# Youichi Tsuchiya

List of Publications by Year
in descending order



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|---|---|---|---|
| 83 papers | 3,298 citations | 159525 30 h-index | 155592 55 g-index |
| 90 all docs | 90 docs citations | 90 times ranked | 3364 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Managing Intersegmental Chargeâ€Transfer and Multiple Resonance Alignments of D<sub>3</sub>â€A Typed TADF Emitters for Red OLEDs with Improved Efficiency and Color Purity. Advanced Optical Materials, 2022, 10, 2101789. | 3.6 | 41 |
| 2 | Carbazole-2-carbonitrile as an acceptor in deep-blue thermally activated delayed fluorescence emitters for narrowing charge-transfer emissions. Chemical Science, 2022, 13, 7821-7828. | 3.7 | 8 |
| 3 | Enhancing spin-orbital coupling in deep-blue/blue TADF emitters by minimizing the distance from the heteroatoms in donors to acceptors. Chemical Engineering Journal, 2021, 420, 127591. | 6.6 | 47 |
| 4 | Isotope Effect of Host Material on Device Stability of Thermally Activated Delayed Fluorescence Organic Lightâ€Emitting Diodes. Small Science, 2021, 1, 2000057. | 5.8 | 22 |
| 5 | Highly Efficient Nearâ€Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. Angewandte Chemie - International Edition, 2021, 60, 8477-8482. | 7.2 | 130 |
| 6 | Investigating HOMO Energy Levels of Terminal Emitters for Realizing Highâ€Brightness and Stable TADFâ€Assisted Fluorescence Organic Lightâ€Emitting Diodes. Advanced Electronic Materials, 2021, 7, 2001090. | 2.6 | 55 |
| 7 | Thermally Activated Delayed Fluorescence Properties of Trioxoazatriangulene Derivatives Modified with Electron Donating Groups. Advanced Optical Materials, 2021, 9, 2002174. | 3.6 | 35 |
| 8 | Planar and Rigid Pyrazineâ€Based TADF Emitter for Deep Blue Bright Organic Lightâ€Emitting Diodes. European Journal of Organic Chemistry, 2021, 2021, 2285-2293. | 1.2 | 17 |
| 9 | Highly Efficient Nearâ€Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. Angewandte Chemie, 2021, 133, 8558-8563. | 1.6 | 23 |
| 10 | Advances in Thermally Activated Delayed Fluorescent Materials and the Cutting Edge of High Performance OLEDs. Journal of the Institute of Electrical Engineers of Japan, 2021, 141, 269-276. | 0.0 | 0 |
| 11 | Thermally-activated Delayed Fluorescence for Light-emitting Devices. Chemistry Letters, 2021, 50, 938-948. | 0.7 | 103 |
| 12 | Tetrabenzo[a,c]phenazine Backbone for Highly Efficient Orangeâ€“Red Thermally Activated Delayed Fluorescence with Completely Horizontal Molecular Orientation. Angewandte Chemie, 2021, 133, 19513-19522. | 1.6 | 4 |
| 13 | Tetrabenzo[a,c]phenazine Backbone for Highly Efficient Orangeâ€“Red Thermally Activated Delayed Fluorescence with Completely Horizontal Molecular Orientation. Angewandte Chemie - International Edition, 2021, 60, 19364-19373. | 7.2 | 67 |
| 14 | Innentitelbild: An Elementâ€Substituted Cyclobutadiene Exhibiting Highâ€Energy Blue Phosphorescence (Angew. Chem. 40/2021). Angewandte Chemie, 2021, 133, 21766-21766. | 1.6 | 0 |
| 15 | An Elementâ€Substituted Cyclobutadiene Exhibiting Highâ€Energy Blue Phosphorescence. Angewandte Chemie, 2021, 133, 21988-21994. | 1.6 | 8 |
| 16 | An Elementâ€Substituted Cyclobutadiene Exhibiting Highâ€Energy Blue Phosphorescence. Angewandte Chemie - International Edition, 2021, 60, 21817-21823. | 7.2 | 15 |
| 17 | Visualization of Frontier Molecular Orbital Separation of a Single Thermally Activated Delayed Fluorescence Emitter by STM. Journal of Physical Chemistry Letters, 2021, 12, 7512-7518. | 2.1 | 9 |
| 18 | Exact Solution of Kinetic Analysis for Thermally Activated Delayed Fluorescence Materials. Journal of Physical Chemistry A, 2021, 125, 8074-8089. | 1.1 | 47 |

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|---|---|---|---|
| 19 | Characterizing the Conformational Distribution in an Amorphous Film of an Organic Emitter and Its Application in a â€œSelfâ€Dopingâ€•Organic Lightâ€Emitting Diode. Angewandte Chemie, 2021, 133, 26082-26087. | 1.6 | 8 |
