Mitsuhiko Maesato

List of Publications by Year
in descending order

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119 papers	3,014 citations	279701 23 h-index	168321 53 g-index
128 all docs	128 docs citations	128 times ranked	3033 citing authors

#	Article	IF	Citations
1	Spin Liquid State in an Organic Mott Insulator with a Triangular Lattice. Physical Review Letters, 2003, 91, 107001.	2.9	1,011
2	Proton-Conductive Magnetic Metalâ€“Organic Frameworks, {NR₃(CH₂COOH)}[M_a^{II}M_b^{III}(ox)₃]: Effect of Carboxyl Residue upon Proton Conduction. Journal of the American Chemical Society, 2013, 135, 2256-2262.	6.6	205
3	Emergence of inhomogeneous moments from spin liquid in the triangular-lattice Mott insulatorÎºâˆ’(ET)2Cu2(CN)3. Physical Review B, 2006, 73, .	1.1	127
4	Fabrication of Twoâ€Dimensional Polymer Arrays: Template Synthesis of Polypyrrole between Redoxâ€Active Coordination Nanoslits. Angewandte Chemie - International Edition, 2008, 47, 9883-9886.	7.2	126
5	Uniaxial strain method for soft crystals: Application to the control of the electronic properties of organic conductors. Review of Scientific Instruments, 2000, 71, 176-181.	0.6	107
6	A Purely Organic Molecular Metal Based on a Hydrogen-Bonded Charge-Transfer Complex: Crystal Structure and Electronic Properties of TTF-Imidazole-p-Chloranil. Angewandte Chemie - International Edition, 2004, 43, 6343-6346.	7.2	101
7	Evidence for Weak Spin-Phonon Coupling of a Quantum Spin Liquid in the Molecular Triangular Lattice<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Îº</mml:mi><mml:mtext>â€”</mml:mtext><mml:mo stretchy="false">(</mml:mo><mml:mi>ET</mml:mi><mml:msub><mml:mrow><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Physical Review Letters, 2016, 117, 107203.	2.9	77
8	Low-temperature diffuse X-ray studies of charge-density waves coexisting with spin-density waves in the organic conductors (TMTSF)2PF6 and (TMTSF)2AsF6. Solid State Communications, 1999, 110, 479-483.	0.9	75
9	Hybrid materials of Ni NP@MOF prepared by a simple synthetic method. Chemical Communications, 2015, 51, 12463-12466.	2.2	70
10	A Twoâ€Dimensional Organic Metal Based on Fullerene. Angewandte Chemie - International Edition, 2010, 49, 4829-4832.	7.2	55
11	New organic conductors based on dibromo- and diiodo-TSeFs with magnetic and non-magnetic MX4 counter anions (M = Fe, Ga; X = Cl, Br). Journal of Materials Chemistry, 2006, 16, 3381.	6.7	54
12	Control of electronic properties ofÎ±âˆ’(BEDTâ€“TTF)2MHg(SCN)4(M=K,NH4)by the uniaxial strain method. Physical Review B, 2001, 64, .	1.1	49
13	Spin-disordered quantum phases in a quasi-one-dimensional triangular lattice. Nature Physics, 2015, 11, 679-683.	6.5	35
14	Quantum spin liquid: design of a quantum spin liquid next to a superconducting state based on a dimer-type ET Mott insulator. Journal of Materials Chemistry C, 2015, 3, 1378-1388.	2.7	35
15	Discovery of Hexagonal Structured Pdâ€“B Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 6578-6582.	7.2	34
16	Thermoelectric Properties of Organic Charge-Transfer Compounds. Journal of Electronic Materials, 2009, 38, 1171-1175.	1.0	33
17	Pressure-induced superconductivity and Mott transition in spin-liquid<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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19	Crystal structure and electronic band structure of the organic superconductorÎ±â˜'(BEDTâ˜'TTF)2NH4Hg(SCN)4under uniaxial strain. Physical Review B, 2003, 67, .	1.1	25
20	Room-Temperature First-Order Phase Transition in a Charge-Disproportionated Molecular Conductor (MeEDO-TTF)₂PF₆. Chemistry of Materials, 2008, 20, 7551-7562.	3.2	25
