Tomoyuki Matsuda

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Coexistence of Ferroelectricity and Ferromagnetism in a Rubidium Manganese Hexacyanoferrate. Angewandte Chemie - International Edition, 2007, 46, 3238-3241.	13.8	251
2	Synthesis of a metal oxide with a room-temperature photoreversible phase transition. Nature Chemistry, 2010, 2, 539-545.	13.6	221
3	A sodium manganese ferrocyanide thin film for Na-ion batteries. Chemical Communications, 2013, 49, 2750.	4.1	162
4	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
5	Visible-Light-Induced Reversible Photomagnetism in Rubidium Manganese Hexacyanoferrate. Chemistry of Materials, 2008, 20, 423-428.	6.7	128
6	Crystal Structure, Charge-Transfer-Induced Spin Transition, and Photoreversible Magnetism in a Cyano-Bridged Cobaltâˆ'Tungstate Bimetallic Assembly. Chemistry of Materials, 2008, 20, 3048-3054.	6.7	128
7	Nonlinear Magnetooptical Effects Caused by Piezoelectric Ferromagnetism inF4Ì„3m-type Prussian Blue Analogues. Journal of the American Chemical Society, 2005, 127, 11604-11605.	13.7	113
8	Cobalt Hexacyanoferrate as Cathode Material for Na⁺Secondary Battery. Applied Physics Express, 2013, 6, 025802.	2.4	103
9	A Surprisingly Large Thermal Hysteresis Loop in a Reversible Phase Transition of RbxMn[Fe(CN)6](x+2)/3Â·zH2O. Chemistry of Materials, 2005, 17, 81-84.	6.7	87
10	Observation of an Iron(II) Spinâ€Crossover in an Iron Octacyanoniobateâ€Based Magnet. Angewandte Chemie - International Edition, 2008, 47, 6885-6887.	13.8	82
11	Photoinduced Magnetization with a High Curie Temperature and a Large Coercive Field in a Coâ€W Bimetallic Assembly. Advanced Functional Materials, 2012, 22, 2089-2093.	14.9	81
12	Thin Film Electrode of Prussian Blue Analogue for Li-ion Battery. Applied Physics Express, 2011, 4, 047101.	2.4	77
13	Symmetry Switch of Cobalt Ferrocyanide Framework by Alkaline Cation Exchange. Journal of the American Chemical Society, 2010, 132, 12206-12207.	13.7	68
14	Universal thermal response of the Prussian blue lattice. Physical Review B, 2009, 79, .	3.2	66
15	Optical switching between bistable phases in rubidium manganese hexacyanoferrate at room temperature. Journal of Applied Physics, 2005, 97, 10M508.	2.5	60
16	Degradation diagnosis of lithium-ion batteries with a LiNi0.5Co0.2Mn0.3O2 and LiMn2O4 blended cathode using dV/dQ curve analysis. Journal of Power Sources, 2018, 390, 278-285.	7.8	53
17	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
18	Thin Film Electrodes of Prussian Blue Analogues with Rapid Li^{+} Intercalation. Applied Physics Express, 2012, 5, 041801.	2.4	38

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19	Redox Reactions in Prussian Blue Analogue Films with Fast Na⁺ Intercalation. Japanese Journal of Applied Physics, 2013, 52, 090202.	1.5	38
20	Cubic-Rhombohedral Structural Phase Transition in Na_{1.32}Mn[Fe(CN)₆]_{0.83}Â·3.6H₂O. Journal of the Physical Society of Japan, 2011, 80, 074608.	1.6	37
21	Electronic Structure of Hole-Doped Transition Metal Cyanides. Journal of the Physical Society of Japan, 2010, 79, 044710.	1.6	33
22	Degradation Analysis of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ for Cathode Material of Lithium-Ion Battery Using Single-Particle Measurement. ACS Applied Energy Materials, 2018, 1, 4536-4544.	5.1	31
23	Doping-Induced Structural Phase Transition in Na_{1.6-<i>x</i>}Co[Fe(CN)₆]_{0.90}2.9H₂O. Journal of the Physical Society of Japan, 2009, 78, 074602.	1.6	30
24	Charge-transfer phase transition and zero thermal expansion in caesium manganese hexacyanoferrates. Dalton Transactions, 2006, , 5046.	3.3	29
25	Structural, Electronic, and Electrochemical Properties of Li_xCo[Fe(CN)₆]_{0.90}2.9H₂O. Japanese Journal of Applied Physics, 2013, 52, 044301.	1.5	29
26	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
27	Control of the alkali cation alignment in Prussian blue framework. Dalton Transactions, 2012, 41, 7620.	3.3	24
28	Investigation of the influence of temperature on the degradation mechanism of commercial nickel manganese cobalt oxide-type lithium-ion cells during long-term cycle tests. Journal of Energy Storage, 2019, 21, 665-671.	8.1	23
29	Structural Properties of Manganese Hexacyanoferrates against Li Concentration. Japanese Journal of Applied Physics, 2013, 52, 017301.	1.5	21
30	Extremely Gradual Spin-Crossover Phenomenon in a Cyano-Bridged Feâˆ’Mo Bimetallic Assembly. Journal of Physical Chemistry C, 2009, 113, 15751-15755.	3.1	20
31	Structural Phase Diagram of Mnâ€“Fe Cyanide against Cation Concentration. Journal of the Physical Society of Japan, 2011, 80, 103601.	1.6	20
32	Two-Electron Reaction without Structural Phase Transition in Nanoporous Cathode Material. Journal of Nanotechnology, 2012, 2012, 1-8.	3.4	19
33	Magnetic specific heat of the low-temperature phase of rubidium manganese hexacyanoferrate. Chemical Physics Letters, 2004, 388, 379-383.	2.6	17
34	Pressure-Induced Octahedral Rotation in RbMn[Fe(CN)₆]. Journal of the Physical Society of Japan, 2009, 78, 013602.	1.6	17
35	Three-dimensional Nickel(II) Heptacyanomolybdate(III)-based Magnet. Chemistry Letters, 2009, 38, 810-811.	1.3	17
36	Synchrotron-Radiation X-Ray Investigation of Li⁺/Na⁺Intercalation into Prussian Blue Analogues. Advances in Materials Science and Engineering, 2013, 2013, 1-17.	1.8	16

