Koji Nakabayashi

List of Publications by Citations

84 papers	1,846 citations	26 h-index	40 g-index
93 ext. papers	2,159 ext. citations	6.5 avg, IF	4.94 L-index

#	Paper	IF	Citations
84	Air- and heat-stable planar tri-p-quinodimethane with distinct biradical characteristics. *Journal of the American Chemical Society*, **2011**, 133, 16342-5	16.4	109
83	In situ spectroscopic, electrochemical, and theoretical studies of the photoinduced host-guest electron transfer that precedes unusual host-mediated alkane photooxidation. *Journal of the American Chemical Society*, **2009**, 131, 4764-8	16.4	96
82	Synthesis and characterization of B-heterocyclic □radical and its reactivity as a boryl radical. *Journal of the American Chemical Society*, **2012**, 134, 19989-92	16.4	90
81	Cavity-induced spin-spin interaction between organic radicals within a self-assembled coordination cage. *Journal of the American Chemical Society*, **2004**, 126, 16694-5	16.4	81
80	White Light Emissive Dy(III) Single-Molecule Magnets Sensitized by Diamagnetic [Co(III) (CN)6](3-) Linkers. *Chemistry - A European Journal*, **2016**, 22, 7371-5	4.8	72
79	Conjunction of chirality and slow magnetic relaxation in the supramolecular network constructed of crossed cyano-bridged Co(II)-W(V) molecular chains. *Journal of the American Chemical Society*, **2012**, 134, 16151-4	16.4	66
78	A self-assembled spin cage. *Angewandte Chemie - International Edition*, **2008**, 47, 2046-8	16.4	64
77	Tuning of Charge Transfer Assisted Phase Transition and Slow Magnetic Relaxation Functionalities in {Fe(9-x)Co(x)[W(CN)8]6} (x = 0-9) Molecular Solid Solution. *Journal of the American Chemical Society*, **2016**, 138, 1635-46	16.4	61
76	Proton Conductive Luminescent Thermometer Based on Near-Infrared Emissive {YbCo} Molecular Nanomagnets. *Journal of the American Chemical Society*, **2020**, 142, 3970-3979	16.4	58
75	Dehydration-Hydration Switching of Single-Molecule Magnet Behavior and Visible Photoluminescence in a Cyanido-Bridged DyCo Framework. *Journal of the American Chemical Society*, **2019**, 141, 18211-18220	16.4	55
74	Vanadium(II) heptacyanomolybdate(III)-based magnet exhibiting a high curie temperature of 110 K. *Inorganic Chemistry*, **2010**, 49, 1298-300	5.1	53
73	pH-Switchable through-space interaction of organic radicals within a self-assembled coordination cage. *Angewandte Chemie - International Edition*, **2005**, 44, 5322-5	16.4	51
72	Green to Red Luminescence Switchable by Excitation Light in Cyanido-Bridged TbIII□WV Ferromagnet. *Chemistry of Materials*, **2014**, 26, 4072-4075	9.6	49
71	Multifunctionality in bimetallic Ln(III)[W(V)(CN)8]3- (Ln = Gd, Nd) coordination helices: optical activity, luminescence, and magnetic coupling. *Chemistry - A European Journal*, **2014**, 20, 7144-59	4.8	47
70	Fine Tuning of Multicolored Photoluminescence in Crystalline Magnetic Materials Constructed of Trimetallic EuTb[Co(CN)] Cyanido-Bridged Chains. *Inorganic Chemistry*, **2017**, 56, 5239-5252	5.1	43
69	Fe(II) spin-crossover phenomenon in the pentadecanuclear {Fe9[Re(CN)8]6} spherical cluster. *Angewandte Chemie - International Edition*, **2015**, 54, 5093-7	16.4	43
68	Bis(aminoaryl) Carbon-Bridged Oligo(phenylenevinylene)s Expand the Limits of Electronic Couplings. *Angewandte Chemie - International Edition*, **2017**, 56, 2898-2902	16.4	41