21	The Room-Temperature Superionic Conductivity of Silver Iodide Nanoparticles under Pressure. Journal of the American Chemical Society, 2017, 139, 1392-1395.	6.6	25
22	The Electronic State of Hydrogen in the Î±â€…Phase of the Hydrogenâ€Storage Material PdH(D)_x: Does a Chemical Bond Between Palladium and Hydrogen Exist?. Angewandte Chemie - International Edition, 2018, 57, 9823-9827.	7.2	25
23	Single component betainic conductor: pyrimido-fused TTF derivatives having ethylenedioxy group. Synthetic Metals, 2003, 133-134, 353-355.	2.1	24
24	Phase Transition from Mott Insulating Phase into the Charge Ordering Phase with Molecular Deformation in Charge-Transfer Salts Îº-(ET)4[M(CN)6][N(C2H5)4]Â·2H2O (M = CoIIIand FeIII). Chemistry of Materials, 2007, 19, 2455-2462.	3.2	23
25	Uniaxial Strain Effects on Mott and Superconducting Transitions in Îº-(ET)₂Cu₂(CN)₃. Journal of the Physical Society of Japan, 2011, 80, 074702.	0.7	22
26	Prediction of the Electronic Structure via Molecular Stacking Mode of Radical Cation Salts Based on Asymmetric Donor Molecule MeEDO-TTF. Chemistry of Materials, 2009, 21, 1085-1095.	3.2	19
27	Isotropic Threeâ€Dimensional Molecular Conductor Based on the Coronene Radical Cation. European Journal of Inorganic Chemistry, 2014, 2014, 3871-3878.	1.0	19
28	Spin-Flop Switching and Memory in a Molecular Conductor. Journal of the American Chemical Society, 2012, 134, 17452-17455.	6.6	18
29	Conducting Ï€ Columns of Highly Symmetric Coronene, The Smallest Fragment of Graphene. Chemistry - A European Journal, 2016, 22, 6023-6030.	1.7	18
30	Metal-insulator transition of the 1-D half-filled band metal (TTM-TTP)I3. Synthetic Metals, 1999, 103, 2109-2110.	2.1	17
31	Preparation of Superconducting (TMTSF)2NbF6 by Electrooxidation of TMTSF Using Ionic Liquid as Electrolyte. Molecular Crystals and Liquid Crystals, 2006, 452, 103-112.	0.4	15
32	Design of Spin-Frustrated Monomer-Type C60â€¢â˜' Mott Insulator. Crystals, 2018, 8, 115.	1.0	15
33	Metallic and Mott Insulating Spinâ€Frustrated Antiferromagnetic States in Ionic Fullerene Complexes with a Twoâ€Dimensional Hexagonal C₆₀^{.â˜'} Packing Motif. Chemistry - A European Journal, 2014, 20, 7268-7277.	1.7	14
34	Coronene-based charge-transfer complexes. Journal of Physics Condensed Matter, 2016, 28, 304001.	0.7	13
35	Bedo-TTF Complexes with Magnetic Counter Ions. Molecular Crystals and Liquid Crystals, 2002, 376, 113-120.	0.4	12
36	Transport properties of a Mott insulator Îº-(ET)2Cu2(CN)3 under the uniaxial strain. Synthetic Metals, 2003, 133-134, 225-226.	2.1	12

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37	Mixedâ€Valence Nickel Bis(azamacrocycle) Compounds with Ghostâ€Legâ€type Sheets. Angewandte Chemie - International Edition, 2017, 56, 3838-3841.	7.2	12
38	Heavy interstitial hydrogen doping into SrTiO₃. Chemical Communications, 2018, 54, 12439-12442.	2.2	12
39	Crystal Size Effect on the Spin-Crossover Behavior of {Fe(py)₂[Pt(CN)₄]} (py =) Tj ETQq1 1 0.784314 rgBT	1.9	12
40	Anisotropy in the superconducting transition temperature of Î²-(BEDT-TTF)2X. Synthetic Metals, 2003, 137, 1243-1244.	2.1	11
41	Local response to light excitation in the charge-ordered phase of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mathvariant="normal">F</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	1.1	11
42	Uniaxial strain investigation on the metal-insulator transition of (EDO-TTF)2PF6. Synthetic Metals, 2005, 153, 393-396.	2.1	10
43	Systematic Tuning of the Magnetic Properties in Mixed-Metal MOF-74. Inorganic Chemistry, 2022, 61, 7226-7230.	1.9	10
44	Spin-liquid behavior and superconductivity in Î² -(BEDT-TTF)₂X: The role of uniaxial strain. European Physical Journal Special Topics, 2004, 114, 227-231.	0.2	9
