

Hiroshi Okamoto

List of Publications by Year in descending order

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papers

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318
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times ranked

6173
citing authors

#	ARTICLE	IF	CITATIONS
1	Gigantic optical nonlinearity in one-dimensional Mott-Hubbard insulators. <i>Nature</i> , 2000, 405, 929-932.	13.7	330
2	Ultrafast Optical Switching to a Metallic State by Photoinduced Mott Transition in a Halogen-Bridged Nickel-Chain Compound. <i>Physical Review Letters</i> , 2003, 91, 057401.	2.9	289
3	Thermochromism in an organic crystal based on the coexistence of π - and π -dimers. <i>Nature Materials</i> , 2008, 7, 48-51.	13.3	216
4	Two-Step Spin Conversion in a Cyanide-Bridged Ferrous Square. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6484-6487.	7.2	184
5	Bottom-up realization of a porous metal-organic nanotubular assembly. <i>Nature Materials</i> , 2011, 10, 291-295.	13.3	181
6	Programmable spin-state switching in a mixed-valence spin-crossover iron grid. <i>Nature Communications</i> , 2014, 5, 3865.	5.8	178
7	Anomalous dielectric response in tetrathiafulvalene-p-chloranil as observed in temperature- and pressure-induced neutral-to-ionic phase transition. <i>Physical Review B</i> , 1991, 43, 8224-8232.	1.1	147
8	Photoinduced Metallic State Mediated by Spin-Charge Separation in a One-Dimensional Organic Mott Insulator. <i>Physical Review Letters</i> , 2007, 98, 037401.	2.9	145
9	Exploration of new cooperative proton-electron transfer (PET) systems: first example of extended conjugated quinhydrones, 1,5-dihalo-2,6-naphthoquinhydrones. <i>Journal of the American Chemical Society</i> , 1991, 113, 1862-1864.	6.6	142
10	Resonance Balance Shift in Stacks of Delocalized Singlet Biradicals. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5482-5486.	7.2	140
11	Photoinduced phase transition in tetrathiafulvalene-p-chloranil observed in femtosecond reflection spectroscopy. <i>Physical Review B</i> , 2004, 70, .	1.1	136
12	Impact of Diradical Character on Two-Photon Absorption: Bis(acridine) Dimers Synthesized from an Allenic Precursor. <i>Journal of the American Chemical Society</i> , 2013, 135, 232-241.	6.6	135
13	Quantum interference between charge excitation paths in a solid-state Mott insulator. <i>Nature Physics</i> , 2011, 7, 114-118.	6.5	134
14	Optical and magnetic properties of the halogen-bridged metal complexes modified by hydrogen bondings: $\{M(1R,2R\text{-cyclohexanediamine})_2Br\}Br_2$ ($M=Pt, Pd, \text{ and } Ni$). <i>Physical Review B</i> , 1990, 42, 10381-10387.	1.1	133
15	Solitons, Polarons, and Excitons in Quasi-One-Dimensional Halogen-Bridged Transition Metal Compounds. <i>Bulletin of the Chemical Society of Japan</i> , 1998, 71, 2023-2039.	2.0	133
16	Photoinduced Melting of a Stripe-Type Charge-Order and Metallic Domain Formation in a Layered BEDT-TTF-Based Organic Salt. <i>Physical Review Letters</i> , 2007, 98, 097402.	2.9	133
17	Domain-wall dynamics in organic charge-transfer compounds with one-dimensional ferroelectricity. <i>Physical Review Letters</i> , 1989, 63, 2405-2408.	2.9	130
18	Ultrafast Optical Switching from an Ionic to a Neutral State in Tetrathiafulvalene-p-Chloranil (TTF-CA) Observed in Femtosecond Reflection Spectroscopy. <i>Physical Review Letters</i> , 2002, 88, 057402.	2.9	128

