Hidetaka Nakai

List of Publications by Year in descending order

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76 2,282 25 46
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#	Article	IF	CITATIONS
1	Crystal polymorphism and crystalline-state photochromism of a rhodium dithionite complex with <i>n</i> -methoxypropyl moieties. CrystEngComm, 2022, 24, 1437-1441.	1.3	O
2	Crystalline-State Photochromism of a Newly Synthesized Rhodium Dithionite Complex with Inflexible <i>Cyclo</i> -Pentyl Groups. Bulletin of the Chemical Society of Japan, 2022, 95, 169-174.	2.0	1
3	Photoinduced Bending Crystals of a Rhodium Dithionite Complex with <i>n</i> -Methoxybutyl Moieties. Chemistry Letters, 2022, 51, 372-374.	0.7	O
4	Insights from hydrogenase model studies on C–C bond forming reactions. Coordination Chemistry Reviews, 2022, 470, 214697.	9.5	2
5	Molecular motion in organometallic crystals: photoinduced 2Ï€/5 rotation of n-hexyltetramethylcyclopentadienyl ligand. CrystEngComm, 2021, 23, 3790-3793.	1.3	4
6	Synthesis and Characterization of a Series of Diarylgermylenes and Dihalodigermenes Having Fused-Ring Bulky "Rind―Groups. Bulletin of the Chemical Society of Japan, 2021, 94, 1931-1939.	2.0	2
7	C–H Arylation of Benzene with Aryl Halides using H ₂ and a Waterâ€Soluble Rhâ€Based Electron Storage Catalyst. Chemistry - A European Journal, 2021, 27, 17326-17330.	1.7	4
8	Reductive C(sp3)–C(sp3) homo-coupling of benzyl or allyl halides with H2 using a water-soluble electron storage catalyst. RSC Advances, 2021, 11, 39450-39454.	1.7	3
9	Unusual motion of the n-methoxypropyl moiety observed in the photochromic crystals of an organorhodium dithionite complex with n-methoxypropyltetramethylcyclopentadienyl ligands. Dalton Transactions, 2021, 51, 48-52.	1.6	2
10	A non-linear phenomenon observed in the photochromic crystals of a rhodium dithionite complex with n-propyl moieties. Dalton Transactions, 2020, 49, 1721-1725.	1.6	7
11	1,2-Dihalodigermenes bearing bulky Eind groups: synthesis, characterization, and conversion to halogermylenoids. Dalton Transactions, 2018, 47, 814-822.	1.6	22
12	Luminescent Tb(iii) and Sm(iii) complexes with a 1,4,7-triazacyclononane-based tris-aryloxide ligand for high-performance oxygen sensors. Dalton Transactions, 2017, 46, 9126-9130.	1.6	18
13	A Highâ€ V alent Iron(IV) Peroxo Core Derived from O ₂ . Angewandte Chemie - International Edition, 2016, 55, 724-727.	7.2	40
14	An oxygen-sensitive luminescent Dy(<scp>iii</scp>) complex. Dalton Transactions, 2016, 45, 9492-9496.	1.6	16
15	A Water-soluble Ni Dihydrido Complex That Reduces O ₂ to H ₂ O in Water. Chemistry Letters, 2016, 45, 72-74.	0.7	2
16	Synthesis and Reactivity of a Water-soluble NiRu Monohydride Complex with a Tethered Pyridine Moiety. Chemistry Letters, 2016, 45, 197-199.	0.7	5
17	A Non-precious Metal, Ni Molecular Catalyst for a Fuel Cell Cathode. Chemistry Letters, 2016, 45, 137-139.	0.7	2
18	Synthesis and Structure of a Water-soluble Âμ-η ¹ :η ¹ -N ₂ Dinuclear Ru ^{II} Complex with a Polyamine Ligand. Chemistry Letters, 2016, 45, 149-151.	0.7	4

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19	Control of Lanthanide Coordination Environment: Synthesis, Structure, and Oxygen-Sensitive Luminescence Properties of an Eight-Coordinate Tb(III) Complex. Inorganic Chemistry, 2016, 55, 6609-6615.	1.9	22