| 20 | 2,6â€Dicarbonitrile Diphenylâ€1Î»<sup>5</sup>â€Phosphinine (DCNP)â€”A Robust Conjugated Building Block for Multiâ€Functional Dyes Exhibiting Tunable Amplified Spontaneous Emission. Advanced Optical Materials, 2021, 9, 2101122. | 3.6 | 11 |
| 21 | Characterizing the Conformational Distribution in an Amorphous Film of an Organic Emitter and Its Application in a â€œSelfâ€Dopingâ€•Organic Lightâ€Emitting Diode. Angewandte Chemie - International Edition, 2021, 60, 25878-25883. | 7.2 | 35 |
| 22 | Partial Modification of Electron-withdrawing Groups in Thermally-activated Delayed Fluorescence Materials Aimed to Improve Efficiency and Stability. Chemistry Letters, 2020, 49, 1189-1193. | 0.7 | 0 |
| 23 | Utilization of Multi-Heterodonors in Thermally Activated Delayed Fluorescence Molecules and Their High Performance Bluish-Green Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2020, 12, 9498-9506. | 4.0 | 18 |
| 24 | Solution-Processed Dendrimer-Based TADF Materials for Deep-Red OLEDs. Macromolecules, 2020, 53, 10375-10385. | 2.2 | 25 |
| 25 | Intramolecular-rotation driven triplet-to-singlet upconversion and fluctuation induced fluorescence activation in linearly connected donorâ€“acceptor molecules. Journal of Chemical Physics, 2020, 153, 204702. | 1.2 | 15 |
| 26 | Hydrogen bond-modulated molecular packing and its applications in high-performance non-doped organic electroluminescence. Materials Horizons, 2020, 7, 2734-2740. | 6.4 | 51 |
| 27 | Sub-Microsecond TADF Emission in D-Dâ€²-A Emitters. Chemistry Letters, 2020, 49, 932-935. | 0.7 | 8 |
| 28 | Molecular Design Based on Donor-Weak Donor Scaffold for Blue Thermally-Activated Delayed Fluorescence Designed by Combinatorial DFT Calculations. Frontiers in Chemistry, 2020, 8, 403. | 1.8 | 18 |
| 29 | Nanosecond-time-scale delayed fluorescence molecule for deep-blue OLEDs with small efficiency rolloff. Nature Communications, 2020, 11, 1765. | 5.8 | 287 |
| 30 | Enhanced near-infrared electroluminescence from a neodymium complex in organic light-emitting diodes with a solution-processed exciplex host. Applied Physics Letters, 2019, 114, . | 1.5 | 13 |
| 31 | Turn on of sky-blue thermally activated delayed fluorescence and circularly polarized luminescence (CPL) via increased torsion by a bulky carbazolophane donor. Chemical Science, 2019, 10, 6689-6696. | 3.7 | 135 |
| 32 | Intramolecular Noncovalent Interactions Facilitate Thermally Activated Delayed Fluorescence (TADF). Journal of Physical Chemistry Letters, 2019, 10, 3260-3268. | 2.1 | 68 |
| 33 | Photostable and highly emissive glassy organic dots exhibiting thermally activated delayed fluorescence. Chemical Communications, 2019, 55, 5215-5218. | 2.2 | 17 |
| 34 | Thermally activated delayed fluorescence with 7% external quantum efficiency from a light-emitting electrochemical cell. Nature Communications, 2019, 10, 5307. | 5.8 | 55 |
| 35 | High-efficiency electroluminescence and amplified spontaneous emission from a thermally activated delayed fluorescent near-infrared emitter. Nature Photonics, 2018, 12, 98-104. | 15.6 | 421 |
| 36 | Near-Infrared Electroluminescence and Low Threshold Amplified Spontaneous Emission above 800 nm from a Thermally Activated Delayed Fluorescent Emitter. Chemistry of Materials, 2018, 30, 6702-6710. | 3.2 | 119 |

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| 37 | Trifluoromethane modification of thermally activated delayed fluorescence molecules for high-efficiency blue organic light-emitting diodes. Chemical Communications, 2018, 54, 8261-8264. | 2.2 | 44 |
| 38 | Optoelectronic devices of highly efficient luminogens in the solid state: general discussion. Faraday Discussions, 2017, 196, 455-460. | 1.6 | 0 |
| 39 | Near infrared electroluminescence from Nd(TTA) 3 phen in solution-processed small molecule organic light-emitting diodes. Organic Electronics, 2017, 44, 50-58. | 1.4 | 33 |
| 40 | Advanced functional luminogens in the solid-state: general discussion. Faraday Discussions, 2017, 196, 317-334. | 1.6 | 0 |
| 41 | New and efficient fluorescent and phosphorescent luminogens: general discussion. Faraday Discussions, 2017, 196, 191-218. | 1.6 | 0 |