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19	General Features of Photoinduced Spin Dynamics in Ferromagnetic and Ferrimagnetic Compounds. Physical Review Letters, 2005, 94, 087202.	2.9	128
20	Photoinduced Phase Transition in an Organic Radical Crystal with Room-Temperature Optical and Magnetic Bistability. Physical Review Letters, 2003, 91, 017403.	2.9	124
21	Photosensitive Function of Encapsulated Dye in Carbon Nanotubes. Journal of the American Chemical Society, 2007, 129, 4992-4997.	6.6	123
22	Nonlinear electric transport and switching phenomenon in the mixed-stack charge-transfer crystal tetrathiafulvalene-p-chloranil. Physical Review B, 1988, 38, 2215-2218.	1.1	110
23	Photoinduced transition from wide insulator to metal in the undoped cuprates $Nd_{2-x}Cu_xO_{7-y}$	1.1	101
24	Photogeneration of solitons and polarons in 1-D halogen-bridged metal complexes. Physical Review Letters, 1992, 69, 2248-2251.	2.9	100
25	Ultrafast Photoinduced Insulator-Ferromagnet Transition in the Perovskite Manganite $Sr_{1-x}Ca_xMnO_3$	2.9	96
26	Ultrafast modulation of polarization amplitude by terahertz fields in electronic-type organic ferroelectrics. Nature Communications, 2013, 4, 2586.	5.8	96
27	Ultrafast charge dynamics in photoinduced $Nd_{2-x}Cu_xO_{7-y}$	1.1	95
28	Electronic structure of the quasi-one-dimensional halogen-bridged Ni complexes $[Ni(chxn)_2X]_2$ (X=Cl, Br) and related Ni compounds. Physical Review B, 1996, 54, 8438-8445.	1.1	94
29	Control of CDW state in halogen-bridged metal complexes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1992, 13, L9-L14.	1.7	92
30	Room-temperature magnetic bistability in organic radical crystals: Paramagnetic-diamagnetic phase transition in 1,3,5-trithia-2,4,6-triazapentalenyl. Physical Review B, 2002, 65, .	1.1	88
31	Novel Optical and Magnetic Bistability and Photoinduced Transition in a One-Dimensional Halogen-Bridged Binuclear Pt Complex. Physical Review Letters, 2003, 90, 046401.	2.9	84
32	Ultrafast Photoinduced Melting of a Spin-Peierls Phase in an Organic Charge-Transfer Compound, K-Tetracyanoquinodimethane. Physical Review Letters, 2006, 96, 037405.	2.9	82
33	Large Optical Nonlinearity of Semiconducting Single-Walled Carbon Nanotubes under Resonant Excitations. Physical Review Letters, 2005, 94, 047404.	2.9	80
34	Charge-Density-Wave to Mott-Hubbard Phase Transition in Quasi-One-Dimensional Bromo-Bridged Pd Compounds. Journal of the American Chemical Society, 2008, 130, 12080-12084.	6.6	79
35	Large Third-Order Optical Nonlinearity of Cu-O Chains Investigated by Third-Harmonic Generation Spectroscopy. Physical Review Letters, 2001, 87, 177401.	2.9	69
36	Control of magnetic-field effect on electroluminescence in Alq3-based organic light emitting diodes. Applied Physics Letters, 2006, 88, 123501.	1.5	69

