Yoshihito Shiota

List of Publications by Year in descending order

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187 papers

6,742 citations

57719 44 h-index 76872 74 g-index

197 all docs

197 docs citations

197 times ranked

6182 citing authors

#	Article	IF	CITATIONS
1	Halide-Adducts of OsO4. Structure and Reactivity in Alcohol-Oxidation. Bulletin of the Chemical Society of Japan, 2022, 95, 64-72.	2.0	5
2	C(sp ³)–H bond activation by the carboxylate-adduct of osmium tetroxide (OsO ₄). Dalton Transactions, 2022, 51, 1123-1130.	1.6	4
3	Augmented Selfâ€Association by Electrostatic Forces in Thienopyrroleâ€Fused Thiadiazoles that Contain an Ester instead of an Ether Linker. Chemistry - an Asian Journal, 2022, 17, .	1.7	O
4	Mechanistic study on reduction of nitric oxide to nitrous oxide using a dicopper complex. Dalton Transactions, 2022, 51, 5399-5403.	1.6	1
5	Synthesis, redox properties, and catalytic hydrogen gas generation of porphycene cobalt complexes. Journal of Porphyrins and Phthalocyanines, 2022, 26, 263-272.	0.4	1
6	Theoretical Investigation into Selective Benzene Hydroxylation by Ruthenium-Substituted Keggin-Type Polyoxometalates. Inorganic Chemistry, 2022, 61, 10-14.	1.9	2
7	Light-driven oxidation of CH ₄ to C ₁ chemicals catalysed by an organometallic Ru complex with O ₂ . RSC Advances, 2022, 12, 12253-12257.	1.7	3
8	Mechanistic Study for the Reaction of B ₁₂ Complexes with <i>m</i> -Chloroperbenzoic Acid in Catalytic Alkane Oxidations. Inorganic Chemistry, 2022, 61, 9710-9724.	1.9	11
9	Aryleneâ \in "hexaynylene and â \in "octaynylene macrocycles: extending the polyyne chains drives self-association by enhanced dispersion force. Chemical Communications, 2021, 57, 576-579.	2.2	3
10	Oxygen Atom Insertion into the Osmium–Carbon Bond via an Organometallic Oxido–Osmium(V) Intermediate. Organometallics, 2021, 40, 102-106.	1.1	7
11	Mechanistic Insights into the Dicopper-Complex-Catalyzed Hydroxylation of Methane and Benzene Using Nitric Oxide: A DFT Study. Inorganic Chemistry, 2021, 60, 4599-4609.	1.9	4
12	One-Pot Synthesis of Tertiary Amides from Organic Trichlorides through Oxygen Atom Incorporation from Air by Convergent Paired Electrolysis. Journal of Organic Chemistry, 2021, 86, 5983-5990.	1.7	20
13	Electrochemical Synthesis of Cyanoformamides from Trichloroacetonitrile and Secondary Amines Mediated by the B12 Derivative. Journal of Organic Chemistry, 2021, 86, 16134-16143.	1.7	8
14	Quadruple Role of Pd Catalyst in Domino Reaction Involving Aryl to Alkyl 1,5â€Pd Migration to Access 1,9â€Bridged Triptycenes. Chemistry - A European Journal, 2021, 27, 11548-11553.	1.7	7
15	Manipulating electron redistribution to achieve electronic pyroelectricity in molecular [FeCo] crystals. Nature Communications, 2021, 12, 4836.	5.8	21
16	S,C,C- and O,C,C-Bridged Triarylamines and Their Persistent Radical Cations. Journal of Organic Chemistry, 2021, 86, 12559-12568.	1.7	8
17	Tin(II)â€"Nitrene Radical Complexes Formed by Electron Transfer from Redox-Active Ligand to Organic Azides and Their Reactivity in C(sp ³)â€"H Activation. Inorganic Chemistry, 2021, 60, 18603-18607.	1.9	6
18	Iron complex of a quadruply fused porphyrin: Synthesis, structure and redox properties. Journal of Porphyrins and Phthalocyanines, 2020, 24, 252-258.	0.4	3