45	Molecular diamond lattice antiferromagnet as a Dirac semimetal candidate. Physical Review B, 2019, 99, .	1.1	9
46	Uniaxial strain study of Î²-(BEDT-TTF)2Cu(NCS)2. Synthetic Metals, 2003, 133-134, 227-228.	2.1	8
47	Spin Liquid in a Spin-Frustrated Organic Mott Insulator. Progress of Theoretical Physics Supplement, 2005, 159, 52-60.	0.2	8
48	Ionicity Phase Diagram of Trifluoromethyl-TCNQ (CF3TCNQ) Charge-Transfer Solids. Bulletin of the Chemical Society of Japan, 2010, 83, 1462-1480.	2.0	8
49	Cationic Ï€-Stacking Columns of Coronene Molecules with Fully Charged and Charge-Disproportionated States. Crystal Growth and Design, 2016, 16, 5994-6000.	1.4	8
50	Molecule-based Mixed Conductor of Proton and Electron Composed of Neutral Ï€-Planar Metal Complexes. Chemistry Letters, 2021, 50, 439-441.	0.7	8
51	Control of electronic properties of organic conductors by uniaxial strain method. Synthetic Metals, 2001, 120, 683-686.	2.1	7
52	Control of Electronic Properties of Organic Conductors by Hydrostatic and Uniaxial Compression. Physica Status Solidi (B): Basic Research, 2001, 223, 97-104.	0.7	7
53	Magnetic ordering in the organic conductor (DIETSe)₂GaCl₄. Journal of Physics: Conference Series, 2009, 150, 042124.	0.3	7
54	Anomalous magnetoresistance and hidden spin canting in (DIETSe)2MCl4(M=Fe, Ga). Physical Review B, 2013, 87, .	1.1	7

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55	Exploration of Charge-Transfer Solids Utilizing Nucleobases: Nanoarchitectures by Hydrogen-Bonds in the Ionic Assemblies of Guanine and TCNQ Derivatives. Crystal Growth and Design, 2013, 13, 2778-2792.	1.4	7
56	Ambient-Pressure Organic Superconductor Î²-(ET)₂Ag(CN)[N(CN)₂] Formed with Polymeric Silver(I) Complex Anion. Journal of the Physical Society of Japan, 2015, 84, 123801.	0.7	7
57	Use of Halogen Bonding in a Molecular Solid Solution to Simultaneously Control Spin and Charge. Chemistry of Materials, 2016, 28, 7276-7286.	3.2	7
58	Partial Substitution of Ag(I) for Cu(I) in Quantum Spin Liquid Î²-(ET)₂Cu₂(CN)₃, Where ET Is Bis(ethylenedithio)tetrathiafulvalene. Inorganic Chemistry, 2019, 58, 4820-4827.	1.9	7
59	Canting Antiferromagnetic Spin-Order (TN = 102 K) in a Monomer Mott Insulator (ET)Ag4(CN)5 with a Diamond Spin-Lattice. Bulletin of the Chemical Society of Japan, 2020, 93, 260-272.	2.0	7
60	Spinâ€“Charge Coupling in the Molecular Conductor (DIETSe)2FeBr4. Journal of the Physical Society of Japan, 2013, 82, 043704.	0.7	6
61	The Electronic State of Hydrogen in the Î±â€…Phase of the Hydrogenâ€Storage Material PdH(D)_x: Does a Chemical Bond Between Palladium and Hydrogen Exist?. Angewandte Chemie, 2018, 130, 9971-9975.	1.6	6
62	Surface morphology-induced spin-crossover-inactive high-spin state in a coordination framework. Chemical Communications, 2021, 57, 1462-1465.	2.2	6
63	Heavy Hydrogen Doping into ZnO and the H/D Isotope Effect. Journal of the American Chemical Society, 2021, 143, 6616-6621.	6.6	6
64	Organic Superconductors. Molecular Crystals and Liquid Crystals, 2006, 455, 31-46.	0.4	5
65	Anomalous Magnetoresistance in the Ï€-d System (DIETSe)2FeCl4. Molecular Crystals and Liquid Crystals, 2006, 455, 123-127.	0.4	5
66	Multi-phonon dynamics of the ultra-fast photoinduced transition of (EDO-TTF)₂SbF₆. Journal of Physics: Conference Series, 2009, 148, 012001.	0.3	5
67	Unconventional Magnetic and Resistive Hysteresis in an Iodineâ€Bonded Molecular Conductor. Angewandte Chemie - International Edition, 2015, 54, 10169-10172.	7.2	5
68	BEDT-TTF Salts Formed with Tetrahedrally Coordinated Zinc(II) Complex Anions. Crystal Growth and Design, 2016, 16, 6613-6630.	1.4	5
69	A compact low-temperature hydrogen ion beam apparatus for in situ physical property measurements. Review of Scientific Instruments, 2017, 88, 123904.	0.6	5
