Keiichi Katoh

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2461885/publications.pdf

Version: 2024-02-01

82	2,957	145106	190340
papers	citations	33 h-index	53 g-index

93	93	93	2770
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison between DySc₂N@C₈₀ and Dy₂ScN@C₈₀ single-molecule magnetic metallofullerenes encapsulated in single-wall carbon nanotubes. Dalton Transactions, 2022, , .	1.6	2
2	161Dy synchrotron-radiation-based MÃ¶ssbauer absorption spectroscopy. Hyperfine Interactions, 2022, 243, 1.	0.2	2
3	Observation of Yuâ€“Shibaâ€“Rusinov States and Inelastic Tunneling Spectroscopy for Intramolecule Magnetic Exchange Interaction Energy of Terbium Phthalocyanine (TbPc) Species Adsorbed on Superconductor NbSe₂. ACS Nano, 2022, , .	7.3	4
4	Titelbild: Electroâ€Conductive Singleâ€Molecule Magnet Composed of a Dysprosium(III)â€Phthalocyaninato Doubleâ€Decker Complex with Magnetoresistance (Angew. Chem. 39/2021). Angewandte Chemie, 2021, 133, 21241-21241.	1.6	0
5	Electroâ€Conductive Singleâ€Molecule Magnet Composed of a Dysprosium(III)â€Phthalocyaninato Doubleâ€Decker Complex with Magnetoresistance. Angewandte Chemie, 2021, 133, 21349-21353.	1.6	2
6	Single Molecular Adsorption of Terbium(III) Bis-phthalocyaninato (TbPc₂) Governed by Two Surface Reconstructions of Perovskite Type SrVO₃ Epitaxial Ultrathin Film. Chemistry Letters, 2021, 50, 1489-1492.	0.7	1
7	Electroâ€Conductive Singleâ€Molecule Magnet Composed of a Dysprosium(III)â€Phthalocyaninato Doubleâ€Decker Complex with Magnetoresistance. Angewandte Chemie - International Edition, 2021, 60, 21179-21183.	7.2	22
8	Structural, magnetic and theoretical analyses of anionic and cationic phthalocyaninato-terbium(<scp>iii</scp>) double-decker complexes: magnetic relaxation via higher ligand-field sublevels enhanced by oxidation. Dalton Transactions, 2021, 50, 9719-9724.	1.6	7
9	Terbium(<scp>iii</scp>) bis-phthalocyaninato single-molecule magnet encapsulated in a single-walled carbon nanotube. Journal of Materials Chemistry C, 2021, 9, 10697-10704.	2.7	9
10	Simultaneous Spinâ€Crossover Transition and Conductivity Switching in a Dinuclear Iron(II) Coordination Compound Based on 7,7â€²,8,8â€²â€Tetracyanoâ€p â€quinodimethane. Chemistry - A European Journal, 2020, 26, 1278-1285.	1.7	12
11	Simultaneous Spinâ€Crossover Transition and Conductivity Switching in a Dinuclear Iron(II) Coordination Compound Based on 7,7â€²,8,8â€²â€Tetracyanoâ€p â€quinodimethane. Chemistry - A European Journal, 2020, 26, 1165-1165.	1.7	2
12	Cocrystals of Li⁺ encapsulated fullerenes and Tb(<scp>iii</scp>) double-decker single molecule magnet in a quasi-kagome lattice. Chemical Communications, 2020, 56, 12785-12788.	2.2	4
13	Highly Oxidized States of Phthalocyaninato Terbium(III) Multipleâ€Decker Complexes Showing Structural Deformations, Biradical Properties and Decreases in Magnetic Anisotropy. Chemistry - A European Journal, 2020, 26, 8621-8630.	1.7	19
14	Coexistence of Spinâ€“Lattice Relaxation and Phononâ€Bottleneck Processes in Gd III â€“Phthlocyaninato Tripleâ€Decker Complexes under Highly Diluted Conditions. Chemistry - A European Journal, 2020, 26, 8076-8082.	1.7	16