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19	Computational Study on the Light-Induced Oxidation of Iridium–Aqua Complex to Iridium–Oxo Complex over WO ₃ (001) Surface. Inorganic Chemistry, 2020, 59, 415-422.	1.9	4
20	Mechanistic Study on Ring ontracting Skeletal Rearrangement from Porphycene to Isocorrole by Experimental and Theoretical Methods. European Journal of Organic Chemistry, 2020, 2020, 1811-1816.	1.2	2
21	Photocatalytic hydrogen evolution using a Ru(ii)-bound heteroaromatic ligand as a reactive site. Dalton Transactions, 2020, 49, 17230-17242.	1.6	11
22	Selective catalytic 2e ^{â^'} -oxidation of organic substrates by an Fe ^{II} complex having an N-heterocyclic carbene ligand in water. Chemical Communications, 2020, 56, 9783-9786.	2.2	8
23	Redox properties of a bipyrimidine-bridged dinuclear ruthenium(II) complex. Inorganic Chemistry Communication, 2020, 120, 108150.	1.8	1
24	Mechanistic Insight into Concerted Proton–Electron Transfer of a Ru(IV)-Oxo Complex: A Possible Oxidative Asynchronicity. Journal of the American Chemical Society, 2020, 142, 16982-16989.	6.6	30
25	Macroscopic Polarization Change via Electron Transfer in a Valence Tautomeric Cobalt Complex. Nature Communications, 2020, 11, 1992.	5.8	41
26	Threeâ€Step Spin State Transition and Hysteretic Proton Transfer in the Crystal of an Iron(II) Hydrazone Complex. Angewandte Chemie, 2020, 132, 14891-14897.	1.6	4
27	Threeâ€Step Spin State Transition and Hysteretic Proton Transfer in the Crystal of an Iron(II) Hydrazone Complex. Angewandte Chemie - International Edition, 2020, 59, 14781-14787.	7.2	15
28	Theoretical Study of the Direct Conversion of Methane to Methanol Using H ₂ O ₂ as an Oxidant on Pd and Au/Pd Surfaces. Journal of Physical Chemistry C, 2020, 124, 13231-13239.	1.5	17
29	Quenching and Restoration of Orbital Angular Momentum through a Dynamic Bond in a Cobalt(II) Complex. Journal of the American Chemical Society, 2020, 142, 11434-11441.	6.6	28
30	Chemical transformations of push–pull fluorenones: push–pull dibenzodicyanofulvenes as well as fluorenone– and dibenzodicyanofulvene–tetracyanobutadiene conjugates. Organic and Biomolecular Chemistry, 2020, 18, 4198-4209.	1.5	4
31	Active Catalyst for Methane Hydroxylation by an Iridium–Oxo Complex. ACS Catalysis, 2020, 10, 8254-8262.	5.5	4
32	Local Structures and Dynamics of Imidazole Molecules in Poly(vinylphosphonic acid)–Imidazole Composite Investigated by Molecular Dynamics. ACS Applied Polymer Materials, 2020, 2, 1561-1568.	2.0	11
33	Room-Temperature Activation of Methane and Direct Formations of Acetic Acid and Methanol on Zn-ZSM-5 Zeolite: A Mechanistic DFT Study. Bulletin of the Chemical Society of Japan, 2020, 93, 345-354.	2.0	21
34	Theoretical rationalization for the equilibrium between (î¼â€"î· ² :η ² -peroxido)Cu ^{II} Cu ^{II} and bis(î¼-oxido)Cu ^{III} Cu ^{III} complexes: perturbational effects from ligand frameworks. Dalton Transactions, 2020, 49, 6710-6717.	1.6	3
35	Anthranoxides as Highly Reactive Arynophiles for the Synthesis of Triptycenes. Chemistry - A European Journal, 2020, 26, 8506-8510.	1.7	10
36	Theoretical Study of Methanol Oxidation by Ni-ZSM-5. Journal of Computer Chemistry Japan, 2020, 19, 151-153.	0.0	0

