

Hiroaki Iguchi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Porous Molecular Conductor: Electrochemical Fabrication of Through-Space Conduction Pathways among Linear Coordination Polymers. <i>Journal of the American Chemical Society</i> , 2019, 141, 6802-6806.	13.7	94
2	Direct Observation of Ordered High-Spin/Low-Spin Intermediate States of an Iron(III) Three-Step Spin-Crossover Complex. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5184-5189.	13.8	59
3	Multiple-Hydrogen-Bond Approach to Uncommon Pd(III) Oxidation State: A Pd-Br Chain with High Conductivity and Thermal Stability. <i>Journal of the American Chemical Society</i> , 2017, 139, 6562-6565.	13.7	39
4	Mixed Charge-Ordering State of MMX-Type Quasi-One-Dimensional Iodide-Bridged Platinum Complexes with Binary Counteranions. <i>Journal of the American Chemical Society</i> , 2008, 130, 17668-17669.	13.7	26
5	Water-Vapor-Induced Reversible Switching of Electronic States in an MMX-Type Chain Complex with Retention of Single Crystallinity. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 552-555.	13.8	23
6	Electron-Conductive Metal-Organic Framework, Fe(dhbq)(dhbq = 2,5-Dihydroxy-1,4-benzoquinone): Coexistence of Microporosity and Solid-State Redox Activity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38188-38193.	8.0	21
7	Emergence of electrical conductivity in a flexible coordination polymer by using chemical reduction. <i>Chemical Communications</i> , 2020, 56, 8619-8622.	4.1	19
8	Negative Differential Resistance in MX- and MMX-Type Iodide-Bridged Platinum Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 13812-13814.	4.0	18
9	Recent Progress in MMX-Chain Complexes: Unique Electronic States and Characteristics Developed by Introducing Binary Counteranions. <i>Chemistry Letters</i> , 2014, 43, 69-79.	1.3	18
10	Optically Visible Phase Separation between Mott-Hubbard and Charge-Density-Wave Domains in a Pd-Br Chain Complex. <i>ChemistrySelect</i> , 2016, 1, 259-263.	1.5	18
11	Charge-bistable Pd(III)/Pd(II,IV) coordination polymers: phase transitions and their applications to optical properties. <i>Dalton Transactions</i> , 2015, 44, 8590-8599.	3.3	17
12	Direct Observation of Ordered High-Spin/Low-Spin Intermediate States of an Iron(III) Three-Step Spin-Crossover Complex. <i>Angewandte Chemie</i> , 2016, 128, 5270-5275.	2.0	17
13	Photoresponsive Nanosheets of Polyoxometalates Formed by Controlled Self-Assembly Pathways. <i>Angewandte Chemie</i> , 2017, 129, 3020-3024.	2.0	17
14	Smallest Optical Gap for Pt(II)-Pt(IV) Mixed-Valence Pt-Cl and Pt-Br Chain Complexes Achieved by Using a Multiple-Hydrogen-Bond Approach. <i>Inorganic Chemistry</i> , 2019, 58, 114-120.	4.0	15
15	Macro- and atomic-scale observations of a one-dimensional heterojunction in a nickel and palladium nanowire complex. <i>Nature Communications</i> , 2022, 13, 1188.	12.8	15
16	Versatile Vapochromic Behavior Accompanied by a Phase Change between Charge-Polarization State and Charge-Density-Wave State in a Quasi-One-Dimensional Iodo-Bridged Dinuclear Platinum Mixed-Valence Compound, [NH ₃ (CH ₂) ₅ NH ₃] ₂ [Pt ₂ (pop) ₄]·4H ₂ O. <i>Bulletin of the Chemical Society of Japan</i> , 2006, 79, 1404-1406.	3.2	14
17	Direct Synthesis and Crystal Structure of Dehydrated State in Vapochromic MMX-type Quasi-One-Dimensional Iodide-Bridged Platinum Complexes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2009, 19, 85-90.	3.7	14
