

# Tomohiro Seki

## List of Publications by Year in descending order

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93  
papers

4,975  
citations

94381

37  
h-index

95218

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.                                                                                                                                     | 6.6 | 381       |
| 2  | Mechanical stimulation and solid seeding trigger single-crystal-to-single-crystal molecular domino transformations. <i>Nature Communications</i> , 2013, 4, 2009.                                                                                          | 5.8 | 324       |
| 3  | Design amphiphilic dipolar $\pi$ -systems for stimuli-responsive luminescent materials using metastable states. <i>Nature Communications</i> , 2014, 5, 4013.                                                                                              | 5.8 | 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.                                                                       | 7.2 | 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.                                                   | 6.6 | 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.                          | 7.2 | 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.                                                   | 6.6 | 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.                              | 3.7 | 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.                  | 6.6 | 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.               | 3.7 | 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.                                                                                         | 3.2 | 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.                                                  | 6.6 | 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.                                                               | 6.6 | 103       |
| 14 | Phosphorescence Control Mediated by Molecular Rotation and Auophilic Interactions in Amphidynamic Crystals of 1,4-Bis[tri-( $p$ -fluorophenyl)phosphane-gold(I)-ethynyl]benzene. <i>Journal of the American Chemical Society</i> , 2017, 139, 18115-18121. | 6.6 | 97        |
| 15 | 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        |
| 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.                                                                        | 1.7 | 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.                                                  | 1.7 | 74        |
| 18 | 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        |

| #  | 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.                                                           | 1.3 | 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.                                                                        | 2.7 | 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.                                                         | 1.0 | 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.                          | 3.7 | 59        |
| 23 | Photoluminescent Ferroelastic Molecular Crystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8839-8843.                                                                                                                         | 7.2 | 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.                                          | 7.2 | 56        |
| 25 | Triboluminescence of Lanthanide Coordination Polymers with Face-to-Face Arranged Substituents. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7171-7175.                                                                            | 7.2 | 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.                                                                  | 1.0 | 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.                                       | 2.2 | 48        |
| 28 | Spiral $Eu^{III}$ coordination polymers with circularly polarized luminescence. <i>Chemical Communications</i> , 2018, 54, 10695-10697.                                                                                                           | 2.2 | 47        |
| 29 | Luminescent Europium(III) Coordination Zippers Linked with Thiophene-Based Bridges. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12059-12062.                                                                                     | 7.2 | 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.                                                                | 6.6 | 44        |
| 31 | Functional flexible molecular crystals: intrinsic and mechanoresponsive properties. <i>CrystEngComm</i> , 2021, 23, 5686-5696.                                                                                                                    | 1.3 | 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.             | 2.2 | 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.                                                           | 1.0 | 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.                                                                     | 2.2 | 42        |
| 35 | Luminescent Coordination Glass: Remarkable Morphological Strategy for Assembled $Eu(III)$ Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 4364-4370.                                                                                            | 1.9 | 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. | 1.7 | 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.                                       | 1.7 | 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.                                                 | 1.6 | 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.                                          | 1.6 | 36        |
| 40 | Enantioselective catalysis with a chiral, phosphane-containing PMO material. <i>Chemical Communications</i> , 2012, 48, 6369.                                                                                              | 2.2 | 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.                | 2.2 | 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.                                | 1.5 | 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. | 1.7 | 33        |
| 44 | Covalent Modular Approach for Dimension-Controlled Self-Organization of Perylene Bisimide Dyes. <i>Chemistry - A European Journal</i> , 2013, 19, 6561-6565.                                                               | 1.7 | 31        |
| 45 | Solution processable hydrogen-bonded perylene bisimide assemblies organizing into lamellar architectures. <i>Chemical Communications</i> , 2011, 47, 12447.                                                                | 2.2 | 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.                                               | 1.9 | 28        |
| 47 | Hydrogen bond-directed supramolecular polymorphism leading to soft and hard molecular ordering. <i>Chemical Communications</i> , 2020, 56, 4280-4283.                                                                      | 2.2 | 28        |
| 48 | Multifunctional, Polymorphic, Ionic Fullerene Supramolecular Materials: Self-Assembly and Thermotropic Properties. <i>Langmuir</i> , 2011, 27, 7493-7501.                                                                  | 1.6 | 27        |
| 49 | Low-temperature-selective luminescent mechanochromism of a thienyl gold isocyanide complex. <i>Chemical Communications</i> , 2017, 53, 6700-6703.                                                                          | 2.2 | 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.  | 3.2 | 27        |
| 51 | Enhancement of Optical Faraday Effect of Nonanuclear Tb(III) Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 7635-7641.                                                                                                  | 1.9 | 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.                                               | 1.7 | 26        |
| 53 | Hyper-stable organo-Eu(III) luminophore under high temperature for photo-industrial application. <i>Scientific Reports</i> , 2016, 6, 24458.                                                                               | 1.6 | 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.              | 1.1 | 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.                                     | 1.9 | 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.                                   | 1.1 | 24        |
| 57 | Luminescent mechanochromism of gold $\pi$ -heterocyclic carbene complexes with hypso- and bathochromic spectral shifts. <i>Dalton Transactions</i> , 2019, 48, 7105-7109.                                       | 1.6 | 24        |
| 58 | Structural Manipulation of Triboluminescent Lanthanide Coordination Polymers by Side-Group Alteration. <i>Inorganic Chemistry</i> , 2018, 57, 14653-14659.                                                      | 1.9 | 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.            | 5.2 | 21        |
| 60 | 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        |
| 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.                                 | 1.7 | 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.                              | 1.8 | 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.                             | 1.7 | 19        |
| 64 | Stacked nanocarbon photosensitizer for efficient blue light excited Eu(III) emission. <i>Communications Chemistry</i> , 2020, 3, .                                                                              | 2.0 | 19        |
| 65 | Miniaturization of Nanofibers Composed of Melamine-appended Perylene Bisimides and Cyanurates. <i>Chemistry Letters</i> , 2008, 37, 764-765.                                                                    | 0.7 | 18        |
| 66 | Light-regulated crystal growth of $\pi$ -conjugated luminophores in an azobenzene matrix. <i>Communications Chemistry</i> , 2018, 1, .                                                                          | 2.0 | 16        |
| 67 | Photoluminescent Ferroelastic Molecular Crystals. <i>Angewandte Chemie</i> , 2020, 132, 8924-8928.                                                                                                              | 1.6 | 16        |
| 68 | Triboluminescence of Lanthanide Coordination Polymers with Face-to-Face Arranged Substituents. <i>Angewandte Chemie</i> , 2017, 129, 7277-7281.                                                                 | 1.6 | 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. | 0.7 | 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.                          | 1.7 | 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.              | 1.5 | 12        |
| 72 | Perylene bisimide organogels formed by melamine-cyanurate/barbiturate hydrogen-bonded tapes. <i>Polymer Journal</i> , 2012, 44, 600-606.                                                                        | 1.3 | 11        |

