

Tomohiro Seki

List of Publications by Year in descending order

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93
papers

4,975
citations

94269

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all docs

100
docs citations

100
times ranked

5044
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional flexible molecular crystals: intrinsic and mechanoresponsive properties. <i>CrystEngComm</i> , 2021, 23, 5686-5696.	1.3	44
2	(9-Isocyananthracene)gold(I) Complexes Exhibiting Two Modes of Crystal Jumps by Different Structure Change Mechanisms. <i>Inorganic Chemistry</i> , 2021, 60, 10849-10856.	1.9	25
3	Synthesis and Optical Properties of C ₂ N-Swapped Boranils Derived from Potassium Acyltrifluoroborates. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 1547-1552.	2.0	4
4	Mechanically Deformable Molecular Crystals Based on Molecular Arrangement Changes. <i>Nihon Kessho Gakkaishi</i> , 2021, 63, 175-176.	0.0	0
5	Aurophilicity-Mediated Construction of Emissive Porous Molecular Crystals as Versatile Hosts for Liquid and Solid Guests. <i>Chemistry - A European Journal</i> , 2020, 26, 735-744.	1.7	19
6	Stacked nanocarbon photosensitizer for efficient blue light excited Eu(III) emission. <i>Communications Chemistry</i> , 2020, 3, .	2.0	19
7	Crystal Jumping of Simple Hydrocarbons: Cooling-induced Salient Effect of Bis-, Tri-, and Tetraphenylethene through Anisotropic Lattice Dimension Changes without Thermal Phase Transitions. <i>Chemistry Letters</i> , 2020, 49, 174-177.	0.7	10
8	Synthesis and Tunable Optical Properties of C ₂ N-Chelated Borate Luminophores Derived from Potassium Acyltrifluoroborates. <i>Chemistry - A European Journal</i> , 2020, 26, 2450-2455.	1.7	14
9	Thermosalience in Macrocyclic-Based Soft Crystals via Anisotropic Deformation of Disilanyl Architecture. <i>Journal of the American Chemical Society</i> , 2020, 142, 12651-12657.	6.6	44
10	Hydrogen bond-directed supramolecular polymorphism leading to soft and hard molecular ordering. <i>Chemical Communications</i> , 2020, 56, 4280-4283.	2.2	28
11	Photoluminescent Ferroelastic Molecular Crystals. <i>Angewandte Chemie</i> , 2020, 132, 8924-8928.	1.6	16
12	Photoluminescent Ferroelastic Molecular Crystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8839-8843.	7.2	57
13	Mixed crystal formation of two gold isocyanide complexes with various ratios for continuous tuning of photophysical properties. <i>Dalton Transactions</i> , 2020, 49, 2073-2076.	1.6	10
14	Direct Dimesitylborylation of Benzofuran Derivatives by an Iridium-Catalyzed C-H Activation with Silyldimesitylborane. <i>Chemistry - A European Journal</i> , 2019, 25, 12924-12928.	1.7	9
15	Near-IR Luminescent Yb III Coordination Polymers Composed of Pyrene Derivatives for Thermostable Oxygen Sensors. <i>Chemistry - A European Journal</i> , 2019, 25, 12308-12315.	1.7	20
16	Anisotropic Thermal Expansion as the Source of Macroscopic and Molecular Scale Motion in Phosphorescent Amphidynamic Crystals. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18003-18010.	7.2	56
17	Frontispiece: Near-IR Luminescent Yb ^{III} Coordination Polymers Composed of Pyrene Derivatives for Thermostable Oxygen Sensors. <i>Chemistry - A European Journal</i> , 2019, 25, .	1.7	0
18	Anisotropic Thermal Expansion as the Source of Macroscopic and Molecular Scale Motion in Phosphorescent Amphidynamic Crystals. <i>Angewandte Chemie</i> , 2019, 131, 18171-18178.	1.6	36