70	Bis(ethylenedithio)tetrathiafulvalene Cation Radical Salts Composed of Nonuniform Silver(I) Complex Polyanions. Inorganic Chemistry, 2019, 58, 16703-16711.	1.9	5
71	An Approach to an Ideal Molecule-Based Mixed Conductor with Comparable Proton and Electron Conductivity. Inorganic Chemistry, 2022, 61, 4453-4458.	1.9	5
72	A thermopower study of the SDW state of quasi one-dimensional conductor (TMTSF)2AsF6. Solid State Communications, 1998, 107, 477-481.	0.9	4

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73	Thermopower study of (tmtsf)2asf6 sdw state. Synthetic Metals, 1999, 103, 2218-2219.	2.1	4
74	Electronic states in the spin-density wave phase of organic conductors: roles of the coexisting 2kF and 4kF chargeâ€“density waves. Synthetic Metals, 2001, 117, 39-43.	2.1	4
75	Uniaxial strain study of organic conductors (TMTSF)2PF6. Synthetic Metals, 2001, 120, 963-964.	2.1	4
76	High-pressure transport study of a charge-transfer salt based on cytosine and TCNQ using a diamond anvil cell. Journal of Physics: Conference Series, 2008, 132, 012011.	0.3	4
77	Control of metal-insulator transition in (EDO-TTF)2SbF6. Journal of Physics: Conference Series, 2009, 148, 012004.	0.3	4
78	Chargeâ€Transfer Solids Using Nucleobases: Supramolecular Architectures Composed of Cytosine and [Ni(dmit)₂] Assembled by Multiple Hydrogen Bonds and Heteroatomic Contacts. Chemistry - A European Journal, 2013, 19, 12325-12335.	1.7	4
79	An Electrically Conductive Single-Component Donorâ€“Acceptorâ€“Donor Aggregate with Hydrogen-Bonding Lattice. Inorganic Chemistry, 2016, 55, 13027-13034.	1.9	4
80	Mixedâ€Valence Nickel Bis(azamacrocycle) Compounds with Ghostâ€Legâ€type Sheets. Angewandte Chemie, 2017, 129, 3896-3899.	1.6	4
81	Triangular-Lattice Organic Mott Insulator with a Disorder-Free Polyanion. Inorganic Chemistry, 2020, 59, 8647-8651.	1.9	4
82	New Insights on the Formation Process and Thermodynamics of the Î±-Phase PdH(D)x through Direct Enthalpy Measurement of H(D) Dissolution. Journal of Physical Chemistry C, 2020, 124, 8663-8668.	1.5	4
83	Heavy carrier doping by hydrogen in the spin-orbit coupled Mott insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2021, 104, .	1.1	4
84	Ni@onion-like carbon and Co@amorphous carbon: control of carbon structures by metal ion species in MOFs. Chemical Communications, 2021, 57, 5897-5900.	2.2	4
85	Pulse-Duration Memory Effect in the Spin-Density Waves of (TMTSF)2AsF6. Journal of the Physical Society of Japan, 1996, 65, 3438-3441.	0.7	3
86	Artificial control of intermolecular distance of organic superconductors: Î±-type BEDTâ€“TTF compounds. Current Applied Physics, 2001, 1, 72-76.	1.1	3
87	Electronic and crystal structures of organic superconductors under the uniaxial strain. Current Applied Physics, 2001, 1, 307-311.	1.1	3
88	Magnetic properties of Îº-(ET)2Cu2(CN)3. Synthetic Metals, 2003, 137, 1247-1248.	2.1	3
89	NMR Study of the Spin-Liquid State and Mott Transition in the Spin-Frustrated Organic System, Îº-(ET)2Cu2(CN)3. Synthetic Metals, 2005, 152, 393-396.	2.1	3
90	Interplay between spin-density wave and 3d local moments with random exchange in a molecular conductor. Physical Review B, 2016, 93, .	1.1	3

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91	Discovery of Hexagonal Structured Pdâ€“B Nanocrystals. Angewandte Chemie, 2017, 129, 6678-6682.	1.6	3
92	High-pressure Effect on a Proton-conducting Metal-Organic Framework, LaCr(C₂O₄)₃Â·10H₂O. Chemistry Letters, 2019, 48, 746-748.	0.7	3
93	Conducting Coronene Cation Radical Salt Containing Magnetic Metal Ions. Inorganic Chemistry, 2019, 58, 14068-14074.	1.9	3
94	A Novel Platinum(III)â€“Platinum(III) Neutral Dimer Complex, Pt₂(cdtb)₄I₂ (cdtb: 4-Cyanodithiobenzoate). Chemistry Letters, 2019, 48, 1035-1037.	0.7	3
