

Kazuyuki Takahashi

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96
papers

3,487
citations

30
h-index

57
g-index

104
ext. papers

3,763
ext. citations

5.5
avg, IF

4.78
L-index

#	Paper	IF	Citations
96	Structural color and the lotus effect. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 894-7	16.4	367
95	Fabrication of an Efficient Solid-State Dye-Sensitized Solar Cell. <i>Langmuir</i> , 2003 , 19, 3572-3574	4	306
94	Ferroelectric porous molecular crystal, [Mn ₃ (HCOO) ₆](C ₂ H ₅ OH), exhibiting ferrimagnetic transition. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15074-5	16.4	224
93	Tunable photonic band gap crystals based on a liquid crystal-infiltrated inverse opal structure. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8314-9	16.4	167
92	Evidence of the chemical uniaxial strain effect on electrical conductivity in the spin-crossover conducting molecular system: [Fe(III)(qnal) ₂][Pd(dmit) ₂] ₅ .acetone. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6688-9	16.4	139
91	Electrical conductivity modulation coupled to a high-spin-low-spin conversion in the molecular system [Fe(III)(qsal) ₂][Ni(dmit) ₂] ₃ .CH ₃ CN.H ₂ O. <i>Inorganic Chemistry</i> , 2006 , 45, 5739-41	5.1	124
90	Design, Synthesis, and Characterization of Three Kinds of π -Cross-Conjugated Hexacarbenes with High-Spin (S = 6) Ground States. <i>Journal of the American Chemical Society</i> , 1995 , 117, 5550-5560	16.4	120
89	Hydrogen bond-promoted metallic state in a purely organic single-component conductor under pressure. <i>Nature Communications</i> , 2013 , 4, 1344	17.4	118
88	Gapless quantum spin liquid in an organic spin-1/2 triangular-lattice H ₃ (Cat-EDT-TTF) ₂ . <i>Physical Review Letters</i> , 2014 , 112, 177201	7.4	109
87	Control of the optical band structure of liquid crystal infiltrated inverse opal by a photoinduced nematic-isotropic phase transition. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10950-1	16.4	106
86	Dielectric properties of porous molecular crystals that contain polar molecules. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6508-12	16.4	100
85	Molecular motor-driven abrupt anisotropic shape change in a single crystal of a Ni complex. <i>Nature Chemistry</i> , 2014 , 6, 1079-83	17.6	85
84	Control of the Optical Properties of Liquid Crystal-Infiltrated Inverse Opal Structures Using Photo Irradiation and/or an Electric Field. <i>Chemistry of Materials</i> , 2005 , 17, 2298-2309	9.6	85
83	Vapochromic ionic liquids from metal-chelate complexes exhibiting reversible changes in color, thermal, and magnetic properties. <i>Chemistry - A European Journal</i> , 2012 , 18, 11929-36	4.8	71
82	Magnetic transitions of single-component molecular metal [Au(tm ₂ d ₂) ₂] and its alloy systems. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3872-3	16.4	67
81	Photo-induced reverse valence tautomerism in a metastable Co compound. <i>Chemical Physics Letters</i> , 2002 , 355, 169-174	2.5	66
80	Synergistic spin transition between spin crossover and spin-Peierls-like singlet formation in the halogen-bonded molecular hybrid system: [Fe(lqsal) ₂][Ni(dmit) ₂] ₃ .CH ₃ CN.H ₂ O. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1983-6	16.4	63

