

Katsuyuki Shizu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

10,300
citations

28
h-index

61
g-index

61
ext. papers

11,719
ext. citations

6.5
avg, IF

6.27
L-index

#	Paper	IF	Citations
55	Highly efficient organic light-emitting diodes from delayed fluorescence. <i>Nature</i> , 2012 , 492, 234-8	50.4	4461
54	Design of efficient thermally activated delayed fluorescence materials for pure blue organic light emitting diodes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14706-9	16.4	1147
53	Highly efficient blue electroluminescence based on thermally activated delayed fluorescence. <i>Nature Materials</i> , 2015 , 14, 330-6	27	886
52	Purely organic electroluminescent material realizing 100% conversion from electricity to light. <i>Nature Communications</i> , 2015 , 6, 8476	17.4	606
51	Efficient green thermally activated delayed fluorescence (TADF) from a phenoxazine-triphenyltriazine (PXZ-TRZ) derivative. <i>Chemical Communications</i> , 2012 , 48, 11392-4	5.8	478
50	Oxadiazole- and triazole-based highly-efficient thermally activated delayed fluorescence emitters for organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4599	7.1	269
49	Twisted Intramolecular Charge Transfer State for Long-Wavelength Thermally Activated Delayed Fluorescence. <i>Chemistry of Materials</i> , 2013 , 25, 3766-3771	9.6	253
48	Triarylboron-Based Fluorescent Organic Light-Emitting Diodes with External Quantum Efficiencies Exceeding 20 . <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15231-5	16.4	242
47	Dual Intramolecular Charge-Transfer Fluorescence Derived from a Phenothiazine-Triphenyltriazine Derivative. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15985-15994	3.8	204
46	Organic luminescent molecule with energetically equivalent singlet and triplet excited states for organic light-emitting diodes. <i>Physical Review Letters</i> , 2013 , 110, 247401	7.4	180
45	Solvent effect on thermally activated delayed fluorescence by 1,2,3,5-tetrakis(carbazol-9-yl)-4,6-dicyanobenzene. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 5607-12	2.8	128
44	Strategy for Designing Electron Donors for Thermally Activated Delayed Fluorescence Emitters. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1291-1297	3.8	127
43	Controlled emission colors and singletTriplet energy gaps of dihydrophenazine-based thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2175-2181	7.1	111
42	Combined Inter- and Intramolecular Charge-Transfer Processes for Highly Efficient Fluorescent Organic Light-Emitting Diodes with Reduced Triplet Exciton Quenching. <i>Advanced Materials</i> , 2017 , 29, 1606448	24	110
41	Highly Efficient Blue Electroluminescence Using Delayed-Fluorescence Emitters with Large Overlap Density between Luminescent and Ground States. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26283-26289	3.8	100
40	Triarylboron-Based Fluorescent Organic Light-Emitting Diodes with External Quantum Efficiencies Exceeding 20 %. <i>Angewandte Chemie</i> , 2015 , 127, 15446-15450	3.6	85
39	Enhanced Electroluminescence from a Thermally Activated Delayed-Fluorescence Emitter by Suppressing Nonradiative Decay. <i>Physical Review Applied</i> , 2015 , 3,	4.3	74

38	Blue organic light-emitting diodes realizing external quantum efficiency over 25% using thermally activated delayed fluorescence emitters. <i>Scientific Reports</i> , 2017 , 7, 284	4.9	71
37	High efficiency thermally activated delayed fluorescence based on 1,3,5-tris(4-(diphenylamino)phenyl)-2,4,6-tricyanobenzene. <i>Chemical Communications</i> , 2015 , 51, 5028-31	5.8	62
36	Highly efficient electroluminescence from a solution-processable thermally activated delayed fluorescence emitter. <i>Applied Physics Letters</i> , 2015 , 107, 183303	3.4	61
35	Donor-acceptor-structured 1,4-diazatriphenylene derivatives exhibiting thermally activated delayed fluorescence: design and synthesis, photophysical properties and OLED characteristics. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 034202	7.1	56
34	Thermally Activated Delayed Fluorescence from a Spiro-diazafluorene Derivative. <i>Chemistry Letters</i> , 2014 , 43, 1017-1019	1.7	53
33	Preparation and characterization of N-anisyl-substituted hexaaza[1(6)]paracyclophane. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8205-8	16.4	49
32	Highly Efficient Thermally Activated Delayed Fluorescence Emitters with a Small Singlet-Triplet Energy Gap and Large Oscillator Strength. <i>Chemistry Letters</i> , 2015 , 44, 360-362	1.7	48
31	Effect of Atom Substitution in Chalcogenodiazole-Containing Thermally Activated Delayed Fluorescence Emitters on Radiationless Transition. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2948-2955	3.8	46
30	Electron-vibration interactions in carrier-transport material: Vibronic coupling density analysis in TPD. <i>Chemical Physics Letters</i> , 2008 , 458, 152-156	2.5	36
29	Highly efficient electroluminescence from purely organic donor-acceptor systems. <i>Pure and Applied Chemistry</i> , 2015 , 87, 627-638	2.1	34
28	Highly efficient solution-processed host-free organic light-emitting diodes showing an external quantum efficiency of nearly 18% with a thermally activated delayed fluorescence emitter. <i>Applied Physics Express</i> , 2016 , 9, 032102	2.4	29
27	Theoretical design of a hole-transporting molecule: hexaaza[16]parabiphenylophane. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6375		27
26	A boron-containing molecule as an efficient electron-transporting material with low-power consumption. <i>Applied Physics Letters</i> , 2010 , 97, 142111	3.4	27
25	Detailed analysis of charge transport in amorphous organic thin layer by multiscale simulation without any adjustable parameters. <i>Scientific Reports</i> , 2016 , 6, 39128	4.9	23
24	[Paper] Meta-linking Strategy for Thermally Activated Delayed Fluorescence Emitters with a Small Singlet-Triplet Energy Gap. <i>ITE Transactions on Media Technology and Applications</i> , 2015 , 3, 108-113	0.7	19
23	Preparation and Characterization of N-Anisyl-Substituted Hexaaza[16]paracyclophane. <i>Angewandte Chemie</i> , 2010 , 122, 8381-8384	3.6	19
22	Multiscale simulation of charge transport in a host material, N,N'-dicarbazole-3,5-benzene (mCP), for organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5549-5555	7.1	18
21	Electron-vibration interactions in triphenylamine cation: Why are triphenylamine-based molecules good hole-transport materials?. <i>Chemical Physics Letters</i> , 2010 , 486, 130-136	2.5	18