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37	Theoretical Suggestion of a Methane Hydroxylation Catalyst. Journal of Computer Chemistry Japan, 2020, 19, 133-135.	0.0	O
38	Observation of Proton Transfer Coupled Spin Transition and Trapping of Photoinduced Metastable Proton Transfer State in an Fe(II) Complex. Journal of the American Chemical Society, 2019, 141, 14384-14393.	6.6	23
39	Fundamental electron-transfer and proton-coupled electron-transfer properties of Ru(iv)-oxo complexes. Dalton Transactions, 2019, 48, 13154-13161.	1.6	12
40	Giant anisotropic thermal expansion actuated by thermodynamically assisted reorientation of imidazoliums in a single crystal. Nature Communications, 2019, 10, 4805.	5 . 8	39
41	Role of Amino Acid Residues for Dioxygen Activation in the Second Coordination Sphere of the Dicopper Site of pMMO. Inorganic Chemistry, 2019, 58, 12280-12288.	1.9	8
42	Mechanistic Insights into Methane Oxidation by Molecular Oxygen under Photoirradiation: Controlled Radical Chain Reactions. Bulletin of the Chemical Society of Japan, 2019, 92, 1840-1846.	2.0	1
43	An Azulene-Based Chiral Helicene and Its Air-Stable Cation Radical. Bulletin of the Chemical Society of Japan, 2019, 92, 1867-1873.	2.0	21
44	Formation of a Ruthenium(V)â€"Imido Complex and the Reactivity in Substrate Oxidation in Water through the Nitrogen Non-Rebound Mechanism. Inorganic Chemistry, 2019, 58, 12815-12824.	1.9	8
45	Cupric-superoxide complex that induces a catalytic aldol reaction-type C–C bond formation. Communications Chemistry, 2019, 2, .	2.0	19
46	Local structures and electronic properties of In atoms in In-doped ZnO. Thin Solid Films, 2019, 685, 428-433.	0.8	3
47	Dual Catalytic Cycle of H2 and H2O Oxidations by a Half-Sandwich Iridium Complex: A Theoretical Study. Inorganic Chemistry, 2019, 58, 7274-7284.	1.9	4
48	Methane selective oxidation to methanol by metal-exchanged zeolites: a review of active sites and their reactivity. Catalysis Science and Technology, 2019, 9, 1744-1768.	2.1	148
49	High-Temperature Cooperative Spin Crossover Transitions and Single-Crystal Reflection Spectra of [FellI(qsal)2](CH3OSO3) and Related Compounds. Crystals, 2019, 9, 81.	1.0	11
50	Real-space observation of far- and near-field-induced photolysis of molecular oxygen on an Ag(110) surface by visible light. Journal of Chemical Physics, 2019, 151 , 144705 .	1.2	14
51	Temperature dependence of spherical electron transfer in a nanosized [Fe14] complex. Nature Communications, 2019, 10, 5510.	5.8	12
52	Visible light-driven cross-coupling reactions of alkyl halides with phenylacetylene derivatives for C(sp ³)–C(sp) bond formation catalyzed by a B ₁₂ complex. Chemical Communications, 2019, 55, 13070-13073.	2.2	33
53	Redox behaviour of the \hat{I}^2 -dihydroporphycene cobalt complex: study on the effect of hydrogenation of the ligand. Dalton Transactions, 2019, 48, 872-881.	1.6	4
54	Disilaruthena- and Ferracyclic Complexes Containing Isocyanide Ligands as Effective Catalysts for Hydrogenation of Unfunctionalized Sterically Hindered Alkenes. Journal of the American Chemical Society, 2018, 140, 4119-4134.	6.6	38