79	Above Room Temperature Organic Ferroelectrics: Diprotonated 1,4-Diazabicyclo[2.2.2]octane Shifts between Two 2-Chlorobenzoates. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12005-8	16.4	62
78	Reversible valence tautomerism induced by a single-shot laser pulse in a cobalt-iron Prussian blue analog. <i>Physical Review Letters</i> , 2003 , 90, 167403	7.4	59
77	The Light-induced Excited Spin State Trapping Effect on Ni(dmit) ₂ Salt with an Fe(III) Spin-crossover Cation: [Fe(qsal) ₂][Ni(dmit) ₂] ₂ CH ₃ CN. <i>Chemistry Letters</i> , 2005 , 34, 1240-1241	1.7	50
76	Metal-organic frameworks from copper dimers with cis- and trans-1,4-cyclohexanedicarboxylate and cis,cis-1,3,5-cyclohexanetricarboxylate. <i>Inorganic Chemistry</i> , 2007 , 46, 5949-56	5.1	44
75	Synthesis and properties of catechol-fused tetrathiafulvalene derivatives and their hydrogen-bonded conductive charge-transfer salts. <i>Tetrahedron Letters</i> , 2012 , 53, 4385-4388	2	42
74	A spin-crossover ionic liquid from the cationic iron(III) Schiff base complex. <i>Chemical Communications</i> , 2013 , 49, 7662-4	5.8	42
73	Charge-order driven proton arrangement in a hydrogen-bonded charge-transfer complex based on a pyridyl-substituted TTF derivative. <i>Chemical Communications</i> , 2012 , 48, 8673-5	5.8	37
72	Directional Electron Transfer in Crystals of [CrCo] Dinuclear Complexes Achieved by Chirality-Assisted Preparative Method. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14170-14173	16.4	34
71	Mechanism of reversible spin transition with a thermal hysteresis loop in [Fe ^{III} (qsal) ₂][Ni(dmise) ₂] ₂ 2CH ₃ CN: Selenium analogue of the precursor of an Fe(III) spin-crossover molecular conducting system. <i>Polyhedron</i> , 2009 , 28, 1776-1781	2.7	34
70	Mechanism and relaxation kinetics of photo-induced valence tautomerism of [Co(phen)(3,5-DBSQ) ₂][C ₆ H ₅ Cl]. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 167, 69-73	4.7	33
69	An abrupt spin transition based on short S...S contacts in a novel Fe(II) complex whose ligand contains a 1,3-dithiole ring. <i>Chemical Communications</i> , 2003 , 2374-5	5.8	33
68	Hybrid organic-inorganic conductor with a magnetic chain anion: kappa-BETS ₂ [Fe(III)(C ₂ O ₄)Cl ₂] [BETS = bis(ethylenedithio)tetraselenafulvalene]. <i>Inorganic Chemistry</i> , 2006 , 45, 3275-80	5.1	31
67	A New Family of Anionic Fe(III) Spin Crossover Complexes Featuring a Weak-Field N ₂ O ₄ Coordination Octahedron. <i>Chemistry - A European Journal</i> , 2016 , 22, 1253-7	4.8	31
66	Intrinsic carrier doping in antiferromagnetically interacted supramolecular copper complexes with (pyrazino)tetrathiafulvalene (pyra-TTF) as the ligand, [CuIICl ₂ (pyra-TTF)] and (pyra-TTF) ₂ [CuI ₃ Cl ₄ (pyra-TTF)]. <i>Inorganic Chemistry</i> , 2008 , 47, 4140-5	5.1	30
65	Photo-induced valence tautomerism in a Co compound. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002 , 149, 111-114	4.7	30
64	Dielectric Response and Electric-Field-Induced Metastable State in an Organic Conductor [meso-DMBEDT-TTF) ₂ PF ₆ . <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 073710	1.5	29
63	Novel Co complex with high transformation temperature of valence tautomerism. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 161, 243-246	4.7	25
62	Preparation and Characterization of Novel Aromatic-inserted Tris-fused Tetrathiafulvalenes. <i>Chemistry Letters</i> , 2002 , 31, 1002-1003	1.7	23

