of dimeric to 1D polymeric coordination polymers of lighter lanthanide(iii) dinitrobenzoates. *Dalton Transactions*, **2018**, 47, 4722-4732	4.3	18
43	Synthesis, Structure, Spectroscopic Studies and Magnetic Properties of the Tetrakis(5,7-dichloro-8-quinolinolato)gadolinium(III) Complex. *European Journal of Inorganic Chemistry*, **2008**, 2008, 3820-3826	2.3	18
42	Ferromagnetic interactions in Ru(III)-nitronyl nitroxide radical complex: a potential 2p4d building block for molecular magnets. *Dalton Transactions*, **2007**, 2689-95	4.3	18
41	Chiral Supramolecular Nanotubes of Single-Chain Magnets. *Angewandte Chemie - International Edition*, **2020**, 59, 780-784	16.4	18
40	Chemical tailoring of Single Molecule Magnet behavior in films of Dy(III) dimers. *Applied Surface Science*, **2018**, 432, 7-14	6.7	16
39	Strong Magnetic Coupling and Single-Molecule-Magnet Behavior in Lanthanide-TEMPO Radical Chains. *Inorganic Chemistry*, **2018**, 57, 11044-11057	5.1	14
38	trans to cis photo-isomerization in merocyanine dysprosium and yttrium complexes. *Dalton Transactions*, **2018**, 47, 4139-4148	4.3	13
37	Highly Axial Magnetic Anisotropy in a N O Dysprosium(III) Coordination Environment Generated by a Merocyanine Ligand. *Chemistry - A European Journal*, **2016**, 22, 15222-15226	4.8	13
36	Rational Design of Dual IR and Visible Highly Luminescent Light-Lanthanides-Based Coordination Polymers. *Inorganic Chemistry*, **2020**, 59, 10673-10687	5.1	11
35	Microcrystalline Core-Shell Lanthanide-Based Coordination Polymers for Unprecedented Luminescent Properties. *Inorganic Chemistry*, **2019**, 58, 1317-1329	5.1	11
34	Hexalanthanide Complexes as Molecular Precursors: Synthesis, Crystal Structure, and Luminescent and Magnetic Properties. *Inorganic Chemistry*, **2017**, 56, 14632-14642	5.1	10
33	Nanometrization of Lanthanide-Based Coordination Polymers. *Chemistry - A European Journal*, **2015**, 21, 17466-73	4.8	9

32	Isotope effects on the spin dynamics of single-molecule magnets probed using muon spin spectroscopy. *Chemical Communications*, **2018**, 54, 7826-7829	5.8	8
31	Hetero-bimetallic yttrium(III)□henium(V)(salen) tetranuclear complex: Synthesis and crystal structure. *Inorganic Chemistry Communication*, **2007**, 10, 471-474	3.1	8
30	Sonocrystallization as an Efficient Way to Control the Size, Morphology, and Purity of Coordination Compound Microcrystallites: Application to a Single-Chain Magnet. *Inorganic Chemistry*, **2020**, 59, 9215-9226	5.1	7
29	Reversible Luminescence Modulation upon an Electric Field on a Full Solid-State Device Based on Lanthanide Dimers. *ACS Applied Materials & Interfaces*, **2016**, 8, 15551-6	9.5	7
28	Hetero-hexalanthanide Complexes: A New Synthetic Strategy for Molecular Thermometric Probes. *Inorganic Chemistry*, **2019**, 58, 16180-16193	5.1	7
27	Optical properties of composites formed by transition metal macrocyclic complexes intercalated in thiophosphate layered phases. *Polyhedron*, **2012**, 44, 187-193	2.7	7
26	Solid-State Anion□Guest Encapsulation by Metallosupramolecular Capsules Made from Two Tetranuclear Copper(II) Complexes. *European Journal of Inorganic Chemistry*, **2007**, 2007, 4569-4573	2.3	7
25	Rational enhancement of the coordination capability of Ru(III)(salen)-nitronyl nitroxide building block: A step towards 2p□d□d magnetic edifices. *Inorganica Chimica Acta*, **2008**, 361, 3427-3431	2.7	7
24	Croconato-containing M(III) (M = Ga, Er) complexes as potential building blocks for mono/multifunctional molecular materials. *Inorganica Chimica Acta*, **2011**, 370, 474-481	2.7	6
