

# Youichi Tsuchiya

## List of Publications by Year in descending order

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83  
papers

3,298  
citations

159585

30  
h-index

155660

55  
g-index

90  
all docs

90  
docs citations

90  
times ranked

3364  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-efficiency electroluminescence and amplified spontaneous emission from a thermally activated delayed fluorescent near-infrared emitter. <i>Nature Photonics</i> , 2018, 12, 98-104.	31.4	421
2	Nanosecond-time-scale delayed fluorescence molecule for deep-blue OLEDs with small efficiency rolloff. <i>Nature Communications</i> , 2020, 11, 1765.	12.8	287
3	A New Design Strategy for Efficient Thermally Activated Delayed Fluorescence Organic Emitters: From Twisted to Planar Structures. <i>Advanced Materials</i> , 2017, 29, 1702767.	21.0	215
4	Turn on of sky-blue thermally activated delayed fluorescence and circularly polarized luminescence (CPL) via increased torsion by a bulky carbazolophane donor. <i>Chemical Science</i> , 2019, 10, 6689-6696.	7.4	135
5	Highly Efficient Near-Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8477-8482.	13.8	130
6	Near-Infrared Electroluminescence and Low Threshold Amplified Spontaneous Emission above 800 nm from a Thermally Activated Delayed Fluorescent Emitter. <i>Chemistry of Materials</i> , 2018, 30, 6702-6710.	6.7	119
7	Thermally-activated Delayed Fluorescence for Light-emitting Devices. <i>Chemistry Letters</i> , 2021, 50, 938-948.	1.3	103
8	Nonlinear fluorescence response driven by ATP-induced self-assembly of guanidinium-tethered tetraphenylethene. <i>Chemical Communications</i> , 2012, 48, 8090.	4.1	90
9	Stereochemistry-Dependent, Mechanoresponsive Supramolecular Host Assemblies for Fullerenes: A Guest-Induced Enhancement of Thixotropy. <i>Journal of the American Chemical Society</i> , 2012, 134, 2161-2171.	13.7	87
10	Thermo- and Solvent-Responsive Polymer Complex Created from Supramolecular Complexation between a Helix-Forming Polysaccharide and a Cationic Polythiophene. <i>Journal of the American Chemical Society</i> , 2010, 132, 13928-13935.	13.7	83
11	Color Tuning of Avobenzene Boron Difluoride as an Emitter to Achieve Full-Color Emission. <i>Advanced Functional Materials</i> , 2016, 26, 6703-6710.	14.9	81
12	Creation of Circularly Polarized Luminescence from an Achiral Polyfluorene Derivative through Complexation with Helix-Forming Polysaccharides: Importance of the meta-Linkage Chain for Helix Formation. <i>Chemistry - an Asian Journal</i> , 2014, 9, 218-222.	3.3	71
13	Centrifugal-Coated Quasi-Two-Dimensional Perovskite CsPb <sub>2</sub> Br <sub>5</sub> Films for Efficient and Stable Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5415-5421.	4.6	71
14	Intramolecular Noncovalent Interactions Facilitate Thermally Activated Delayed Fluorescence (TADF). <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3260-3268.	4.6	68
15	Tetrabenzo[a,c]phenazine Backbone for Highly Efficient Orange-Red Thermally Activated Delayed Fluorescence with Completely Horizontal Molecular Orientation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19364-19373.	13.8	67
16	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. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11261-11266.	2.6	66
17	Creation of Chiral Thixotropic Gels through a Crown-Ammonium Interaction and their Application to a Memory-Erasing Recycle System. <i>Chemistry - A European Journal</i> , 2012, 18, 2832-2838.	3.3	56
18	Cyclization-Induced Turn-On Fluorescence System Applicable to Dicarboxylate Sensing. <i>Chemistry - A European Journal</i> , 2014, 20, 381-384.	3.3	56