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37	THz-Frequency Modulation of the Hubbard U in an Organic Mott Insulator. Physical Review Letters, 2015, 115, 187401.	2.9	69
38	Development of a Robust Model System of FRET using Base Surrogates Tethering Fluorophores for Strict Control of Their Position and Orientation within DNA Duplex. Journal of the American Chemical Society, 2013, 135, 741-750.	6.6	67
39	Ultrafast Phase Control in One-Dimensional Correlated Electron Systems. Journal of the Physical Society of Japan, 2006, 75, 011007.	0.7	66
40	Linear and nonlinear optical properties of one-dimensional Mott insulators consisting of Ni-halogen chain and CuO-chain compounds. Physical Review B, 2004, 70, .	1.1	65
41	Photoinduced spin dynamics in $\text{La}_{0.6}\text{Sr}_{0.4}\text{MnO}_3$ observed by time-resolved magneto-optical Kerr spectroscopy. Physical Review B, 2003, 68, .	1.1	64
42	Direct Detection of the Ultrafast Response of Charges and Molecules in the Photoinduced Neutral-to-Ionic Transition of the Organic Tetrathiafulvalene-Chloranil Solid. Physical Review Letters, 2010, 105, 258302.	2.9	64
43	Coherent Control of Charge and Lattice Dynamics in a Photoinduced Neutral-to-Ionic Transition of a Charge-Transfer Compound. Physical Review Letters, 2006, 96, 057403.	2.9	63
44	Charge Fluctuation in MMX Chain Compounds, $\text{A}_4[\text{Pt}_2(\text{pop})_4]\cdot n\text{H}_2\text{O}$. Journal of the American Chemical Society, 1999, 121, 2321-2322.	6.6	62
45	Submicron-scale spatial feature of ultrafast photoinduced magnetization reversal in TbFeCo thin film. Applied Physics Letters, 2009, 94, .	1.5	61
46	Spectroscopic Study Of The Neutral-To-Ionic Phase Transition In Ttf-Chloranil. Molecular Crystals and Liquid Crystals, 1985, 125, 71-80.	0.9	59
47	Structure and Optical Properties of Thermochromic Schiff Bases. Charge Transfer Interaction and Proton Transfer in the N-Tetrachlorosalicylideneaniline and N-Tetrachlorosalicylidene-1-pyrenylamine Crystals. Bulletin of the Chemical Society of Japan, 1991, 64, 801-810.	2.0	58
48	Pressure-Dependent Relaxation in the Photoexcited Mott Insulator TCNQ . Influence of Hopping and Correlations on Quasiparticle Recombination Rates. Physical Review Letters, 2014, 112, 117801.	2.9	58
49	Ultrafast Optical Switching by using Nanocrystals of a Halogen-Bridged Nickel Chain Compound Dispersed in an Optical Polymer. Advanced Materials, 2007, 19, 2707-2710.	11.1	56
50	Optical study of structural phase transition in organic charge-transfer crystals K- and Rb-tetracyanoquinodimethane. Physical Review B, 1987, 36, 3858-3867.	1.1	55
51	Nonlinear Magneto-Optical Kerr Rotation of an Oxide Superlattice with Artificially Broken Symmetry. Physical Review Letters, 2003, 90, 217403.	2.9	55
52	Tuning of Charge Density Wave Strengths by Competition between Electron-Phonon Interaction of Pd Mixed-Valence States and Electron Correlation of Ni States in Quasi-One-Dimensional Bromo-Bridged Ni-Pd Mixed-Metal MX Chain Compounds $\text{Ni}_{1-x}\text{Pd}_x(\text{chxn})_2\text{Br}_3$. Inorganic Chemistry, 1999, 38, 5124-5130.	1.9	54
53	Synthesis of a New Thiophene/Quinoxaline CT-Type Copolymer with High Solubility and Its Basic Optical Properties. Macromolecular Rapid Communications, 2003, 24, 440-443.	2.0	54
54	Pressure-induced neutral-to-ionic phase transition in TTF-p-chloranil studied by infrared vibrational spectroscopy. Solid State Communications, 1986, 57, 607-610.	0.9	52