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37	Degradation diagnosis of lithium-ion batteries using AC impedance technique in fixing the state of charge of an electrode. Journal of Energy Chemistry, 2021, 53, 285-289.	12.9	15
38	Degradation Analyses of Commercial Lithium-Ion Cells by Temperature/C-rate Controlled Cycle Test. ECS Transactions, 2015, 64, 69-75.	0.5	12
39	Colored magnetic films composed of cyano-bridged metal assemblies and magneto-optical functionalities. Polyhedron, 2005, 24, 2901-2905.	2.2	10
40	Network dimensionalities and thermal expansion properties of metal nitroprussides. RSC Advances, 2011, 1, 1716.	3.6	9
41	Calendar Degradation Mechanism of Lithium Ion Batteries with a LiMn₂O₄and LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂Blended Cathode. ECS Transactions, 2017, 75, 77-90.	0.5	8
42	Crystal Structures of Photo-induced Phase and Rapidly-cooled Phase in Rb0.73Mn[Fe(CN)6]0.91Â·1.4H2O Prussian Blue Analog. Journal of the Physical Society of Japan, 2006, 75, 085004.	1.6	7
43	Fast Discharge Process of Thin Film Electrode of Prussian Blue Analogue. Japanese Journal of Applied Physics, 2012, 51, 107301.	1.5	7
44	Observation of phase transition of cesium manganese hexacyanoferrates by X-ray absorption spectroscopy. Journal of Physics and Chemistry of Solids, 2007, 68, 2158-2161.	4.0	6
45	Pressure-Induced Phase Transition in Znâ€"Fe Prussian Blue Lattice. Journal of the Physical Society of Japan, 2009, 78, 105002.	1.6	6
46	First observation of soft x-ray induced phase transition of RbMn[Fe(CN)6] studied by Fe L-edge x-ray absorption spectroscopy. Journal of Physics: Conference Series, 2009, 148, 012032.	0.4	5
47	High-Pressure Raman Spectroscopy of Transition Metal Cyanides. Journal of the Physical Society of Japan, 2011, 80, 024603.	1.6	5
48	Fast Discharge Process of Thin Film Electrode of Prussian Blue Analogue. Japanese Journal of Applied Physics, 2012, 51, 107301.	1.5	5
49	Poly[[hexa-Î¼-cyanido-manganese(II)iron(III)] pentahydrate]. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, i11-i12.	0.2	4
50	Observation of the Fixed Feâ€"CNâ€"Mn Cluster in Cesium Manganese Hexacyanoferrate. Journal of the Physical Society of Japan, 2010, 79, 074801.	1.6	4
51	Photoinduced charge transfer phase transition in cesium manganese hexacyanoferrate. Journal of Applied Physics, 2007, 101, 09E101.	2.5	3
52	Phase separation driven by mobile cations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:msub><mml:mrow><m Physical Review B, 2009, 80, .	3.2	2
53	X-Ray Induced Magnetic Phase Transition in CoW Cyanide Probed by XMCD. AIP Conference Proceedings, 2007, , .	0.4	1
54	Cation Extraction Process in Bilayer Cyanide Film as Investigated by Depth-Resolved X-ray Absorption Spectroscopy. Japanese Journal of Applied Physics, 2011, 50, 125802.	1.5	1

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55	A Large Thermal Hysteresis Loop Produced by a Charge-Transfer Phase Transition in a Rubidium Manganese Hexacyanoferrate.. ChemInform, 2004, 35, no.	0.0	0
56	A Surprisingly Large Thermal Hysteresis Loop in a Reversible Phase Transition of RbxMn [Fe(CN)6](x+2)/3Ã—zH2O.. ChemInform, 2005, 36, no-no.	0.0	0
57	Magnetic Materials: Photoinduced Magnetization with a High Curie Temperature and a Large Coercive Field in a Coâ€W Bimetallic Assembly (Adv. Funct. Mater. 10/2012). Advanced Functional Materials, 2012, 22, 2209-2209.	14.9	0
58	Cation Extraction Process in Bilayer Cyanide Film as Investigated by Depth-Resolved X-ray Absorption Spectroscopy. Japanese Journal of Applied Physics, 2011, 50, 125802.	1.5	0