

Koji Nakabayashi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Detection of Subâ€¦Terahertz Raman Response and Nonlinear Optical Effects for Luminescent Yb(III) Complexes. <i>Advanced Optical Materials</i> , 2022, 10, 2101721.	3.6	17
2	Ratiometric and Colorimetric Optical Thermometers Using Emissive Dimeric and Trimeric {[Au(SCN) ₂] ^{âˆ’}] _n Moieties Generated in <i>d</i> â€¦ <i>f</i> Heterometallic Assemblies. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	5
3	Ratiometric and Colorimetric Optical Thermometers Using Emissive Dimeric and Trimeric {[Au(SCN) ₂] ^{âˆ’}] _n Moieties Generated in <i>d</i> â€¦ <i>f</i> Heterometallic Assemblies. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202201265.	7.2	7
4	Development of Nd (III)-Based Terahertz Absorbers Revealing Temperature Dependent Near-Infrared Luminescence. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6051.	1.8	5
5	Holmium(ⁱⁱⁱ) molecular nanomagnets for optical thermometry exploring the luminescence re-absorption effect. <i>Chemical Science</i> , 2021, 12, 730-741.	3.7	46
6	Roomâ€¦Temperature Bistability in a Niâ€¦Fe Chain: Electron Transfer Controlled by Temperature, Pressure, Light, and Humidity. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2330-2338.	7.2	30
7	Roomâ€¦Temperature Bistability in a Niâ€¦Fe Chain: Electron Transfer Controlled by Temperature, Pressure, Light, and Humidity. <i>Angewandte Chemie</i> , 2021, 133, 2360-2368.	1.6	2
8	RÃ¼cktitelbild: Roomâ€¦Temperature Bistability in a Niâ€¦Fe Chain: Electron Transfer Controlled by Temperature, Pressure, Light, and Humidity (Angew. Chem. 5/2021). <i>Angewandte Chemie</i> , 2021, 133, 2740-2740.	1.6	1
9	Spin crossover phenomenon in a three-dimensional cyanido-bridged FeIIâ€¦MoIV assembly. <i>Journal of Applied Physics</i> , 2021, 129, 105501.	1.1	7
10	Magnetic Properties and Second Harmonic Generation of Noncentrosymmetric Cyanido-Bridged Ln(III)â€¦W(V) Assemblies. <i>Inorganic Chemistry</i> , 2021, 60, 12009-12019.	1.9	9
11	Manganeseâ€¦Octacyanidonitobateâ€¦Based Ferrimagnet Possessing Bridging Ligands with Disulfide Bonds. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 4681-4689.	1.0	3
12	Second harmonic generation on chiral cyanido-bridged Fe ^{II} â€¦Nb ^{IV} spin-crossover complexes. <i>Dalton Transactions</i> , 2021, 50, 8524-8532.	1.6	12
13	Contemporary Discoveries in the Copper Octacyanidometallate Photomagnetic Assemblies. <i>Springer Series in Chemical Physics</i> , 2021, , 149-168.	0.2	2
14	Observation of the correlation between the phonon frequency and long-range magnetic ordering on a MnW octacyanide molecule-based magnet. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10689-10696.	2.7	2
15	Indium Doping of Lead-Free Perovskite Cs ₂ SnI ₆ . <i>Frontiers in Chemistry</i> , 2020, 8, 564.	1.8	12
16	Extremely low-frequency phonon material and its temperature- and photo-induced switching effects. <i>Chemical Science</i> , 2020, 11, 8989-8998.	3.7	23
17	Octacyanidorhenate(V) Ion as an Efficient Linker for Hysteretic Twoâ€¦Step Iron(II) Spin Crossover Switchable by Temperature, Light, and Pressure. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15741-15749.	7.2	71