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19	Dependence of Absorption and Emission Spectra on Polymorphs of Gold(I) Isocyanide Complexes: Theoretical Study with QM/MM Approach. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4773-4794.	1.5	12
20	Anisotropic strain release in a thermosensitive crystal: correlation between the microscopic orientation of molecular rearrangements and the macroscopic mechanical motion. <i>Chemical Science</i> , 2019, 10, 4185-4191.	3.7	59
21	Luminescent mechanochromism of gold π -heterocyclic carbene complexes with hypso- and bathochromic spectral shifts. <i>Dalton Transactions</i> , 2019, 48, 7105-7109.	1.6	24
22	Thermosensitive Seven-Coordinate Tb(III) Complexes with LLCT Transitions. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2031-2037.	1.0	10
23	Mechanical-Stimulation-Triggered and Solvent-Vapor-Induced Reverse Single-Crystal-to-Single-Crystal Phase Transitions with Alterations of the Luminescence Color. <i>Journal of the American Chemical Society</i> , 2018, 140, 2875-2879.	6.6	134
24	Synthesis and Photophysical Properties of Eu(III) Complexes with Phosphine Oxide Ligands including Metal Ions. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 6-11.	2.0	9
25	Origin of Concentration Quenching in Ytterbium Coordination Polymers: Phonon-Assisted Energy Transfer. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 545-545.	1.0	0
26	A Luminescent Dinuclear Eu ^{III} /Tb ^{III} Complex with LMCT Band as a Single-Molecular Thermosensor. <i>Chemistry - A European Journal</i> , 2018, 24, 1956-1961.	1.7	38
27	A π -diisocyanide benzene-based aryl gold isocyanide complex exhibiting multiple solid-state molecular arrangements and luminescent mechanochromism. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1195-1200.	3.2	27
28	Origin of Concentration Quenching in Ytterbium Coordination Polymers: Phonon-Assisted Energy Transfer. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 561-567.	1.0	10
29	Soft Crystal Force Field for Reproducing the Crystal Structures of Aryl Gold Isocyanide Complexes. <i>Journal of Computer Chemistry Japan</i> , 2018, 17, 155-157.	0.0	2
30	Structural Manipulation of Triboluminescent Lanthanide Coordination Polymers by Side-Group Alteration. <i>Inorganic Chemistry</i> , 2018, 57, 14653-14659.	1.9	22
31	Synthesis and Evaluation of a 1,3a,6a-Triazapentalene (TAP)-Bonded System. <i>Chemistry - A European Journal</i> , 2018, 24, 17727-17733.	1.7	11
32	Light-regulated crystal growth of π -conjugated luminophores in an azobenzene matrix. <i>Communications Chemistry</i> , 2018, 1, .	2.0	16
33	A gold isocyanide complex with a pendant carboxy group: orthogonal molecular arrangements and hypsochromically shifted luminescent mechanochromism. <i>Chemical Communications</i> , 2018, 54, 11136-11139.	2.2	34
34	Spiral Eu(III) coordination polymers with circularly polarized luminescence. <i>Chemical Communications</i> , 2018, 54, 10695-10697.	2.2	47
35	Spin-orbit coupling dependent energy transfer in luminescent nonanuclear Yb-Gd / Yb-Lu clusters. <i>Journal of Luminescence</i> , 2018, 201, 170-175.	1.5	8
36	(Invited) Luminescent Mechanochromic Gold Complex Exhibiting Phase Transition Between Crystalline Phases. <i>ECS Meeting Abstracts</i> , 2018, .	0.0	0

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37	Triboluminescence of Lanthanide Coordination Polymers with Face-to-Face Arranged Substituents. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7171-7175.	7.2	54
38	Low-temperature-selective luminescent mechanochromism of a thienyl gold isocyanide complex. <i>Chemical Communications</i> , 2017, 53, 6700-6703.	2.2	27
39	Luminescent Mechanochromic 9-Anthryl Gold(I) Isocyanide Complex with an Emission Maximum at 900 nm after Mechanical Stimulation. <i>Journal of the American Chemical Society</i> , 2017, 139, 6514-6517.	6.6	139
40	Mechano-Responsive Luminescence via Crystal-to-Crystal Phase Transitions between Chiral and Non-Chiral Space Groups. <i>Journal of the American Chemical Society</i> , 2017, 139, 7452-7455.	6.6	103
41	Triboluminescence of Lanthanide Coordination Polymers with Face-to-Face Arranged Substituents. <i>Angewandte Chemie</i> , 2017, 129, 7277-7281.	1.6	15
42	Effective Photo- and Triboluminescent Europium(III) Coordination Polymers with Rigid Triangular Spacer Ligands. <i>Chemistry - A European Journal</i> , 2017, 23, 2666-2672.	1.7	26
43	Enhanced Luminescence of Asymmetrical Seven-Coordinate Eu ^{III} Complexes Including LMCT Perturbation. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 3843-3848.	1.0	53
44	Tris(trimethylsilyl)silylboronate Esters: Novel Bulky, Air- and Moisture-Stable Silylboronate Ester Reagents for Boryl Substitution and Silaboration Reactions. <i>Organometallics</i> , 2017, 36, 3019-3022.	1.1	25
45	Phosphorescence Control Mediated by Molecular Rotation and Auophilic Interactions in Amphidynamic Crystals of 1,4-Bis(tri- <i>p</i> -fluorophenyl)phosphane-gold(I)-ethynyl]benzene. <i>Journal of the American Chemical Society</i> , 2017, 139, 18115-18121.	6.6	97
46	Tuning the Lifetime of Transient Phases of Mechanochromic Gold Isocyanide Complexes through Functionalization of the Terminal Moieties of Flexible Side Chains. <i>Chemistry Letters</i> , 2017, 46, 1415-1418.	0.7	15
47	Critical Role of Energy Transfer Between Terbium Ions for Suppression of Back Energy Transfer in Nonanuclear Terbium Clusters. <i>Scientific Reports</i> , 2016, 6, 37008.	1.6	37
48	Hyper-stable organo-Eu(III) luminophore under high temperature for photo-industrial application. <i>Scientific Reports</i> , 2016, 6, 24458.	1.6	25
49	A Screening Approach for the Discovery of Mechanochromic Gold(I) Isocyanide Complexes with Crystal-to-Crystal Phase Transitions. <i>Journal of the American Chemical Society</i> , 2016, 138, 6252-6260.	6.6	198
50	Luminescent mechanochromism of a chiral complex: distinct crystal structures and color changes of racemic and homochiral gold(isocyanide) complexes with a binaphthyl moiety. <i>Chemical Communications</i> , 2016, 52, 8083-8086.	2.2	43
51	Luminescent Europium(III) Coordination Zippers Linked with Thiophene-Based Bridges. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12059-12062.	7.2	46
52	Introduction of a Biphenyl Moiety for a Solvent-Responsive Aryl Gold(I) Isocyanide Complex with Mechanical Reactivation. <i>Inorganic Chemistry</i> , 2016, 55, 12309-12320.	1.9	28
53	Direct Introduction of a Dimesitylboryl Group Using Base-Mediated Substitution of Aryl Halides with Silyldimesitylborane. <i>Chemistry - A European Journal</i> , 2016, 22, 17547-17551.	1.7	9
54	Luminescent Europium(III) Coordination Zippers Linked with Thiophene-Based Bridges. <i>Angewandte Chemie</i> , 2016, 128, 12238-12241.	1.6	7

