

Hiroko Tokoro

List of Publications by Year in descending order

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112
papers

6,026
citations

101543

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121
docs citations

121
times ranked

4242
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the vibrational density of states of sodium carboxymethyl starch glass via terahertz time-domain spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 266, 120414.	3.9	5
2	Optical Properties of Epsilon Iron Oxide Nanoparticles in the Millimeter- and Terahertz-Wave Regions. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 538-552.	3.2	24
3	Pressure effect on long-term heat storage ceramics based on Mg-substituted LaTi_3O_5 . <i>Materials Advances</i> , 2022, 3, 4824-4830.	5.4	5
4	A magnetic field-switchable millimeter wave switch for 81, 94, and 140 GHz based on metal substituted La -iron oxide. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10815-10822.	5.5	2
5	Advances in magnetic films of epsilon-iron oxide toward next-generation high-density recording media. <i>Dalton Transactions</i> , 2021, 50, 452-459.	3.3	13
6	Out-of-equilibrium lattice response to photo-induced charge-transfer in a MnFe Prussian blue analogue. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6773-6780.	5.5	9
7	Strain wave pathway to semiconductor-to-metal transition revealed by time-resolved X-ray powder diffraction. <i>Nature Communications</i> , 2021, 12, 1239.	12.8	29
8	Innenteilbild: Exploring Ultrafast Photoswitching Pathways in RbMnFe Prussian Blue Analogue (<i>Angew. Chem.</i> 43/2021). <i>Angewandte Chemie</i> , 2021, 133, 23214-23214.	2.0	0
9	Exploring Ultrafast Photoswitching Pathways in RbMnFe Prussian Blue Analogue. <i>Angewandte Chemie</i> , 2021, 133, 23455.	2.0	1
10	Exploring Ultrafast Photoswitching Pathways in RbMnFe Prussian Blue Analogue. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23267-23273.	13.8	11
11	Reversible photoswitchable ferromagnetic thin film based on a cyanido-bridged RbCuMo complex. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3081-3087.	5.5	14
12	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.	5.5	2
13	Magnetic Pole Flip by Millimeter Wave. <i>Advanced Materials</i> , 2020, 32, e2004897.	21.0	48
14	Landau theory for non-symmetry-breaking electronic instability coupled to symmetry-breaking order parameter applied to Prussian blue analog. <i>Physical Review B</i> , 2020, 102, .	3.2	26
15	Crystal growth control of rod-shaped La -Fe ₂ O ₃ nanocrystals. <i>RSC Advances</i> , 2020, 10, 39611-39616.	3.6	5
16	Magnetic Recording: Magnetic Pole Flip by Millimeter Wave (<i>Adv. Mater.</i> 48/2020). <i>Advanced Materials</i> , 2020, 32, 2070361.	21.0	0
17	Synthesis of La -Ti ₃ O ₅ nanocrystals using a block copolymer. <i>Materials Today Energy</i> , 2020, 18, 100525.	4.7	4
18	Sigmoidally hydrochromic molecular porous crystal with rotatable dendrons. <i>Communications Chemistry</i> , 2020, 3, .	4.5	14

