Hiroaki Iguchi

List of Publications by Year
in descending order

54 papers	651 citations	623734 14 h-index	677142 22 g-index
58 all docs	58 docs citations	58 times ranked	612 citing authors

#	Article	IF	Citations
1	Elucidating 2D Chargeâ€Densityâ€Wave Atomic Structure in an MXâ€“Chain by the 3Dâ€Î”Pair Distribution Function Method**. ChemPhysChem, 2022, 23, .	2.1	6
2	Charge-density-wave Amplitude in Quasi-one-dimensional Halogen-bridged Palladium Complex, [Pd(15N-en)2Br](Suc-C5)2Â·H2O (Suc-C5 = Dipentylsulfosuccinate), Estimated by 15N Solid-state NMR. Chemistry Letters, 2022, 51, 281-283.	1.3	1
3	Thermally induced electronâ€“hole dissociation dynamics in quasi-one-dimensional bromo-bridged palladium(<scp>iii</scp>) Mott-insulator [Pd(en)₂Br](Suc-C_{<i>n</i>})₂Â·H₂O (C_{<i>n</i>}-Y = dialkylsulfosuccinate; <i>n</i> = 5 and 6). Physical Chemistry Chemical Physics, 2022, 24, 7978-7982.	2.8	3
4	An electrically conductive metallocycle: densely packed molecular hexagons with Ï€-stacked radicals. Chemical Science, 2022, 13, 4902-4908.	7.4	8
5	Bromine Vapor Induced Continuous p- to n-Type Conversion of a Semiconductive Metalâ€“Organic Framework Cu[Cu(pdt)₂]. Inorganic Chemistry, 2022, 61, 4414-4420.	4.0	4
6	Macro- and atomic-scale observations of a one-dimensional heterojunction in a nickel and palladium nanowire complex. Nature Communications, 2022, 13, 1188.	12.8	15
7	Elucidating 2D Chargeâ€Densityâ€Wave Atomic Structure in an MXâ€“Chain by the 3Dâ€Î”Pair Distribution Function Method. ChemPhysChem, 2022, 23, e202200120.	2.1	0
8	Trimetallic Mixture of Ni(III), Pd(III) and Au(III) Ions in a Molecule-Based Bromide-Bridged MX-Chain Compound. Bulletin of the Chemical Society of Japan, 2022, 95, 1032-1038.	3.2	2
9	Ni(III) Mottâ€“Hubbard-like State Containing High-Spin Ni(II) in a Semiconductive Bromide-Bridged Ni-Chain Compound. Inorganic Chemistry, 2022, 61, 9504-9513.	4.0	8
10	Reversible hydrogen adsorption at room temperature using a molybdenumâ€“dihydrogen complex in the solid state. Dalton Transactions, 2021, 50, 12630-12634.	3.3	2
11	An unusual Pd(<scp>iii</scp>) oxidation state in the Pdâ€“Cl chain complex with high thermal stability and electrical conductivity. Dalton Transactions, 2021, 50, 1614-1619.	3.3	9
12	Interdigitated Ptâ€“Br chains with Ï€-stacking: an approach toward Robinâ€“Day class I mixed valency in MX-chain complexes. Dalton Transactions, 2021, 50, 14125-14129.	3.3	1
13	Surface Ohmic Conductivity on a Mott Insulator Based on a Oneâ€dimensional Bromideâ€bridged Nickel(III) Complex. Chemistry - an Asian Journal, 2021, 16, 2947-2951.	3.3	5
14	Bluish Hydrochromic Naphthalenediimide Salt: Change of Hydrogen-bond Interactions as the New Mechanism of Vapochromism. Chemistry Letters, 2021, 50, 1479-1482.	1.3	5
15	Electron-Conductive Metalâ€“Organic Framework, Fe(dhbq)(dhbq = 2,5-Dihydroxy-1,4-benzoquinone): Coexistence of Microporosity and Solid-State Redox Activity. ACS Applied Materials & Interfaces, 2021, 13, 38188-38193.	8.0	21
16	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.	3.3	12
17	Supramolecular self-assembled coordination architecture composed of a doubly bis(2-pyridyl)pyrazolate bridged dinuclear CuII complex and 7,7â€²,8,8â€²,-tetracyano-p-quinodimethanide radicals. CrystEngComm, 2020, 22, 159-163.	2.6	1
18	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.	3.3	2

