

Hirohiko Houjou

List of Publications by Year in descending order

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103
papers

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times ranked

2435
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#	ARTICLE	IF	CITATIONS
1	Formulation of a phonon band calculation for molecular crystals using a coarse-grained coordinate approach under periodic boundary conditions. <i>Journal of Mathematical Chemistry</i> , 2022, 60, 613-636.	0.7	3
2	Spectroscopic Tracking of Salicylideneaniline Photocolored Crystals: An Attempt to Quantify Polymorph-Dependent Features toward Precise Structure-Function Correlation Analysis. <i>Journal of Physical Chemistry A</i> , 2022, 126, 4164-4175.	1.1	2
3	Molecular Structural Insight into the Cold Crystallization Process of Ionic Liquid Crystals. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10668-10676.	1.5	3
4	Ratchet-like mechanism in a long-life photoproduct of salicylideneaniline enclathrated in a pillared-layer guanidinium disulfonate structure. <i>RSC Advances</i> , 2021, 11, 13739-13742.	1.7	1
5	Insights into the Role of Hydrogen Bonds on the Mechanical Properties of Polymer Networks. <i>Macromolecules</i> , 2021, 54, 4070-4080.	2.2	37
6	Optimizing a coarse-grained space for approximate normal-mode vibrations of molecular heterodimers. <i>Journal of Molecular Modeling</i> , 2021, 27, 140.	0.8	2
7	Homologue Approach, an effective way to modify crystal packing: Distinct Odd-Even Effect on Chromic Functions of Salicylidenealkylamines and Finer Classification of Photochromic Behavior Associated with Crystalline Polymorphs. <i>Crystal Growth and Design</i> , 2021, 21, 4121-4132.	1.4	8
8	Cold Crystallization and the Molecular Structure of Imidazolium-Based Ionic Liquid Crystals with a <i>p</i> -Nitroazobenzene Moiety. <i>ACS Omega</i> , 2021, 6, 32869-32878.	1.6	12
9	Formulation of Phonon Band Calculation Scheme Using Intermolecular Stiffness Matrix Represented upon Coarse-grained Coordinate System.. <i>Journal of Computer Chemistry Japan</i> , 2021, 20, 147-149.	0.0	1
10	Tough Supramolecular Elastomer via Entropy-Driven Hydrogen Bonds between Vicinal Diols. <i>Macromolecules</i> , 2020, 53, 4121-4125.	2.2	21
11	Seed-triggered solid-to-solid transformation between color polymorphs: striking differences between quasi-isomorphous crystals of dichloro-substituted salicylideneaniline regioisomers. <i>CrystEngComm</i> , 2020, 22, 4903-4913.	1.3	3
12	Accurate chiral pattern recognition for amines from just a single chemosensor. <i>Chemical Science</i> , 2020, 11, 3790-3796.	3.7	34
13	Ruthenium Vinylidene Complexes Generated by Selective 1,2-Migration of P- and S-Substituents: Synthesis, Structures, and Dichromism Arising from an Intramolecular CH \cdots O Hydrogen Bond. <i>Organometallics</i> , 2020, 39, 711-718.	1.1	8
14	A superelastochromic crystal. <i>Nature Communications</i> , 2020, 11, 1824.	5.8	61
15	Photochromism of salicylideneanilines bearing super bulky substituents: Single-crystal UV-vis spectroscopic examination of bleaching under variable temperature and visible-light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 385, 112096.	2.0	11
16	Halogen-substituent effect on the spectroscopic properties of 2-phenyl-6-dimethylaminobenzothiazoles. <i>Tetrahedron Letters</i> , 2019, 60, 1702-1705.	0.7	3
17	Development of Imidazo[1,2- <i>a</i>]pyridine Derivatives with an Intramolecular Hydrogen-Bonded Seven-Membered Ring Exhibiting Bright ESIPT Luminescence in the Solid State. <i>Organic Letters</i> , 2019, 21, 2143-2146.	2.4	34
18	Spectroscopic properties of push-pull 2-(4-carboxyphenyl)-6-dimethylaminobenzothiazole derivatives in solution and the solid state. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 376, 324-332.	2.0	3