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19	Detection of boson peak and fractal dynamics of disordered systems using terahertz spectroscopy. <i>Physical Review E</i> , 2020, 102, 022502.	2.1	19
20	Extremely low-frequency phonon material and its temperature- and photo-induced switching effects. <i>Chemical Science</i> , 2020, 11, 8989-8998.	7.4	23
21	Synthesis of nanosize tetratitanium heptoxide and its anomalous phase transition. <i>Materials Research Letters</i> , 2020, 8, 261-267.	8.7	5
22	A photoswitchable polar crystal that exhibits superionic conduction. <i>Nature Chemistry</i> , 2020, 12, 338-344.	13.6	73
23	Boson Peak Investigation of Unusually Disproportionated Amorphous Silicon Monoxide via Terahertz Spectroscopy. , 2020, , .		0
24	Low-pressure-responsive heat-storage ceramics for automobiles. <i>Scientific Reports</i> , 2019, 9, 13203.	3.3	23
25	Single Laser Shot Photoinduced Phase Transition of Rubidium Manganese Hexacyanoferrate Investigated by X-ray Diffraction. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3121-3121.	2.0	1
26	Thermally induced and photoinduced phase transitions in rubidium manganese hexacyanoferrate combining charge transfer and structural reorganization. <i>Comptes Rendus Chimie</i> , 2019, 22, 498-507.	0.5	10
27	Single Laser Shot Photoinduced Phase Transition of Rubidium Manganese Hexacyanoferrate Investigated by X-ray Diffraction. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3142-3147.	2.0	10
28	Humidity sensitivity, organic molecule sensitivity, and superionic conductivity on porous magnets based on cyano-bridged bimetal assemblies. <i>Coordination Chemistry Reviews</i> , 2019, 380, 572-583.	18.8	31
29	Direct Observation of Chemical Conversion from Fe_3O_4 to $\mu\text{-Fe}_2\text{O}_3$ by a Nanosize Wet Process. <i>Chemistry of Materials</i> , 2018, 30, 2888-2894.	6.7	24
30	Highly Oriented Magnetic Film Composed of Ga-Substituted μ -Iron Oxide and the Angular Dependence of the Magnetic Hysteresis Loops. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 836-836.	2.0	0
31	Theoretical prediction of a charge-transfer phase transition. <i>Scientific Reports</i> , 2018, 8, 63.	3.3	26
32	Highly Oriented Magnetic Film Composed of Ga-Substituted μ -Iron Oxide and the Angular Dependence of the Magnetic Hysteresis Loops. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 847-851.	2.0	4
33	Second-Harmonic and Terahertz Generation in a Prussian-Blue Analogue. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 378-384.	2.0	3
34	Probing Transient Photoinduced Charge Transfer in Prussian Blue Analogues with Time-Resolved XANES and Optical Spectroscopy. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 272-277.	2.0	24
35	First-Principles Calculations and Optical Absorption Spectrum of a Light-Colored Aluminum-Substituted μ -Iron Oxide Magnet. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 530-530.	2.0	1
36	Electronic structure and correlation in $\langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:mtext} \rangle \hat{a}^{\prime\prime} \langle \text{mml:mtext} \rangle \langle \text{mathvariant="normal"} \rangle i \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{I} \langle \text{mml:mi} \rangle \langle \text{mml:mtext} \rangle \hat{a}^{\prime\prime} \langle \text{mml:mtext} \rangle$	3.2	15

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37	First-Principles Calculations and Optical Absorption Spectrum of a Light-Colored Aluminum-Substituted μ -Iron Oxide Magnet. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 531-534.	2.0	4
38	Cesium ion detection by terahertz light. <i>Scientific Reports</i> , 2017, 7, 8088.	3.3	30
39	Large Coercive Field of 45 kOe in a Magnetic Film Based on Metal-Substituted μ -Iron Oxide. <i>Journal of the American Chemical Society</i> , 2017, 139, 13268-13271.	13.7	51
40	Large optical third-order nonlinearities in a switchable Prussian blue analogue. <i>Optical Materials Express</i> , 2017, 7, 444.	3.0	5
41	Self-Assembled Fibers Containing Stable Organic Radical Moieties: Alignment and Magnetic Properties in Liquid Crystals. <i>Chemistry - A European Journal</i> , 2016, 22, 8872-8878.	3.3	16
42	Mesoscopic bar magnet based on μ -Fe ₂ O ₃ hard ferrite. <i>Scientific Reports</i> , 2016, 6, 27212.	3.3	37
43	THz spectroscopy and THz generation in a Prussian blue analogue. , 2016, , .		0
44	Photo-induced magnetization and first-principles calculations of a two-dimensional cyanide-bridged Co-W bimetal assembly. <i>Dalton Transactions</i> , 2016, 45, 19249-19256.	3.3	14
45	The solvent effect on the structural and magnetic features of bidentate ligand-capped {Co ^{II} ₉ [W ^V (CN) ₈] ₆ } single-molecule magnets. <i>CrystEngComm</i> , 2016, 18, 1495-1504.	2.6	15
46	Self-organized formation of spherical porous granules only by one-step heat-treatment in MgO-Fe ₂ O ₃ -Nb ₂ O ₅ system. <i>Materials Letters</i> , 2016, 163, 43-46.	2.6	3
47	Zeta-Fe ₂ O ₃ - A new stable polymorph in iron(III) oxide family. <i>Scientific Reports</i> , 2015, 5, 15091.	3.3	81
48	Multifunctional Material: Bistable Metal-Cyanide Polymer of Rubidium Manganese Hexacyanoferrate. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 227-239.	3.2	33
49	Nanometer-size hard magnetic ferrite exhibiting high optical-transparency and nonlinear optical-magnetolectric effect. <i>Scientific Reports</i> , 2015, 5, 14414.	3.3	83
50	Magnetic ground state of nanosized μ -Fe ₂ O ₃ and its remarkable electronic features. <i>RSC Advances</i> , 2015, 5, 49719-49727.	3.6	20
51	Structural Phase Transition between μ -Ti ₃ O ₅ and μ -Ti ₃ O ₅ by Breaking of a One-Dimensionally Conducting Pathway. <i>Crystal Growth and Design</i> , 2015, 15, 653-657.	3.0	44
52	External stimulation-controllable heat-storage ceramics. <i>Nature Communications</i> , 2015, 6, 7037.	12.8	82
53	Ultrafast dynamics of photoinduced semiconductor-to-metal transition in the optical switching nano-oxide Ti ₃ O ₅ . <i>Physical Review B</i> , 2014, 90, .	3.2	24
54	90-degree optical switching of output second-harmonic light in chiral photomagnet. <i>Nature Photonics</i> , 2014, 8, 65-71.	31.4	276