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55	Trithiazolyl-1,3,5-triazines bearing decyloxybenzene moieties: synthesis, photophysical and electrochemical properties, and self-assembly behavior. Organic and Biomolecular Chemistry, 2018, 16, 3584-3595.	1.5	8
56	Cobalt–Carbon Bond Formation Reaction via Ligand Reduction of Porphycene–Cobalt(II) Complex and Its Noninnocent Reactivity. ACS Omega, 2018, 3, 4027-4034.	1.6	17
57	Methane Partial Oxidation over [Cu ₂ $(\hat{l}/4-O)$] ²⁺ and [Cu ₃ $(\hat{l}/4-O)$ ₃] ²⁺ Active Species in Large-Pore Zeolites. ACS Catalysis, 2018, 8, 1500-1509.	5.5	104
58	Contribution of Coulomb Interactions to a Two-Step Crystal Structure Phase Transformation Coupled with a Significant Change in Spin Crossover Behavior for a Series of Charged Fe ^{II} Complexes from 2,6-Bis(2-methylthiazol-4-yl)pyridine. Inorganic Chemistry, 2018, 57, 1277-1287.	1.9	17
59	Two Discrete RuCp* (Cp*=Pentamethylcyclopentadienyl) Binding Modes of Nâ€Confused Porphyrins: Peripheral π Complex and Sitting Atop Ruthenocenophane Complex by Skeletal Transformation. Chemistry - A European Journal, 2018, 24, 6742-6746.	1.7	5
60	Intermediate-Spin Iron(III) Complexes Having a Redox-Noninnocent Macrocyclic Tetraamido Ligand. Inorganic Chemistry, 2018, 57, 9683-9695.	1.9	13
61	NH Tautomerism of a Quadruply Fused Porphyrin: Rigid Fused Structure Delays the Proton Transfer. Journal of Physical Chemistry B, 2018, 122, 316-327.	1.2	2
62	Catalytic Performance of a Dicopper–Oxo Complex for Methane Hydroxylation. Inorganic Chemistry, 2018, 57, 8-11.	1.9	20
63	Formation and Isolation of a Fourâ€Electronâ€Reduced Porphyrin Derivative by Reduction of a Stable 20Ï€ Isophlorin. Angewandte Chemie - International Edition, 2018, 57, 1973-1977.	7.2	10
64	Importance of the Reactant-State Potentials of Chromium(V)–Oxo Complexes to Determine the Reactivity in Hydrogen-Atom Transfer Reactions. Inorganic Chemistry, 2018, 57, 13929-13936.	1.9	8
65	Theoretical Overview of Methane Hydroxylation by Copper–Oxygen Species in Enzymatic and Zeolitic Catalysts. Accounts of Chemical Research, 2018, 51, 2382-2390.	7.6	85
66	A Cocatalyst that Stabilizes a Hydride Intermediate during Photocatalytic Hydrogen Evolution over a Rhodiumâ€Doped TiO ₂ Nanosheet. Angewandte Chemie - International Edition, 2018, 57, 9073-9077.	7.2	62
67	Mechanistic Insights into Homogeneous Electrocatalytic and Photocatalytic Hydrogen Evolution Catalyzed by High-Spin Ni(II) Complexes with S ₂ N ₂ -Type Tetradentate Ligands. Inorganic Chemistry, 2018, 57, 7180-7190.	1.9	47
68	A Cocatalyst that Stabilizes a Hydride Intermediate during Photocatalytic Hydrogen Evolution over a Rhodiumâ€Doped TiO ₂ Nanosheet. Angewandte Chemie, 2018, 130, 9211-9215.	1.6	14
69	Ground-State Copper(III) Stabilized by N-Confused/N-Linked Corroles: Synthesis, Characterization, and Redox Reactivity. Journal of the American Chemical Society, 2018, 140, 6883-6892.	6.6	45
70	Dioxygen Activation on Cu-MOR Zeolite: Theoretical Insights into the Formation of Cu ₂ O and Cu ₃ O ₃ Active Species. Inorganic Chemistry, 2018, 57, 10146-10152.	1.9	37
71	<i>i>i/i>-CAM Mechanisms for the Hydrogenation of Alkenes by <i>cis</i>- and <i>trans</i>-Disilametallacyclic Carbonyl Complexes (M = Fe, Ru, Os): Experimental and Theoretical Studies. Bulletin of the Chemical Society of Japan, 2017, 90, 613-626.</i>	2.0	9
72	Thermodynamics and Photodynamics of a Monoprotonated Porphyrin Directly Stabilized by Hydrogen Bonding with Polar Protic Solvents. Chemistry - A European Journal, 2017, 23, 4669-4679.	1.7	13