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55	Near-infrared absorption of π -stacking columns composed of trioxotriangulene neutral radicals. <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	52
56	The Ferromagnetic Chain System $\text{catena-}(\frac{1}{4}\text{-CrO}_4\text{-O, O}^{2-})[\text{Ni}(\text{cyclam})]\cdot 2\text{H}_2\text{O}$. <i>Inorganic Chemistry</i> , 1997, 36, 3201-3203.	1.9	49
57	Mott transition by an impulsive dielectric breakdown. <i>Nature Materials</i> , 2017, 16, 1100-1105.	13.3	49
58	Third-order optical nonlinearity in regio-controlled polythiophene films. <i>Applied Physics Letters</i> , 2005, 87, 121902.	1.5	48
59	Infrared molecular-vibration spectra of tetrathiafulvalene-chloranil crystal at low temperature and high pressure. <i>Physical Review B</i> , 1987, 36, 3884-3887.	1.1	46
60	IR Study of the H-Bond Coupled with the Mixed-Valence State of Halogen-Bridged Metal Complexes. <i>Journal of the Physical Society of Japan</i> , 1991, 60, 997-1004.	0.7	45
61	Conversion of Excitons to Spin-Soliton Pairs in Quasi-One-Dimensional Halogen-Bridged Metal Complexes. <i>Physical Review Letters</i> , 1998, 80, 861-864.	2.9	44
62	Ultrafast Photoinduced Formation of Metallic State in a Perovskite-type Manganite with Short Range Charge and Orbital Order. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 043702.	0.7	42
63	Vapochromic Behavior Accompanied by Phase Transition between Charge-Polarization and Charge-Density-Wave States in a Quasi-One-Dimensional Iodine-Bridged Dinuclear Platinum Compound. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3240-3243.	7.2	41
64	Visualization of Local Valence Structures in Quasi-One-Dimensional Halogen-Bridged Complexes $[\text{Ni}_{1-x}\text{Pdx}(\text{chxn})_2\text{Br}]_2\text{Br}_2$ by STM. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3171-3175.	7.2	40
65	Visualization of ferroelectric domains in a hydrogen-bonded molecular crystal using emission of terahertz radiation. <i>Applied Physics Letters</i> , 2014, 105, 041101.	1.5	40
66	Optical Properties of a Vibrationally Modulated Solid State Mott Insulator. <i>Scientific Reports</i> , 2014, 4, 3823.	1.6	40
67	Pressure-induced neutral-to-ionic phase transition in organic charge-transfer crystals of tetrathiafulvalene-p-benzoquinone derivatives. <i>Physical Review B</i> , 1989, 39, 10693-10701.	1.1	39
68	Multiple-Hydrogen-Bond Approach to Uncommon Pd(III) Oxidation State: A $\text{Pd}^{\text{IV}}\text{Br}$ Chain with High Conductivity and Thermal Stability. <i>Journal of the American Chemical Society</i> , 2017, 139, 6562-6565.	6.6	39
69	Novel ET-Coordinated Copper(I) Complexes: Syntheses, Structures, and Physical Properties (ET =) $\text{Tj ETQq1 1 0.784314 rgBT} / \text{Overlook}$	1.9	38
70	Ultrafast photoinduced melting of orbital order in LaVO_3 . <i>Physical Review B</i> , 2003, 68, .	1.1	38
71	Enhancement of luminescence intensity in TMPY/perylene co-single crystals. <i>Journal of Materials Chemistry</i> , 2011, 21, 17662.	6.7	38
72	Tuning of electronic structures of quasi one-dimensional iodide-bridged dinuclear platinum mixed-valence complexes. <i>Coordination Chemistry Reviews</i> , 2006, 250, 2335-2346.	9.5	37

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73	Halogen-Bridged PtII/PtIV Mixed-Valence Ladder Compounds. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7214-7217.	7.2	36
74	Ultrafast photoinduced melting of spin-Peierls phase in the organic charge-transfer compounds alkali-tetracyanoquinodimethane. <i>Physical Review B</i> , 2007, 76, .	1.1	35
75	Photoinduced switching between charge and orbital ordered insulator and ferromagnetic metal in perovskite manganites. <i>Physical Review B</i> , 2008, 77, .	1.1	35
76	Excitation-Photon-Energy Selectivity of Photoconversions in Halogen-Bridged Pd-Chain Compounds: Mott Insulator to Metal or Charge-Density-Wave State. <i>Physical Review Letters</i> , 2014, 113, 096403.	2.9	35
77	Dynamical Valence Fluctuation at the Charge-Density-Wave Phase Boundary in Iodide-Bridged Pt Compound [Pt(chxn)2]I2. <i>Journal of the American Chemical Society</i> , 2006, 128, 6420-6425.	6.6	34
78	Ultrafast Charge Dynamics in One-Dimensional Organic Mott Insulators. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 113714.	0.7	34
79	Detecting charge and lattice dynamics in photoinduced charge-order melting in perovskite-type manganites using a 30-femtosecond time resolution. <i>Physical Review B</i> , 2009, 79, .	1.1	34
80	Optical pump-probe spectroscopy of photocarriers in rubrene single crystals. <i>Physical Review B</i> , 2011, 83, .	1.1	34
81	Tuning the electronic structure from charge-transfer insulator to Mott-Hubbard and Peierls insulators in one-dimensional halogen-bridged mixed-metal compounds. <i>Physical Review B</i> , 2004, 70, .	1.1	33
82	Third-order nonlinear susceptibility spectra of CuO chain compounds investigated by the Z-scan method. <i>Physical Review B</i> , 2004, 70, .	1.1	32
83	Switching of Transfer Characteristics of an Organic Field-Effect Transistor by Phase Transitions: Sensitive Response to Molecular Dynamics and Charge Fluctuation. <i>Chemistry of Materials</i> , 2015, 27, 4441-4449.	3.2	32
84	Terahertz-Field-Induced Large Macroscopic Polarization and Domain-Wall Dynamics in an Organic Molecular Dielectric. <i>Physical Review Letters</i> , 2017, 118, 107602.	2.9	32
85	Photo-Induced Dynamics of Charge/Orbital Order in Perovskite Manganite Nd _{0.5} Ca _{0.5} MnO ₃ . <i>Journal of the Physical Society of Japan</i> , 2002, 71, 2380-2383.	0.7	31
86	Charge dynamics of Ca _{2-x} NaxCuO ₂ Cl ₂ as a correlated electron system with the ideal tetragonal lattice. <i>Physical Review B</i> , 2004, 70, .	1.1	31
87	Novel electronic ferroelectricity in an organic charge-order insulator investigated with terahertz-pump optical-probe spectroscopy. <i>Scientific Reports</i> , 2016, 6, 20571.	1.6	31
88	Three-Dimensional Structure of an Unsymmetrical Proton-Electron Transfer System Containing a Disulfide Bond: The Bis(4-hydroxy-phenyl)disulfide-Benzoquinone Complex. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 852-854.	4.4	28
89	Dynamics of solitons and polarons in the quasi-one-dimensional MX chain compound [Pt(en)2][Pt(en)2I2](ClO4)4s. <i>Physical Review B</i> , 1997, 55, 6330-6334.	1.1	28
90	Ultrafast Photoconversion from Charge Density Wave State to Mott-Hubbard State in One-Dimensional Extended Peierls-Hubbard System of Br-Bridged Pd Compound. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 123701.	0.7	27