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55	Spin-reorientation transition in $\text{É-In}_{0.24}\text{Fe}_{1.76}\text{O}_3$ nanowires. <i>Physics of the Solid State</i> , 2014, 56, 1795-1798.	0.6	11
56	Humidity dependency of the thermal phase transition of a cyano bridged $\text{Co}^{\text{II}}\text{W}$ bimetal assembly. <i>New Journal of Chemistry</i> , 2014, 38, 1950-1954.	2.8	18
57	Magnetic phase transition in $\text{É-In}_x\text{Fe}_{2-x}\text{O}_3$ nanowires. <i>Physics of the Solid State</i> , 2013, 55, 2252-2259.	0.6	12
58	Room-temperature thermally induced relaxation effect in a two-dimensional cyano-bridged Cu-Mo bimetal assembly and thermodynamic analysis of the relaxation process. <i>AIP Advances</i> , 2013, 3, .	1.3	7
59	Hard Magnetic Ferrite: $\mu\text{-Fe}_2\text{O}_3$. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 897-907.	3.2	54
60	Magnetic Dimensional Crossover from Two- to Three-Dimensional Heisenberg Magnetism in a $\text{Cu}^{\text{II}}\text{W}$ Cyano-Bridged Bimetal Assembly. <i>Crystal Growth and Design</i> , 2012, 12, 2013-2017.	3.0	9
61	Hard magnetic ferrite with a gigantic coercivity and high frequency millimetre wave rotation. <i>Nature Communications</i> , 2012, 3, 1035.	12.8	184
62	Ultrafast dynamics of reversible photoinduced phase transitions in rubidium manganese hexacyanoferrate investigated by midinfrared CN vibration spectroscopy. <i>Physical Review B</i> , 2012, 86, .	3.2	19
63	Zero Thermal Expansion Fluid and Oriented Film Based on a Bistable Metal-Cyanide Polymer. <i>Chemistry of Materials</i> , 2012, 24, 1324-1330.	6.7	38
64	Photomagnetism in Cyano-Bridged Bimetal Assemblies. <i>Accounts of Chemical Research</i> , 2012, 45, 1749-1758.	15.6	260
65	The phase transition of $\text{É-In}_x\text{Fe}_2\text{O}_3$ nanomagnets with a large thermal hysteresis loop (invited). <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	13
66	A Cyano-Bridged Vanadium-Niobium Bimetal Assembly Exhibiting a High Curie Temperature of 210 K. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2649-2652.	2.0	32
67	Photoinduced Magnetization with a High Curie Temperature and a Large Coercive Field in a $\text{Co}^{\text{II}}\text{W}$ Bimetallic Assembly. <i>Advanced Functional Materials</i> , 2012, 22, 2089-2093.	14.9	81
68	Magnetic Materials: Photoinduced Magnetization with a High Curie Temperature and a Large Coercive Field in a $\text{Co}^{\text{II}}\text{W}$ Bimetallic Assembly (Adv. Funct. Mater. 10/2012). <i>Advanced Functional Materials</i> , 2012, 22, 2209-2209.	14.9	0
69	Supramolecular approach to the formation of magneto-active physical gels. <i>Chemical Science</i> , 2012, 3, 3007.	7.4	32
70	Growth Dynamics of Photoinduced Phase Domain in Cyano-Complex Studied by Boundary Sensitive Raman Spectroscopy. <i>Acta Physica Polonica A</i> , 2012, 121, 375-384.	0.5	5
71	High Proton Conduction in a Chiral Ferromagnetic Metal-Organic Quartz-like Framework. <i>Journal of the American Chemical Society</i> , 2011, 133, 15328-15331.	13.7	302
72	Novel magnetic functionalities of Prussian blue analogs. <i>Dalton Transactions</i> , 2011, 40, 6825.	3.3	202

