Kazuyuki Takahashi

List of Publications by Year
in descending order

98	3,952	136885	123376
papers	citations	32 h-index	61 g-index

104	104	104	4155
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural Color and the Lotus Effect. Angewandte Chemie - International Edition, 2003, 42, 894-897.	7.2	397
2	Fabrication of an Efficient Solid-State Dye-Sensitized Solar Cell. Langmuir, 2003, 19, 3572-3574.	1.6	330
3	Ferroelectric Porous Molecular Crystal, [Mn3(HCOO)6](C2H5OH), Exhibiting Ferrimagnetic Transition. Journal of the American Chemical Society, 2006, 128, 15074-15075.	6.6	241
4	Tunable Photonic Band Gap Crystals Based on a Liquid Crystal-Infiltrated Inverse Opal Structure. Journal of the American Chemical Society, 2004, 126, 8314-8319.	6.6	185
5	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. Journal of the American Chemical Society, 2008, 130, 6687-6694.	6.6	156
6	Gapless Quantum Spin Liquid in an Organic Spin-1/2 Triangular-Lattice<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Îº</mml:mi><mml:mo>â^’</mml:mo><mml:msub><mml:mrow><mml:mi mathvariant="normal">H</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mtext) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 527 Td (mathvariant="bold">Cat-EDT-TTF</mml:mtext>	2.9	140
7	Hydrogen bond-promoted metallic state in a purely organic single-component conductor under pressure. Nature Communications, 2013, 4, 1344.	5.8	139
8	Design, Synthesis, and Characterization of Three Kinds of .pi.-Cross-Conjugated Hexacarbenes with High-Spin (S = 6) Ground States. Journal of the American Chemical Society, 1995, 117, 5550-5560.	6.6	136
9	Electrical Conductivity Modulation Coupled to a High-Spinâ^’Low-Spin Conversion in the Molecular System [FeIII(qsal)2][Ni(dmit)2]3Â·CH3CNÂ·H2O. Inorganic Chemistry, 2006, 45, 5739-5741.	1.9	132
10	Control of the Optical Band Structure of Liquid Crystal Infiltrated Inverse Opal by a Photoinduced Nematicâ^’Isotropic Phase Transition. Journal of the American Chemical Society, 2002, 124, 10950-10951.	6.6	115
11	Molecular motor-driven abrupt anisotropic shape change in a single crystal of a Ni complex. Nature Chemistry, 2014, 6, 1079-1083.	6.6	111
12	Dielectric Properties of Porous Molecular Crystals That Contain Polar Molecules. Angewandte Chemie - International Edition, 2005, 44, 6508-6512.	7.2	110
13	Control of the Optical Properties of Liquid Crystal-Infiltrated Inverse Opal Structures Using Photo Irradiation and/or an Electric Field. Chemistry of Materials, 2005, 17, 2298-2309.	3.2	97
14	Above Room Temperature Organic Ferroelectrics: Diprotonated 1,4-Diazabicyclo[2.2.2]octane Shifts between Two 2-Chlorobenzoates. Journal of the American Chemical Society, 2016, 138, 12005-12008.	6.6	81
15	Vapochromic Ionic Liquids from Metalâ€“Chelate Complexes Exhibiting Reversible Changes in Color, Thermal, and Magnetic Properties. Chemistry - A European Journal, 2012, 18, 11929-11936.	1.7	79
16	Photo-induced reverse valence tautomerism in a metastable Co compound. Chemical Physics Letters, 2002, 355, 169-174.	1.2	77
17	Synergistic Spin Transition between Spin Crossover and Spinâ€Peierlsâ€like Singlet Formation in the Halogenâ€Bonded Molecular Hybrid System: [Fe(Iqsal)₂][Ni(dmit)₂]â‹…CH₃CNâ‹…H₂O. Angewandte Chemie - International Edition, 2014, 53, 1983-1986.	7.2	71
18	Magnetic Transitions of Single-Component Molecular Metal [Au(tmdt)2] and Its Alloy Systems. Journal of the American Chemical Society, 2006, 128, 3872-3873.	6.6	67