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73	Synergy of Electrostatic and van der Waals Interactions in the Adhesion of Epoxy Resin with Carbon-Fiber and Glass Surfaces. Bulletin of the Chemical Society of Japan, 2017, 90, 500-505.	2.0	22
74	Roles of Zeolite Confinement and Cu–O–Cu Angle on the Direct Conversion of Methane to Methanol by [Cu ₂ (μ-O)] ²⁺ -Exchanged AEI, CHA, AFX, and MFI Zeolites. ACS Catalysis, 2017, 7, 3741-3751.	5 . 5	129
75	Catalytic C–H amination driven by intramolecular ligand-to-nitrene one-electron transfer through a rhodium(<scp>iii</scp>) centre. Chemical Communications, 2017, 53, 4849-4852.	2.2	32
76	Formation of supramolecular hetero-triads by controlling the hydrogen bonding of conjugate bases with a diprotonated porphyrin based on electrostatic interaction. Chemical Communications, 2017, 53, 6359-6362.	2.2	7
77	Isolation and phototransformation of enantiomerically pure iridium(iii) bis[(4,6-difluorophenyl)pyridinato-N,C2]picolinate. RSC Advances, 2017, 7, 29550-29553.	1.7	1
78	Specific Enhancement of Catalytic Activity by a Dicopper Core: Selective Hydroxylation of Benzene to Phenol with Hydrogen Peroxide. Angewandte Chemie - International Edition, 2017, 56, 7779-7782.	7.2	77
79	Anisotropic Change in the Magnetic Susceptibility of a Dynamic Single Crystal of a Cobalt(II) Complex. Angewandte Chemie - International Edition, 2017, 56, 717-721.	7.2	30
80	Anisotropic Change in the Magnetic Susceptibility of a Dynamic Single Crystal of a Cobalt(II) Complex. Angewandte Chemie, 2017, 129, 735-739.	1.6	7
81	Acid–Base Properties of a Freebase Form of a Quadruply Ring-Fused Porphyrin—Stepwise Protonation Induced by Rigid Ring-Fused Structure. Journal of Organic Chemistry, 2017, 82, 322-330.	1.7	13
82	Theoretical Investigation of Methane Hydroxylation over Isoelectronic [FeO] ²⁺ - and [MnO] ⁺ -Exchanged Zeolites Activated by N ₂ O. Inorganic Chemistry, 2017, 56, 10370-10380.	1.9	32
83	Photochemical Intramolecular Câ^'H Addition of Dimesityl(hetero)arylboranes through a [1,6]â€6igmatropic Rearrangement. Angewandte Chemie, 2017, 129, 12378-12382.	1.6	7
84	Photocatalytic alkene reduction by a B $<$ sub $>$ 12 $<$ /sub $>$ â \in "TiO $<$ sub $>$ 2 $<$ /sub $>$ hybrid catalyst coupled with Câ \in "F bond cleavage for gem-difluoroolefin synthesis. Chemical Communications, 2017, 53, 9478-9481.	2.2	37
85	Photochemical Intramolecular Câ^'H Addition of Dimesityl(hetero)arylboranes through a [1,6]â€6igmatropic Rearrangement. Angewandte Chemie - International Edition, 2017, 56, 12210-12214.	7.2	21
86	Efficient 1H NMR chiral discrimination of sulfoxides caused by the dynamic nature of (R,R)-3′,3″-biBINOL. Tetrahedron: Asymmetry, 2017, 28, 1587-1590.	1.8	1
87	Specific Enhancement of Catalytic Activity by a Dicopper Core: Selective Hydroxylation of Benzene to Phenol with Hydrogen Peroxide. Angewandte Chemie, 2017, 129, 7887-7890.	1.6	11
88	An Azuleneâ€Fused Tetracene Diimide with a Small HOMO–LUMO Gap. ChemPlusChem, 2017, 82, 1010-1014.	1.3	45
89	The Role of Coulomb Interactions for Spin Crossover Behaviors and Crystal Structural Transformation in Novel Anionic Fe(III) Complexes from a π-Extended ONO Ligand. Crystals, 2016, 6, 49.	1.0	15
90	Mechanistic Insights into C–H Oxidations by Ruthenium(III)-Pterin Complexes: Impact of Basicity of the Pterin Ligand and Electron Acceptability of the Metal Center on the Transition States. Journal of the American Chemical Society, 2016, 138, 9508-9520.	6.6	22