67	Visible to Near-Infrared Emission from Ln(III)(Bis-oxazoline)-[Mo(V)(CN)8] (Ln = Ce-Yb) Magnetic Coordination Polymers Showing Unusual Lanthanide-Dependent Sliding of Cyanido-Bridged Layers. *Inorganic Chemistry*, **2015**, 54, 4724-36	5.1	40
66	Achieving white light emission and increased magnetic anisotropy by transition metal substitution in functional materials based on dinuclear DyIII(4-pyridone)[MIII(CN)6]3□(M = Co, Rh) molecules. *Journal of Materials Chemistry C*, **2018**, 6, 473-481	7.1	39
65	TbCo and Tb0.5Dy0.5Co layered cyanido-bridged frameworks for construction of colorimetric and ratiometric luminescent thermometers. *Journal of Materials Chemistry C*, **2018**, 6, 8372-8384	7.1	35
64	Octacyanidorhenate(V) Ion as an Efficient Linker for Hysteretic Two-Step Iron(II) Spin Crossover Switchable by Temperature, Light, and Pressure. *Angewandte Chemie - International Edition*, **2020**, 59, 15741-15749	16.4	33
63	Charge transfer phase transition with reversed thermal hysteresis loop in the mixed-valence Fe9[W(CN)8]6□xMeOH cluster. *Chemical Communications*, **2014**, 50, 3484-7	5.8	33
62	Manipulating the through-space spin-spin interaction of organic radicals in the confined cavity of a self-assembled cage. *Chemistry - an Asian Journal*, **2007**, 2, 164-70	4.5	31
61	A polyoxometalate-cyanometalate multilayered coordination network. *Inorganic Chemistry*, **2012**, 51, 4897-9	5.1	29
60	Monometallic lanthanoid assembly showing ferromagnetism with a Curie temperature of 11 K. *Inorganic Chemistry*, **2009**, 48, 8647-9	5.1	27
59	Thermal switching between blue and red luminescence in magnetic chiral cyanido-bridged EuIII□WV coordination helices. *RSC Advances*, **2013**, 3, 1065-1068	3.7	26
58	Photoluminescent Lanthanide(III) Single-Molecule Magnets in Three-Dimensional Polycyanidocuprate(I)-Based Frameworks. *Chemistry - A European Journal*, **2019**, 25, 11820-11825	4.8	25
57	Effect of Noble Metals on Luminescence and Single-Molecule Magnet Behavior in the Cyanido-Bridged Ln-Ag and Ln-Au (Ln = Dy, Yb, Er) Complexes. *Inorganic Chemistry*, **2019**, 58, 5677-5687	5.1	24
56	Holmium(iii) molecular nanomagnets for optical thermometry exploring the luminescence re-absorption effect. *Chemical Science*, **2020**, 12, 730-741	9.4	24
55	Photoreversible Switching of Magnetic Coupling in a Two-dimensional Copper Octacyanomolybdate. *Chemistry Letters*, **2009**, 38, 338-339	1.7	23
54	Humidity driven molecular switch based on photoluminescent DyIIICoII single-molecule magnets. *Journal of Materials Chemistry C*, **2019**, 7, 4164-4172	7.1	21
53	Acid-Responsive Conductive Nanofiber of Tetrabenzoporphyrin Made by Solution Processing. *Journal of the American Chemical Society*, **2018**, 140, 62-65	16.4	21
52	In Situ Generation of Co(III) -Salen Complexes for Copolymerization of Propylene Oxide and CO2. *Chemistry - A European Journal*, **2016**, 22, 13677-81	4.8	19
51	Synthesis of the Single-Crystalline Form and First-Principles Calculations of Photomagnetic Copper(II) Octacyanidomolybdate(IV). *European Journal of Inorganic Chemistry*, **2016**, 2016, 1980-1988	2.3	16
50	A Self-Assembled Spin Cage. *Angewandte Chemie*, **2008**, 120, 2076-2078	3.6	16