20	Inorganic clusters with a [Fe ₂ MoOS ₃] core—a functional model for acetylene reduction by nitrogenases. Dalton Transactions, 2016, 45, 14620-14627.	1.6	4
21	A gadolinium(iii) complex that shows room-temperature phosphorescence in the crystalline state. Dalton Transactions, 2016, 45, 11620-11623.	1.6	8
22	Photoinduced bending of rod-like millimetre-size crystals of a rhodium dithionite complex with n-pentyl moieties. Chemical Communications, 2016, 52, 4349-4352.	2.2	19
23	An N2-compatible NiO Metal–Organic Chemical Vapor Deposition (MOCVD) Precursor. Chemistry Letters, 2015, 44, 794-796.	0.7	O
24	An Fe-based Model for Metabolism Linking between O2-reduction and H2O-oxidation. Chemistry Letters, 2015, 44, 1263-1265.	0.7	0
25	A macrocyclic tetraamine bearing four phenol groups: a new class of heptadentate ligands to provide an oxygen-sensitive luminescent Tb(<scp>iii</scp>) complex with an extendable phenol pendant arm. Dalton Transactions, 2015, 44, 10923-10927.	1.6	17
26	An IrSi oxide film as a highly active water-oxidation catalyst in acidic media. Chemical Communications, 2015, 51, 12589-12592.	2.2	17
27	A (Ni–SIr)I model for [NiFe]hydrogenase. Journal of Organometallic Chemistry, 2015, 796, 73-76.	0.8	12
28	A highly luminescent and highly oxygen-sensitive Tb(iii) complex with a tris-aryloxide functionalised 1,4,7-triazacyclononane ligand. Chemical Communications, 2014, 50, 15737-15739.	2.2	21
29	A model for the water-oxidation and recovery systems of the oxygen-evolving complex. Dalton Transactions, 2014, 43, 3063-3071.	1.6	8
30	Synthesis and crystal structure of a dinuclear, monomeric Mn ^{II} p-semiquinonato complex. Chemical Communications, 2014, 50, 13059-13061.	2.2	7
31	A [NiFe]hydrogenase model that catalyses the release of hydrogen from formic acid. Chemical Communications, 2014, 50, 13385-13387.	2.2	27
32	Catalytic C–F Bond Hydrogenolysis of Fluoroaromatics by [(Î- ⁵ -C ₅ Me ₅)Rh ^I (2,2′-bipyridine)]. Organometallics, 2014, 33, 4349-4352.	1.1	45
33	[NiFe]Hydrogenase from <i>Citrobacter</i> sp. Sâ€77 Surpasses Platinum as an Electrode for H ₂ Oxidation Reaction. Angewandte Chemie - International Edition, 2014, 53, 8895-8898.	7.2	38
34	Synthesis of Aqueous-stable and Water-soluble Mononuclear Nonheme MnV–Oxo Complexes Using H2O2 as an Oxidant. Chemistry Letters, 2014, 43, 1380-1382.	0.7	2
35	Reversible Switching of the Luminescence of a Photoresponsive Gadolinium(III) Complex. Angewandte Chemie - International Edition, 2013, 52, 8722-8725.	7.2	38
36	Isolation of a MnIV acylperoxo complex and its monooxidation ability. Chemical Communications, 2013, 49, 8356.	2.2	7

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37	A Functional [NiFe]Hydrogenase Mimic That Catalyzes Electron and Hydride Transfer from H ₂ . Science, 2013, 339, 682-684.	6.0	229
38	Organometallic Catalysts for Use in a Fuel Cell. ChemCatChem, 2013, 5, 1368-1373.	1.8	35
39	Selective Redox Activation of H ₂ or O ₂ in a [NiRu] Complex by Aromatic Ligand Effects. Organometallics, 2013, 32, 79-87.	1.1	28