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91	Formation and High Reactivity of the <i>anti</i> êDioxo Form of Highâ€Spin μâ€Oxodioxodiiron(IV) as the Active Species That Cleaves Strong Câ^'H Bonds. Chemistry - A European Journal, 2016, 22, 5924-5936.	1.7	21
92	A New Family of Anionic Fe ^{III} Spin Crossover Complexes Featuring a Weakâ€Field N ₂ O ₄ Coordination Octahedron. Chemistry - A European Journal, 2016, 22, 1253-1257.	1.7	39
93	Frontispiece: Heterometallic Fe ^{III} /K Coordination Polymer with a Wide Thermal Hysteretic Spin Transition at Room Temperature. Chemistry - A European Journal, 2016, 22, .	1.7	1
94	Thermally Induced Intraâ€Carboxyl Proton Shuttle in a Molecular Rackâ€andâ€Pinion Cascade Achieving Macroscopic Crystal Deformation. Angewandte Chemie - International Edition, 2016, 55, 14628-14632.	7.2	25
95	A Ruthenium(III)–Oxyl Complex Bearing Strong Radical Character. Angewandte Chemie - International Edition, 2016, 55, 14041-14045.	7.2	34
96	Theoretical Study of the Catalytic Hydrogenation of Alkenes by a Disilaferracyclic Complex: Can the Feâ \in Si İf-Bond-Assisted Activation of Hâ \in H Bonds Allow Development of a Catalysis of Iron?. Journal of Organic Chemistry, 2016, 81, 10900-10911.	1.7	18
97	Push–pull fluorenones and benzazulenequinones: regioselective [4+2] and [2+2] cycloadditions of benzopentalenequinone derivative and alkynes bearing an aniline moiety. Tetrahedron Letters, 2016, 57, 4604-4607.	0.7	8
98	Computational Study of Cyclobutane-1,3-diylidene Dicarbenes: Ground-State Spin Multiplicity and New Strategy toward the Synthesis of Bicyclo $[1.1.0]$ but- $1(3)$ -enes. Bulletin of the Chemical Society of Japan, 2016, 89, 770-778.	2.0	7
99	Synthesis and Structure of a Water-soluble Âμ-Î- ¹ :Î- ¹ -N ₂ Dinuclear Ru ^{ll} Complex with a Polyamine Ligand. Chemistry Letters, 2016, 45, 149-151.	0.7	4
100	Thermally Induced Intraâ€Carboxyl Proton Shuttle in a Molecular Rackâ€andâ€Pinion Cascade Achieving Macroscopic Crystal Deformation. Angewandte Chemie, 2016, 128, 14848-14852.	1.6	2
101	A Ruthenium(III)–Oxyl Complex Bearing Strong Radical Character. Angewandte Chemie, 2016, 128, 14247-14251.	1.6	15
102	Superior thermoelasticity and shape-memory nanopores in a porous supramolecular organic framework. Nature Communications, 2016, 7, 11564.	5.8	58
103	Direct Conversion of Methane to Methanol by Metal-Exchanged ZSM-5 Zeolite (Metal = Fe, Co, Ni, Cu). ACS Catalysis, 2016, 6, 8321-8331.	5.5	141
104	Directional Electron Transfer in Crystals of [CrCo] Dinuclear Complexes Achieved by Chirality-Assisted Preparative Method. Journal of the American Chemical Society, 2016, 138, 14170-14173.	6.6	46
105	Heterometallic Fe ^{III} /K Coordination Polymer with a Wide Thermal Hysteretic Spin Transition at Room Temperature. Chemistry - A European Journal, 2016, 22, 532-538.	1.7	34
106	Frontispiece: Formation and High Reactivity of the <i>anti</i> â€Dioxo Form of Highâ€Spin μâ€Oxodioxodiiron(IV) as the Active Species That Cleaves Strong Câ^'H Bonds. Chemistry - A European Journal, 2016, 22, .	1.7	0
107	Homogeneous Photocatalytic Water Oxidation with a Dinuclear Co ^{III} –Pyridylmethylamine Complex. Inorganic Chemistry, 2016, 55, 1154-1164.	1.9	73
108	Persistent four-coordinate iron-centered radical stabilized by π-donation. Chemical Science, 2016, 7, 191-198.	3.7	16