61	Paramagnetic ionic plastic crystals containing the octamethylferrocenium cation: counteranion dependence of phase transitions and crystal structures. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 3019-3028	3.6	22
60	Correlation between the magnetic behaviors and dimensionality of intermolecular interactions in Fe(III) spin crossover compounds. <i>Physica B: Condensed Matter</i> , 2010 , 405, S65-S68	2.8	21
59	Thermochromic Magnetic Ionic Liquids from Cationic Nickel(II) Complexes Exhibiting Intramolecular Coordination Equilibrium. <i>Chemistry - A European Journal</i> , 2017 , 23, 823-831	4.8	20
58	Unusually long-lived light-induced metastable state in a thermochromic copper(II) complex. <i>Chemical Communications</i> , 2002 , 1578-9	5.8	20
57	Furan-fused TCNQ and DCNQI: synthesis and properties. <i>Journal of Organic Chemistry</i> , 2000 , 65, 2577-9	4.2	19
56	Reversible iodine absorption of nonporous coordination polymer Cu(TCNQ). <i>New Journal of Chemistry</i> , 2014 , 38, 739-743	3.6	18
55	(nBu ₄ N)[Ni(dmstfddt) ₂]: A Planar Nickel Coordination Complex with an Extended-TTF Ligand Exhibiting Metallic Conduction, Metal-Insulator Transition, and Weak Ferromagnetism. <i>Chemistry of Materials</i> , 2007 , 19, 553-558	9.6	17
54	Cooperative spin-crossover transition from three-dimensional purely π -stacking interactions in a neutral heteroleptic azobisphenolate Fe complex with a NO coordination sphere. <i>Dalton Transactions</i> , 2017 , 46, 5786-5789	4.3	16
53	New tris- and pentakis-fused donors containing extended tetrathiafulvalenes: New positive electrode materials for rechargeable batteries. <i>Beilstein Journal of Organic Chemistry</i> , 2015 , 11, 1136-47	2.5	16
52	Reversible iodine absorption by alkali-TCNQ salts with associated changes in physical properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8361		16
51	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 Complexes from 2,6-Bis(2-methylthiazol-4-yl)pyridine. <i>Inorganic Chemistry</i> , 2018 , 57, 1277-1287	5.1	15
50	Photogeneration of Microporous Amorphous Coordination Polymers from Organometallic Ionic Liquids. <i>Chemistry - A European Journal</i> , 2018 , 24, 9490-9493	4.8	15
49	Structural and Magnetic Studies on Two-Dimensional Square Planar Lattice Magnets Composed of Organic Radical Cation Salts (Benzo[1,2-d:4,5-d']Bis[1,3,2]dithiazolyl-2-zolium)X (X = TlBr ₄ , TlI ₄ , and InI ₄). <i>Crystal Growth and Design</i> , 2011 , 11, 575-582	3.5	14
48	Superconductivity competitive with checkerboard-type charge ordering in the organic conductor [meso-DMBEDT-TTF] ₂ PF ₆ . <i>Physical Review B</i> , 2009 , 80,	3.3	14
47	Metastable photoinduced phase of Cu(II) ethylenediamine complexes studied by x-ray-absorption fine-structure spectroscopy. <i>Physical Review B</i> , 2003 , 67,	3.3	14
46	A novel coordination polymer derived from thiophene-fused DCNQI and CuI: a new family of DCNQI-based conducting copper complexes. <i>Chemical Communications</i> , 1996 , 2275	5.8	14
45	Magnetism and Pressure-Induced Superconductivity of Checkerboard-Type Charge-Ordered Molecular Conductor [meso-DMBEDT-TTF] ₂ X (X = PF ₆ and AsF ₆). <i>Crystals</i> , 2012 , 2, 1502-1513	2.3	12
44	Photo-reversible Valence Tautomerism in a Co Compound. <i>Phase Transitions</i> , 2002 , 75, 779-785	1.3	12