40	Isolation and Crystal Structure of the Proposed Lowâ€Valent Active Species in the H ₂ Activation Catalytic Cycle. European Journal of Inorganic Chemistry, 2013, 2013, 3978-3986.	1.0	8
41	A Neutral Five-coordinated Organoruthenium(0) Complex: X-ray Structure and Unique Solvatochromism. Chemistry Letters, 2012, 41, 650-651.	0.7	2
42	A <i>mer</i> -Triaqua Rh Complex with a Terpyridine Ligand. Chemistry Letters, 2012, 41, 116-118.	0.7	1
43	Experimental Study of Reductive Elimination of H ₂ from Rhodium Hydride Species. Organometallics, 2012, 31, 2996-3001.	1.1	29
44	Establishing the mechanism of Rh-catalysed activation of O ₂ by H ₂ . Dalton Transactions, 2012, 41, 4328-4334.	1.6	13
45	A naphthyl-substituted pentamethylcyclopentadienyl ligand and its Sm(<scp>ii</scp>) bent-metallocene complexes with solvent-induced structure change. Dalton Transactions, 2012, 41, 354-356.	1.6	9
46	Surface-assisted transfer hydrogenation catalysis on a \hat{I}^3 -Al2O3-supported Ir dimer. Physical Chemistry Chemical Physics, 2012, 14, 16023.	1.3	19
47	Observation of the Inverse Trans Influence (ITI) in a Uranium(V) Imide Coordination Complex: An Experimental Study and Theoretical Evaluation. Inorganic Chemistry, 2012, 51, 6190-6199.	1.9	67
48	Simple Ligand Effects Switch a Hydrogenase Mimic between H ₂ and O ₂ Activation. Chemistry - an Asian Journal, 2012, 7, 1394-1400.	1.7	29
49	Model Study of CO Inhibition of [NiFe]hydrogenase. Inorganic Chemistry, 2011, 50, 8902-8906.	1.9	22
50	Photoreactivity of crystals of a rhodium dithionite complex with ethyltetramethylcyclopentadienyl ligands: Crystal surface morphology changes and degradation. Dalton Transactions, 2011, 40, 2177.	1.6	16
51	Photochromism of organometallic compounds with structural rearrangement. Coordination Chemistry Reviews, 2010, 254, 2652-2662.	9.5	34
52	Photofunctionalization of a Pentamethylcyclopentadienyl Ligand with the N-Phenylcarbazolyl Group To Prepare a Highly Luminescent Tb3+ Complex Having a Fast Radiation Rate. Organometallics, 2010, 29, 2390-2393.	1.1	12
53	Extraction of Hydrogen from Alcohols by a Methylene-Bridged Iridium(I) Dinuclear Complex Having a Short Irâ^'Ir Double Bond. Organometallics, 2010, 29, 4210-4212.	1.1	6
54	The absolute asymmetric photoisomerization of a photochromic dithionite complex in chiral crystals. Chemical Communications, 2009, , 2685.	2.2	18

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55	Photochromism of an Organorhodium Dithionite Complex in the Crystalline-State: Molecular Motion of Pentamethylcyclopentadienyl Ligands Coupled to Atom Rearrangement in a Dithionite Ligand. Journal of the American Chemical Society, 2008, 130, 17836-17845.	6.6	42
56	Substitution Effects of Cp Ring Benzyl Groups on Photoisomerization of a Rhodium Dithionite Complex in the Crystalline State. Chemistry Letters, 2008, 37, 826-827.	0.7	10
57	Synthesis and structural characterization of a photoresponsive organodirhodium complex with active S–S bonds: [(CpPhRh)2(μ-CH2)2(μ-O2SSO2)] (CpPh=I-5-C5Me4Ph). Journal of Organometallic Chemistry, 2007, 692, 122-128.	0.8	15
58	Synthesis and Structural Characterization of a Photochromic Dirhodium Dithionite Complex: [(CpPhRh)2(Âμ-CH2)2(Âμ-O2SSO2)] (CpPhÂ=Âη 5-C5Me4Ph). Molecular Crystals and Liquid Crystals, 2006, 456, 63-70.	0.4	5