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91	One-dimensional Bromo-bridged Ni ^{III} Complexes [Ni(S ₂ Br) ₂] ₂ (S ₂ Br = 2,3-diaminobutane): Synthesis, Physical Properties, and Electrostatic Carrier Doping. Chemistry - A European Journal, 2008, 14, 472-477.	1.7	27
92	Ferroelectric nature and real-space observations of domain motions in the organic charge-transfer compound tetrathiafulvalene-chloranil. Physical Review B, 2009, 80, .	1.1	27
93	Ultrafast Photoinduced Electric-Polarization Switching in a Hydrogen-Bonded Ferroelectric Crystal. Physical Review Letters, 2017, 118, 107404.	2.9	27
94	Direct Observation of Excitons and a Continuum of One-Dimensional Mott Insulators: A Reflection-Type Third-Harmonic-Generation Study of Ni-Halogen Chain Compounds. Physical Review Letters, 2005, 95, 087401.	2.9	26
95	Mixed Charge-Ordering State of MMX-Type Quasi-One-Dimensional Iodide-Bridged Platinum Complexes with Binary Counteranions. Journal of the American Chemical Society, 2008, 130, 17668-17669.	6.6	26
96	Ultrafast photoinduced transitions in charge density wave, Mott insulator, and metallic phases of an iodine-bridged platinum compound. Physical Review B, 2009, 79, .	1.1	26
97	F ₁₀ -BINOL-derived chiral phosphoric acid-catalyzed enantioselective carbonyl-ene reaction: theoretical elucidation of stereochemical outcomes. Chemical Science, 2019, 10, 1426-1433.	3.7	26
98	Validity of the Mott formula and the origin of thermopower in $\tilde{\epsilon}$ -conjugated semicrystalline polymers. Physical Review B, 2019, 100, .	1.1	26
99	[Pt(en) ₂][PtX ₂ (en) ₂] ₃ [(MX ₅ X ₃) ₂] ₁₂ ·nH ₂ O: Quasi-One-Dimensional Halogen-Bridged Pt ^{II} /Pt ^{IV} Mixed-Valence Compounds with Magnetic Counteranions. Angewandte Chemie - International Edition, 2004, 43, 4763-4767.	7.2	24
100	Photocarrier dynamics in anatase TiO ₂ investigated by pump-probe absorption spectroscopy. Journal of Applied Physics, 2014, 115, .	1.1	24
101	Water-vapor-induced Reversible Switching of Electronic States in an MMX-Type Chain Complex with Retention of Single Crystallinity. Angewandte Chemie - International Edition, 2010, 49, 552-555.	7.2	23
102	Electronic structures of quasi-one-dimensional halogen-bridged Ni ^{III} complexes with strong electron-correlations. Coordination Chemistry Reviews, 1999, 190-192, 309-330.	9.5	21
103	Valence Fluctuation and Domain-Wall Dynamics in Pressure-Induced Neutral-to-Ionic Phase Transition of Organic Charge-Transfer Crystal. Journal of the Physical Society of Japan, 2005, 74, 2925-2928.	0.7	21
104	Relaxation Dynamics of Photoexcited Excitons in Rubrene Single Crystals Using Femtosecond Absorption Spectroscopy. Physical Review Letters, 2012, 109, 097403.	2.9	21
105	Delay-time modulation spectroscopy using a cw mode-locked Nd:YAG laser synchronized with the synchrotron radiation pulses (invited). Review of Scientific Instruments, 1989, 60, 1569-1572.	0.6	20
106	Ultrafast polarization and magnetization response of multiferroic GaFeO ₃ time-resolved nonlinear optical techniques. Physical Review B, 2009, 79, .	1.1	20
107	Bromide-bridged palladium(ⁱⁱⁱ) chain complexes showing charge bistability near room temperature. Chemical Communications, 2014, 50, 8382-8384.	2.2	20
108	Ultrafast Electron and Molecular Dynamics in Photoinduced and Electric-Field-Induced Neutral-Ionic Transitions. Crystals, 2017, 7, 132.	1.0	20