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19	Thermally activated delayed fluorescence with 7% external quantum efficiency from a light-emitting electrochemical cell. <i>Nature Communications</i> , 2019, 10, 5307.	12.8	55
20	Investigating HOMO Energy Levels of Terminal Emitters for Realizing High-Brightness and Stable TADF-Assisted Fluorescence Organic Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2021, 7, 2001090.	5.1	55
21	Hydrogen bond-modulated molecular packing and its applications in high-performance non-doped organic electroluminescence. <i>Materials Horizons</i> , 2020, 7, 2734-2740.	12.2	51
22	Enhancing spin-orbital coupling in deep-blue/blue TADF emitters by minimizing the distance from the heteroatoms in donors to acceptors. <i>Chemical Engineering Journal</i> , 2021, 420, 127591.	12.7	47
23	Exact Solution of Kinetic Analysis for Thermally Activated Delayed Fluorescence Materials. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8074-8089.	2.5	47
24	Trifluoromethane modification of thermally activated delayed fluorescence molecules for high-efficiency blue organic light-emitting diodes. <i>Chemical Communications</i> , 2018, 54, 8261-8264.	4.1	44
25	Managing Intersegmental Charge-Transfer and Multiple Resonance Alignments of D <sub>3h</sub> -Typed TADF Emitters for Red OLEDs with Improved Efficiency and Color Purity. <i>Advanced Optical Materials</i> , 2022, 10, 2101789.	7.3	41
26	Thermally Activated Delayed Fluorescence Properties of Trioxoazatriangulene Derivatives Modified with Electron Donating Groups. <i>Advanced Optical Materials</i> , 2021, 9, 2002174.	7.3	35
27	Characterizing the Conformational Distribution in an Amorphous Film of an Organic Emitter and Its Application in a Self-Doping-Organic Light-Emitting Diode. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25878-25883.	13.8	35
28	Near infrared electroluminescence from Nd(TTA) 3 phen in solution-processed small molecule organic light-emitting diodes. <i>Organic Electronics</i> , 2017, 44, 50-58.	2.6	33
29	Supramolecular Dye Inclusion Single Crystals Created from 2,3,6-Trimethyl- $\beta$ -cyclodextrin and Porphyrins. <i>Chemistry - A European Journal</i> , 2012, 18, 456-465.	3.3	32
30	Selective Detection of NADPH among Four Pyridine-Nucleotide Cofactors by a Fluorescent Probe Based on Aggregation-Induced Emission. <i>Macromolecular Rapid Communications</i> , 2013, 34, 779-784.	3.9	31
31	Heat and light dual switching of a single-walled carbon nanotube/thermo-responsive helical polysaccharide complex: a new responsive system applicable to photodynamic therapy. <i>Chemical Communications</i> , 2011, 47, 7065.	4.1	27
32	A pH-responsive carboxylic $\beta$ -1,3-glucan polysaccharide for complexation with polymeric guests. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4266.	2.8	26
33	Tailoring of the desired selectivity and the turn-on detection range in a self-assembly-based fluorescence sensory system. <i>Chemical Science</i> , 2015, 6, 3863-3867.	7.4	26
34	Solution-Processed Dendrimer-Based TADF Materials for Deep-Red OLEDs. <i>Macromolecules</i> , 2020, 53, 10375-10385.	4.8	25
35	Translation of Dicarboxylate Structural Information to Fluorometric Optical Signals through Self-Assembly of Guanidinium-Ethered Oligophenylenevinylene. <i>Chemistry - A European Journal</i> , 2014, 20, 13938-13944.	3.3	24
36	Nucleotide sensing with a perylene-based molecular receptor via amplified fluorescence quenching. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 561-565.	2.8	24