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19	Reversible Valence Tautomerism Induced by a Single-Shot Laser Pulse in a Cobalt-Iron Prussian Blue Analog. Physical Review Letters, 2003, 90, 167403.	2.9	65
20	The Light-induced Excited Spin State Trapping Effect on Ni(dmit)2Salt with an Fe(III) Spin-crossover Cation: [Fe(qsal)2][Ni(dmit)2]Â·2CH3CN. Chemistry Letters, 2005, 34, 1240-1241.	0.7	50
21	Metalâ^'Organic Frameworks from Copper Dimers withcis- andtrans-1,4-Cyclohexanedicarboxylate andcis,cis-1,3,5-Cyclohexanetricarboxylate. Inorganic Chemistry, 2007, 46, 5949-5956.	1.9	50
22	Synthesis and properties of catechol-fused tetrathiafulvalene derivatives and their hydrogen-bonded conductive charge-transfer salts. Tetrahedron Letters, 2012, 53, 4385-4388.	0.7	49
23	A spin-crossover ionic liquid from the cationic iron(iii) Schiff base complex. Chemical Communications, 2013, 49, 7662.	2.2	46
24	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
25	Charge-order driven proton arrangement in a hydrogen-bonded charge-transfer complex based on a pyridyl-substituted TTF derivative. Chemical Communications, 2012, 48, 8673.	2.2	40
26	Paramagnetic ionic plastic crystals containing the octamethylferrocenium cation: counteranion dependence of phase transitions and crystal structures. Physical Chemistry Chemical Physics, 2018, 20, 3019-3028.	1.3	40
27	Mechanism of reversible spin transition with a thermal hysteresis loop in [FeIII(qsal)2][Ni(dmise)2] Â·2CH3CN: Selenium analogue of the precursor of an Fe(III) spin-crossover molecular conducting system. Polyhedron, 2009, 28, 1776-1781.	1.0	39
28	A New Family of Anionic Fe^{III} Spin Crossover Complexes Featuring a Weakâ€Field N₂O₄ Coordination Octahedron. Chemistry - A European Journal, 2016, 22, 1253-1257.	1.7	39
29	Hybrid Organicâ^'Inorganic Conductor with a Magnetic Chain Anion:â€‰ Îº-BETS2[FeIII(C2O4)Cl2] [BETS = Bis(ethylenedithio)tetraselenafulvalene]. Inorganic Chemistry, 2006, 45, 3275-3280.	1.9	37
30	Mechanism and relaxation kinetics of photo-induced valence tautomerism of [Co(phen)(3,5-DBSQ)2]Â·C6H5Cl. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 167, 69-73.	2.0	35
31	Photo-induced valence tautomerism in a Co compound. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 149, 111-114.	2.0	34
32	An abrupt spin transition based on short Sâ‹¯S contacts in a novel Fe(ii) complex whose ligand contains a 1,3-dithiole ring. Chemical Communications, 2003, , 2374-2375.	2.2	34
33	Intrinsic Carrier Doping in Antiferromagnetically Interacted Supramolecular Copper Complexes with (Pyrazino)tetrathiafulvalene (Pyra-TTF) as the Ligand, [Cu^{II}Cl₂(pyra-TTF)] and (Pyra-TTF)₂[Cu^I₃Cl₄(pyra-TTF)]. Inorganic Chemistry, 2008, 47, 4140-4145.	1.9	30
34	Dielectric Response and Electric-Field-Induced Metastable State in an Organic Conductor Î²-(meso-DMBEDT-TTF)₂PF₆. Journal of the Physical Society of Japan, 2008, 77, 073710.	0.7	29
35	Novel Co complex with high transformation temperature of valence tautomerism. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 161, 243-246.	2.0	27
36	Preparation and Characterization of Novel Aromatic-inserted Tris-fused Tetrathiafulvalenes. Chemistry Letters, 2002, 31, 1002-1003.	0.7	25

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37	New tris- and pentakis-fused donors containing extended tetrathiafulvalenes: New positive electrode materials for rechargeable batteries. Beilstein Journal of Organic Chemistry, 2015, 11, 1136-1147.	1.3	23