15	Manipulation of the Coordination Geometry along the C₄ Rotation Axis in a Dinuclear Tb³⁺ Tripleâ€Decker Complex via a Supramolecular Approach. Chemistry - A European Journal, 2020, 26, 4805-4815.	1.7	13
16	Magnetic Hysteresis of Single-Molecule Magnets Adsorbed on Ferromagnetic Substrate. ACS Nano, 2019, , .	7.3	1
17	Spin properties of single-molecule magnet of double-decker Tb(III)-phthalocyanine (TbPc2) on ferromagnetic Co film characterized by spin polarized STM (SP-STM). Journal of Applied Physics, 2019, 125, 183901.	1.1	12
18	Series of Chloranilate-Bridged Dinuclear Lanthanide Complexes: Kramers Systems Showing Field-Induced Slow Magnetic Relaxation. Magnetochemistry, 2019, 5, 30.	1.0	8

#	Article	IF	Citations
19	Relationship between the Coordination Geometry and Spin Dynamics of Dysprosium(III) Heteroleptic Triple-Decker Complexes. Magnetochemistry, 2019, 5, 65.	1.0	7
20	Detailed Analysis of the Crystal Structures and Magnetic Properties of a Dysprosium(III) Phthalocyaninato Sextupleâ€Decker Complex: Weak fâ€“f Interactions Suppress Magnetic Relaxation. Chemistry - A European Journal, 2019, 25, 3098-3104.	1.7	20
21	Control of the Spin Dynamics of Singleâ€Molecule Magnets by using a Quasi Oneâ€Dimensional Arrangement. Angewandte Chemie - International Edition, 2018, 57, 9262-9267.	7.2	72
22	Slow Magnetic Relaxation in a Palladiumâ€“Gadolinium Complex Induced by Electron Density Donation from the Palladium Ion. Chemistry - A European Journal, 2018, 24, 9285-9294.	1.7	34
23	Comparison of the Magnetic Anisotropy and Spin Relaxation Phenomenon of Dinuclear Terbium(III) Phthalocyaninato Single-Molecule Magnets Using the Geometric Spin Arrangement. Journal of the American Chemical Society, 2018, 140, 2995-3007.	6.6	98
24	Supramolecular Approach for Enhancing Singleâ€Molecule Magnet Properties of Terbium(III)â€Phthalocyaninato Doubleâ€Decker Complexes with Crown Moieties. Chemistry - A European Journal, 2018, 24, 4320-4327.	1.7	36
25	Organic Radical-Based Single-Molecule and Single-Chain Magnets. Materials and Energy, 2018, , 271-344.	2.5	2
26	Control of the Spin Dynamics of Singleâ€Molecule Magnets by using a Quasi Oneâ€Dimensional Arrangement. Angewandte Chemie, 2018, 130, 9406-9411.	1.6	10
27	Changing Single-Molecule Magnet Properties of a Windmill-Like Distorted Terbium(III) Î±-Butoxy-Substituted Phthalocyaninato Double-Decker Complex by Protonation/Deprotonation. Inorganic Chemistry, 2018, 57, 565-574.	1.9	23
28	Thermally activated electrical conductivity of thin films of bis(phthalocyaninato)terbium(III) double decker complex. Thin Solid Films, 2018, 646, 17-20.	0.8	5
29	Low coordinated mononuclear erbium(<scp>iii</scp>) single-molecule magnets with C_{3v} symmetry: a method for altering single-molecule magnet properties by incorporating hard and soft donors. Dalton Transactions, 2018, 47, 302-305.	1.6	40
30	Frontispiece: Control of the Spin Dynamics of Single-Molecule Magnets by using a Quasi One-Dimensional Arrangement. Angewandte Chemie - International Edition, 2018, 57, .	7.2	1
31	Frontispiz: Control of the Spin Dynamics of Single-Molecule Magnets by using a Quasi One-Dimensional Arrangement. Angewandte Chemie, 2018, 130, .	1.6	0