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19	Re-evaluation of the <i>tert</i> -Butyl Method in Crystal Engineering of Salicylideneanilines by Simultaneous Observation of Photochromism and Thermochromism in Single Crystals. <i>Crystal Growth and Design</i> , 2019, 19, 1384-1390.	1.4	19
20	Insight into Structural Demand for Cold Crystallization of a Small Molecule. A Case Study for Schiff Base Compounds that Exhibit Prototropic Tautomerization. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 669-677.	2.0	19
21	Thermal and spectroscopic studies on the modification of the crystalline structure of a Schiff-base complex induced by a co-existing metallofoldamer in eutectic mixtures. <i>Thermochimica Acta</i> , 2018, 669, 52-59.	1.2	1
22	Dinuclear Nickel Complexes Doubly Bridged by Hydrogencyanamido Ligands: Synthesis, Structures and Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 3413-3417.	1.0	1
23	Indices to evaluate the reliability of coarse-grained representations of mixed inter/intramolecular vibrations. <i>Journal of Molecular Modeling</i> , 2018, 24, 221.	0.8	4
24	Dinuclear fused salen complexes of group-10 metals: Peculiarity of the crystal structure and near-infrared luminescence of a bis(Pt-salen) complex. <i>Inorganica Chimica Acta</i> , 2017, 461, 27-34.	1.2	12
25	Spontaneous ligand nitrosation and self-assembly into a pentacopper metallacrown complex. <i>Dalton Transactions</i> , 2017, 46, 2760-2764.	1.6	5
26	Synthesis and Properties of Salicylaldehydes Fine-Tuned by Modular Assembly using Plug-and-Socket Type Extendibility. <i>Chemistry - A European Journal</i> , 2017, 23, 8286-8294.	1.7	4
27	Systematic investigations on fused π -system compounds of seven benzene rings prepared by photocyclization of diphenanthrylenes. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 925-934.	1.6	17
28	Single-crystal UV-vis spectroscopic examination of a striking odd-even effect on structure and chromic behaviour of salicylidene alkylamines. <i>Chemical Communications</i> , 2017, 53, 10898-10901.	2.2	15
29	Modelling intra- and intermolecular vibrations under the harmonic oscillator approximation: from symmetry-adapted to coarse-grained coordinate approaches. <i>Journal of Mathematical Chemistry</i> , 2017, 55, 532-551.	0.7	7
30	Effects of interaction between the chelate rings and π -conjugated systems in fused salphen complexes on UV-Vis-NIR spectra. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3635.	0.9	3
31	Cationic Co-Salphen Complexes Bisligated by DMAP as Catalysts for the Copolymerization of Cyclohexene Oxide with Phthalic Anhydride or Carbon Dioxide. <i>Macromolecules</i> , 2017, 50, 7895-7900.	2.2	31
32	Effects of a semiflexible linker on the mechanochromic photoluminescence of bis(Pt-salen) complex. <i>Polyhedron</i> , 2016, 113, 123-131.	1.0	14
33	Supercooling and Cold Crystallization of Ni-salphen Complexes by Hybridization with Bis(Ni-salphen) Containing a Semiflexible Linker. <i>Chemistry Letters</i> , 2016, 45, 1415-1417.	0.7	9
34	Quantification of Inter/intramolecular Stiffness by Coarse-graining Intermolecular Vibrations of Homo/hetero-dimers. <i>Journal of Computer Chemistry Japan</i> , 2016, 15, 60-62.	0.0	2
35	Photooxidation and Photoluminescence of Triarylmethane Dye-Conjugated Zinc Complexes: Optical Anisotropy and Optical Activity Emerging from Distinct Crystal Packing Modes. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 698-705.	2.0	3
36	Structural Isomerization and Cold Crystallization of Bis[1-(2-propyl)iminomethylnaphthalen-2-olato]nickel(II) by Thermal Analysis, X-ray Diffraction, and FT-IR. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 989-995.	2.0	12