38	Thermochromic Magnetic Ionic Liquids from Cationic Nickel(II) Complexes Exhibiting Intramolecular Coordination Equilibrium. Chemistry - A European Journal, 2017, 23, 823-831.	1.7	23
39	Correlation between the magnetic behaviors and dimensionality of intermolecular interactions in Fe(III) spin crossover compounds. Physica B: Condensed Matter, 2010, 405, S65-S68.	1.3	22
40	Reversible iodine absorption of nonporous coordination polymer Cu(TCNQ). New Journal of Chemistry, 2014, 38, 739-743.	1.4	21
41	Furan-Fused TCNQ and DCNQI:Â Synthesis and Properties. Journal of Organic Chemistry, 2000, 65, 2577-2579.	1.7	20
42	Unusually long-lived light-induced metastable state in a thermochromic copper(ii) complex. Chemical Communications, 2002, , 1578-1579.	2.2	20
43	(nBu4N)[Ni(dmstfdt)2]:Â A Planar Nickel Coordination Complex with an Extended-TTF Ligand Exhibiting Metallic Conduction, Metalâ^'Insulator Transition, and Weak Ferromagnetism. Chemistry of Materials, 2007, 19, 553-558.	3.2	20
44	Cooperative spin-crossover transition from three-dimensional purely Ï€-stacking interactions in a neutral heteroleptic azobisphenolate Fe^{III} complex with a N₃O₃ coordination sphere. Dalton Transactions, 2017, 46, 5786-5789.	1.6	20
45	Spin-Crossover Complexes. Inorganics, 2018, 6, 32.	1.2	20
46	Photogeneration of Microporous Amorphous Coordination Polymers from Organometallic Ionic Liquids. Chemistry - A European Journal, 2018, 24, 9490-9493.	1.7	20
47	Reversible iodine absorption by alkali-TCNQ salts with associated changes in physical properties. Journal of Materials Chemistry, 2012, 22, 8361.	6.7	18
48	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
49	Superconductivity competitive with checkerboard-type charge ordering in the organic conductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î²</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mrow><mml:mrow><mml:mo>[</mml:mo> Physical Review B, 2009, 80, .	1.1	16
50	Structural and Magnetic Studies on Two-Dimensional Square Planar Lattice Magnets Composed of Organic Radical Cation Salts (Benzo[1,2-d:4,5-dâ€²]Bis[1,3,2]dithiazolyl-2-zolium)Â·X (X = TlBr4, TlI4, and) Tj ETQq1 1 0 rgBT /Overlock	1.0	15
51	The Role of Coulomb Interactions for Spin Crossover Behaviors and Crystal Structural Transformation in Novel Anionic Fe(III) Complexes from a Ï€-Extended ONO Ligand. Crystals, 2016, 6, 49.	1.0	15
52	A novel coordination polymer derived from thiophene-fused DCNQI and CuI: a new family of DCNQI-based conducting copper complexes. Chemical Communications, 1996, , 2275.	2.2	14
53	Metastable photoinduced phase of Cu(II) ethylenediamine complexes studied by x-ray-absorption fine-structure spectroscopy. Physical Review B, 2003, 67, .	1.1	14
54	Magnetism and Pressure-Induced Superconductivity of Checkerboard-Type Charge-Ordered Molecular Conductor Î²-(meso-DMBEDT-TTF)2X (X = PF6 and AsF6). Crystals, 2012, 2, 1502-1513.	1.0	14

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55	Photo-reversible Valence Tautomerism in a Co Compound. Phase Transitions, 2002, 75, 779-785.	0.6	13
56	Optical Conductivity Measurement of a Dimer Mott-Insulator to Charge-Order Phase Transition in a Two-Dimensional Quarter-Filled Organic Salt Compound. Physical Review Letters, 2013, 111, 217801.	2.9	13
57	Synthesis of racemic and chiral BEDT-TTF derivatives possessing hydroxy groups and their achiral and chiral charge transfer complexes. Beilstein Journal of Organic Chemistry, 2015, 11, 1561-1569.	1.3	12