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109	Possible Peroxo State of the Dicopper Site of Particulate Methane Monooxygenase from Combined Quantum Mechanics and Molecular Mechanics Calculations. Inorganic Chemistry, 2016, 55, 2771-2775.	1.9	28
110	Controlling the redox properties of a pyrroloquinolinequinone (PQQ) derivative in a ruthenium(<scp>ii</scp>) coordination sphere. Dalton Transactions, 2015, 44, 3151-3158.	1.6	10
111	A ferromagnetically coupled Fe42 cyanide-bridged nanocage. Nature Communications, 2015, 6, 5955.	5.8	104
112	<i>ci>cis</i> -1,2-Aminohydroxylation of Alkenes Involving a Catalytic Cycle of Osmium(III) and Osmium(V) Centers: Os ^V (O)(NHTs) Active Oxidant with a Macrocyclic Tetradentate Ligand. Inorganic Chemistry, 2015, 54, 7073-7082.	1.9	13
113	Proton-Assisted Mechanism of NO Reduction on a Dinuclear Ruthenium Complex. Inorganic Chemistry, 2015, 54, 7181-7191.	1.9	19
114	Mechanistic study of methanol oxidation by RulV–oxo complexes. Journal of Porphyrins and Phthalocyanines, 2015, 19, 417-426.	0.4	1
115	Redox-Noninnocent Behavior of Tris(2-pyridylmethyl)amine Bound to a Lewis Acidic Rh(III) Ion Induced by C–H Deprotonation. Journal of the American Chemical Society, 2015, 137, 11222-11225.	6.6	16
116	Assembling an alkyl rotor to access abrupt and reversible crystalline deformation of a cobalt(II) complex. Nature Communications, 2015, 6, 8810.	5.8	69
117	Gasâ€phase acidity of 1,1â€bis(trifluoromethanesulfonyl)propane derivatives and related compounds: experimental and theoretical studies. Journal of Physical Organic Chemistry, 2015, 28, 181-186.	0.9	5
118	Formation and characterization of a reactive chromium(<scp>v</scp>)–oxo complex: mechanistic insight into hydrogen-atom transfer reactions. Chemical Science, 2015, 6, 945-955.	3.7	37
119	Binding of Scandium Ions to Metalloporphyrin–Flavin Complexes for Long‣ived Charge Separation. Chemistry - A European Journal, 2014, 20, 15518-15532.	1.7	7
120	Role of Acidic Proton in the Decomposition of NO over Dimeric Cu(I) Active Sites in Cu-ZSM-5 Catalyst: A QM/MM Study. ACS Catalysis, 2014, 4, 2075-2085.	5 . 5	33
121	Tetranuclear Ruthenium(II) Complex with a Dinucleating Ligand Forming Multi-Mixed-Valence States. Inorganic Chemistry, 2014, 53, 12677-12679.	1.9	0
122	Roles of carboxylate donors in O–O bond scission of peroxodi-iron(<scp>iii</scp>) to high-spin oxodi-iron(<scp>iv</scp>) with a new carboxylate-containing dinucleating ligand. Chemical Science, 2014, 5, 2282-2292.	3.7	19
123	Molecular motor-driven abrupt anisotropic shape change in a single crystal of a Ni complex. Nature Chemistry, 2014, 6, 1079-1083.	6.6	111
124	Hydrogen atom abstraction reactions independent of Câ€"H bond dissociation energies of organic substrates in water: significance of oxidantâ€"substrate adduct formation. Chemical Science, 2014, 5, 1429-1436.	3.7	33
125	Computational Prediction for Singlet- and Triplet-Transition Energies of Charge-Transfer Compounds. Journal of Chemical Theory and Computation, 2013, 9, 3872-3877.	2.3	312
126	A light-induced spin crossover actuated single-chain magnet. Nature Communications, 2013, 4, .	5.8	162