18	Controlling the Electronic States and Physical Properties of MMX-Type Diplatinum-Iodide Chain Complexes via Binary Counteranions. <i>Inorganic Chemistry</i> , 2012, 51, 9967-9977.	4.0	13

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19	Simultaneous Spin-Crossover Transition and Conductivity Switching in a Dinuclear Iron(II) Coordination Compound Based on 7,7,8,8-tetracyano-p-quinodimethane. <i>Chemistry - A European Journal</i> , 2020, 26, 1278-1285.	3.3	12
20	Preliminary chemical reduction for synthesizing a stable porous molecular conductor with neutral metal nodes. <i>Chemical Communications</i> , 2020, 56, 13109-13112.	4.1	12
21	MX-Chain Compounds with ReO_4 Counterions: Exploration of the Robin-Day Class II Boundary. <i>Inorganic Chemistry</i> , 2018, 57, 3775-3781.	4.0	11
22	Organic-Inorganic Hybrid Gold Halide Perovskites: Structural Diversity through Cation Size. <i>Chemistry - A European Journal</i> , 2019, 25, 9885-9891.	3.3	11
23	Three-Dimensionally Ordered CDW State in Quasi-One-Dimensional Iodo-Bridged Dinuclear Platinum Mixed-Valence Compounds, $\text{A}_4[\text{Pt}_2\text{I}(\text{pop})_4]_n \cdot \text{H}_2\text{O}$ (A = Aromatic Ammonium) <i>J. Electroanal. Chem.</i> 2019, 843, 1-14	2.0	10
24	Continuous Control of Optical Gaps in Quasi-One-Dimensional Bromide-Bridged Platinum Complexes by Utilizing Chemical Pressure. <i>Inorganic Chemistry</i> , 2014, 53, 11764-11769.	4.0	10
25	Water-vapor Sensitive Spin-state Switching in an Iron(III) Complex with Nucleobase Pendants Making Flexible Hydrogen-bonded Networks. <i>Chemistry Letters</i> , 2019, 48, 1221-1224.	1.3	10
26	Conductive zigzag Pd(III)-Br chain complex realized by a multiple-hydrogen-bond approach. <i>CrystEngComm</i> , 2020, 22, 3999-4004.	2.6	10
27	An unusual Pd(III) oxidation state in the Pd-Cl chain complex with high thermal stability and electrical conductivity. <i>Dalton Transactions</i> , 2021, 50, 1614-1619.	3.3	9
28	Three dimensional porous Hofmann clathrate $[\text{M}^{\text{II}}\text{Pt}^{\text{II}}(\text{CN})_4]_n$ (M = Co, Ni) synthesized by using postsynthetic reductive elimination. <i>Chemical Communications</i> , 2017, 53, 6512-6515.	4.1	8
29	An electrically conductive metallocycle: densely packed molecular hexagons with π -stacked radicals. <i>Chemical Science</i> , 2022, 13, 4902-4908.	7.4	8
30	Ni(III) Mott-Hubbard-like State Containing High-Spin Ni(II) in a Semiconductive Bromide-Bridged Ni-Chain Compound. <i>Inorganic Chemistry</i> , 2022, 61, 9504-9513.	4.0	8
31	Solid-State Electrochemistry of a Semiconducting MMX-Type Diplatinum Iodide Chain Complex. <i>Inorganic Chemistry</i> , 2014, 53, 4022-4028.	4.0	7
32	Novel Counteranion in MMX-Type Mixed-Valence Chain Compound: Coexistence of Neutral and Protonated Amino Substituents. <i>Polymers</i> , 2011, 3, 1652-1661.	4.5	6
33	MX-type single chain complexes with an aromatic in-plane ligand: incorporation of aromatic interactions for stabilizing the chain structure. <i>Dalton Transactions</i> , 2019, 48, 7828-7834.	3.3	6
34	Elucidating 2D Charge Density Wave Atomic Structure in an MX-Chain by the 3D Pair Distribution Function Method**. <i>ChemPhysChem</i> , 2022, 23, .	2.1	6
35	Correlation between Chemical and Physical Pressures on Charge Bistability in $[\text{Pd}(\text{en})_2\text{Br}](\text{Suc-C}_i\text{H}_2\text{O})_2$. <i>Inorganic Chemistry</i> , 2018, 57, 12-15.	4.0	5
36	Observation of charge bistability in quasi-one-dimensional halogen-bridged palladium complexes by X-ray absorption spectroscopy. <i>Dalton Transactions</i> , 2019, 48, 11628-11631.	3.3	5