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37	Highly Efficient Near-Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie</i> , 2021, 133, 8558-8563.	2.0	23
38	Isotope Effect of Host Material on Device Stability of Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes. <i>Small Science</i> , 2021, 1, 2000057.	9.9	22
39	Control of polythiophene redox potentials based on supramolecular complexation with helical schizophyllan. <i>Chemical Communications</i> , 2009, , 6086.	4.1	21
40	Unexpected chiral induction from achiral cationic polythiophene aggregates and its application to the sugar pattern recognition. <i>Chemical Communications</i> , 2012, 48, 7091.	4.1	21
41	Molecular recognition directed supramolecular control over perylene-bisimide aggregation resulting in aggregation induced enhanced emission (AIEE) and induced chiral amplification. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2310-2318.	5.5	20
42	Single-crystal Structure of Porphyrin Biccapped with Trimethyl- $\beta$ -cyclodextrins: A Novel Dye-oriented Material. <i>Chemistry Letters</i> , 2011, 40, 99-101.	1.3	19
43	Utilization of Multi-Heterodonors in Thermally Activated Delayed Fluorescence Molecules and Their High Performance Bluish-Green Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9498-9506.	8.0	18
44	Molecular Design Based on Donor-Weak Donor Scaffold for Blue Thermally-Activated Delayed Fluorescence Designed by Combinatorial DFT Calculations. <i>Frontiers in Chemistry</i> , 2020, 8, 403.	3.6	18
45	On the Helical Motif of the Complexes Created by Association of Helix-Forming Schizophyllan (SPG) and Helix-Forming Polythiophene Derivatives. <i>Chemistry - A European Journal</i> , 2009, 15, 11221-11228.	3.3	17
46	Photostable and highly emissive glassy organic dots exhibiting thermally activated delayed fluorescence. <i>Chemical Communications</i> , 2019, 55, 5215-5218.	4.1	17
47	Planar and Rigid Pyrazine-Based TADF Emitter for Deep Blue Bright Organic Light-Emitting Diodes. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 2285-2293.	2.4	17
48	Ratiometric Fluorescent Sensor for 2,4,6-Trinitrotoluene Designed Based on Energy Transfer between Size-different Quantum Dots. <i>Chemistry Letters</i> , 2010, 39, 156-158.	1.3	15
49	Intramolecular-rotation driven triplet-to-singlet upconversion and fluctuation induced fluorescence activation in linearly connected donor-acceptor molecules. <i>Journal of Chemical Physics</i> , 2020, 153, 204702.	3.0	15
50	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21817-21823.	13.8	15
51	Fine Wettability Control Created by a Photochemical Combination Method for Inkjet Printing on Self-Assembled Monolayers. <i>Advanced Materials</i> , 2012, 24, 968-972.	21.0	14
52	A Polysaccharide-Based Container Transportation System Powered by Molecular Motors. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 724-727.	13.8	13
53	Enhanced near-infrared electroluminescence from a neodymium complex in organic light-emitting diodes with a solution-processed exciplex host. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	13
54	Photocurrent-Boosting by Intramembrane Electron Mediation between Titania Nanoparticles Dispersed into Nafion <sup>®</sup> -Porphyrin Composites. <i>Chemistry of Materials</i> , 2005, 17, 4018-4022.	6.7	11