18	Tuning the Optical Properties of Magnetic Materials. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2669-2678.	1.0	13

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19	Octacyanidorhenate(V) Ion as an Efficient Linker for Hysteretic Two-Step Iron(II) Spin Crossover Switchable by Temperature, Light, and Pressure. <i>Angewandte Chemie</i> , 2020, 132, 15871-15879.	1.6	8
20	Proton Conductive Luminescent Thermometer Based on Near-Infrared Emissive $\{YbCo_2\}$ Molecular Nanomagnets. <i>Journal of the American Chemical Society</i> , 2020, 142, 3970-3979.	6.6	106
21	Neodymium η^2 -diketonate showing slow magnetic relaxation and acting as a ratiometric thermometer based on near-infrared emission. <i>RSC Advances</i> , 2019, 9, 23444-23449.	1.7	29
22	Studies of Er^III - W^V compounds showing nonlinear optical activity and single-molecule magnetic properties. <i>CrystEngComm</i> , 2019, 21, 5882-5889.	1.3	15
23	Dehydration-Hydration Switching of Single-Molecule Magnet Behavior and Visible Photoluminescence in a Cyanido-Bridged DyIII/CoIII Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 18211-18220.	6.6	93
24	Optical and Magnetic Functionalities on Molecule-Based Magnetic Materials. <i>Springer Series in Chemical Physics</i> , 2019, , 453-469.	0.2	1
25	Photoluminescent Lanthanide(III) Single-Molecule Magnets in Three-Dimensional Polycyanidocuprate(I)-Based Frameworks. <i>Chemistry - A European Journal</i> , 2019, 25, 11820-11825.	1.7	44
26	Effect of Noble Metals on Luminescence and Single-Molecule Magnet Behavior in the Cyanido-Bridged Ln^II -Ag and Ln^II -Au ($Ln = Dy, Yb, Er$) Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 5677-5687.	1.9	42
27	In Situ Ligand Transformation for Two-Step Spin Crossover in $FelI[MIV(CN)_8]_4$ ($M = Mo, Nb$) Cyanido-Bridged Frameworks. <i>Inorganic Chemistry</i> , 2019, 58, 6052-6063.	1.9	24
28	Humidity driven molecular switch based on photoluminescent $Dy^{III}Co^{III}$ single-molecule magnets. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4164-4172.	2.7	35
29	Self-assembled three-dimensional molecule-based magnet composed of a trinuclear manganese unit and octacyanidotungstate. <i>Inorganica Chimica Acta</i> , 2019, 488, 120-124.	1.2	3
30	Chiral Ln^{III} (tetramethylurea)- $[W^V(CN)_8]$ Coordination Chains Showing Slow Magnetic Relaxation. <i>Crystal Growth and Design</i> , 2018, 18, 1848-1856.	1.4	12
31	Vanadium pentacyanonitrosylmolybdate-based magnet exhibiting a high magnetic ordering temperature of 200 K. <i>Inorganic Chemistry Communication</i> , 2018, 91, 20-23.	1.8	1
32	Magnetization-Induced Second Harmonic Generation (MSHG) in a Pentacyanonitrosylmolybdate-Based Piezoelectric Ferrimagnet. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1367-1370.	1.0	5
33	Antiferromagnetic exchange and long-range magnetic ordering in supramolecular networks constructed of hexacyanido-bridged Ln^{III} (3-pyridone)- Cr^{III} ($Ln = Gd, Tb$) chains. <i>CrystEngComm</i> , 2018, 20, 1271-1281.	1.3	7
34	Acid-Responsive Conductive Nanofiber of Tetrabenzoporphyrin Made by Solution Processing. <i>Journal of the American Chemical Society</i> , 2018, 140, 62-65.	6.6	24