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55	Molecular-Level Understanding of Structural Changes of Organic Crystals Induced by Macroscopic Mechanical Stimulation. <i>Chemistry - A European Journal</i> , 2016, 22, 4322-4329.	1.7	80
56	Detailed Investigation of the Structural, Thermal, and Electronic Properties of Gold Isocyanide Complexes with Mechano-Triggered Single-Crystal-to-Single-Crystal Phase Transitions. <i>Chemistry - A European Journal</i> , 2016, 22, 1968-1978.	1.7	40
57	Mechanochromic Luminescence Based on Crystal-to-Crystal Transformation Mediated by a Transient Amorphous State. <i>Chemistry of Materials</i> , 2016, 28, 234-241.	3.2	128
58	Mechanical path to a photogenerated structure: ball milling-induced phase transition of a gold(<i>scp</i>) complex. <i>CrystEngComm</i> , 2016, 18, 7217-7220.	1.3	10
59	Seven-Coordinate Luminophores: Brilliant Luminescence of Lanthanide Complexes with C_3v Geometrical Structures. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 4769-4774.	1.0	60
60	Photoinduced Crystalline Structure Change and Photosalient Effect through Strengthening Metallophilic Interaction. <i>Nihon Kessho Gakkaishi</i> , 2015, 57, 226-232.	0.0	1
61	Effective Photosensitized Energy Transfer of Nonanuclear Terbium Clusters Using Methyl Salicylate Derivatives. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1943-1947.	1.1	24
62	Interconvertible multiple photoluminescence color of a gold(<i>scp</i>) isocyanide complex in the solid state: solvent-induced blue-shifted and mechano-responsive red-shifted photoluminescence. <i>Chemical Science</i> , 2015, 6, 2187-2195.	3.7	133
63	Photoinduced single-crystal-to-single-crystal phase transition and photosalient effect of a gold(<i>scp</i>) isocyanide complex with shortening of intermolecular aurophilic bonds. <i>Chemical Science</i> , 2015, 6, 1491-1497.	3.7	136
64	Mismatched changes of the photoluminescence and crystalline structure of a mechanochromic gold(<i>scp</i>) isocyanide complex. <i>Chemical Communications</i> , 2015, 51, 13933-13936.	2.2	42
65	Enhanced Electric Dipole Transition in Lanthanide Complex with Organometallic Ruthenocene Units. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4825-4833.	1.1	21
66	Luminescent Coordination Glass: Remarkable Morphological Strategy for Assembled Eu(III) Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 4364-4370.	1.9	42
67	Ultra stable self-assembled monolayers of N-heterocyclic carbenes on gold. <i>Nature Chemistry</i> , 2014, 6, 409-414.	6.6	381
68	A Perylene Bisimide Organogelator for Chlorinated Solvents. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 128-132.	1.3	8
69	Enhancement of Optical Faraday Effect of Nonanuclear Tb(III) Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 7635-7641.	1.9	26
70	Design amphiphilic dipolar π -systems for stimuli-responsive luminescent materials using metastable states. <i>Nature Communications</i> , 2014, 5, 4013.	5.8	324
71	Effect of Ligand Polarization on Asymmetric Structural Formation for Strongly Luminescent Lanthanide Complexes. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5911-5918.	1.0	42
72	Cholesterol-aided construction of distinct self-organized materials from a luminescent gold(<i>i</i>) isocyanide complex exhibiting mechanochromic luminescence. <i>Chemical Communications</i> , 2013, 49, 11391.	2.2	48