20	Vibronic Coupling Constant and Vibronic Coupling Density. <i>Springer Series in Chemical Physics</i> , 2009 , 99-129	17
19	Vibronic coupling density and related concepts. <i>Journal of Physics: Conference Series</i> , 2013 , 428, 012010	16
18	Effect of Vibronic Coupling on Correlated Triplet Pair Formation in the Singlet Fission Process of Linked Tetracene Dimers. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 3641-3651	2.8 13
17	Vibronic coupling density analysis for oligothiophene cations: A new insight for polaronic defects. <i>Chemical Physics</i> , 2010 , 369, 108-121	2.3 12
16	Organic light-emitting diodes: High-throughput virtual screening. <i>Nature Materials</i> , 2016 , 15, 1056-7	27 12
15	Inelastic electron tunneling spectra and vibronic coupling density analysis of 2,5-dimercapto-1,3,4-thiadiazole and tetrathiafulvalene dithiol. <i>Nanoscale</i> , 2010 , 2, 2186-94	7.7 11
14	Vibronic coupling density analysis of hole-transporting materials: Electron-density difference in DFT and HF methods. <i>Organic Electronics</i> , 2010 , 11, 1277-1287	3.5 11
13	Reduced vibronic coupling density and its application to bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF). <i>Chemical Physics Letters</i> , 2010 , 491, 65-71	2.5 10
12	Thermally Activated Delayed Fluorescence Emitter with a Symmetric Acceptor-Donor-Acceptor Structure. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2017 , 30, 475-481	0.7 5
11	Conformation Control of Iminodibenzyl-Based Thermally Activated Delayed Fluorescence Material by Tilted Face-to-Face Alignment With Optimal Distance (tFFO) Design. <i>Frontiers in Chemistry</i> , 2020 , 8, 530	5 5
10	Molecular Vibration Accelerates Charge Transfer Emission in a Highly Twisted Blue Thermally Activated Delayed Fluorescence Material. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 4534-4539	2.8 5
9	Organic Electroluminescent Materials Realizing Efficient Conversion from Electricity to Light. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2016 , 29, 305-310	0.7 5
8	Organic Light-Emitting Diodes (OLEDs): Materials, Photophysics, and Device Physics 2015 , 43-73	4
7	Vibronic interactions in hole-transporting molecules: An interplay with electron-hole interactions. <i>Chemical Physics Letters</i> , 2011 , 507, 151-156	2.5 3
6	Inverse Relationship of Reorganization Energy to The Number of Electrons from Perspective of Vibronic Coupling Density. <i>Journal of Computer Chemistry Japan</i> , 2013 , 12, 215-221	0.2 2
5	Visual Understanding of Vibronic Coupling and Quantitative Rate Expression for Singlet Fission in Molecular Aggregates. <i>Bulletin of the Chemical Society of Japan</i> , 2020 , 93, 1305-1313	5.1 2
4	Correlated Triplet Pair Formation Activated by Geometry Relaxation in Directly Linked Tetracene Dimer (5,5'-bitetracene). <i>ACS Omega</i> , 2021 , 6, 2638-2643	3.9 2
3	Theoretical Determination of Rate Constants from Excited States: Application to Benzophenone. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 9000-9010	2.8 2

- 2 Vibronic coupling density analysis for free-base porphin cation. *Chemical Physics Letters*, **2011**, 505, 42-46.5 1
- 1 Carbazole and Benzophenone Based Twisted Donor-Acceptor Systems as Solution Processable Green Thermally Activated Delayed Fluorescence Organic Light Emitters. *Chemistry Letters*, **2018**, 47, 1236-1239 1.7