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19	Preliminary chemical reduction for synthesizing a stable porous molecular conductor with neutral metal nodes. Chemical Communications, 2020, 56, 13109-13112.	4.1	12
20	Synthesis, Structure and Physical Properties of (trans-TTF-py2)1.5(PF6)Â·EtOH: A Molecular Conductor with Weak CHâˆ™âˆ™âˆ™N Hydrogen Bondings. Crystals, 2020, 10, 1081.	2.2	2
21	Conductive zigzag Pd(iii)â€"Br chain complex realized by a multiple-hydrogen-bond approach. CrystEngComm, 2020, 22, 3999-4004.	2.6	10
22	Emergence of electrical conductivity in a flexible coordination polymer by using chemical reduction. Chemical Communications, 2020, 56, 8619-8622.	4.1	19
23	Water-vapor Sensitive Spin-state Switching in an Iron(III) Complex with Nucleobase Pendants Making Flexible Hydrogen-bonded Networks. Chemistry Letters, 2019, 48, 1221-1224.	1.3	10
24	Observation of charge bistability in quasi-one-dimensional halogen-bridged palladium complexes by X-ray absorption spectroscopy. Dalton Transactions, 2019, 48, 11628-11631.	3.3	5
25	Formation of Pores and Ï€-Stacked Columns in Benzothienobenzothiophene-based Linear Coordination Polymers. Chemistry Letters, 2019, 48, 756-759.	1.3	2
26	Organicâ€"Inorganic Hybrid Gold Halide Perovskites: Structural Diversity through Cation Size. Chemistry - A European Journal, 2019, 25, 9885-9891.	3.3	11
27	MX-type single chain complexes with an aromatic in-plane ligand: incorporation of aromatic interactions for stabilizing the chain structure. Dalton Transactions, 2019, 48, 7828-7834.	3.3	6
28	Porous Molecular Conductor: Electrochemical Fabrication of Through-Space Conduction Pathways among Linear Coordination Polymers. Journal of the American Chemical Society, 2019, 141, 6802-6806.	13.7	94
29	Smallest Optical Gap for Pt(II)â€"Pt(IV) Mixed-Valence Ptâ€"Cl and Ptâ€"Br Chain Complexes Achieved by Using a Multiple-Hydrogen-Bond Approach. Inorganic Chemistry, 2019, 58, 114-120.	4.0	15
30	Correlation between Chemical and Physical Pressures on Charge Bistability in [Pd(en)₂Br](Suc-C_{<i>n</i>})₂Â·H₂O. Inorganic Chemistry, 2018, 57, 12-15.	4.0	5
31	MX-Chain Compounds with ReO₄ Counterions: Exploration of the Robinâ€"Day Class Iâ€"II Boundary. Inorganic Chemistry, 2018, 57, 3775-3781.	4.0	11
32	Structural Study of Bromideâ€Bridged Pd Chain Complex with Weak CHÂ·Â·Â·O Hydrogen Bonds. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 646-651.	1.2	4
33	Self-assembly of Oligo(ethylene oxide)-linked Diammonium Ions with Polyoxometalates into Ordered Polyhedron Nanocrystals in Aqueous Media. Chemistry Letters, 2017, 46, 430-433.	1.3	0
34	Multiple-Hydrogen-Bond Approach to Uncommon Pd(III) Oxidation State: A Pdâ€"Br Chain with High Conductivity and Thermal Stability. Journal of the American Chemical Society, 2017, 139, 6562-6565.	13.7	39
35	Three dimensional porous Hofmann clathrate [M^{II}Pt^{II}(CN)₄]_{âˆž} (M = Co, Ni) synthesized by using postsynthetic reductive elimination. Chemical Communications, 2017, 53, 6512-6515.	4.1	8
36	Photoresponsive Nanosheets of Polyoxometalates Formed by Controlled Selfâ€Assembly Pathways. Angewandte Chemie, 2017, 129, 3020-3024.	2.0	17

