

# Tomohiro Seki

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4617981/publications.pdf>

Version: 2024-02-01

93  
papers

4,975  
citations

94433

37  
h-index

95266

68  
g-index

100  
all docs

100  
docs citations

100  
times ranked

5044  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra stable self-assembled monolayers of N-heterocyclic carbenes on gold. <i>Nature Chemistry</i> , 2014, 6, 409-414.	13.6	381
2	Mechanical stimulation and solid seeding trigger single-crystal-to-single-crystal molecular domino transformations. <i>Nature Communications</i> , 2013, 4, 2009.	12.8	324
3	Design amphiphilic dipolar $\pi$ -systems for stimuli-responsive luminescent materials using metastable states. <i>Nature Communications</i> , 2014, 5, 4013.	12.8	324
4	Transformation from H $\pi$ - to J $\pi$ -Aggregated Perylene Bisimide Dyes by Complexation with Cyanurates. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3367-3371.	13.8	285
5	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.	13.7	198
6	Controlling Mechano- and Seeding-Triggered Single-Crystal-to-Single-Crystal Phase Transition: Molecular Domino with a Disconnection of Auophilic Bonds. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12828-12832.	13.8	167
7	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.	13.7	139
8	Photoinduced single-crystal-to-single-crystal phase transition and photosalient effect of a gold( $\pi$ ) isocyanide complex with shortening of intermolecular auophilic bonds. <i>Chemical Science</i> , 2015, 6, 1491-1497.	7.4	136
9	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.	13.7	134
10	Interconvertible multiple photoluminescence color of a gold( $\pi$ ) isocyanide complex in the solid state: solvent-induced blue-shifted and mechano-responsive red-shifted photoluminescence. <i>Chemical Science</i> , 2015, 6, 2187-2195.	7.4	133
11	Mechanochromic Luminescence Based on Crystal-to-Crystal Transformation Mediated by a Transient Amorphous State. <i>Chemistry of Materials</i> , 2016, 28, 234-241.	6.7	128
12	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.	13.7	127
13	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.	13.7	103
14	Phosphorescence Control Mediated by Molecular Rotation and Auophilic Interactions in Amphidynamic Crystals of 1,4-Bis[tri( $\pi$ -fluorophenyl)phosphane-gold(I)-ethynyl]benzene. <i>Journal of the American Chemical Society</i> , 2017, 139, 18115-18121.	13.7	97
15	Assembly of Fullerene-Carbon Nanotubes: Temperature Indicator for Photothermal Conversion. <i>Journal of the American Chemical Society</i> , 2010, 132, 8566-8568.	13.7	83
16	Molecular-Level Understanding of Structural Changes of Organic Crystals Induced by Macroscopic Mechanical Stimulation. <i>Chemistry - A European Journal</i> , 2016, 22, 4322-4329.	3.3	80
17	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.	3.2	74
18	Rational Construction of Perylene Bisimide Columnar Superstructures with a Biased Helical Sense. <i>Chemistry - A European Journal</i> , 2011, 17, 3598-3608.	3.3	68

#	ARTICLE	IF	CITATIONS
19	Supramolecular Engineering of Perylene Bisimide Assemblies Based on Complementary Multiple Hydrogen Bonding Interactions. <i>Asian Journal of Organic Chemistry</i> , 2013, 2, 708-724.	2.7	63
20	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.	5.5	61
21	Seven-coordinate Luminophores: Brilliant Luminescence of Lanthanide Complexes with $C_3v$ Geometrical Structures. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 4769-4774.	2.0	60
22	Anisotropic strain release in a thermosolient crystal: correlation between the microscopic orientation of molecular rearrangements and the macroscopic mechanical motion. <i>Chemical Science</i> , 2019, 10, 4185-4191.	7.4	59
23	Photoluminescent Ferroelastic Molecular Crystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8839-8843.	13.8	57
24	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.	13.8	56
25	Triboluminescence of Lanthanide Coordination Polymers with Face-to-Face Arranged Substituents. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7171-7175.	13.8	54
26	Enhanced Luminescence of Asymmetrical Seven-coordinate $Eu^{III}$ Complexes Including LMCT Perturbation. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 3843-3848.	2.0	53
27	Cholesterol-aided construction of distinct self-organized materials from a luminescent gold(I) isocyanide complex exhibiting mechanochromic luminescence. <i>Chemical Communications</i> , 2013, 49, 11391.	4.1	48
28	Spiral $Eu^{III}$ coordination polymers with circularly polarized luminescence. <i>Chemical Communications</i> , 2018, 54, 10695-10697.	4.1	47
29	Luminescent Europium(III) Coordination Zippers Linked with Thiophene-Based Bridges. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12059-12062.	13.8	46
30	Thermosolience in Macrocyclic-Based Soft Crystals via Anisotropic Deformation of Disilanyl Architecture. <i>Journal of the American Chemical Society</i> , 2020, 142, 12651-12657.	13.7	44
31	Functional flexible molecular crystals: intrinsic and mechanoresponsive properties. <i>CrystEngComm</i> , 2021, 23, 5686-5696.	2.6	44
32	Luminescent mechanochromism of a chiral complex: distinct crystal structures and color changes of racemic and homochiral gold(I) isocyanide complexes with a binaphthyl moiety. <i>Chemical Communications</i> , 2016, 52, 8083-8086.	4.1	43
33	Effect of Ligand Polarization on Asymmetric Structural Formation for Strongly Luminescent Lanthanide Complexes. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5911-5918.	2.0	42
34	Mismatched changes of the photoluminescence and crystalline structure of a mechanochromic gold(I) isocyanide complex. <i>Chemical Communications</i> , 2015, 51, 13933-13936.	4.1	42
35	Luminescent Coordination Glass: Remarkable Morphological Strategy for Assembled $Eu(III)$ Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 4364-4370.	4.0	42
36	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.	3.3	40