43	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. <i>Crystals</i> , 2016 , 6, 49	2.3	12
42	Optical conductivity measurement of a dimer Mott-insulator to charge-order phase transition in a two-dimensional quarter-filled organic salt compound. <i>Physical Review Letters</i> , 2013 , 111, 217801	7.4	11
41	One-dimensional antiferromagnetic behavior of a chiral molecular crystal, π -(S,S-DMBEDT-TTF) $_2$ PF $_6$. <i>Synthetic Metals</i> , 2011 , 161, 1563-1565	3.6	11
40	Novel Fe(II) spin crossover complexes involving a chalcogen-bond and π -stacking interactions with a paramagnetic and nonmagnetic M(dmit) $_2$ anion (M = Ni, Au; dmit = 4,5-dithiolato-1,3-dithiole-2-thione). <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7858-7864	7.1	10
39	A Magnetic Organic Conductor Based on a π -Donor with a Stable Radical and a Magnetic Anion π -Step to Magnetic Organic Metals with Two Kinds of Localized Spin Systems. <i>Chemistry Letters</i> , 2006 , 35, 130-131	1.7	10
38	Synthesis of racemic and chiral BEDT-TTF derivatives possessing hydroxy groups and their achiral and chiral charge transfer complexes. <i>Beilstein Journal of Organic Chemistry</i> , 2015 , 11, 1561-9	2.5	9
37	Synergistic Spin Transition between Spin Crossover and Spin-Peierls-like Singlet Formation in the Halogen-Bonded Molecular Hybrid System: [Fe(lqsal) $_2$][Ni(dmit) $_2$] \cdot CH $_3$ CN \cdot H $_2$ O. <i>Angewandte Chemie</i> , 2014 , 126, 2014-2017	3.6	8
36	Cooperative spin transition and thermally quenched high-spin state in new polymorph of [Fe(qsal) $_2$] $_3$. <i>Hyperfine Interactions</i> , 2012 , 206, 1-5	0.8	8
35	Design, Synthesis, and Characterization of π -Cross-Conjugated Polycarbenes with High-Spin Ground States. <i>ACS Symposium Series</i> , 1996 , 142-156	0.4	8
34	Preparation and Properties of Metal Complexes with TTP-Dithiolate Ligands. <i>Molecular Crystals and Liquid Crystals</i> , 2002 , 379, 71-76	0.5	7
33	High-Temperature Cooperative Spin Crossover Transitions and Single-Crystal Reflection Spectra of [FeIII(qsal) $_2$](CH $_3$ OSO $_3$) and Related Compounds. <i>Crystals</i> , 2019 , 9, 81	2.3	6
32	Antiferromagnetic Transition in a Novel Star-shaped High-spin Fe(III) Tetranuclear Cluster from a Mononuclear Coordination Anion Featuring π -Extended Schiff Base Ligands. <i>Chemistry Letters</i> , 2015 , 44, 840-842	1.7	6
31	Syntheses, crystal structures, and physical properties of copper complexes with dimethylthio-pyrazino-selenathiafulvalene (=Dmt-Pyra-STF) as ligand: trans-[CuCl $_2$ (Dmt-Pyra-STF) $_2$] and [Cu $_2$ Br $_2$.5(Dmt-Pyra-STF)]. <i>Solid State Sciences</i> , 2008 , 10, 1724-1728	3.4	6
30	Ligand mixed-valence and electrical conductivity in coordination complexes containing a redox-active phenalenol-substituted ligand. <i>Dalton Transactions</i> , 2019 , 48, 8053-8056	4.3	5
29	Organometallic ionic liquids from half-sandwich Ru(II) complexes with various chelating ligands. <i>Inorganica Chimica Acta</i> , 2015 , 438, 112-117	2.7	5
28	Structures and Electrical Properties of (BTM-TS-TTP) $_4$ PF $_6$. <i>Bulletin of the Chemical Society of Japan</i> , 2011 , 84, 79-81	5.1	5
27	Metallic coordination supramolecule, [Cu(I)Cl $_0.2$ Br $_1.3$ (pyra-TTF) $_0.5$] $_n$. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10130		5
26	New TTP Donors Containing Chalcogenopyran-4-ylidene: Preparation, Structures, and Electrical Properties. <i>Molecular Crystals and Liquid Crystals</i> , 2002 , 376, 107-112	0.5	5