| 42 | Highlights from Faraday Discussion: aggregation-induced emission. Chemical Communications, 2017, 53, 3158-3164. | 2.2 | 7 |
| 43 | Biomedical applications of luminogens: general discussion. Faraday Discussions, 2017, 196, 403-414. | 1.6 | 0 |
| 44 | A New Design Strategy for Efficient Thermally Activated Delayed Fluorescence Organic Emitters: From Twisted to Planar Structures. Advanced Materials, 2017, 29, 1702767. | 11.1 | 215 |
| 45 | Centrifugal-Coated Quasi-Two-Dimensional Perovskite CsPb<sub>2</sub>Br<sub>5</sub> Films for Efficient and Stable Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2017, 8, 5415-5421. | 2.1 | 71 |
| 46 | Tunable OLEDs: Color Tuning of Avobenzone Boron Difluoride as an Emitter to Achieve Fullâ€Color Emission (Adv. Funct. Mater. 37/2016). Advanced Functional Materials, 2016, 26, 6847-6847. | 7.8 | 0 |
| 47 | Color Tuning of Avobenzone Boron Difluoride as an Emitter to Achieve Fullâ€Color Emission. Advanced Functional Materials, 2016, 26, 6703-6710. | 7.8 | 81 |
| 48 | Conformation Control of a Conjugated Polymer through Complexation with Bile Acids Generates Its Novel Spectral and Morphological Properties. Langmuir, 2016, 32, 12403-12412. | 1.6 | 0 |
| 49 | One-pot Optical Sensing of Keto Acids through the Combination of the Oxime-click Reaction and Aggregation-induced Emission (AIE). Chemistry Letters, 2015, 44, 812-814. | 0.7 | 6 |
| 50 | Molecular recognition directed supramolecular control over perylene-bisimide aggregation resulting in aggregation induced enhanced emission (AIEE) and induced chiral amplification. Journal of Materials Chemistry C, 2015, 3, 2310-2318. | 2.7 | 20 |
| 51 | Tailoring of the desired selectivity and the turn-on detection range in a self-assembly-based fluorescence sensory system. Chemical Science, 2015, 6, 3863-3867. | 3.7 | 26 |
| 52 | Creation of Circularly Polarized Luminescence from an Achiral Polyfluorene Derivative through Complexation with Helixâ€Forming Polysaccharides: Importance of the metaâ€Linkage Chain for Helix Formation. Chemistry - an Asian Journal, 2014, 9, 218-222. | 1.7 | 71 |
| 53 | Translation of Dicarboxylate Structural Information to Fluorometric Optical Signals through Selfâ€Assembly of Guanidiniumâ€Tethered Oligophenylenevinylene. Chemistry - A European Journal, 2014, 20, 13938-13944. | 1.7 | 24 |
| 54 | Nucleotide sensing with a perylene-based molecular receptor via amplified fluorescence quenching. Organic and Biomolecular Chemistry, 2014, 12, 561-565. | 1.5 | 24 |

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| 55 | Cyclizationâ€Induced Turnâ€On Fluorescence System Applicable to Dicarboxylate Sensing. Chemistry - A European Journal, 2014, 20, 381-384. | 1.7 | 56 |
| 56 | Selective Detection of NADPH among Four Pyridineâ€Nucleotide Cofactors by a Fluorescent Probe Based on Aggregationâ€Induced Emission. Macromolecular Rapid Communications, 2013, 34, 779-784. | 2.0 | 31 |
| 57 | Dye-sensitised preparation of chiral plasmonic Ag nanoparticles on helical polysaccharides. Supramolecular Chemistry, 2013, 25, 748-755. | 1.5 | 3 |
| 58 | Cyclodextrinâ€Assisted Synthesis of a Metallosupramolecular Terbium(III) Polymer and Its Fluorescence Properties and Chiral Recognition. Chemistry - A European Journal, 2013, 19, 15485-15488. | 1.7 | 11 |
| 59 | Stereochemistry-Dependent, Mechanoresponsive Supramolecular Host Assemblies for Fullerenes: A Guest-Induced Enhancement of Thixotropy. Journal of the American Chemical Society, 2012, 134, 2161-2171. | 6.6 | 87 |
| 60 | Nonlinear fluorescence response driven by ATP-induced self-assembly of guanidinium-tethered tetraphenylethene. Chemical Communications, 2012, 48, 8090. | 2.2 | 90 |
| 61 | Unexpected chiral induction from achiral cationic polythiophene aggregates and its application to the sugar pattern recognition. Chemical Communications, 2012, 48, 7091. | 2.2 | 21 |
| 62 | Supramolecular Dye Inclusion Single Crystals Created from 2,3,6â€Trimethylâ€Î²â€cyclodextrin and Porphyrins. Chemistry - A European Journal, 2012, 18, 456-465. | 1.7 | 32 |