32	Field-Induced Slow Magnetic Relaxation of Mono- and Dinuclear Dysprosium(III) Complexes Coordinated by a Chloranilate with Different Resonance Forms. Inorganics, 2018, 6, 7.	1.2	8
33	Tetranuclear Dysprosium(III) Quintupleâ€Decker Singleâ€Molecule Magnet Prepared Using a Ïâ€Extended Phthalocyaninato Ligand with Two Coordination Sites. Chemistry - A European Journal, 2018, 24, 15522-15528.	1.7	15
34	DySc₂N@C₈₀ Single-Molecule Magnetic Metallofullerene Encapsulated in a Single-Walled Carbon Nanotube. Journal of the American Chemical Society, 2018, 140, 10955-10959.	6.6	60
35	Slow Magnetic Relaxation in a Palladiumâ€“Gadolinium Complex Induced by Electron Density Donation from the Palladium Ion. Chemistry - A European Journal, 2018, 24, 9169-9169.	1.7	0
36	Elucidation of Dual Magnetic Relaxation Processes in Dinuclear Dysprosium(III) Phthalocyaninato Tripleâ€Decker Singleâ€Molecule Magnets Depending on the Octacoordination Geometry. Chemistry - A European Journal, 2017, 23, 15377-15386.	1.7	28

#	Article	IF	Citations
37	Elongation of magnetic relaxation times in a single-molecule magnet through intermetallic interactions: a clamshell-type dinuclear terbium(<scp>iii</scp>)-phthalocynaninato quadruple-decker complex. Chemical Communications, 2017, 53, 8561-8564.	2.2	35
38	Dysprosium Acetylacetonato Single-Molecule Magnet Encapsulated in Carbon Nanotubes. Materials, 2017, 10, 7.	1.3	24
39	Metal-Organic Framework of Lanthanoid Dinuclear Clusters Undergoes Slow Magnetic Relaxation. Materials, 2017, 10, 81.	1.3	3
40	Molecular Orientation of a Terbium(III)-Phthalocyaninato Double-Decker Complex for Effective Suppression of Quantum Tunneling of the Magnetization. Molecules, 2017, 22, 999.	1.7	33
41	Symmetry of octa-coordination environment has a substantial influence on dinuclear Tb^{III} triple-decker single-molecule magnets. Chemical Science, 2016, 7, 4329-4340.	3.7	60
42	How Ions Arrange in Solution: Detailed Insight from NMR Spectroscopy of Paramagnetic Ion Pairs. ChemPhysChem, 2016, 17, 3423-3429.	1.0	5
43	A scanning tunneling microscopy study of the electronic and spin states of bis(phthalocyaninato)terbium(<scp>iii</scp>) (TbPc₂) molecules on Ag(111). Dalton Transactions, 2016, 45, 16644-16652.	1.6	19
44	Weak Dy^{III}â€“Dy^{III} Interactions in Dy^{III}â€“Phthalocyaninato Multiple-Decker Single-Molecule Magnets Effectively Suppress Magnetic Relaxation. Inorganic Chemistry, 2016, 55, 11782-11790.	1.9	37
45	Surface confinement of TbPc₂-SMMs: structural, electronic and magnetic properties. Dalton Transactions, 2016, 45, 18417-18433.	1.6	52
46	The Frontier of Molecular Spintronics Based on Multiple-Decker Phthalocyaninato Tb^{III}Single-Molecule Magnets. Chemical Record, 2016, 16, 987-1016.	2.9	37
47	Ligand Ï€â€Radical Interaction with fâ€Shell Unpaired Electrons in Phthalocyaninatoâ€“Lanthanoid Singleâ€Molecule Magnets: A Solution NMR Spectroscopic and DFT Study. Chemistry - A European Journal, 2015, 21, 14421-14432.	1.7	38
48	Î±-Substituted Bis(octabutoxyphthalocyaninato)Terbium(III) Double-Decker Complexes: Preparation and Study of Protonation by NMR and DFT. Inorganic Chemistry, 2015, 54, 11986-11992.	1.9	15