23	Luminescence properties of lanthanide complexes-based molecular alloys. *Inorganica Chimica Acta*, **2020**, 501, 119309	2.7	6
22	High Luminance of Heterolanthanide-Based Molecular Alloys by Phase-Induction Strategy. *Inorganic Chemistry*, **2020**, 59, 11028-11040	5.1	6
21	A supramolecular chain of dimeric Dy single molecule magnets decorated with azobenzene ligands. *Dalton Transactions*, **2019**, 48, 16053-16061	4.3	6
20	Structural and luminescence characterizations of lanthanide-based coordination polymers involving naphthalene-1,4,5,8-tetra-carboxylate as ligand. *Inorganica Chimica Acta*, **2013**, 401, 11-18	2.7	5
19	Colloidal suspensions of highly luminescent lanthanide-based coordination polymer molecular alloys for ink-jet printing and tagging of technical liquids. *Inorganic Chemistry Frontiers*, **2021**, 8, 2125-2135	6.8	5
18	Highly Luminescent Europium-Based Heteroleptic Coordination Polymers with Phenantroline and Glutarate Ligands. *Inorganic Chemistry*, **2021**, 60, 3707-3718	5.1	5
17	Rational engineering of dimeric Dy-based Single-Molecule Magnets for surface grafting. *Polyhedron* , **2019**, 164, 41-47	2.7	4
16	Lanthanides in Extended Molecular Networks **2015**, 89-124		4
15	A new series of lanthanide-based complexes with a bis(hydroxy)benzoxaborolone ligand: synthesis, crystal structure, and magnetic and optical properties. *CrystEngComm*, **2020**, 22, 2020-2030	3.3	4

14	Chiral Supramolecular Nanotubes of Single-Chain Magnets. *Angewandte Chemie*, **2020**, 132, 790-794	3.6	4
13	Closing the Circle of the Lanthanide-Murexide Series: Single-Molecule Magnet Behavior and Near-Infrared Emission of the NdIII Derivative. *Magnetochemistry*, **2018**, 4, 44	3.1	4
12	Lanthanide coordination polymers with 1,2-phenylenediacetate. *Inorganica Chimica Acta*, **2017**, 461, 136-144	2.7	3
11	Photo-physical properties of donor-acceptor-radical triad based on functionalized tetrathiafulvalene and nitronyl nitroxide radical. *Dyes and Pigments*, **2017**, 145, 285-293	4.6	3
10	A new family of lanthanide-based coordination polymers with azoxybenzene-3,3?,5,5?-tetracarboxylic acid as ligand. *Inorganica Chimica Acta*, **2019**, 488, 208-213	2.7	3
9	Self-assembly of a terbium(III) 1D coordination polymer on mica. *Beilstein Journal of Nanotechnology*, **2019**, 10, 2440-2448	3	3
8	Lanthanide-based molecular alloys with hydroxyterephthalate: a versatile system. *CrystEngComm*, **2021**, 23, 100-118	3.3	3
7	New lanthanide-based coordination polymers with 2,5-dihydroxyterephthalate. *Inorganica Chimica Acta*, **2021**, 527, 120594	2.7	2
6	Single-chain magnet behavior in a finite linear hexanuclear molecule. *Chemical Science*, **2021**, 12, 10613-10621	9.4	2
5	Crystal structure of [Y6(μ3-O)(μ3-OH)8(H2O)24]I8·8H2O. *Acta Crystallographica Section E: Structure Reports Online*, **2014**, 70, 577-9		1
4	Hexanuclear Molecular Precursors as Tools to Design Luminescent Coordination Polymers with Lanthanide Segregation. *Inorganic Chemistry*, **2021**, 60, 16782-16793	5.1	1
3	Microwave-assisted synthesis of lanthanide coordination polymers with 2-bromobenzoic acid as ligand from hexa-lanthanide molecular precursors. *Journal of Molecular Structure*, **2021**, 1250, 131918	3.4	0
2	Solvato Modulation of the Magnetic Memory in Isotopically Enriched Erbium Polyoxometalate. *Chemistry - A European Journal*, **2021**, 27, 10160-10168	4.8	0
1	Coordination-enhanced photochromism in dysprosium dinuclear complexes with photomodulated single-molecule magnet behavior4, 2		