25	Spin-Singlet Transition in the Magnetic Hybrid Compound from a Spin-Crossover Fe(III) Cation and a Radical Anion. <i>Inorganics</i> , 2017 , 5, 54	2.9	4
24	Thiophene-fused DCNQI Derivatives: Their Copper Iodide Complexes as a New Family of Molecular Conductors. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1997 , 120, 421-422	1	4
23	Synthesis and properties of dimeric BDT-TTP derivatives. <i>Synthetic Metals</i> , 2003 , 137, 937-938	3.6	4
22	A Novel Organic Conductor with Two-Dimensional Molecular Array by the Edge-to-Edge Donor Interaction. <i>Chemistry Letters</i> , 2001 , 30, 162-163	1.7	4
21	Single-crystal-to-single-crystal transformation in hydrogen-bond-induced high-spin pseudopolymorphs from protonated cation salts with an extended spin crossover Fe(III) complex anion. <i>Polyhedron</i> , 2017 , 136, 170-175	2.7	3
20	A biferrrocenium salt containing paramagnetic tetracyanoquinodimethane hexamers: charge disproportionation via donor-acceptor interactions. <i>Chemical Communications</i> , 2014 , 50, 13370-2	5.8	3
19	A less common spin-crossover process observed in the six-coordinated model heme complexes. <i>Polyhedron</i> , 2013 , 66, 60-64	2.7	3
18	Development of chiral molecular crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 1146-1148		3
17	Peculiar electric-field-induced metastable state of charge-ordered molecular conductor [(meso-DMBEDT-TTF) ₂ PF ₆]. <i>Physica B: Condensed Matter</i> , 2010 , 405, S37-S40	2.8	3
16	Dielectric response of novel one-dimensional hydrogen-bonded molecular crystal [4,6-dmpH][Hca]. <i>Physica B: Condensed Matter</i> , 2010 , 405, S341-S343	2.8	3
15	Preparation and redox properties of longitudinally twinned TCNQ: Hexacyanostilbenequinodimethane dianion. <i>Tetrahedron Letters</i> , 1999 , 40, 5349-5352	2	3
14	Paramagnetic organometallic ionic liquids exhibiting thermochromism based on monomer-dimer equilibrium of cationic half-sandwich complexes. <i>Journal of Molecular Liquids</i> , 2018 , 269, 882-885	6	3
13	Dynamics of Water Molecules in a 3-Fold Interpenetrated Hydrogen-Bonded Organic Framework Based on Tetrakis(4-pyridyl)methane. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6599-6606	3.8	2
12	Synthesis and properties of new extended TTP analogs. <i>Synthetic Metals</i> , 2003 , 135-136, 671-672	3.6	2
11	Development of Novel Functional Molecular Crystals by Utilizing Dynamic Hydrogen Bonds. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2017 , 75, 1045-1054	0.2	2
10	The Impact of the Next-Nearest Neighbor Dispersion Interactions on Spin Crossover Transition Enthalpy Evidenced by Experimental and Computational Analyses of Neutral Extended Heteroleptic Fe(III) Complexes. <i>Inorganic Chemistry</i> , 2020 , 59, 12295-12303	5.1	2
9	Spin-Crossover-Triggered Linkage Isomerization by the Pedal-like Motion of the Azobenzene Ligand in a Neutral Heteroleptic Iron(III) Complex. <i>Inorganic Chemistry</i> , 2021 , 60, 12735-12739	5.1	2
8	Preparation of Nanoribbons of Blue Potassium Molybdenum Bronze. <i>Chemistry Letters</i> , 2013 , 42, 1514-1516	1.6	1

- 7 Cover Picture: Structural Color and the Lotus Effect (Angew. Chem. Int. Ed. 8/2003). *Angewandte Chemie - International Edition*, **2003**, 42, 839-839 16.4 1
- 6 Organic Metals Based on an Asymmetric π -Donor PEDT-TSF, (PEDT-TSF)₂FeX₄(PEDT-TSF = Pyrazinoethylenedithiotetraselenafulvalene; X = Cl, Br). *Chemistry Letters*, **2005**, 34, 1598-1599 1.7 1
- 5 Coherent interface structures and intergrain Josephson coupling in dense MgO/Mg₂Si/MgB₂ nanocomposites. *Journal of Applied Physics*, **2016**, 120, 015102 2.5 1
- 4 Manipulation of the heme electronic structure by external stimuli and ligand field. *Hyperfine Interactions*, **2012**, 206, 23-33 0.8
- 3 Tetrathiapentalene-type donors containing (thio)pyran-4-ylidene as a promising π -electron framework for multi-dimensional molecular conductors. *European Physical Journal Special Topics*, **2004**, 114, 431-437
- 2 Conducting Polynuclear CuI Complexes with Thiophene-Fused DCNQI Ligands. *Molecular Crystals and Liquid Crystals*, **1996**, 285, 175-180
- 1 Cooperative spin transition and thermally quenched high-spin state in new polymorph of [Fe(qsal)₂]₃ **2013**, 297-301