35	Achieving white light emission and increased magnetic anisotropy by transition metal substitution in functional materials based on dinuclear Dy^{III} (4-pyridone) $[M^{III}(CN)_6]_3$ ($M = Co, Rh$) molecules. <i>Journal of Materials Chemistry C</i> , 2018, 6, 473-481.	2.7	44
36	Chiral cyanido-bridged Mn^II - Nb magnets including halogen-bonds. <i>CrystEngComm</i> , 2018, 20, 7236-7241.	1.3	9

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37	Dehydration-Triggered Charge Transfer and High Proton Conductivity in $(\text{H}_3\text{O})[\text{Ni}^{\text{III}}(\text{cyclam})][\text{M}^{\text{II}}(\text{CN})_6]$ ($\text{M} = \text{Ru}, \text{Os}$) Cyanide-Bridged Chains. <i>Inorganic Chemistry</i> , 2018, 57, 13415-13422.	1.9	20
38	TbCo and Tb _{0.5} Dy _{0.5} Co layered cyanido-bridged frameworks for construction of colorimetric and ratiometric luminescent thermometers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8372-8384.	2.7	48
39	Bis(aminoaryl) Carbon-Bridged Oligo(phenylenevinylene)s Expand the Limits of Electronic Couplings. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2898-2902.	7.2	50
40	Bis(aminoaryl) Carbon-Bridged Oligo(phenylenevinylene)s Expand the Limits of Electronic Couplings. <i>Angewandte Chemie</i> , 2017, 129, 2944-2948.	1.6	12
41	Fine Tuning of Multicolored Photoluminescence in Crystalline Magnetic Materials Constructed of Trimetallic $\text{Eu}_x\text{Tb}_{1-x}[\text{Co}(\text{CN})_6]$ Cyanido-Bridged Chains. <i>Inorganic Chemistry</i> , 2017, 56, 5239-5252.	1.9	47
42	Structures and Physical Properties of Chemically Reduced Diindenolones and Their π -Extended Derivatives. <i>Organometallics</i> , 2017, 36, 2646-2653.	1.1	9
43	Supramolecular Two-Dimensional Network Mediated via Sulfur TM s π -Holes in a Conducting Molecular Crystal: Effects of Its Rigidity on Physical Properties and Structural Transition. <i>Crystal Growth and Design</i> , 2017, 17, 2203-2210.	1.4	10
44	Magnetic Lotus Root Based on a Cyanido-Bridged Co ^W Metal Assembly. <i>Crystal Growth and Design</i> , 2017, 17, 4511-4515.	1.4	5
45	SHG-active $\text{Ln}^{\text{III}}[\text{Mo}^{\text{I}}(\text{CN})_5(\text{NO})]_3$ ($\text{Ln} = \text{Gd}, \text{Eu}$) magnetic coordination chains: a new route towards non-centrosymmetric molecule-based magnets. <i>CrystEngComm</i> , 2017, 19, 18-22.	1.3	15
46	White Light Emissive Dy^{III} Single-Molecule Magnets Sensitized by Diamagnetic $[\text{Co}^{\text{III}}(\text{CN})_6]_3$ Linkers. <i>Chemistry - A European Journal</i> , 2016, 22, 7371-7375.	1.7	83
47	High thermal durability of a layered $\text{Cs}_4\text{CoII}[\text{W}(\text{CN})_8]\text{Cl}_3$ framework: crystallographic and ¹³³ Cs NMR spectroscopic studies. <i>CrystEngComm</i> , 2016, 18, 9236-9242.	1.3	3
48	In Situ Generation of $\text{Co}^{\text{III}}[\text{Salen}]$ Complexes for Copolymerization of Propylene Oxide and CO_2 . <i>Chemistry - A European Journal</i> , 2016, 22, 13677-13681.	1.7	24
49	Synthesis of the Single-Crystalline Form and First-Principles Calculations of Photomagnetic Copper(II) Octacyanomolybdate(IV). <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1980-1988.	1.0	17