49	Tuning Interchain Interactions in Two-Dimensional Networks of Mn^{III} Schiff-Base Complexes and Dicarboxylic Acids by Varying the Linker. Inorganic Chemistry, 2015, 54, 7096-7102.	1.9	21
50	Effects of fâ€“f Interactions on the Single-Molecule Magnet Properties of Terbium(III)â€“Phthalocyaninato Quintuple-Decker Complexes. Inorganic Chemistry, 2015, 54, 3297-3305.	1.9	57
51	Double-decker phthalocyanine complex: Scanning tunneling microscopy study of film formation and spin properties. Progress in Surface Science, 2014, 89, 127-160.	3.8	40
52	Variation of Kondo Temperature Induced by Moleculeâ€“Substrate Decoupling in Film Formation of Bis(phthalocyaninato)terbium(III) Molecules on Au(111). ACS Nano, 2014, 8, 4866-4875.	7.3	43
53	Control of the Singleâ€Molecule Magnet Behavior of Lanthanideâ€Diarylethene Photochromic Assemblies by Irradiation with Light. Chemistry - A European Journal, 2014, 20, 12502-12513.	1.7	78
54	Effect of fâ€“f interactions on quantum tunnelling of the magnetization: mono- and dinuclear Dy(iii) phthalocyaninato triple-decker single-molecule magnets with the same octacoordination environment. Dalton Transactions, 2014, 43, 7716.	1.6	65

#	Article	IF	Citations
55	Controlling the Dipoleâ€“Dipole Interactions between Terbium(III) Phthalocyaninato Triple-Decker Moieties through Spatial Control Using a Fused Phthalocyaninato Ligand. Inorganic Chemistry, 2013, 52, 13555-13561.	1.9	49
56	Combined NMR Analysis of Huge Residual Dipolar Couplings and Pseudocontact Shifts in Terbium(III)-Phthalocyaninato Single Molecule Magnets. Journal of the American Chemical Society, 2013, 135, 14349-14358.	6.6	57
57	Variation of Kondo Peak Observed in the Assembly of Heteroleptic 2,3-Naphthalocyaninato Phthalocyaninato Tb(III) Double-Decker Complex on Au(111). ACS Nano, 2013, 7, 1092-1099.	7.3	47
58	Coordination mode-tuned stacking motif in alkali metal salts of Ni(pdt)2 complexes (pdt =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td	1.0	9
59	First Observation of a Kondo Resonance for a Stable Neutral Pure Organic Radical, 1,3,5-Triphenyl-6-oxoverdazyl, Adsorbed on the Au(111) Surface. Journal of the American Chemical Society, 2013, 135, 651-658.	6.6	56
60	MnIII(tetra-biphenyl-porphyrin)â€“TCNE Single-Chain Magnet via Suppression of the Interchain Interactions. Inorganic Chemistry, 2012, 51, 9123-9131.	1.9	55
61	Multiple-decker phthalocyaninato dinuclear lanthanoid(iii) single-molecule magnets with dual-magnetic relaxation processes. Dalton Transactions, 2012, 41, 13582.	1.6	103
62	Spin Doping of Individual Molecules by Using Single-Atom Manipulation. Nano Letters, 2012, 12, 3609-3612.	4.5	51
63	Molecular Spintronics Based on Singleâ€Molecule Magnets Composed of Multipleâ€Decker Phthalocyaninato Terbium(III) Complex. Chemistry - an Asian Journal, 2012, 7, 1154-1169.	1.7	83
64	Magnetic relaxation behavior of a spatially closed dysprosium(III) phthalocyaninato double-decker complex. Science China Chemistry, 2012, 55, 918-925.	4.2	25
65	Paramagneticâ€“Diamagnetic Phase Transition Accompanied by Coordination Bond Formationâ€“Dissociation in the Dithiolate Complex Na[Ni(pdt)₂]Â·2H₂O. Inorganic Chemistry, 2011, 50, 6405-6407.	1.9	18
66	Observation and electric current control of a local spin in a single-molecule magnet. Nature Communications, 2011, 2, 217.	5.8	373
