Tomoyuki Matsuda

List of Publications by Year
in descending order

58	2,545	218677	189892
papers	citations	26 h-index	50 g-index

65	65	65	2198
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	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
6	Degradation Analyses of Commercial Lithium-Ion Cells by Temperature/C-rate Controlled Cycle Test. ECS Transactions, 2015, 64, 69-75.	0.5	12
7	A sodium manganese ferrocyanide thin film for Na-ion batteries. Chemical Communications, 2013, 49, 2750.	4.1	162
8	Cobalt Hexacyanoferrate as Cathode Material for Na⁺Secondary Battery. Applied Physics Express, 2013, 6, 025802.	2.4	103
9	Structural Properties of Manganese Hexacyanoferrates against Li Concentration. Japanese Journal of Applied Physics, 2013, 52, 017301.	1.5	21
10	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
11	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
12	Redox Reactions in Prussian Blue Analogue Films with Fast Na⁺ Intercalation. Japanese Journal of Applied Physics, 2013, 52, 090202.	1.5	38
13	Thin Film Electrodes of Prussian Blue Analogues with Rapid Li^{+} Intercalation. Applied Physics Express, 2012, 5, 041801.	2.4	38
14	Fast Discharge Process of Thin Film Electrode of Prussian Blue Analogue. Japanese Journal of Applied Physics, 2012, 51, 107301.	1.5	7
15	Control of the alkali cation alignment in Prussian blue framework. Dalton Transactions, 2012, 41, 7620.	3.3	24
16	Two-Electron Reaction without Structural Phase Transition in Nanoporous Cathode Material. Journal of Nanotechnology, 2012, 2012, 1-8.	3.4	19
17	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
18	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

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19	Fast Discharge Process of Thin Film Electrode of Prussian Blue Analogue. Japanese Journal of Applied Physics, 2012, 51, 107301.	1.5	5
20	Network dimensionalities and thermal expansion properties of metal nitroprussides. RSC Advances, 2011, 1, 1716.	3.6	9
21	Structural Phase Diagram of Mnâ€“Fe Cyanide against Cation Concentration. Journal of the Physical Society of Japan, 2011, 80, 103601.	1.6	20
22	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
23	High-Pressure Raman Spectroscopy of Transition Metal Cyanides. Journal of the Physical Society of Japan, 2011, 80, 024603.	1.6	5
24	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
25	Thin Film Electrode of Prussian Blue Analogue for Li-ion Battery. Applied Physics Express, 2011, 4, 047101.	2.4	77
26	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
27	Synthesis of a metal oxide with a room-temperature photoreversible phase transition. Nature Chemistry, 2010, 2, 539-545.	13.6	221
28	Electronic Structure of Hole-Doped Transition Metal Cyanides. Journal of the Physical Society of Japan, 2010, 79, 044710.	1.6	33
29	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
30	Symmetry Switch of Cobalt Ferrocyanide Framework by Alkaline Cation Exchange. Journal of the American Chemical Society, 2010, 132, 12206-12207.	13.7	68
31	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> Physical Review B, 2009, 80, .	3.2	2
32	Pressure-Induced Octahedral Rotation in RbMn[Fe(CN)₆]. Journal of the Physical Society of Japan, 2009, 78, 013602.	1.6	17
33	Extremely Gradual Spin-Crossover Phenomenon in a Cyano-Bridged Feâ”Mo Bimetallic Assembly. Journal of Physical Chemistry C, 2009, 113, 15751-15755.	3.1	20
34	Universal thermal response of the Prussian blue lattice. Physical Review B, 2009, 79, .	3.2	66
35	Three-dimensional Nickel(II) Heptacyanomolybdate(III)-based Magnet. Chemistry Letters, 2009, 38, 810-811.	1.3	17
36	Doping-Induced Structural Phase Transition in Na_{1.6-x}Co[Fe(CN)₆]_{0.90}2.9H₂O. Journal of the Physical Society of Japan, 2009, 78, 074602.	1.6	30

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37	Pressure-Induced Phase Transition in Znâ€“Fe Prussian Blue Lattice. Journal of the Physical Society of Japan, 2009, 78, 105002.	1.6	6
38	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
39	Visible-Light-Induced Reversible Photomagnetism in Rubidium Manganese Hexacyanoferrate. Chemistry of Materials, 2008, 20, 423-428.	6.7	128
40	Observation of an Iron(II) Spinâ€Crossover in an Iron Octacyanoniobateâ€Based Magnet. Angewandte Chemie - International Edition, 2008, 47, 6885-6887.	13.8	82
41	Crystal Structure, Charge-Transfer-Induced Spin Transition, and Photoreversible Magnetism in a Cyano-Bridged Cobaltâ˜Tungstate Bimetallic Assembly. Chemistry of Materials, 2008, 20, 3048-3054.	6.7	128
42	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
43	Poly[[hexa-Î¼-cyanido-manganese(II)iron(III)] pentahydrate]. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, i11-i12.	0.2	4
44	Photoinduced charge transfer phase transition in cesium manganese hexacyanoferrate. Journal of Applied Physics, 2007, 101, 09E101.	2.5	3
45	X-Ray Induced Magnetic Phase Transition in CoW Cyanide Probed by XMCD. AIP Conference Proceedings, 2007, , .	0.4	1
46	Coexistence of Ferroelectricity and Ferromagnetism in a Rubidium Manganese Hexacyanoferrate. Angewandte Chemie - International Edition, 2007, 46, 3238-3241.	13.8	251
47	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
48	Charge-transfer phase transition and zero thermal expansion in caesium manganese hexacyanoferrates. Dalton Transactions, 2006, , 5046.	3.3	29
49	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
50	Colored magnetic films composed of cyano-bridged metal assemblies and magneto-optical functionalities. Polyhedron, 2005, 24, 2901-2905.	2.2	10
51	A Surprisingly Large Thermal Hysteresis Loop in a Reversible Phase Transition of RbxMn [Fe(CN)6](x+2)/3Â—zH2O.. ChemInform, 2005, 36, no-no.	0.0	0
52	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
53	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
54	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

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55	Optical switching between bistable phases in rubidium manganese hexacyanoferrate at room temperature. Journal of Applied Physics, 2005, 97, 10M508.	2.5	60
56	A Large Thermal Hysteresis Loop Produced by a Charge-Transfer Phase Transition in a Rubidium Manganese Hexacyanoferrate.. ChemInform, 2004, 35, no.	0.0	0
57	Magnetic specific heat of the low-temperature phase of rubidium manganese hexacyanoferrate. Chemical Physics Letters, 2004, 388, 379-383.	2.6	17
58	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