58	Novel Fe(<scp>ii</scp>) spin crossover complexes involving a chalcogen-bond and Ï€-stacking interactions with a paramagnetic and nonmagnetic M(dmit)₂ anion (M = Ni, Au; dmit =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	12
59	One-dimensional antiferromagnetic behavior of a chiral molecular crystal, Î±â€²-(S,S-DMBEDT-TTF)2PF6. Synthetic Metals, 2011, 161, 1563-1565.	2.1	11
60	High-Temperature Cooperative Spin Crossover Transitions and Single-Crystal Reflection Spectra of [FeIII(qsal)2](CH3OSO3) and Related Compounds. Crystals, 2019, 9, 81.	1.0	11
61	A Magnetic Organic Conductor Based on a Ï€ Donor with a Stable Radical and a Magnetic Anionâ€”A Step to Magnetic Organic Metals with Two Kinds of Localized Spin Systems. Chemistry Letters, 2006, 35, 130-131.	0.7	10
62	Design, Synthesis, and Characterization of Ï€-Cross-Conjugated Polycarbenes with High-Spin Ground States. ACS Symposium Series, 1996, , 142-156.	0.5	9
63	Cooperative spin transition and thermally quenched high-spin state in new polymorph of [Fe(qsal)2]I3. Hyperfine Interactions, 2012, 206, 1-5.	0.2	9
64	Structures and Electrical Properties of (BTM-TS-TTP)4PF6. Bulletin of the Chemical Society of Japan, 2011, 84, 79-81.	2.0	8
65	Spin-Crossover-Triggered Linkage Isomerization by the Pedal-like Motion of the Azobenzene Ligand in a Neutral Heteroleptic Iron(III) Complex. Inorganic Chemistry, 2021, 60, 12735-12739.	1.9	8
66	Preparation and Properties of Metal Complexes with TTP-Dithiolate Ligands. Molecular Crystals and Liquid Crystals, 2002, 379, 71-76.	0.4	7
67	Syntheses, crystal structures, and physical properties of copper complexes with dimethylthio-pyrazino-selenathiafulvalene (=Dmt-Pyra-STF) as ligand: trans-[CuCl2(Dmt-Pyra-STF)2] and [Cu2Br2.5(Dmt-Pyra-STF)]. Solid State Sciences, 2008, 10, 1724-1728.	1.5	7
68	Antiferromagnetic Transition in a Novel Star-shaped High-spin Fe(III) Tetranuclear Cluster from a Mononuclear Coordination Anion Featuring Ï€-Extended Schiff Base Ligands. Chemistry Letters, 2015, 44, 840-842.	0.7	7
69	Organometallic ionic liquids from half-sandwich Ru(II) complexes with various chelating ligands. Inorganica Chimica Acta, 2015, 438, 112-117.	1.2	7
70	Spin-Singlet Transition in the Magnetic Hybrid Compound from a Spin-Crossover Fe(III) Cation and Ï€-Radical Anion. Inorganics, 2017, 5, 54.	1.2	7
71	Ligand mixed-valence and electrical conductivity in coordination complexes containing a redox-active phenalenol-substituted ligand. Dalton Transactions, 2019, 48, 8053-8056.	1.6	7
72	New TTP Donors Containing Chalcogenopyran-4-ylidene: Preparation, Structures, and Electrical Properties. Molecular Crystals and Liquid Crystals, 2002, 376, 107-112.	0.4	6

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73	The Impact of the Next-Nearest Neighbor Dispersion Interactions on Spin Crossover Transition Enthalpy Evidenced by Experimental and Computational Analyses of Neutral Ï€-Extended Heteroleptic Fe(III) Complexes. Inorganic Chemistry, 2020, 59, 12295-12303.	1.9	6
74	A Novel Organic Conductor with Two-Dimensional Molecular Array by the â€œEdge-to-Edgeâ€•Donor Interaction. Chemistry Letters, 2001, 30, 162-163.	0.7	5
75	Metallic coordination supramolecule, [Cu(i)Cl0.2Br1.3(pyra-TTF)0.5+]. Journal of Materials Chemistry, 2010, 20, 10130.	6.7	5
76	Thiophene-fused DCNQI Derivatives: Their Copper Iodide Complexes as a New Family of Molecular Conductors. Phosphorus, Sulfur and Silicon and the Related Elements, 1997, 120, 421-422.	0.8	4