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127	Multiâ€Step Spin Crossover Accompanied by Symmetry Breaking in an Fe ^{III} Complex: Crystallographic Evidence and DFT Studies. Chemistry - A European Journal, 2013, 19, 12948-12952.	1.7	89
128	DFT study of the mechanism for methane hydroxylation by soluble methane monooxygenase (sMMO): effects of oxidation state, spin state, and coordination number. Dalton Transactions, 2013, 42, 1011-1023.	1.6	40
129	Thiophene-Fused Bisdehydro [12] annulene That Undergoes Transannular Alkyne Cycloaddition by Either Light or Heat. Journal of the American Chemical Society, 2013, 135, 1731-1734.	6.6	29
130	Complete Photochromic Structural Changes in Ruthenium(II)Diimine Complexes, Based on Control of the Excited States by Metalation. Chemistry - A European Journal, 2013, 19, 8978-8990.	1.7	6
131	Multiply-fused porphyrins—effects of extended π-conjugation on the optical and electrochemical properties. Chemical Communications, 2013, 49, 5939.	2.2	56
132	Role of Tyrosine Residue in Methane Activation at the Dicopper Site of Particulate Methane Monooxygenase: A Density Functional Theory Study. Inorganic Chemistry, 2013, 52, 7907-7917.	1.9	58
133	Reversible Electron Transfer in a Linear {Fe ₂ Co} Trinuclear Complex Induced by Thermal Treatment and Photoirraditaion. Angewandte Chemie - International Edition, 2012, 51, 4367-4370.	7.2	81
134	Substituent Effects in Thermal Reactions of a Silene with Silyl-Substituted Alkynes: A Theoretical Study. Organometallics, 2012, 31, 4737-4747.	1.1	7
135	Theoretical Study of Oxidation of Cyclohexane Diol to Adipic Anhydride by [RuIV(O)(tpa)(H2O)]2+Complex (tpa â••Tris(2-pyridylmethyl)amine). Inorganic Chemistry, 2011, 50, 6200-6209.	1.9	10
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