59	pH-Dependent Câ^C Coupling Reactions Catalyzed by Water-Soluble Palladacyclic Aqua Catalysts in Water. Organometallics, 2006, 25, 331-338.	1.1	84
60	Multiple-Bond Metathesis Mediated by Sterically Pressured Uranium Complexes. Angewandte Chemie - International Edition, 2006, 45, 2389-2392.	7.2	100
61	Direct Observation of Photochromic Dynamics in the Crystalline State of an Organorhodium Dithionite Complex. Angewandte Chemie - International Edition, 2006, 45, 6473-6476.	7.2	38
62	Titanium complexes supported by a sterically encumbering N-anchored tris-arylphenoxide ligand. Inorganic Chemistry Communication, 2005, 8, 903-907.	1.8	11
63	Synthesis and Crystal Structure of an Open Capsule-Type Octanuclear Heterometallic Sulfide Cluster with a Linked Incomplete Double Cubane Framework without an Intramolecular Inversion Center. Journal of the American Chemical Society, 2005, 127, 14366-14374.	6.6	21
64	Why do nitrogenases waste electrons by evolving dihydrogen?. Applied Organometallic Chemistry, 2004, 18, 589-594.	1.7	15
65	Synthesis and Characterization of N-Heterocyclic Carbene Complexes of Uranium(III). Inorganic Chemistry, 2004, 43, 855-857.	1.9	124
66	A Linear, O-Coordinated Â1-CO2 Bound to Uranium. Science, 2004, 305, 1757-1759.	6.0	345
67	A new entry to N-heterocyclic carbene chemistry: synthesis and characterisation of a triscarbene complex of thallium(i). Chemical Communications, 2003, , 24-25.	2.2	68
68	Evidence for Alkane Coordination to an Electron-Rich Uranium Center. Journal of the American Chemical Society, 2003, 125, 15734-15735.	6.6	137
69	pH-Dependent Cross-Coupling Reactions of Water-Soluble Organic Halides with Organoboron Compounds Catalyzed by the Organometallic Aqua Complex [(SCS)PdII(H2O)]+(SCS =) Tj ETQq1 1 0.784314 rgB	T1/ :0 verloc	le470 Tf 50
70	pH-Dependent H2-Activation Cycle Coupled to Reduction of Nitrate Ion by Cp*Ir Complexes. Journal of the American Chemical Society, 2002, 124, 597-601.	6.6	46
71	Fullerenethiolate-Functionalized Gold Nanoparticles:  A New Class of Surface-Confined Metalâ^'C60 Nanocomposites. Langmuir, 2001, 17, 6393-6395.	1.6	57
72	Electrochemical Properties of Tetrathiafulvalenyl-thiol, disulfide, thioacetate, and sulfide, and Their Self-Assembled Monolayers on Gold Surfaces. Journal of the Japan Society of Colour Material, 2000, 73, 325-329.	0.0	0

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73	Electropolymerization of Tetrathiol- and Tetrapyrrole Substituted Tetrathiafulvalene Derivatives and Electrochemical Properties of Their Electropolymerized Films. Journal of the Japan Society of Colour Material, 2000, 73, 176-181.	0.0	1
74	Cumulative Effect of Ether Units on Electrochemical Behaviors of Self-assembled Monolayers and Multilayers of Tetrathiafulvalenyl-tetrathiol with Oligo-ethyleneoxy Linkages. Electrochemistry, 2000, 68, 8-10.	0.6	3
75	New Electroactive Tetrathiafulvalene-Derivatized Gold Nanoparticles and Their Remarkably Stable Nanoparticle Films on Electrodes. Langmuir, 1999, 15, 8574-8576.	1.6	23
76	Alkane-tetrathiol induced formation of remarkably stable self-assembled monolayer and polymer films containing electroactive tetrathiafulvalene moieties on metal electrodes. Chemical Communications, 1999, , 737-738.	2.2	37