

Naoto Ishikawa

List of Publications by Year in descending order

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48
papers

6,530
citations

279798

23
h-index

197818

49
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50
all docs

50
docs citations

50
times ranked

3854
citing authors

#	ARTICLE	IF	CITATIONS
1	Lanthanide Double-Decker Complexes Functioning as Magnets at the Single-Molecular Level. <i>Journal of the American Chemical Society</i> , 2003, 125, 8694-8695.	13.7	2,257
2	Q-Chem 2.0: a high-performance ab initio electronic structure program package. <i>Journal of Computational Chemistry</i> , 2000, 21, 1532-1548.	3.3	617
3	Quantum Tunneling of Magnetization in Lanthanide Single-Molecule Magnets: Bis(phthalocyaninato)terbium and Bis(phthalocyaninato)dysprosium Anions. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2931-2935.	13.8	581
4	Nuclear Spin Driven Quantum Tunneling of Magnetization in a New Lanthanide Single-Molecule Magnet: A Bis(Phthalocyaninato)holmium Anion. <i>Journal of the American Chemical Society</i> , 2005, 127, 3650-3651.	13.7	479
5	Mononuclear Lanthanide Complexes with a Long Magnetization Relaxation Time at High Temperatures: A New Category of Magnets at the Single-Molecular Level. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11265-11271.	2.6	443
6	Determination of Ligand-Field Parameters and f-Electronic Structures of Double-Decker Bis(phthalocyaninato)lanthanide Complexes. <i>Inorganic Chemistry</i> , 2003, 42, 2440-2446.	4.0	320
7	Upward Temperature Shift of the Intrinsic Phase Lag of the Magnetization of Bis(phthalocyaninato)terbium by Ligand Oxidation Creating an $S=1/2$ Spin. <i>Inorganic Chemistry</i> , 2004, 43, 5498-5500.	4.0	237
8	Interaction between f-Electronic Systems in Dinuclear Lanthanide Complexes with Phthalocyanines. <i>Journal of the American Chemical Society</i> , 2002, 124, 11440-11447.	13.7	202
9	The Effect of the f-f Interaction on the Dynamic Magnetism of a Coupled 4f8 System in a Dinuclear Terbium Complex with Phthalocyanines. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 731-733.	13.8	153
10	Effects of Chemically Induced Contraction of a Coordination Polyhedron on the Dynamical Magnetism of Bis(phthalocyaninato)dysprosium, a Single-4f-Ionic Single-Molecule Magnet with a Kramers Ground State. <i>Inorganic Chemistry</i> , 2008, 47, 10217-10219.	4.0	149
11	Determination of Ligand-Field Parameters and f-Electronic Structures of Hetero-Dinuclear Phthalocyanine Complexes with a Diamagnetic Yttrium(III) and a Paramagnetic Trivalent Lanthanide Ion. <i>Journal of Physical Chemistry A</i> , 2002, 106, 9543-9550.	2.5	132
12	Localized orbital study on the electronic structure of phthalocyanine dimers. <i>The Journal of Physical Chemistry</i> , 1992, 96, 8832-8839.	2.9	106
13	Simultaneous Determination of Ligand-Field Parameters of Isostructural Lanthanide Complexes by Multidimensional Optimization. <i>Journal of Physical Chemistry A</i> , 2003, 107, 5831-5835.	2.5	77
14	Hole delocalization in naphthalocyaninato-phthalocyaninato-lutetium (III). <i>Chemical Physics Letters</i> , 1991, 180, 51-56.	2.6	70
15	Proton-induced switching of the single molecule magnetic properties of a porphyrin based Tb(III) double-decker complex. <i>Chemical Communications</i> , 2012, 48, 7796.	4.1	70
16	Electronic structures and spectral properties of double- and triple-decker phthalocyanine complexes in a localized molecular orbital view. <i>Journal of Porphyrins and Phthalocyanines</i> , 2001, 05, 87-101.	0.8	62
17	Study of ^1H NMR Spectra of Dinuclear Complexes of Heavy Lanthanides with Phthalocyanines Based on Separation of the Effects of Two Paramagnetic Centers. <i>Journal of Physical Chemistry A</i> , 2003, 107, 7879-7884.	2.5	60
18	Excited States of the Lutetium Phthalocyanine Trimer: A Semiempirical Molecular Orbital and Localized Orbital Study. <i>The Journal of Physical Chemistry</i> , 1996, 100, 8722-8730.	2.9	38