#	ARTICLE	IF	CITATIONS
37	A Luminescent Dinuclear Eu <sup>III</sup> /Tb <sup>III</sup> Complex with LMCT Band as a Single-Molecular Thermosensor. <i>Chemistry - A European Journal</i> , 2018, 24, 1956-1961.	3.3	38
38	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.	3.3	37
39	Anisotropic Thermal Expansion as the Source of Macroscopic and Molecular Scale Motion in Phosphorescent Amphidynamic Crystals. <i>Angewandte Chemie</i> , 2019, 131, 18171-18178.	2.0	36
40	Enantioselective catalysis with a chiral, phosphane-containing PMO material. <i>Chemical Communications</i> , 2012, 48, 6369.	4.1	35
41	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.	4.1	34
42	Unconventional hydrogen-bond-directed hierarchical co-assembly between perylene bisimide and azobenzene-functionalized melamine. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3926.	2.8	33
43	Luminescence Color-Tuning through Polymorph Doping: Preparation of a White-Emitting Solid from a Single Gold(I)-Isocyanide Complex by Simple Precipitation. <i>Chemistry - A European Journal</i> , 2013, 19, 16214-16220.	3.3	33
44	Covalent Modular Approach for Dimension-Controlled Self-Organization of Perylene Bisimide Dyes. <i>Chemistry - A European Journal</i> , 2013, 19, 6561-6565.	3.3	31
45	Solution processable hydrogen-bonded perylene bisimide assemblies organizing into lamellar architectures. <i>Chemical Communications</i> , 2011, 47, 12447.	4.1	29
46	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.	4.0	28
47	Hydrogen bond-directed supramolecular polymorphism leading to soft and hard molecular ordering. <i>Chemical Communications</i> , 2020, 56, 4280-4283.	4.1	28
48	Multifunctional, Polymorphic, Ionic Fullerene Supramolecular Materials: Self-Assembly and Thermotropic Properties. <i>Langmuir</i> , 2011, 27, 7493-7501.	3.5	27
49	Low-temperature-selective luminescent mechanochromism of a thienyl gold isocyanide complex. <i>Chemical Communications</i> , 2017, 53, 6700-6703.	4.1	27
50	A <i>meta</i> -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.	5.9	27
51	Enhancement of Optical Faraday Effect of Nonanuclear Tb(III) Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 7635-7641.	4.0	26
52	Effective Photo- and Triboluminescent Europium(III) Coordination Polymers with Rigid Triangular Spacer Ligands. <i>Chemistry - A European Journal</i> , 2017, 23, 2666-2672.	3.3	26
53	Hyper-stable organo-Eu(III) luminophore under high temperature for photo-industrial application. <i>Scientific Reports</i> , 2016, 6, 24458.	3.3	25
54	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.	2.3	25