| #  | ARTICLE                                                                                                                                                                                                                            | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Synthesis and Evaluation of a 1,3a,6a-triazapentalene (TAP)-Bonded System. Chemistry - A European Journal, 2018, 24, 17727-17733.                                                                                                  | 1.7 | 11        |
| 74 | Mechanical path to a photogenerated structure: ball milling-induced phase transition of a gold( $\text{Au}^{\text{I}}$ ) complex. CrystEngComm, 2016, 18, 7217-7220.                                                               | 1.3 | 10        |
| 75 | Thermosensitive Seven-Coordinate Tb(III) Complexes with LLCT Transitions. European Journal of Inorganic Chemistry, 2018, 2018, 2031-2037.                                                                                          | 1.0 | 10        |
| 76 | Origin of Concentration Quenching in Ytterbium Coordination Polymers: Phonon-Assisted Energy Transfer. European Journal of Inorganic Chemistry, 2018, 2018, 561-567.                                                               | 1.0 | 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. Chemistry Letters, 2020, 49, 174-177. | 0.7 | 10        |
| 78 | Mixed crystal formation of two gold isocyanide complexes with various ratios for continuous tuning of photophysical properties. Dalton Transactions, 2020, 49, 2073-2076.                                                          | 1.6 | 10        |
| 79 | Direct Introduction of a Dimesitylboryl Group Using Base-Mediated Substitution of Aryl Halides with Silyldimesitylborane. Chemistry - A European Journal, 2016, 22, 17547-17551.                                                   | 1.7 | 9         |
| 80 | Synthesis and Photophysical Properties of Eu(III) Complexes with Phosphine Oxide Ligands including Metal Ions. Bulletin of the Chemical Society of Japan, 2018, 91, 6-11.                                                          | 2.0 | 9         |
| 81 | Direct Dimesitylborylation of Benzofuran Derivatives by an Iridium-Catalyzed C-H Activation with Silyldimesitylborane. Chemistry - A European Journal, 2019, 25, 12924-12928.                                                      | 1.7 | 9         |
| 82 | A Perylene Bisimide Organogelator for Chlorinated Solvents. Asian Journal of Organic Chemistry, 2014, 3, 128-132.                                                                                                                  | 1.3 | 8         |
| 83 | Spin-orbit coupling dependent energy transfer in luminescent nonanuclear Yb-Gd / Yb-Lu clusters. Journal of Luminescence, 2018, 201, 170-175.                                                                                      | 1.5 | 8         |
| 84 | Luminescent Europium(III) Coordination Zippers Linked with Thiophene-Based Bridges. Angewandte Chemie, 2016, 128, 12238-12241.                                                                                                     | 1.6 | 7         |
| 85 | Doping Effect of CBP in Bulk-heterojunction Photovoltaic Devices Composed of P3HT and Soluble Perylene Bisimide. Molecular Crystals and Liquid Crystals, 2013, 578, 88-94.                                                         | 0.4 | 4         |
| 86 | Synthesis and Optical Properties of C <sub>60</sub> /N <sub>60</sub> -Swapped Boranils Derived from Potassium Acyltrifluoroborates. Bulletin of the Chemical Society of Japan, 2021, 94, 1547-1552.                                | 2.0 | 4         |
| 87 | Soft Crystal Force Field for Reproducing the Crystal Structures of Aryl Gold Isocyanide Complexes. Journal of Computer Chemistry Japan, 2018, 17, 155-157.                                                                         | 0.0 | 2         |
| 88 | Photoinduced Crystalline Structure Change and Photosalient Effect through Strengthening Metalphilic Interaction. Nihon Kessho Gakkaishi, 2015, 57, 226-232.                                                                        | 0.0 | 1         |
| 89 | Luminescent Mechanochromism and Spontaneous Phase Transformation of Gold(I) Isocyanide Complexes. Bulletin of Japan Society of Coordination Chemistry, 2013, 62, 3-11.                                                             | 0.1 | 1         |
| 90 | Origin of Concentration Quenching in Ytterbium Coordination Polymers: Phonon-Assisted Energy Transfer. European Journal of Inorganic Chemistry, 2018, 2018, 545-545.                                                               | 1.0 | 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, . | 1.7 | 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         |