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109	Doublon-holon pairing mechanism via exchange interaction in two-dimensional cuprate Mott insulators. <i>Science Advances</i> , 2019, 5, eaav2187.	4.7	20
110	Photo-induced gap state in the Mott-Hubbard system of halogen-bridged Ni ³⁺ complex({Ni(chxn)2Br}Rr2). <i>Solid State Communications</i> , 1991, 77, 465-469.	0.9	19
111	Revisited phase diagram on charge instability and lattice symmetry breaking in the organic ferroelectric TTF-QCl_4 . <i>Physical Review B</i> , 2018, 98, .	1.1	19
112	Laser Pouch Motors: Selective and Wireless Activation of Soft Actuators by Laser-Powered Liquid-to-Gas Phase Change. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 4180-4187.	3.3	19
113	Long Carbon-Carbon Bonding beyond 2 Å... in Tris(9-fluorenylidene)methane. <i>Journal of the American Chemical Society</i> , 2021, 143, 14360-14366.	6.6	19
114	Photo-Generation of Solitons and Polarons in the Quasi-1-D MX Compounds. <i>Progress of Theoretical Physics Supplement</i> , 1993, 113, 191-202.	0.2	18
115	Competition between electron correlation of NiII states and electron-phonon interaction of PdII-PdIV mixed-valence states in quasi-one-dimensional halogen-bridged mixed-metal complexes, Ni 1-x Pd x (chxn) 2 Br 3. , 1997, , .		18
116	Tuning of Spin Density Wave Strengths in Quasi-One-Dimensional Halogen-Bridged NiII Complexes with Strong Electron Correlations, [NiII(chxn)2X]Y2. <i>Inorganic Chemistry</i> , 1999, 38, 1894-1899.	1.9	18
117	Terahertz radiation induced by coherent phonon generation via impulsive stimulated Raman scattering in paratellurite. <i>Physical Review A</i> , 2014, 90, .	1.0	18
118	Optically Visible Phase Separation between Mott-Hubbard and Charge-Density-Wave Domains in a Pd-Br Chain Complex. <i>ChemistrySelect</i> , 2016, 1, 259-263.	0.7	18
119	Probing ultrafast spin-relaxation and precession dynamics in a cuprate Mott insulator with seven-femtosecond optical pulses. <i>Nature Communications</i> , 2018, 9, 3948.	5.8	18
120	Photogeneration of Solitons and Polarons in MX Chains. <i>Molecular Crystals and Liquid Crystals</i> , 1994, 256, 161-170.	0.3	17
121	Third-order optical nonlinearity in charge-transfer-type conjugated polymers. <i>Physical Review B</i> , 2004, 70, .	1.1	17
122	Role of Coulomb Interactions and Spin-Peierls Dimerizations in Neutral-to-Ionic Phase Transition Investigated by Femtosecond Reflection Spectroscopy. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 073703.	0.7	17
123	Carrier dynamics of rubrene single-crystals revealed by transient broadband terahertz spectroscopy. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	17
124	Circularly polarized narrowband terahertz radiation from a eulytite oxide by a pair of femtosecond laser pulses. <i>Physical Review A</i> , 2014, 89, .	1.0	17
125	Temperature and carrier-density dependence of electron-hole scattering in silicon investigated by optical-pump terahertz-probe spectroscopy. <i>Physical Review B</i> , 2015, 91, .	1.1	17
126	Terahertz Radiation Imaging of Ferroelectric Domain Topography in Room-Temperature Hydrogen-Bonded Supramolecular Ferroelectrics. <i>ACS Photonics</i> , 2015, 2, 1373-1383.	3.2	17