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37	Solid-State Characterization of a Fused Salphen ^â Nickel Metallopolymer Prepared via Transmetalation in a Heterogeneous Reaction System. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 906-911.	1.9	2
38	Triarylmethane dye-conjugated hexanuclear zinc complexes: Photophysical properties and cyanide anion-binding behavior. <i>Dyes and Pigments</i> , 2015, 121, 372-378.	2.0	3
39	Cold Crystallization in Schiff-Base Nickel(II) Complexes Derived from Three Toluidine Isomers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27664-27671.	1.5	30
40	Spontaneous helical folding of bis(Ni-salphen) complexes in solution and in the solid state: spectroscopic tracking of the unfolding process induced by Na ⁺ ions. <i>Dalton Transactions</i> , 2014, 43, 5899.	1.6	8
41	Influence of intermolecular interactions on solid state luminescence of imidazopyridines: theoretical interpretations using FMO-TDDFT and ONIOM approaches. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14388.	1.3	19
42	Spectroscopic Tracking of Schiff Base Compounds ^â ™ Hydrogen Bonding Reorganization Associated with Solid-to-Solid Phase Transition. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6979-6984.	1.1	1
43	Mutual Interference between Intramolecular Proton Transfer Sites through the Adjoining π -Conjugated System in Schiff Bases of Double-Headed, Fused Salicylaldehydes. <i>Journal of Organic Chemistry</i> , 2013, 78, 9021-9031.	1.7	20
44	Striking effects of cobalt (III) nuclearity in fused salphen complexes on their electroconductivity and thin film transistor activity. <i>Organic Electronics</i> , 2013, 14, 3472-3476.	1.4	5
45	A Redox-Active, Amphoteric Pyrogallolaldehyde Derivative: Electrochemical Characterization and Schiff Base Formation for Constructing Multifunctional Salphen Complexes. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 698-706.	2.0	1
46	Cold Crystallization in Bis[1-(3-methylphenyl)iminomethylnaphthalen-2-olato]nickel(II) Studied by Thermal Analysis and X-ray Diffraction. <i>Chemistry Letters</i> , 2013, 42, 1040-1042.	0.7	9
47	Excited-State Intramolecular Proton Transfer (ESIPT) Emission of Hydroxyphenylimidazopyridine: Computational Study on Enhanced and Polymorph-Dependent Luminescence in the Solid State. <i>Journal of Physical Chemistry A</i> , 2012, 116, 12041-12048.	1.1	91
48	Facile Preparation of a Fully π -Conjugated Metallopolymer Composed of Fused Salphen Complexes. <i>Macromolecular Rapid Communications</i> , 2012, 33, 540-544.	2.0	18
49	Relation between Crystal Packing and Optical Anisotropy for Schiff Base-Nickel Complexes that Form Various Ladder-like Hydrogen-Bonding Networks. <i>Crystal Growth and Design</i> , 2011, 11, 5113-5121.	1.4	18
50	Comparison of the Spectroscopic Properties of π -Conjugated, Fused Salphen Triads Embedded with Zn-Homo-, Ni-Homo-, and Ni/Zn-Heteronuclei. <i>Inorganic Chemistry</i> , 2011, 50, 5298-5306.	1.9	28
51	Blue/Red Linear Dichroic Emission from a Highly Anisotropic Crystal of Triarylmethane Dye Conjugated with Phenoxo ^â Zinc Complexes. <i>Chemistry - A European Journal</i> , 2011, 17, 1122-1127.	1.7	7
52	Evaluation of coupling terms between intra- and intermolecular vibrations in coarse-grained normal-mode analysis: Does a stronger acid make a stiffer hydrogen bond?. <i>Journal of Chemical Physics</i> , 2011, 135, 154111.	1.2	11
53	Synthesis and investigation of π -conjugated azomethine self-assembled multilayers by layer-by-layer growth. <i>Thin Solid Films</i> , 2010, 518, 5115-5120.	0.8	4
54	Electronic Spectra of Mono ^â and Dinuclear Complexes of Fully π -Conjugated salphen Ligands Synthesized by Using 2,6 ^â Dihydroxynaphthalene Carbaldehydes. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 533-538.	1.0	22