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37	Optically Visible Phase Separation between Mott-Hubbard and Charge-Density-Wave Domains in a Pd-Br Chain Complex. ChemistrySelect, 2016, 1, 259-263.	1.5	18
38	Direct Observation of Ordered Highâ€Spinâ€“Lowâ€Spin Intermediate States of an Iron(III) Threeâ€Step Spinâ€Crossover Complex. Angewandte Chemie, 2016, 128, 5270-5275.	2.0	17
39	Direct Observation of Ordered Highâ€Spinâ€“Lowâ€Spin Intermediate States of an Iron(III) Threeâ€Step Spinâ€Crossover Complex. Angewandte Chemie - International Edition, 2016, 55, 5184-5189.	13.8	59
40	Charge-bistable Pd(<scp>iii</scp>)/Pd(<scp>ii</scp>,<scp>iv</scp>) coordination polymers: phase transitions and their applications to optical properties. Dalton Transactions, 2015, 44, 8590-8599.	3.3	17
41	Continuous Control of Optical Gaps in Quasi-One-Dimensional Bromide-Bridged Platinum Complexes by Utilizing Chemical Pressure. Inorganic Chemistry, 2014, 53, 11764-11769.	4.0	10
42	Predominance of covalency in water-vapor-responsive MMX-type chain complexes revealed by ¹²⁹I MÃ¶ssbauer spectroscopy. Dalton Transactions, 2014, 43, 8767-8773.	3.3	1
43	Solid-State Electrochemistry of a Semiconducting MMX-Type Diplatinum Iodide Chain Complex. Inorganic Chemistry, 2014, 53, 4022-4028.	4.0	7
44	Recent Progress in MMX-Chain Complexes: Unique Electronic States and Characteristics Developed by Introducing Binary Countercations. Chemistry Letters, 2014, 43, 69-79.	1.3	18
45	Negative Differential Resistance in MX- and MMX-Type Iodide-Bridged Platinum Complexes. Inorganic Chemistry, 2013, 52, 13812-13814.	4.0	18
46	Controlling the Electronic States and Physical Properties of MMX-Type Diplatinum-Iodide Chain Complexes via Binary Countercations. Inorganic Chemistry, 2012, 51, 9967-9977.	4.0	13
47	Novel Countercation in MMX-Type Mixed-Valence Chain Compound: Coexistence of Neutral and Protonated Amino Substituents. Polymers, 2011, 3, 1652-1661.	4.5	6
48	Waterâ€Vaporâ€Induced Reversible Switching of Electronic States in an MMXâ€Type Chain Complex with Retention of Single Crystallinity. Angewandte Chemie - International Edition, 2010, 49, 552-555.	13.8	23
49	Direct Synthesis and Crystal Structure of Dehydrated State in Vapochromic MMX-type Quasi-One-Dimensional Iodide-Bridged Platinum Complexes. Journal of Inorganic and Organometallic Polymers and Materials, 2009, 19, 85-90.	3.7	14
50	Threeâ€Dimensionally Ordered CDW State in Quasiâ€Oneâ€Dimensional Iodoâ€Bridged Dinuclear Platinum Mixedâ€Valence Compounds, A₄[Pt₂I(pop)₄]Â·<i>n</i>H₂O (A = Aromatic Ammonium) Tj ETQq0 0 0 rgBT /Overlo	2.0	10
51	Electronic Structure of Co^{III} Doped Bromo-Bridged Ni Complexes, [Ni_{1âˆ’<i>x</i>}Co<i>_x</i>(chxn)₂Br]Br₂. Inorganic Chemistry, 2008, 47, 1949-1952.	4.0	2
52	Mixed Charge-Ordering State of MMX-Type Quasi-One-Dimensional Iodide-Bridged Platinum Complexes with Binary Countercations. Journal of the American Chemical Society, 2008, 130, 17668-17669.	13.7	26
53	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, [{NH3(CH2)5NH3}2][Pt2(pop)4I]Â·4H2O. Bulletin of the Chemical Society of Japan, 2006, 79, 1404-1406.	3.2	14
54	Syntheses, Structures, and Properties of Coordination Polymers with 2,5-Dihydroxy-1,4-Benzoquinone and 4,4â€²-Bipyridyl Synthesized by <i>In Situ</i> Hydrolysis Method. ACS Omega, 0, , .	3.5	0