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73	Alkylated-C60 based soft materials: regulation of self-assembly and optoelectronic properties by chain branching. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1943.	2.7	61
74	Covalent Modular Approach for Dimensionâ€Controlled Selfâ€Organization of Perylene Bisimide Dyes. <i>Chemistry - A European Journal</i> , 2013, 19, 6561-6565.	1.7	31
75	Mechanical stimulation and solid seeding trigger single-crystal-to-single-crystal molecular domino transformations. <i>Nature Communications</i> , 2013, 4, 2009.	5.8	324
76	Supramolecular Engineering of Perylene Bisimide Assemblies Based on Complementary Multiple Hydrogen Bonding Interactions. <i>Asian Journal of Organic Chemistry</i> , 2013, 2, 708-724.	1.3	63
77	Doping Effect of CBP in Bulk-heterojunction Photovoltaic Devices Composed of P3HT and Soluble Perylene Bisimide. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 578, 88-94.	0.4	4
78	Luminescence Colorâ€Tuning through Polymorph Doping: Preparation of a Whiteâ€Emitting Solid from a Single Gold(I)â€Isocyanide Complex by Simple Precipitation. <i>Chemistry - A European Journal</i> , 2013, 19, 16214-16220.	1.7	33
79	Controlling Mechanoâ€and Seedingâ€Triggered Singleâ€Crystalâ€toâ€Singleâ€Crystal Phase Transition: Molecular Domino with a Disconnection of Auophilic Bonds. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12828-12832.	7.2	167
80	Luminescent Mechanochromism and Spontaneous Phase Transformation of Gold(I) Isocyanide Complexes. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2013, 62, 3-11.	0.1	1
81	Enantioselective catalysis with a chiral, phosphane-containing PMO material. <i>Chemical Communications</i> , 2012, 48, 6369.	2.2	35
82	Perylene bisimide organogels formed by melamineâ€cyanurate/barbiturate hydrogen-bonded tapes. <i>Polymer Journal</i> , 2012, 44, 600-606.	1.3	11
83	Supramolecularly Engineered Perylene Bisimide Assemblies Exhibiting Thermal Transition from Columnar to Multilamellar Structures. <i>Journal of the American Chemical Society</i> , 2012, 134, 7983-7994.	6.6	127
84	Solution processable hydrogen-bonded perylene bisimide assemblies organizing into lamellar architectures. <i>Chemical Communications</i> , 2011, 47, 12447.	2.2	29
85	Multifunctional, Polymorphic, Ionic Fullerene Supramolecular Materials: Self-Assembly and Thermotropic Properties. <i>Langmuir</i> , 2011, 27, 7493-7501.	1.6	27
86	Crossâ€Coupling in the Preparation of Pharmaceutically Relevant Substrates using Palladium Supported on Functionalized Mesoporous Silicas. <i>ChemCatChem</i> , 2011, 3, 1281-1285.	1.8	19
87	Rational Construction of Perylene Bisimide Columnar Superstructures with a Biased Helical Sense. <i>Chemistry - A European Journal</i> , 2011, 17, 3598-3608.	1.7	68
88	Structural and Electronic Properties of Extremely Long Perylene Bisimide Nanofibers Formed through a Stoichiometrically Mismatched, Hydrogenâ€Bonded Complexation. <i>Small</i> , 2010, 6, 2731-2740.	5.2	21
89	Assembly of Fullerene-Carbon Nanotubes: Temperature Indicator for Photothermal Conversion. <i>Journal of the American Chemical Society</i> , 2010, 132, 8566-8568.	6.6	83
90	Unconventional hydrogen-bond-directed hierarchical co-assembly between perylene bisimide and azobenzene-functionalized melamine. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3926.	1.5	33

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91	Transformation from H ⁺ to J ⁺ Aggregated Perylene Bisimide Dyes by Complexation with Cyanurates. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3367-3371.	7.2	285
92	Formation of Supramolecular Polymers and Discrete Dimers of Perylene Bisimide Dyes Based on Melamine ⁺ Cyanurates Hydrogen-Bonding Interactions. <i>Journal of Organic Chemistry</i> , 2008, 73, 3328-3335.	1.7	74
93	Miniaturization of Nanofibers Composed of Melamine-appended Perylene Bisimides and Cyanurates. <i>Chemistry Letters</i> , 2008, 37, 764-765.	0.7	18