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55	Synthesis of a ruthenium(II) bipyridyl complex coordinated by a functionalized Schiff base ligand: Characterization, spectroscopic and isothermal titration calorimetry measurements of M ²⁺ binding and sensing (M ²⁺ =Ca ²⁺ , Mg ²⁺). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 73, 29-34.	2.0	14
56	Twin Salphen: Asymmetric Heterodinuclear Complexes {M ^a M ^b L M ^a , M ^b = Ni, Cu, Zn} of a Symmetrically Fused Salphen Ligand. <i>Inorganic Chemistry</i> , 2009, 48, 10703-10707.	1.9	37
57	Coarse Graining of Intermolecular Vibrations by a Karhunen-Loève Transformation of Atomic Displacement Vectors. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1814-1821.	2.3	11
58	Experimental and Theoretical Studies on Constitutional Isomers of 2,6-Dihydroxynaphthalene Carbaldehydes. Effects of Resonance-Assisted Hydrogen Bonding on the Electronic Absorption Spectra. <i>Journal of Organic Chemistry</i> , 2009, 74, 520-529.	1.7	36
59	A High-contrast Dichroic Crystal: A New Metal-containing Tecton with Hybrid Coordination- and Hydrogen-bonding Interactions. <i>Chemistry Letters</i> , 2009, 38, 436-437.	0.7	3
60	Synthesis and Structural Analysis of Triphenylmethane-Based Alkanecarboxamides and Their Assembly into Nanometer-Size Fibrous Objects. <i>Bulletin of the Chemical Society of Japan</i> , 2009, 82, 730-736.	2.0	6
61	Interaction Force of Chitin-Binding Domains onto Chitin Surface. <i>Biomacromolecules</i> , 2008, 9, 2126-2131.	2.6	26
62	Explicit Representation of Anisotropic Force Constants for Simulating Intermolecular Vibrations of Multiply Hydrogen-Bonded Systems. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11256-11262.	1.1	5
63	Accurate evaluation of the absorption maxima of retinal proteins based on a hybrid QM/MM method. <i>Journal of Computational Chemistry</i> , 2006, 27, 1623-1630.	1.5	26
64	Novel synthesis of a unique helical quinone derivative by coupling reaction of 2-hydroxybenzo[c]phenanthrene. <i>Tetrahedron Letters</i> , 2005, 46, 5867-5869.	0.7	17
65	Fabrication of Mixed Zn/Cu-Bound Polyimine Microspheres with Fine-Tuned Diameter and Internal Gradation of Metal Composition. <i>Advanced Materials</i> , 2005, 17, 606-610.	11.1	9
66	Fluorescence Color Modulation by Intramolecular and Intermolecular π - π Interactions in a Helical Zinc(II) Complex. <i>Chemistry of Materials</i> , 2005, 17, 50-56.	3.2	243
67	NMR Observations of Interligand Interference in the Molecular Motion of Double-Stranded Dinuclear Helicates. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 4216-4222.	1.0	10
68	Synthesis and Functions of Macrocycles Utilizing Self-Assembling. <i>ChemInform</i> , 2004, 35, no.	0.1	0
69	Long-Range Stereocontrol in the Self-Assembly of Two-Nanometer-Dimensioned Triple-Stranded Dinuclear Helicates. <i>Chemistry - A European Journal</i> , 2004, 10, 2839-2850.	1.7	62
70	Structural and Electrochemical Studies of Novel Bis(η -methoxy)diiron complexes: Observation of Fe ^{III} Fe ^{IV} and Fe ^{IV} Fe ^{IV} States Resonating with Phenoxyl Radicals. <i>Chemistry - A European Journal</i> , 2004, 10, 4576-4583.	1.7	13
71	Ab initio GIAO study on the conformation-dependent chemical shifts of olefinic protons in isobutenylene chains. <i>Computational and Theoretical Chemistry</i> , 2004, 683, 133-139.	1.5	2
72	Comparison of the bond lengths for the lanthanide complexes of tripodal heptadentate ligands. <i>Journal of Alloys and Compounds</i> , 2004, 374, 307-310.	2.8	20

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73	Synthesis of the Boron Complex Composed of the Noncyclic Ligands Having Plural Hydroxy Groups and the Binding Ability Toward Lanthanoid Ions. <i>Chemistry Letters</i> , 2004, 33, 142-143.	0.7	7
74	Synthesis and Functions of Macrocycles Utilizing Self-assembling. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2004, 62, 194-204.	0.0	6
75	A Novel Macromolecular Complex: Fabrication of Monodisperse Colloidal Microspheres by Precipitation Polymerization of Imine Chains and Concomitant Transition Metal Binding. <i>Advanced Materials</i> , 2003, 15, 1458-1461.	11.1	17
76	Adjustment of Twist Angles in Pseudo-Helical Lanthanide Complexes by the Size of Metal Ions. <i>Chemistry - A European Journal</i> , 2003, 9, 1521-1528.	1.7	61
77	The architecture of dinuclear Ni and Cu complexes: twisted and parallel forms controlled by the self-assembly of Schiff base ligands. <i>New Journal of Chemistry</i> , 2003, 27, 886-889.	1.4	34
78	First helical zinc(ii) complex with a salen ligand. <i>Chemical Communications</i> , 2003, , 1148-1149.	2.2	67
79	Factors Affecting the Conformational Preference and Magnetic Shielding of Isobutenylene Chains in Macrocyclic Salicylideneaniline Derivatives. <i>Bulletin of the Chemical Society of Japan</i> , 2003, 76, 2405-2411.	2.0	7
80	Efficient synthesis of novel macrocyclic tetraamide compounds: a unique reaction process involving both self-assembling and folding of intermediates. <i>New Journal of Chemistry</i> , 2002, 26, 503-507.	1.4	9
81	Conformational Study of Isobutenylene Chains in Tandem Claisen Rearrangement Products. Insights from X-ray Crystallography and ¹ H NMR for Salicylideneaniline Derivatives. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 831-839.	2.0	20
82	Self-assembly of double stranded dinuclear titanium(iv)â€“Schiff base complexes and formation of intramolecular Åµ-oxo bridges. <i>Chemical Communications</i> , 2002, , 420.	2.2	21
83	The second stable conformation of the methoxy groups of o-dimethoxybenzene: stabilization of perpendicular conformation by CHâ€“O interaction. <i>Perkin Transactions II RSC</i> , 2002, , 1271-1273.	1.1	11
84	Synthesis and characterization of dinuclear lanthanide(III) and yttrium(III) cryptates of a hexavalent anionic polydentate ligand. <i>Inorganic Chemistry Communication</i> , 2002, 5, 984-988.	1.8	21
85	A new synthetic method for rotaxanes via tandem Claisen rearrangement, diesterification, and aminolysis. <i>Tetrahedron Letters</i> , 2002, 43, 5747-5750.	0.7	51
86	A New Synthetic Method for Rotaxanes via Tandem Claisen Rearrangement, Diesterification, and Aminolysis.. <i>ChemInform</i> , 2002, 33, 82-82.	0.1	0
87	A Macrocyclic Effect on the Reduction of <i>p</i> -Quinones. <i>Supramolecular Chemistry</i> , 2001, 13, 683-692.	1.5	2
88	Study of the Opsin Shift of Bacteriorhodopsin:â€“ Insight from QM/MM Calculations with Electronic Polarization Effects of the Protein Environment. <i>Journal of Physical Chemistry B</i> , 2001, 105, 867-879.	1.2	85
89	Cooperative Enhancement of Water Binding to Crownophane by Multiple Hydrogen Bonds:â€“ Analysis by High Level ab Initio Calculations. <i>Journal of the American Chemical Society</i> , 2001, 123, 4255-4258.	6.6	48
90	Spectral Tuning of Photoactive Yellow Protein. Theoretical and Experimental Analysis of Medium Effects on the Absorption Spectrum of the Chromophore. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9887-9895.	1.2	51