95	Transport properties of the spin-density-wave multiphase in (TMTSF)2X. Synthetic Metals, 1997, 86, 2085-2086.	2.1	2
96	Uniaxial strain study of organic conductors Î±-(BEDT-TTF)2MHg(SCN)4[Mï¨…K, NH4]. Synthetic Metals, 2001, 120, 941-942.	2.1	2
97	Physical Properties and Crystal Structures of Charge Transfer Complexes Based on EDOEDT-TTF (EOET). Molecular Crystals and Liquid Crystals, 2002, 376, 201-206.	0.4	2
98	Crystal structure of organic superconductor, Î±-(BEDT-TTF)2NH4Hg(SCN)4, under the uniaxial strain. Synthetic Metals, 2003, 133-134, 137-139.	2.1	2
99	Inhomogeneous Spin State in a Spin Liquid on a Triangular Lattice under a Magnetic Field. AIP Conference Proceedings, 2006, , .	0.3	2
100	High pressure investigation of an organic three-dimensional Dirac semimetal candidate having a diamond lattice. Physical Review B, 2020, 101, .	1.1	2
101	Magnetic field driven transition between valence bond solid and antiferromagnetic order in a distorted triangular lattice. Physical Review Research, 2021, 3, .	1.3	2
102	Design of Organic (Super)Conductors and Study of Their Physical Properties. , 2004, , 19-44.		2
103	Reversible resistance switching by excess hydrogen doping in rutile TiO₂. Applied Physics Express, 2020, 13, 105502.	1.1	2
104	Uniaxial Strain Induced Superconductivity in Quantum Spin Liquid Î°-(ET)₂Ag₂(CN)₃. Journal of the Physical Society of Japan, 2020, 89, 054709.	0.7	2
105	Anomalies in transport and thermal properties of (tmtsf)2asf6. Synthetic Metals, 1999, 103, 2210-2211.	2.1	1
106	Novel electronic states of organic conductors under uniaxial stress or uniaxial strain. Synthetic Metals, 2001, 117, 87-90.	2.1	1
107	Control of electronic properties of organic superconductors by uniaxial strain method. Molecular Crystals and Liquid Crystals, 2002, 380, 77-84.	0.4	1
108	Structures and physical properties of cation radical salts based on low-symmetrical ethylenedioxy-ethylenedithio-TTF. European Physical Journal Special Topics, 2004, 114, 595-597.	0.2	1

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109	New Series of Pentanary Oxides, AM2C6Te3O18 (A = Pb, Sr; M = Mn, Cd; C = Ni, Co): Synthesis, Structure, and Magnetic and Optical Properties. Journal of Physical Chemistry C, 2020, 124, 25071-25077.	1.5	1
110	First Observation of Superconductivity in Molybdenumâ€“Rutheniumâ€“Carbon Alloy Nanoparticles. Chemistry Letters, 2021, 50, 596-598.	0.7	1
111	Heavy interstitial hydrogen doping into SrTiO3. , 0, .		1
112	1H-NMR study of Mott insulator Îº -(ET)2Cu2(CN)3with isotropic triangular lattice. European Physical Journal Special Topics, 2004, 114, 377-378.	0.2	1
113	Effects of Uniaxial Strain on Î±-(BEDT-TTF) 2 MHg(SCN) 4 [M=K, NH 4]. Molecular Crystals and Liquid Crystals, 2002, 376, 195-200.	0.4	0
114	Superconductivity of a Î¸-type et salt prepared using CuCN AND PH 4 PN(CN) 2 as electrolyte. Molecular Crystals and Liquid Crystals, 2002, 380, 135-138.	0.4	0
115	Crystal and band structures of organic superconductor under the uniaxial strain. Physica C: Superconductivity and Its Applications, 2003, 388-389, 601-602.	0.6	0
116	Uniaxial strain study of electronic and crystal structures of organic conductors. Synthetic Metals, 2003, 133-134, 145-146.	2.1	0
117	Band structure control of organic superconductors by the uniaxial strain method. Synthetic Metals, 2003, 137, 1163-1165.	2.1	0
118	Soft X-ray photoemission study of organic conductors BEDT-TTF and BEDO-TTF salts. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 275-277.	0.8	0
119	Superconductivity Emerging from Spin-Liquid Mott Insulator in Triangular Lattice System. AIP Conference Proceedings, 2006, , .	0.3	0