49	Dehydration-Triggered Charge Transfer and High Proton Conductivity in (HO)[Ni(cyclam)][M(CN)] (M = Ru, Os) Cyanide-Bridged Chains. *Inorganic Chemistry*, **2018**, 57, 13415-13422	5.1	16
48	In Situ Ligand Transformation for Two-Step Spin Crossover in Fe[M(CN)] (M = Mo, Nb) Cyanido-Bridged Frameworks. *Inorganic Chemistry*, **2019**, 58, 6052-6063	5.1	15
47	Cesium Cyano-Bridged CoIIMV (M = Mo and W) Layered Frameworks Exhibiting High Thermal Durability and Metamagnetism. *Crystal Growth and Design*, **2014**, 14, 6093-6100	3.5	15
46	Synthesis of a Chiral-structured Molecular Magnet Based on a Cyano-bridged CoIIV Bimetal Assembly. *Chemistry Letters*, **2011**, 40, 586-587	1.7	15
45	Three-dimensional Nickel(II) Heptacyanomolybdate(III)-based Magnet. *Chemistry Letters*, **2009**, 38, 810-811	1.7	15
44	pH-Switchable Through-Space Interaction of Organic Radicals within a Self-Assembled Coordination Cage. *Angewandte Chemie*, **2005**, 117, 5456-5459	3.6	14
43	Extremely low-frequency phonon material and its temperature- and photo-induced switching effects. *Chemical Science*, **2020**, 11, 8989-8998	9.4	13
42	Neodymium -diketonate showing slow magnetic relaxation and acting as a ratiometric thermometer based on near-infrared emission.. *RSC Advances*, **2019**, 9, 23444-23449	3.7	11
41	Tuning the Optical Properties of Magnetic Materials. *European Journal of Inorganic Chemistry*, **2020**, 2020, 2669-2678	2.3	10
40	SHG-active LnIII[MoI(CN)5(NO)]3 (Ln = Gd, Eu) magnetic coordination chains: a new route towards non-centrosymmetric molecule-based magnets. *CrystEngComm*, **2017**, 19, 18-22	3.3	10
39	Bis(aminoaryl) Carbon-Bridged Oligo(phenylenevinylene)s Expand the Limits of Electronic Couplings. *Angewandte Chemie*, **2017**, 129, 2944-2948	3.6	9
38	Structures and Physical Properties of Chemically Reduced Diindenosiloles and Their -Extended Derivatives. *Organometallics*, **2017**, 36, 2646-2653	3.8	9
37	Supramolecular Two-Dimensional Network Mediated via Sulfur- -Holes in a Conducting Molecular Crystal: Effects of Its Rigidity on Physical Properties and Structural Transition. *Crystal Growth and Design*, **2017**, 17, 2203-2210	3.5	9
36	Chiral LnIII(tetramethylurea)[WV(CN)8] Coordination Chains Showing Slow Magnetic Relaxation. *Crystal Growth and Design*, **2018**, 18, 1848-1856	3.5	8
35	Translation of the assembling trajectory by preorganisation: a study of the magnetic properties of 1D polymeric unpaired electrons immobilised on a discrete nanoscopic scaffold. *Chemical Communications*, **2015**, 51, 1206-9	5.8	7
34	Syntheses, crystal structures, and magnetic properties of MnNb and CoNb cyanido-bridged bimetallic assemblies. *Inorganica Chimica Acta*, **2015**, 425, 92-99	2.7	7
33	Two-dimensional octacyano-bridged Mn(II)Nb(IV) bimetal assembly with four different configurations of 3-hydroxypyridines. *Inorganic Chemistry Communication*, **2013**, 27, 47-50	3.1	7
32	FeII Spin-Crossover Phenomenon in the Pentadecanuclear {Fe9[Re(CN)8]6} Spherical Cluster. *Angewandte Chemie*, **2015**, 127, 5182-5186	3.6	6

31	Antiferromagnetic exchange and long-range magnetic ordering in supramolecular networks constructed of hexacyanido-bridged LnIII(3-pyridone)□CrIII (Ln = Gd, Tb) chains. *CrystEngComm*, **2018**, 20, 1271-1281	3.3	6
30	High Thermal Durability of Water-Free Copper-Octacyanotungsten-Based Magnets Containing Halogen Bonds. *Crystal Growth and Design*, **2011**, 11, 5561-5566	3.5	6
29	Poly[[hexa-aqua-tris-[□(2)-2,5-dihy-droxy-1,4-benzoquinona-to(2-)]diholmium(III)] octa-deca-hydrate]. *Acta Crystallographica Section E: Structure Reports Online*, **2010**, 66, m1300		6
28	Room-Temperature Bistability in a Ni-Fe Chain: Electron Transfer Controlled by Temperature, Pressure, Light, and Humidity. *Angewandte Chemie - International Edition*, **2021**, 60, 2330-2338	16.4	6
27	Chiral cyanido-bridged Mn□Nb magnets including halogen-bonds. *CrystEngComm*, **2018**, 20, 7236-7241	3.3	6
26	Octacyanidorhenate(V) Ion as an Efficient Linker for Hysteretic Two-Step Iron(II) Spin Crossover Switchable by Temperature, Light, and Pressure. *Angewandte Chemie*, **2020**, 132, 15871-15879	3.6	5
25	Magnetization-Induced Second Harmonic Generation (MSHG) in a Pentacyanidonitrosylmolybdate-Based Piezoelectric Ferrimagnet. *European Journal of Inorganic Chemistry*, **2018**, 2018, 1367-1370	2.3	5
24	Studies of Er(III)□W(V) compounds showing nonlinear optical activity and single-molecule magnetic properties. *CrystEngComm*, **2019**, 21, 5882-5889	3.3	5
23	Multilayered networks built from polyoxometalates and cyanometalates. *Polyhedron*, **2013**, 66, 116-122	2.7	5
22	Magnetic Lotus Root Based on a Cyanido-Bridged Co□W Metal Assembly. *Crystal Growth and Design*, **2017**, 17, 4511-4515	3.5	5
21	Synthesis, crystal structure, and magnetic properties of a copper(II) octacyanotungstate(V)-based magnet containing two types of organic ligands. *Polyhedron*, **2009**, 28, 1893-1897	2.7	5
20	Detection of Sub-Terahertz Raman Response and Nonlinear Optical Effects for Luminescent Yb(III) Complexes. *Advanced Optical Materials*,2101721	8.1	4
19	Indium Doping of Lead-Free Perovskite CsSnI. *Frontiers in Chemistry*, **2020**, 8, 564	5	3
18	Spin crossover phenomenon in a three-dimensional cyanido-bridged Fe□Mo assembly. *Journal of Applied Physics*, **2021**, 129, 105501	2.5	3
17	High thermal durability of a layered Cs4CoII[WV(CN)8]Cl3 framework: crystallographic and 133Cs NMR spectroscopic studies. *CrystEngComm*, **2016**, 18, 9236-9242	3.3	3
16	Tetra-potassium hepta-cyanido-molybdate(III) dihydrate. *Acta Crystallographica Section E: Structure Reports Online*, **2009**, 65, i79-i80		2
15	Magnetic Properties and Second Harmonic Generation of Noncentrosymmetric Cyanido-Bridged Ln(III)-W(V) Assemblies. *Inorganic Chemistry*, **2021**, 60, 12009-12019	5.1	2
14	Self-assembled three-dimensional molecule-based magnet composed of a trinuclear manganese unit and octacyanidotungstate. *Inorganica Chimica Acta*, **2019**, 488, 120-124	2.7	2