50	Tuning of Charge Transfer Assisted Phase Transition and Slow Magnetic Relaxation Functionalities in $\{\text{Fe}_9[\text{Co}_x\text{W}(\text{CN})_8]_6\}$ ($x = 0-9$) Molecular Solid Solution. <i>Journal of the American Chemical Society</i> , 2016, 138, 1635-1646.	6.6	76
51	Fe^{II} Spin-Crossover Phenomenon in the Pentadecanuclear $\{\text{Fe}_9[\text{Re}(\text{CN})_8]_6\}$ Spherical Cluster. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5093-5097.	7.2	58
52	Visible to Near-Infrared Emission from $\text{Ln}^{\text{III}}(\text{Bis-oxazoline})[\text{Mo}^{\text{V}}(\text{CN})_8]$ ($\text{Ln} = \text{Ce}-\text{Yb}$) Magnetic Coordination Polymers Showing Unusual Lanthanide-Dependent Sliding of Cyanido-Bridged Layers. <i>Inorganic Chemistry</i> , 2015, 54, 4724-4736.	1.9	44
53	Translation of the assembling trajectory by preorganisation: a study of the magnetic properties of 1D polymeric unpaired electrons immobilised on a discrete nanoscopic scaffold. <i>Chemical Communications</i> , 2015, 51, 1206-1209.	2.2	9
54	Syntheses, crystal structures, and magnetic properties of $\text{Mn}-\text{Nb}$ and $\text{Co}-\text{Nb}$ cyanido-bridged bimetallic assemblies. <i>Inorganica Chimica Acta</i> , 2015, 425, 92-99.	1.2	9

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55	Multifunctionality in Bimetallic Ln ^{III} [W ^V (CN) ₈] ³⁺ (Ln=Gd, Nd) Coordination Helices: Optical Activity, Luminescence, and Magnetic Coupling. <i>Chemistry - A European Journal</i> , 2014, 20, 7144-7159.	1.7	50
56	Poly[[diaquadeca-1/4-cyanido-20C:N-hexacyanido-6C-bis(1/4-5-methylpyrimidine-2N:N ⁺)bis(5-methylpyrimidine-1N)tricopper(II)] dihydrate]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, m47-m48.	0.2	0
57	Cesium Cyano-Bridged Co ^{II} –M ^V (M = Mo and W) Layered Frameworks Exhibiting High Thermal Durability and Metamagnetism. <i>Crystal Growth and Design</i> , 2014, 14, 6093-6100.	1.4	16
58	Green to Red Luminescence Switchable by Excitation Light in Cyanido-Bridged Tb ^{III} –W ^V Ferromagnet. <i>Chemistry of Materials</i> , 2014, 26, 4072-4075.	3.2	58
59	Charge transfer phase transition with reversed thermal hysteresis loop in the mixed-valence Fe ₉ [W(CN) ₈] ₆ ·xMeOH cluster. <i>Chemical Communications</i> , 2014, 50, 3484.	2.2	41
60	Multilayered networks built from polyoxometalates and cyanometalates. <i>Polyhedron</i> , 2013, 66, 116-122.	1.0	5
61	Thermal switching between blue and red luminescence in magnetic chiral cyanido-bridged Eu ^{III} –W ^V coordination helices. <i>RSC Advances</i> , 2013, 3, 1065-1068.	1.7	27
62	Two-dimensional octacyano-bridged Mn(II)–Nb(IV) bimetal assembly with four different configurations of 3-hydroxypyridines. <i>Inorganic Chemistry Communication</i> , 2013, 27, 47-50.	1.8	9
63	Synthesis and Characterization of B-Heterocyclic $\dot{\text{C}}$ -Radical and Its Reactivity as a Boryl Radical. <i>Journal of the American Chemical Society</i> , 2012, 134, 19989-19992.	6.6	101
64	Conjunction of Chirality and Slow Magnetic Relaxation in the Supramolecular Network Constructed of Crossed Cyano-Bridged Co ^{II} –W ^V Molecular Chains. <i>Journal of the American Chemical Society</i> , 2012, 134, 16151-16154.	6.6	73