67	Multiple-decker phthalocyaninato Tb(III) single-molecule magnets and Y(III) complexes for next generation devices. Coordination Chemistry Reviews, 2011, 255, 2124-2148.	9.5	110
68	Magnetic Relaxation of Singleâ€Molecule Magnets in an External Magnetic Field: An Ising Dimer of a Terbium(III)â€“Phthalocyaninate Tripleâ€Decker Complex. Chemistry - A European Journal, 2011, 17, 117-122.	1.7	133
69	Low-Temperature Scanning Tunneling Microscopy Investigation of Tris(phthalocyaninato)yttrium Triple-Decker Molecules Deposited on Au(111). Japanese Journal of Applied Physics, 2010, 49, 08LB11.	0.8	0
70	Scanning Tunneling Microscopy Investigation of Tris(phthalocyaninato)yttrium Triple-Decker Molecules Deposited on Au(111). Journal of Physical Chemistry C, 2010, 114, 12202-12206.	1.5	24
71	Surface morphologies, electronic structures, and Kondo effect of lanthanide(iii)-phthalocyanine molecules on Au(111) by using STM, STS and FET properties for next generation devices. Dalton Transactions, 2010, 39, 4708.	1.6	53
72	Direct Observation of Lanthanide(III)-Phthalocyanine Molecules on Au(111) by Using Scanning Tunneling Microscopy and Scanning Tunneling Spectroscopy and Thin-Film Field-Effect Transistor Properties of Tb(III)- and Dy(III)-Phthalocyanine Molecules. Journal of the American Chemical Society, 2009, 131, 9967-9976.	6.6	214

#	Article	IF	Citations
73	Low-Temperature Scanning Tunneling Microscopy Investigation of Bis(phthalocyaninato)yttrium Growth on Au(111): From Individual Molecules to Two-Dimensional Domains. Journal of Physical Chemistry C, 2009, 113, 9826-9830.	1.5	48
74	A Low-Temperature Scanning Tunneling Microscope Investigation of a Nonplanar Dysprosiumâ^'Phthalocyanine Adsorption on Au(111). Journal of Physical Chemistry C, 2009, 113, 14407-14410.	1.5	32
75	Preparation and Characterization of a Ï€-Conjugated Donorâ€“Accepter-type Ligand Molecule with Redox Abilities. Chemistry Letters, 2008, 37, 618-619.	0.7	1
76	Synthesis of a Donor Molecule with Metal Coordination Sites toward Multifunctional Complexes. Chemistry Letters, 2007, 36, 1122-1123.	0.7	4
77	Molecular Design, Synthesis and Functions of Amphiphilic bis-TTF Annulated Macrocycles Forming Molecular Assembly Nanostructures. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2005, 63, 960-969.	0.0	2
78	Low Dimensionality Observed by ESR Measurements inS=1 Spin Ladder Substance BIP-TENO (3,3â€²,5,5â€²-tetrakis(N-tert-butylaminoxyl)biphenyl). Journal of the Physical Society of Japan, 2002, 71, 2640-2643.	0.7	9
79	Xâ€band ESR Measurements of spin ladder system BIPâ€TENO. , 2002, , 69-72.		0
80	Approach to a Single-Component Ferrimagnetism by Organic Radical Crystals. Journal of the American Chemical Society, 2001, 123, 7921-7922.	6.6	77
81	Singlet Ground States in an OrganicS=1/2Spin Ladder and a Novel Double Spin Chain of Ferromagnetic Dimers Formed by an Organic Tetraradical. Journal of the Physical Society of Japan, 2000, 69, 1008-1011.	0.7	44
82	Construction of a Quantum-Spin System ofS=1/2Antiferromagnetic Chain with the Next-Nearest-Neighbor Interactions. Journal of the Physical Society of Japan, 1999, 68, 2910-2913.	0.7	13