13	Observation of the correlation between the phonon frequency and long-range magnetic ordering on a MnW octacyanide molecule-based magnet. *Journal of Materials Chemistry C*, **2021**, 9, 10689-10696	7.1	2
12	Optical and Magnetic Functionalities on Molecule-Based Magnetic Materials. *Springer Series in Chemical Physics*, **2019**, 453-469	0.3	1
11	Vanadium pentacyanonitrosylmolybdate-based magnet exhibiting a high magnetic ordering temperature of 200 K. *Inorganic Chemistry Communication*, **2018**, 91, 20-23	3.1	1
10	catena-Poly[[[tetra-kis-(cyanido-κC)tungstate(IV)]-di-μ-cyanido-κ2C:N-bis-[diaqua-(2,2'-bipyridyl-κ2N,N')manganese(II)]-di-μ-cyan hexa-hydrate]. *Acta Crystallographica Section E: Structure Reports Online*, **2011**, 67, m702-3		1
9	Rücktitelbild: Room-Temperature Bistability in a NiFe Chain: Electron Transfer Controlled by Temperature, Pressure, Light, and Humidity (Angew. Chem. 5/2021). *Angewandte Chemie*, **2021**, 133, 2740-2740	3.6	1
8	Ratiometric and Colorimetric Optical Thermometers Using Emissive Dimeric and Trimeric {[Au(SCN)]} Moieties Generated in d-f Heterometallic Assemblies.. *Angewandte Chemie - International Edition*, **2022**, e202201265	16.4	1
7	Development of Nd (III)-Based Terahertz Absorbers Revealing Temperature Dependent Near-Infrared Luminescence. *International Journal of Molecular Sciences*, **2022**, 23, 6051	6.3	1
6	Room-Temperature Bistability in a NiFe Chain: Electron Transfer Controlled by Temperature, Pressure, Light, and Humidity. *Angewandte Chemie*, **2021**, 133, 2360-2368	3.6	0
5	Second harmonic generation on chiral cyanido-bridged Fe-Nb spin-crossover complexes. *Dalton Transactions*, **2021**, 50, 8524-8532	4.3	0
4	Contemporary Discoveries in the Copper Octacyanidometallate Photomagnetic Assemblies. *Springer Series in Chemical Physics*, **2021**, 149-168	0.3	0
3	Poly[[di-aqua-deca-μ2-cyanido-κ20 C:N-hexa-cyanido-κ6 C-bis-(μ2-5-methyl-pyrimidine-κ2 N:N')bis-(5-methyl-pyrimidine-κN)tricopper(II)ditungstate(V)] dihydrate]. *Acta Crystallographica Section E: Structure Reports Online*, **2014**, 70, m47-8		
2	Poly[[diaqua-deca-μ-cyanido-hexa-cyanidobis-(4-cyano-pyridine)di-μ-pyrimidine-tricopper(II)ditungsten(V)] dihydrate]. *Acta Crystallographica Section E: Structure Reports Online*, **2008**, 64, m1442-3		
1	Poly[aqua-hexa-benzimidazole-octa-μ-cyanido-octa-cyanidotricopper(II)ditungstate(V)]. *Acta Crystallographica Section E: Structure Reports Online*, **2010**, 66, m403-4		