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91	Novel synthesis of macrocycles with chalcone moieties through mixed aldol reaction. <i>Tetrahedron Letters</i> , 2001, 42, 8351-8355.	0.7	35
92	Spontaneous macrocyclization via recombination of a Schiff-base linkage. <i>Tetrahedron Letters</i> , 2001, 42, 3861-3863.	0.7	22
93	Highly selective formation of 2 ⁺ 1 ² macrocycles from a novel hydroxybenzaldehyde derivative and diamines. <i>Chemical Communications</i> , 2000, , 2197-2198.	2.2	35
94	Conformational analysis of the core unit of crownphanes by ab initio calculations: 1,1-dibenzylethylene and related compounds. <i>Perkin Transactions II RSC</i> , 2000, , 2448-2452.	1.1	10
95	High-Level ab Initio Calculations of Torsional Potential of Phenol, Anisole, and o-Hydroxyanisole: \hat{A} Effects of Intramolecular Hydrogen Bond. <i>Journal of Physical Chemistry A</i> , 2000, 104, 1332-1336.	1.1	55
96	¹³ C Chemical Shift-Conformation Relationship in the Chromophores of Rhodopsin and Bacteriorhodopsin. <i>ACS Symposium Series</i> , 1999, , 148-161.	0.5	0
97	Synthesis and crystal structures of novel macrocyclic compounds and their inclusion phenomenon. <i>Tetrahedron Letters</i> , 1999, 40, 6639-6642.	0.7	6
98	Effects of the protein electrostatic environment on the absorption maximum of bacteriorhodopsin. <i>Chemical Physics Letters</i> , 1998, 294, 162-166.	1.2	14
99	Physical Origin of the Opsin Shift of Bacteriorhodopsin. Comprehensive Analysis Based on Medium Effect Theory of Absorption Spectra. <i>Journal of the American Chemical Society</i> , 1998, 120, 4459-4470.	6.6	52
100	Theoretical evaluation of medium effects on absorption maxima of molecular solutes. I. Formulation of a new method based on the self-consistent reaction field theory. <i>Journal of Chemical Physics</i> , 1997, 107, 5652-5660.	1.2	24
101	Ab Initio Study of ¹³ C Shieldings for Linear π -Conjugated Systems. Theoretical Determination of the C12 \hat{A} C13 Conformation in the Chromophore of Rhodopsin. <i>Journal of the American Chemical Society</i> , 1996, 118, 8904-8915.	6.6	8
102	Dielectric Medium Effects on Absorption Maxima of Protonated Retinylidene Schiff Bases as Models of Rhodopsin. <i>Chemistry Letters</i> , 1996, 25, 1075-1076.	0.7	4
103	Ab initio Study of the C12-C13 Conformation of 11-cis-retinal. <i>Chemistry Letters</i> , 1995, 24, 1039-1040.	0.7	2