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73	Experimental access to elastic and thermodynamic properties of RbMnFe(CN) ₆ . Journal of Applied Physics, 2011, 109, .	2.5	25
74	Nanoscale Effects on the Stability of the Ti_3O_5 Polymorph. Chemistry - an Asian Journal, 2011, 6, 1886-1890.	3.3	26
75	Light-induced spin-crossover magnet. Nature Chemistry, 2011, 3, 564-569.	13.6	479
76	Effect of lattice deformation on photoinduced phase transition process in RbMn[Fe(CN) ₆]. Physica Status Solidi (B): Basic Research, 2011, 248, 482-485.	1.5	2
77	Dynamics of photoinduced phase transitions in hexacyanoferrate studied by infrared and Raman spectroscopy. Physica Status Solidi (B): Basic Research, 2011, 248, 477-481.	1.5	7
78	Photoinduced phase switching dynamics in RbMn[Fe(CN) ₆] probed by accumulation free mid-infrared spectroscopy. Physica Status Solidi (B): Basic Research, 2011, 248, 491-494.	1.5	8
79	Humidity-sensitive Magnet Composed of a Cyano-bridged Co ^{II} -Nb ^{IV} Dimetallic Assembly. European Journal of Inorganic Chemistry, 2010, 2010, 4079-4082.	2.0	32
80	Synthesis of a metal oxide with a room-temperature photoreversible phase transition. Nature Chemistry, 2010, 2, 539-545.	13.6	221
81	High Proton Conductivity in Prussian Blue Analogues and the Interference Effect by Magnetic Ordering. Journal of the American Chemical Society, 2010, 132, 6620-6621.	13.7	222
82	Evidence for complex multistability in photomagnetic cobalt hexacyanoferrates from combined magnetic and synchrotron x-ray diffraction measurements. Physical Review B, 2009, 79, .	3.2	21
83	Pressure-Induced Octahedral Rotation in RbMn[Fe(CN) ₆]. Journal of the Physical Society of Japan, 2009, 78, 013602.	1.6	17
84	Extremely Gradual Spin-Crossover Phenomenon in a Cyano-Bridged Fe ^{II} -Mo Bimetallic Assembly. Journal of Physical Chemistry C, 2009, 113, 15751-15755.	3.1	20
85	Threshold phenomena under photoexcitation of spin-crossover materials with cooperativity due to elastic interactions. Physical Review B, 2009, 80, .	3.2	36
86	Electric-Field-Induced Charge-Transfer Phase Transition: A Promising Approach Toward Electrically Switchable Devices. Journal of the American Chemical Society, 2009, 131, 15049-15054.	13.7	143
87	Visible-Light-Induced Reversible Photomagnetism in Rubidium Manganese Hexacyanoferrate. Chemistry of Materials, 2008, 20, 423-428.	6.7	128
88	Crystal Structure, Charge-Transfer-Induced Spin Transition, and Photoreversible Magnetism in a Cyano-Bridged Cobalt ^{II} -Tungstate Bimetallic Assembly. Chemistry of Materials, 2008, 20, 3048-3054.	6.7	128
89	Continuous Change of Second-order Nonlinear Optical Activity in a Cyano-bridged Coordination Polymer. Journal of Physical Chemistry C, 2008, 112, 13095-13098.	3.1	24
90	Realization of the mean-field universality class in spin-crossover materials. Physical Review B, 2008, 77, .	3.2	113