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37	Surface Ohmic Conductivity on a Mott Insulator Based on a One-dimensional Bromide-bridged Nickel(III) Complex. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2947-2951.	3.3	5
38	Bluish Hydrochromic Naphthalenediimide Salt: Change of Hydrogen-bond Interactions as the New Mechanism of Vapochromism. <i>Chemistry Letters</i> , 2021, 50, 1479-1482.	1.3	5
39	Structural Study of Bromide-bridged Pd Chain Complex with Weak CH ^{δ+} ⋯O Hydrogen Bonds. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 646-651.	1.2	4
40	Bromine Vapor Induced Continuous p- to n-Type Conversion of a Semiconductive Metal-Organic Framework Cu[Cu(pdt) ₂]. <i>Inorganic Chemistry</i> , 2022, 61, 4414-4420.	4.0	4
41	Thermally induced electron-hole dissociation dynamics in quasi-one-dimensional bromo-bridged palladium(ⁱⁱⁱ) Mott-insulator [Pd(en) ₂ Br](Suc-C _n) ₂ ⋅H ₂ O (C _n = dialkylsulfosuccinate; n = 5 and 6). <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7978-7982.	2.8	3
42	Electronic Structure of Co ^{III} Doped Bromo-Bridged Ni Complexes, [Ni ^x Co ^x (chxn) ₂ Br] ₂ . <i>Inorganic Chemistry</i> , 2008, 47, 1949-1952.	4.0	2
43	Formation of Pores and π -Stacked Columns in Benzothienobenzothiophene-based Linear Coordination Polymers. <i>Chemistry Letters</i> , 2019, 48, 756-759.	1.3	2
44	Simultaneous Spin-Crossover Transition and Conductivity Switching in a Dinuclear Iron(II) Coordination Compound Based on 7,7,8,8-tetracyano-p-quinodimethane. <i>Chemistry - A European Journal</i> , 2020, 26, 1165-1165.	3.3	2
45	Synthesis, Structure and Physical Properties of (trans-TTF-py ₂) _{1.5} (PF ₆) ₂ ⋅EtOH: A Molecular Conductor with Weak CH ^{δ+} ⋯N Hydrogen Bondings. <i>Crystals</i> , 2020, 10, 1081.	2.2	2
46	Reversible hydrogen adsorption at room temperature using a molybdenum-dihydrogen complex in the solid state. <i>Dalton Transactions</i> , 2021, 50, 12630-12634.	3.3	2
47	Trimetallic Mixture of Ni(III), Pd(III) and Au(III) Ions in a Molecule-Based Bromide-Bridged MX-Chain Compound. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 1032-1038.	3.2	2
48	Predominance of covalency in water-vapor-responsive MMX-type chain complexes revealed by ¹²⁹ I Mössbauer spectroscopy. <i>Dalton Transactions</i> , 2014, 43, 8767-8773.	3.3	1
49	Supramolecular self-assembled coordination architecture composed of a doubly bis(2-pyridyl)pyrazolate bridged dinuclear Cu ^I complex and 7,7,8,8-tetracyano-p-quinodimethanide radicals. <i>CrystEngComm</i> , 2020, 22, 159-163.	2.6	1
50	Interdigitated Pt-Br chains with π -stacking: an approach toward Robin-Day class I mixed valency in MX-chain complexes. <i>Dalton Transactions</i> , 2021, 50, 14125-14129.	3.3	1
51	Charge-density-wave Amplitude in Quasi-one-dimensional Halogen-bridged Palladium Complex, [Pd(15N-en) ₂ Br](Suc-C ₅) ₂ ⋅H ₂ O (Suc-C ₅ = Dipentylsulfosuccinate), Estimated by 15N Solid-state NMR. <i>Chemistry Letters</i> , 2022, 51, 281-283.	1.3	1
52	Self-assembly of Oligo(ethylene oxide)-linked Diammonium Ions with Polyoxometalates into Ordered Polyhedron Nanocrystals in Aqueous Media. <i>Chemistry Letters</i> , 2017, 46, 430-433.	1.3	0
53	Elucidating 2D Charge-Density-Wave Atomic Structure in an MX-Chain by the 3D Pair Distribution Function Method. <i>ChemPhysChem</i> , 2022, 23, e202200120.	2.1	0
54	Syntheses, Structures, and Properties of Coordination Polymers with 2,5-Dihydroxy-1,4-Benzoquinone and 4,4'-Bipyridyl Synthesized by <i>In Situ</i> Hydrolysis Method. <i>ACS Omega</i> , 0, , .	3.5	0