| 63 | Creation of Chiral Thixotropic Gels through a Crownâ€“Ammonium Interaction and their Application to a Memoryâ€Erasing Recycle System. Chemistry - A European Journal, 2012, 18, 2832-2838. | 1.7 | 56 |
| 64 | Fine Wettability Control Created by a Photochemical Combination Method for Inkjet Printing on Selfâ€Assembled Monolayers. Advanced Materials, 2012, 24, 968-972. | 11.1 | 14 |
| 65 | Heat and light dual switching of a single-walled carbon nanotube/thermo-responsive helical polysaccharide complex: a new responsive system applicable to photodynamic therapy. Chemical Communications, 2011, 47, 7065. | 2.2 | 27 |
| 66 | Facile fabrication of CD-active 1-D polypyrrole by the templating effect of a helix-forming anionic polysaccharide. Supramolecular Chemistry, 2011, 23, 239-243. | 1.5 | 2 |
| 67 | A pH-responsive carboxylic Î²-1,3-glucan polysaccharide for complexation with polymeric guests. Organic and Biomolecular Chemistry, 2011, 9, 4266. | 1.5 | 26 |
| 68 | Single-crystal Structure of Porphyrin Bicapped with Trimethyl-Î²-cyclodextrins: A Novel Dye-oriented Material. Chemistry Letters, 2011, 40, 99-101. | 0.7 | 19 |
| 69 | Ratiometric Fluorescent Sensor for 2,4,6-Trinitrotoluene Designed Based on Energy Transfer between Size-different Quantum Dots. Chemistry Letters, 2010, 39, 156-158. | 0.7 | 15 |
| 70 | A Polysaccharideâ€Based Container Transportation System Powered by Molecular Motors. Angewandte Chemie - International Edition, 2010, 49, 724-727. | 7.2 | 13 |
| 71 | Thermo- and Solvent-Responsive Polymer Complex Created from Supramolecular Complexation between a Helix-Forming Polysaccharide and a Cationic Polythiophene. Journal of the American Chemical Society, 2010, 132, 13928-13935. | 6.6 | 83 |
| 72 | On the Helical Motif of the Complexes Created by Association of Helixâ€Forming Schizophyllan (SPG) and Helixâ€Forming Polythiophene Derivatives. Chemistry - A European Journal, 2009, 15, 11221-11228. | 1.7 | 17 |

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| 73 | Quantum Dots Arrangement and Energy Transfer Control via Chargeâ€Transfer Complex Achieved on Poly(Phenylene Ethynylene)/Schizophyllan Nanowires. Chemistry - an Asian Journal, 2009, 4, 1434-1441. | 1.7 | 10 |
| 74 | Control of polythiophene redox potentials based on supramolecular complexation with helical schizophyllan. Chemical Communications, 2009, , 6086. | 2.2 | 21 |
| 75 | Alignment of Polysaccharideâ€“SWNT Composites by Metalâ€“Ligand Interactions. Chemistry Letters, 2009, 38, 812-813. | 0.7 | 5 |
| 76 | Photocurrent Generators Derived from Non-Covalently Assembled Cyclodextrin Nano-System. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 533-538. | 0.1 | 1 |
| 77 | 13C NMR Longitudinal Relaxation Time Studies of a Molecular Tweezers Derived from a Calixarene-Porphyrin Conjugate. Journal of Oleo Science, 2007, 56, 155-158. | 0.6 | 3 |
| 78 | Carbon-13 NMR Longitudinal Relaxation Time Study of an Ionophoric 1,3-Alternate-Shaped Calix[4]arene Ester. Journal of Oleo Science, 2006, 55, 75-78. | 0.6 | 1 |
| 79 | Photocurrent Generators Derived from Non-covalently Assembled Porphyrin Conjugate Nano-system. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2006, 19, 409-411. | 0.1 | 2 |
| 80 | Sodium-23 NMR Studies of Sodium Ion Ensembles with a 1,3-Alternate-Shaped Calix[4]arene. Journal of Oleo Science, 2006, 55, 71-74. | 0.6 | 1 |
| 81 | Photocurrent-Boosting by Intramembrane Electron Mediation between Titania Nanoparticles Dispersed into Nafionâ˜Porphyrin Composites. Chemistry of Materials, 2005, 17, 4018-4022. | 3.2 | 11 |
| 82 | A photocurrent-generator utilising a polyelectrolyte as a matrix of dyes. Journal of Materials Chemistry, 2004, 14, 1128. | 6.7 | 9 |
| 83 | Improvement of Quantum Yields for Photoinduced Energy/Electron Transfer by Isolation of Self-Aggregative Zinc Tetraphenyl Porphyrin-Pendant Polymer Using Cyclodextrin Inclusion in Aqueous Solution. Journal of Physical Chemistry B, 2003, 107, 11261-11266. | 1.2 | 66 |