65	A Polyoxometalate–Cyanometalate Multilayered Coordination Network. <i>Inorganic Chemistry</i> , 2012, 51, 4897-4899.	1.9	31
66	High Thermal Durability of Water-Free Copper-Octacyanotungsten-Based Magnets Containing Halogen Bonds. <i>Crystal Growth and Design</i> , 2011, 11, 5561-5566.	1.4	6
67	Air- and Heat-Stable Planar Tri- <i>p</i> -quinodimethane with Distinct Biradical Characteristics. <i>Journal of the American Chemical Society</i> , 2011, 133, 16342-16345.	6.6	121
68	Synthesis of a Chiral-structured Molecular Magnet Based on a Cyano-bridged Co–W Bimetal Assembly. <i>Chemistry Letters</i> , 2011, 40, 586-587.	0.7	15
69	<i>catena</i> -Poly[[tetrakis(cyanido- <i>C</i>)tungstate(IV)]-di-1/4-cyanido-4- <i>C</i> : <i>N</i> -bis[diaqua(2,2- <i>bipyridine</i>)] hexahydrate]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, m702-m703.	0.2	2
70	Poly[[hexaaquatrakis(1/4-2,5-dihydroxy-1,4-benzoquinonato(2-))]diholmium(III)] octadecahydrate]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, m1300-m1300.	0.2	6
71	Vanadium(II) Heptacyanomolybdate(III)-Based Magnet Exhibiting a High Curie Temperature of 110 K. <i>Inorganic Chemistry</i> , 2010, 49, 1298-1300.	1.9	63
72	Poly[aquaahexabenzimidazoleocta-1/4-cyanido-octacyanidotricopper(II)ditungstate(V)]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, m403-m404.	0.2	0

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73	Synthesis, crystal structure, and magnetic properties of a copper(II) octacyanotungstate(V)-based magnet containing two types of organic ligands. <i>Polyhedron</i> , 2009, 28, 1893-1897.	1.0	5
74	In Situ Spectroscopic, Electrochemical, and Theoretical Studies of the Photoinduced Host-Guest Electron Transfer that Precedes Unusual Host-Mediated Alkane Photooxidation. <i>Journal of the American Chemical Society</i> , 2009, 131, 4764-4768.	6.6	108
75	Monometallic Lanthanoid Assembly Showing Ferromagnetism with a Curie Temperature of 11 K. <i>Inorganic Chemistry</i> , 2009, 48, 8647-8649.	1.9	32
76	Tetrapotassium heptacyanidomolybdate(III) dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, i79-i80.	0.2	3
77	Three-dimensional Nickel(II) Heptacyanomolybdate(III)-based Magnet. <i>Chemistry Letters</i> , 2009, 38, 810-811.	0.7	17
78	Photoreversible Switching of Magnetic Coupling in a Two-dimensional Copper Octacyanomolybdate. <i>Chemistry Letters</i> , 2009, 38, 338-339.	0.7	24
79	A Self-Assembled Spin Cage. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2046-2048.	7.2	68
80	Poly[[diaquadeca-1/4-cyano-hexacyanidobis(4-cyanopyridine)di-1/4-pyrimidine-tricopper(II)ditungsten(V)] dihydrate]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, m1442-m1443.	0.2	0
81	Manipulating the Through-Space Spin-Spin Interaction of Organic Radicals in the Confined Cavity of a Self-Assembled Cage. <i>Chemistry - an Asian Journal</i> , 2007, 2, 164-170.	1.7	36
82	pH-Switchable Through-Space Interaction of Organic Radicals within a Self-Assembled Coordination Cage. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5322-5325.	7.2	57
83	Cavity-Induced Spin-Spin Interaction between Organic Radicals within a Self-Assembled Coordination Cage. <i>Journal of the American Chemical Society</i> , 2004, 126, 16694-16695.	6.6	90