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127	Optical Reflectivity Spectra of Incommensurate Layer Compounds, (CeS) _{1.2} NbS ₂ and (CeS) _{0.6} NbS ₂ . Journal of the Physical Society of Japan, 1993, 62, 2166-2173.	0.7	16
128	Optical Control of the Magnetic Anisotropy of Ferromagnetic Bilayered Manganites. Physical Review Letters, 2007, 98, 017402.	2.9	16
129	Terahertz-field-driven sub-picosecond optical switching enabled by large third-order optical nonlinearity in a one-dimensional Mott insulator. Applied Physics Letters, 2013, 102, .	1.5	16
130	Synthetic Method for 2,2'-Disubstituted Fluorinated Binaphthyl Derivatives and Application as Chiral Source in Design of Chiral Mono-Phosphoric Acid Catalyst. Chirality, 2015, 27, 464-475.	1.3	16
131	Syntheses, Structures, and Solid State Properties of One-Dimensional Halogen-Bridged Ni ¹¹¹ Compounds (X=Cl and Br). Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 181, 333-342.	0.3	15
132	Competition between electron-correlation in Ni(III) and electron-lattice interaction in Pd(II)-Pd(IV) in mixed-metal MX-chain, Ni _{1-x} Pd _x (chxn) ₂ Br ₃ . Synthetic Metals, 1997, 86, 2233-2234.	2.1	15
133	Strong effective suppression of electron-lattice interaction in the photoexcited states of halogen-bridged Ni complexes as one-dimensional Mott insulators. Physical Review B, 2002, 66, .	1.1	15
134	Gigantic Optical Stark Effect and Ultrafast Relaxation of Excitons in Single-Walled Carbon Nanotubes. Journal of the Physical Society of Japan, 2006, 75, 043709.	0.7	15
135	Measurement of a Pronounced Transition from a Nonordered Phase to a Transient Ordered Phase in the Organic Quantum-Paraelectric Compound dimethyltetraathiafulvalene-dibromodichloro- $\text{p}(\text{benzoquinone})$ Using Femtosecond Laser Irradiation. Physical Review Letters, 2013, 111, 187801.	2.9	15
136	Large second-order optical nonlinearity in a ferroelectric molecular crystal of croconic acid with strong intermolecular hydrogen bonds. Applied Physics Letters, 2013, 102, .	1.5	15
137	Terahertz Radiation by Subpicosecond Magnetization Modulation in the Ferrimagnet LiFe ₅ O ₈ . ACS Photonics, 2016, 3, 1170-1175.	3.2	15
138	Smallest Optical Gap for Pt(II)-Pt(IV) Mixed-Valence Pt-Cl and Pt-Br Chain Complexes Achieved by Using a Multiple-Hydrogen-Bond Approach. Inorganic Chemistry, 2019, 58, 114-120.	1.9	15
139	A new 1-D conducting state stabilized by strong H-bondings in halogen-bridged metal complexes. Synthetic Metals, 1991, 42, 2791-2794.	2.1	14
140	Control of Ct Instability In 1-D Mixed-Valence Systems. Molecular Crystals and Liquid Crystals, 1992, 218, 247-252.	0.3	14
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