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91	Phase collapse caused by blue-light irradiation in a cyanobridged coordination polymer. Applied Physics Letters, 2008, 93, .	3.3	24
92	Spectroscopic ellipsometry investigations of the thermally induced first-order transition of $RbMn[Fe(CN)_6] \cdot 1.7H_2O$. Physical Review B, 2008, 78, .	3.2	24
93	Photoinduced charge transfer phase transition in cesium manganese hexacyanoferrate. Journal of Applied Physics, 2007, 101, 09E101.	2.5	3
94	Thermal spin transition in $[Fe(NH_2)_3]Br_2$ investigated by spectroscopic ellipsometry. Physical Review B, 2007, 75, .	3.2	28
95	Extended Charge-Transfer State of $RbMn[Fe(CN)_6]$. Journal of the Physical Society of Japan, 2007, 76, 123602.	1.6	7
96	Coexistence of Ferroelectricity and Ferromagnetism in a Rubidium Manganese Hexacyanoferrate. Angewandte Chemie - International Edition, 2007, 46, 3238-3241.	13.8	251
97	Synthesis, Crystal Structure, and Magnetic Properties of $Rb_2[Fe(CN)_6] \cdot 3H_2O$ Nanorod-Shaped Magnets. Advanced Functional Materials, 2007, 17, 2278-2282.	14.9	53
98	Photo-induced charge-transfer phase transition of rubidium manganese hexacyanoferrate in ferromagnetic and paramagnetic states. Journal of Magnetism and Magnetic Materials, 2007, 310, 1422-1428.	2.3	25
99	Single Crystal of a Prussian Blue Analog based on Rubidium Manganese Hexacyanoferrate. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 1134-1136.	1.2	26
100	Nonlinear magneto-optical effects and photomagnetism of electrochemically synthesized molecule-based magnets. Journal of Solid State Electrochemistry, 2007, 11, 763-772.	2.5	9
101	Photoinduced Magnetization in Copper Octacyanomolybdate. Journal of the American Chemical Society, 2006, 128, 270-277.	13.7	257
102	Huge thermal hysteresis loop and a hidden stable phase in a charge-transfer phase transition of $Rb_{0.64}Mn[Fe(CN)_6] \cdot 1.7H_2O$. Physical Review B, 2006, 73, .	3.2	52
103	The dielectric constant in a thermal phase transition magnetic material composed of rubidium manganese hexacyanoferrate observed by spectroscopic ellipsometry. Journal of Materials Chemistry, 2005, 15, 3291.	6.7	41
104	Nonlinear Magneto-optical Effects Caused by Piezoelectric Ferromagnetism in $F_4\bar{1}3m$ -type Prussian Blue Analogues. Journal of the American Chemical Society, 2005, 127, 11604-11605.	13.7	113
105	A Surprisingly Large Thermal Hysteresis Loop in a Reversible Phase Transition of $Rb_xMn[Fe(CN)_6](x+2)/3 \cdot zH_2O$. Chemistry of Materials, 2005, 17, 81-84.	6.7	87
106	Optical switching between bistable phases in rubidium manganese hexacyanoferrate at room temperature. Journal of Applied Physics, 2005, 97, 10M508.	2.5	60
107	Magnetic specific heat of the low-temperature phase of rubidium manganese hexacyanoferrate. Chemical Physics Letters, 2004, 388, 379-383.	2.6	17
108	A Large Thermal Hysteresis Loop Produced by a Charge-Transfer Phase Transition in a Rubidium Manganese Hexacyanoferrate. Inorganic Chemistry, 2004, 43, 5231-5236.	4.0	150

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109	One-shot-laser-pulse-induced demagnetization in rubidium manganese hexacyanoferrate. Applied Physics Letters, 2003, 82, 1245-1247.	3.3	154
110	Direct Observation of Charge Transfer in Double-Perovskite-Like RbMn[Fe(CN) ₆]. Physical Review Letters, 2003, 91, 255502.	7.8	87
111	Structural Transition Induced by Charge-Transfer in RbMn[Fe(CN) ₆] â€“Investigation by Synchrotron-Radiation X-ray Powder Analysisâ€“. Journal of the Physical Society of Japan, 2002, 71, 2078-2081.	1.6	59
112	Observation of Spin Transition in an Octahedrally Coordinated Manganese(II) Compound. Journal of Physical Chemistry B, 2002, 106, 2423-2425.	2.6	125