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19	Magnetic Relaxations Arising from Spin-Phonon Interactions in the Nonthermally Activated Temperature Range for a Double-Decker Terbium Phthalocyanine Single Molecule Magnet. <i>Inorganic Chemistry</i> , 2014, 53, 9080-9086.	4.0	37
20	Ligand-Field Energy Splitting in Lanthanide-Based Single-Molecule Magnets by NMR Spectroscopy. <i>Inorganic Chemistry</i> , 2017, 56, 15285-15294.	4.0	31
21	Switching of Single-Molecule Magnetic Properties of Tb ^{III} -Porphyrin Double-Decker Complexes and Observation of Their Supramolecular Structures on a Carbon Surface. <i>Chemistry - A European Journal</i> , 2014, 20, 11362-11369.	3.3	28
22	Axially Polarized NIR Absorption Bands in Electron-deficient Lanthanide Phthalocyanine Dimers and Trimers. <i>Journal of Porphyrins and Phthalocyanines</i> , 1999, 03, 514-521.	0.8	27
23	Coupling between the photo-excited cyclic π system and the 4f electronic system in a lanthanide single molecule magnet. <i>Chemical Communications</i> , 2017, 53, 6168-6171.	4.1	20
24	Facile one-pot preparation of thermally and photochemically convertible soluble precursors of copper phthalocyanine and naphthalocyanine. <i>Chemical Communications</i> , 2011, 47, 8518.	4.1	18
25	Effect of Chain Length on Thermal Conversion of Alkoxy-Substituted Copper Phthalocyanine Precursors. <i>Inorganic Chemistry</i> , 2011, 50, 11832-11837.	4.0	15
26	Effect of Protonation on the Single-molecule-magnet Behavior of a Mixed (Phthalocyaninato)(porphyrinato)terbium Double-decker Complex. <i>Chemistry Letters</i> , 2015, 44, 668-670.	1.3	15
27	Synthesis of a Series of Heavy Lanthanide(III) Monoporphyrinato Complexes with Tetragonal Symmetry. <i>Inorganic Chemistry</i> , 2017, 56, 10625-10632.	4.0	15
28	Thermally Accessible Triplet State in a Phthalocyanine Assembly System Which is Formed from Crown-Ether-Substituted Lutetium Phthalocyanine Dimer Radicals in the Presence of Potassium Ion. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 286, 263-268.	0.3	14
29	Synthesis of a Neutral Mononuclear Four-Coordinate Co(II) Complex Having Two Halved Phthalocyanine Ligands That Shows Slow Magnetic Relaxations under Zero Static Magnetic Field. <i>Inorganic Chemistry</i> , 2019, 58, 5211-5220.	4.0	14
30	Determination of ligand field splitting in lanthanide(ⁱⁱⁱ) monoporphyrinato complexes. <i>Dalton Transactions</i> , 2019, 48, 7685-7692.	3.3	13
31	Synthesis of a Series of Monophthalocyaninato Cyclen Heavy Lanthanide(III) Complexes with Tetragonal Symmetry. <i>Inorganic Chemistry</i> , 2018, 57, 668-675.	4.0	12
32	<i>In-situ</i> observation of β - γ transformation of Fe particles in a Cu-Fe alloy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1991, 64, 387-394.	0.6	11
33	Solvent-dependent morphology of thermally converted copper phthalocyanine for solution-processed small molecule organic photovoltaic devices. <i>Organic Electronics</i> , 2014, 15, 139-143.	2.6	10
34	Selective Stabilization of the Spin States of a Magnetically Anisotropic Dysprosium Ion Induced by Photo-Excitation of the Associated Cyclic π -Conjugated System. <i>Chemistry - A European Journal</i> , 2017, 23, 16357-16363.	3.3	10
35	Intramolecular Magnetic Interaction in a Photogenerated Dual Angular Momentum System in a Terbium-Phthalocyaninato 1:1 Complex. <i>Inorganic Chemistry</i> , 2021, 60, 2037-2044.	4.0	10
36	First example of a hexadentate bicyclic phthalocyanine analogue containing a divalent metal center. <i>Dalton Transactions</i> , 2013, 42, 16486.	3.3	8

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37	Spectroscopic Investigation of Interaction between the 4f Electronic System and the Photoexcited Cyclic π System in Terbium(III) Monoporphyrinato Complex. <i>Inorganic Chemistry</i> , 2020, 59, 14326-14336.	4.0	8
38	Antiparallel Coupling between a 4f System and a Photoexcited Cyclic π System in a Dysprosium(III) Monoporphyrinato Complex. <i>Inorganic Chemistry</i> , 2021, 60, 14418-14425.	4.0	7
39	Formation and Crystal Structure of a Novel Zinc Phthalocyanine Analogue Having an Axial Isoindole Ligand Obtained by Lithium-mediated Reactions under Mild Conditions. <i>Chemistry Letters</i> , 2014, 43, 925-927.	1.3	6
40	System Composed of Three Types of Electronic Angular Momenta: A $J < S < L$ Triad in a Photoexcited π -Radical Bis(phthalocyaninato)terbium Single-Molecule Magnet. <i>Inorganic Chemistry</i> , 2018, 57, 15438-15444.	4.0	6
41	Surface Self-Assembly of <i>trans</i> -Substituted Porphyrin Double-Decker Complexes Exhibiting Slow Magnetic Relaxation. <i>E-Journal of Surface Science and Nanotechnology</i> , 2014, 12, 124-128.	0.4	6
42	Effect of an internal stress on formation of stacking fault tetrahedra in an electron-irradiated Cu-Fe alloy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1990, 61, 929-941.	0.6	5
43	Facile, liquid phase preparation of copper phthalocyanine microcrystals by means of thermal conversion of the dimethoxy-substituted solvent soluble phthalocyanine precursors. <i>Dyes and Pigments</i> , 2014, 109, 151-154.	3.7	5
44	Observation of magnetic interactions between localized 4f- and itinerant π -electrons in a single crystal of cationic bisphthalocyanine complexes containing diluted spin centres. <i>Dalton Transactions</i> , 2017, 46, 12421-12424.	3.3	5
45	Magnetic interaction of photoexcited terbium porphyrin complexes with non-aromatic ligands having different symmetries. <i>Dalton Transactions</i> , 2022, 51, 6186-6196.	3.3	3
46	Janus Pyrrolopyrrole Aza-dipyrin: Hydrogen-Bonded Assemblies and Slow Magnetic Relaxation of the Cobalt(II) Complex in the Solid State. <i>Chemistry - A European Journal</i> , 2021, 27, 12686-12692.	3.3	2
47	Q-Chem 2.0: a high-performance ab initio electronic structure program package. , 2000, 21, 1532.		2
48	Formation of stacking fault tetrahedra around \pm -Fe particles in a Cu-Fe alloy. <i>Philosophical Magazine Letters</i> , 1989, 60, 255-259.	1.2	1