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55	Cyclodextrin-Assisted Synthesis of a Metallo-supramolecular Terbium(III) Polymer and Its Fluorescence Properties and Chiral Recognition. <i>Chemistry - A European Journal</i> , 2013, 19, 15485-15488.	3.3	11
56	2,6-Dicyanitrile Diphenylphosphinine (DCNP) A Robust Conjugated Building Block for Multi-Functional Dyes Exhibiting Tunable Amplified Spontaneous Emission. <i>Advanced Optical Materials</i> , 2021, 9, 2101122.	7.3	11
57	Quantum Dots Arrangement and Energy Transfer Control via Charge-Transfer Complex Achieved on Poly(Phenylene Ethynylene)/Schizophyllan Nanowires. <i>Chemistry - an Asian Journal</i> , 2009, 4, 1434-1441.	3.3	10
58	A photocurrent-generator utilising a polyelectrolyte as a matrix of dyes. <i>Journal of Materials Chemistry</i> , 2004, 14, 1128.	6.7	9
59	Visualization of Frontier Molecular Orbital Separation of a Single Thermally Activated Delayed Fluorescence Emitter by STM. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7512-7518.	4.6	9
60	Sub-Microsecond TADF Emission in D-A-E Emitters. <i>Chemistry Letters</i> , 2020, 49, 932-935.	1.3	8
61	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie</i> , 2021, 133, 21988-21994.	2.0	8
62	Characterizing the Conformational Distribution in an Amorphous Film of an Organic Emitter and Its Application in a Self-Doping Organic Light-Emitting Diode. <i>Angewandte Chemie</i> , 2021, 133, 26082-26087.	2.0	8
63	Carbazole-2-cyanitrile as an acceptor in deep-blue thermally activated delayed fluorescence emitters for narrowing charge-transfer emissions. <i>Chemical Science</i> , 2022, 13, 7821-7828.	7.4	8
64	Highlights from Faraday Discussion: aggregation-induced emission. <i>Chemical Communications</i> , 2017, 53, 3158-3164.	4.1	7
65	One-pot Optical Sensing of Keto Acids through the Combination of the Oxime-click Reaction and Aggregation-induced Emission (AIE). <i>Chemistry Letters</i> , 2015, 44, 812-814.	1.3	6
66	Alignment of Polysaccharide-SWNT Composites by Metal-Ligand Interactions. <i>Chemistry Letters</i> , 2009, 38, 812-813.	1.3	5
67	Tetrabenzo[ <i>a</i> ][ <i>c</i> ]phenazine Backbone for Highly Efficient Orange-Red Thermally Activated Delayed Fluorescence with Completely Horizontal Molecular Orientation. <i>Angewandte Chemie</i> , 2021, 133, 19513-19522.	2.0	4
68	Dye-sensitised preparation of chiral plasmonic Ag nanoparticles on helical polysaccharides. <i>Supramolecular Chemistry</i> , 2013, 25, 748-755.	1.2	3
69	<sup>13</sup> C NMR Longitudinal Relaxation Time Studies of a Molecular Tweezers Derived from a Calixarene-Porphyrin Conjugate. <i>Journal of Oleo Science</i> , 2007, 56, 155-158.	1.4	3
70	Photocurrent Generators Derived from Non-covalently Assembled Porphyrin Conjugate Nano-system. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2006, 19, 409-411.	0.3	2
71	Facile fabrication of CD-active 1-D polypyrrole by the templating effect of a helix-forming anionic polysaccharide. <i>Supramolecular Chemistry</i> , 2011, 23, 239-243.	1.2	2
72	Carbon-13 NMR Longitudinal Relaxation Time Study of an Ionophoric 1,3-Alternate-Shaped Calix[4]arene Ester. <i>Journal of Oleo Science</i> , 2006, 55, 75-78.	1.4	1

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73	Photocurrent Generators Derived from Non-Covalently Assembled Cyclodextrin Nano-System. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 533-538.	0.3	1
74	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.	1.4	1
75	Tunable OLEDs: Color Tuning of Avobenzene Boron Difluoride as an Emitter to Achieve Full-Color Emission (Adv. Funct. Mater. 37/2016). Advanced Functional Materials, 2016, 26, 6847-6847.	14.9	0
76	Conformation Control of a Conjugated Polymer through Complexation with Bile Acids Generates Its Novel Spectral and Morphological Properties. Langmuir, 2016, 32, 12403-12412.	3.5	0
77	Optoelectronic devices of highly efficient luminogens in the solid state: general discussion. Faraday Discussions, 2017, 196, 455-460.	3.2	0
78	Advanced functional luminogens in the solid-state: general discussion. Faraday Discussions, 2017, 196, 317-334.	3.2	0
79	New and efficient fluorescent and phosphorescent luminogens: general discussion. Faraday Discussions, 2017, 196, 191-218.	3.2	0
80	Biomedical applications of luminogens: general discussion. Faraday Discussions, 2017, 196, 403-414.	3.2	0
81	Partial Modification of Electron-withdrawing Groups in Thermally-activated Delayed Fluorescence Materials Aimed to Improve Efficiency and Stability. Chemistry Letters, 2020, 49, 1189-1193.	1.3	0
82	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
83	Innentitelbild: An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence (Angew. Chem. 40/2021). Angewandte Chemie, 2021, 133, 21766-21766.	2.0	0