#	ARTICLE	IF	CITATIONS
55	(9-Isocyanoanthracene)gold(I) Complexes Exhibiting Two Modes of Crystal Jumps by Different Structure Change Mechanisms. <i>Inorganic Chemistry</i> , 2021, 60, 10849-10856.	4.0	25
56	Effective Photosensitized Energy Transfer of Nonanuclear Terbium Clusters Using Methyl Salicylate Derivatives. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1943-1947.	2.5	24
57	Luminescent mechanochromism of gold $\pi$ -heterocyclic carbene complexes with hypso- and bathochromic spectral shifts. <i>Dalton Transactions</i> , 2019, 48, 7105-7109.	3.3	24
58	Structural Manipulation of Triboluminescent Lanthanide Coordination Polymers by Side-Group Alteration. <i>Inorganic Chemistry</i> , 2018, 57, 14653-14659.	4.0	22
59	Structural and Electronic Properties of Extremely Long Perylene Bisimide Nanofibers Formed through a Stoichiometrically Mismatched, Hydrogen-Bonded Complexation. <i>Small</i> , 2010, 6, 2731-2740.	10.0	21
60	Enhanced Electric Dipole Transition in Lanthanide Complex with Organometallic Ruthenocene Units. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4825-4833.	2.5	21
61	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.	3.3	20
62	Cross-Coupling in the Preparation of Pharmaceutically Relevant Substrates using Palladium Supported on Functionalized Mesoporous Silicas. <i>ChemCatChem</i> , 2011, 3, 1281-1285.	3.7	19
63	Auophilicity-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.	3.3	19
64	Stacked nanocarbon photosensitizer for efficient blue light excited Eu(III) emission. <i>Communications Chemistry</i> , 2020, 3, .	4.5	19
65	Miniaturization of Nanofibers Composed of Melamine-appended Perylene Bisimides and Cyanurates. <i>Chemistry Letters</i> , 2008, 37, 764-765.	1.3	18
66	Light-regulated crystal growth of $\pi$ -conjugated luminophores in an azobenzene matrix. <i>Communications Chemistry</i> , 2018, 1, .	4.5	16
67	Photoluminescent Ferroelastic Molecular Crystals. <i>Angewandte Chemie</i> , 2020, 132, 8924-8928.	2.0	16
68	Triboluminescence of Lanthanide Coordination Polymers with Face-to-Face Arranged Substituents. <i>Angewandte Chemie</i> , 2017, 129, 7277-7281.	2.0	15
69	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.	1.3	15
70	Synthesis and Tunable Optical Properties of C,N-Chelated Borate Luminophores Derived from Potassium Acyltrifluoroborates. <i>Chemistry - A European Journal</i> , 2020, 26, 2450-2455.	3.3	14
71	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.	3.1	12
72	Perylene bisimide organogels formed by melamine-cyanurate/barbiturate hydrogen-bonded tapes. <i>Polymer Journal</i> , 2012, 44, 600-606.	2.7	11

#	ARTICLE	IF	CITATIONS
73	Synthesis and Evaluation of a 1,3a,6a-triazapentalene (TAP)-Bonded System. <i>Chemistry - A European Journal</i> , 2018, 24, 17727-17733.	3.3	11
74	Mechanical path to a photogenerated structure: ball milling-induced phase transition of a gold( $\text{SCp}$ ) complex. <i>CrystEngComm</i> , 2016, 18, 7217-7220.	2.6	10
75	Thermosensitive Seven-Coordinate Tb(III) Complexes with LLCT Transitions. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2031-2037.	2.0	10
76	Origin of Concentration Quenching in Ytterbium Coordination Polymers: Phonon-Assisted Energy Transfer. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 561-567.	2.0	10
77	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.	1.3	10
78	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.	3.3	10
79	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.	3.3	9
80	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.	3.2	9
81	Direct Dimesitylborylation of Benzofuran Derivatives by an Iridium-Catalyzed C-H Activation with Silyldimesitylborane. <i>Chemistry - A European Journal</i> , 2019, 25, 12924-12928.	3.3	9
82	A Perylene Bisimide Organogelator for Chlorinated Solvents. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 128-132.	2.7	8
83	Spin-orbit coupling dependent energy transfer in luminescent nonanuclear Yb-Gd / Yb-Lu clusters. <i>Journal of Luminescence</i> , 2018, 201, 170-175.	3.1	8
84	Luminescent Europium(III) Coordination Zippers Linked with Thiophene-Based Bridges. <i>Angewandte Chemie</i> , 2016, 128, 12238-12241.	2.0	7
85	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.	0.9	4
86	Synthesis and Optical Properties of C <sub>N</sub> -Swapped Boranils Derived from Potassium Acyltrifluoroborates. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 1547-1552.	3.2	4
87	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.	0.1	2
88	Photoinduced Crystalline Structure Change and Photosalient Effect through Strengthening Metalphilic Interaction. <i>Nihon Kessho Gakkaishi</i> , 2015, 57, 226-232.	0.0	1
89	Luminescent Mechanochromism and Spontaneous Phase Transformation of Gold(I) Isocyanide Complexes. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2013, 62, 3-11.	0.2	1
90	Origin of Concentration Quenching in Ytterbium Coordination Polymers: Phonon-Assisted Energy Transfer. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 545-545.	2.0	0

#	ARTICLE	IF	CITATIONS
91	Frontispiece: Near-IR Luminescent Yb <sup>III</sup> Coordination Polymers Composed of Pyrene Derivatives for Thermostable Oxygen Sensors. Chemistry - A European Journal, 2019, 25, .	3.3	0
92	Mechanically Deformable Molecular Crystals Based on Molecular Arrangement Changes. Nihon Kessho Gakkaishi, 2021, 63, 175-176.	0.0	0
93	(Invited) Luminescent Mechanochromic Gold Complex Exhibiting Phase Transition Between Crystalline Phases. ECS Meeting Abstracts, 2018, , .	0.0	0