77	Synthesis and properties of dimeric BDT-TTP derivatives. Synthetic Metals, 2003, 137, 937-938.	2.1	4
78	Dielectric response of novel one-dimensional hydrogen-bonded molecular crystal [4,6-dmpH][Hca]. Physica B: Condensed Matter, 2010, 405, S341-S343.	1.3	4
79	Development of chiral molecular crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1146-1148.	0.8	4
80	Single-crystal-to-single-crystal transformation in hydrogen-bond-induced high-spin pseudopolymorphs from protonated cation salts with a Ï€-extended spin crossover Fe(III) complex anion. Polyhedron, 2017, 136, 170-175.	1.0	4
81	Paramagnetic organometallic ionic liquids exhibiting thermochromism based on monomerâ€“dimer equilibrium of cationic half-sandwich complexes. Journal of Molecular Liquids, 2018, 269, 882-885.	2.3	4
82	Dynamics of Water Molecules in a 3-Fold Interpenetrated Hydrogen-Bonded Organic Framework Based on Tetrakis(4-pyridyl)methane. Journal of Physical Chemistry C, 2019, 123, 6599-6606.	1.5	4
83	Preparation and redox properties of longitudinally twinned TCNQ: Hexacyanostilbenequinodimethane dianion. Tetrahedron Letters, 1999, 40, 5349-5352.	0.7	3
84	Peculiar electric-field-induced metastable state of charge-ordered molecular conductor Î²-(meso-DMBEDT-TTF)2PF6. Physica B: Condensed Matter, 2010, 405, S37-S40.	1.3	3
85	A less common spin-crossover process observed in the six-coordinated model heme complexes. Polyhedron, 2013, 66, 60-64.	1.0	3
86	A biferrocenium salt containing paramagnetic tetracyanoquinodimethane hexamers: charge disproportionation via donorâ€“acceptor interactions. Chemical Communications, 2014, 50, 13370-13372.	2.2	3
87	Synthesis and properties of new extended TTP analogs. Synthetic Metals, 2003, 135-136, 671-672.	2.1	2
88	Proximity coupling of superconducting nanograins with fractal distributions. Physical Review B, 2020, 101, .	1.1	2
89	Development of Novel Functional Molecular Crystals by Utilizing Dynamic Hydrogen Bonds. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2017, 75, 1045-1054.	0.0	2
90	Cover Picture: Structural Color and the Lotus Effect (Angew. Chem. Int. Ed. 8/2003). Angewandte Chemie - International Edition, 2003, 42, 839-839.	7.2	1

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91	Organic Metals Based on an Asymmetric Ï€ Donor PEDT-TSF, (PEDT-TSF)2FeX4(PEDT-TSF =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.7	1
92	Preparation of Nanoribbons of Blue Potassium Molybdenum Bronze. Chemistry Letters, 2013, 42, 1514-1516.	0.7	1
93	Coherent interface structures and intergrain Josephson coupling in dense MgO/Mg2Si/MgB2nanocomposites. Journal of Applied Physics, 2016, 120, 015102.	1.1	1
94	Conducting Polynuclear CuI Complexes with Thiophene-Fused DCNQI Ligands. Molecular Crystals and Liquid Crystals, 1996, 285, 175-180.	0.3	0
95	Preparation and Characterization of Novel Aromatic-Inserted Tris-Fused Tetrathiafulvalenes.. ChemInform, 2003, 34, no.	0.1	0
96	Tetrathiapentalene-type donors containing (thio)pyran-4-ylidene as a promising Ï€-electron framework for multi-dimensional molecular conductors. European Physical Journal Special Topics, 2004, 114, 431-437.	0.2	0
97	Manipulation of the heme electronic structure by external stimuli and ligand field. Hyperfine Interactions, 2012, 206, 23-33.	0.2	0
98	Molecular Structures and Redox Properties of Homoleptic Aluminum(III) Complexes with Azobisphenolate (azp) Ligands. Inorganics, 2022, 10, 84.	1.2	0