Kenichi Goushi

List of Publications by Year
in descending order

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57 papers	11,110 citations	201385 27 h-index	174990 52 g-index
60 all docs	60 docs citations	60 times ranked	7652 citing authors

#	Article	IF	Citations
1	Highly efficient organic light-emitting diodes from delayed fluorescence. Nature, 2012, 492, 234-238.	13.7	6,030
2	Organic light-emitting diodes employing efficient reverse intersystem crossing for triplet-to-singlet state conversion. Nature Photonics, 2012, 6, 253-258.	15.6	1,355
3	100% phosphorescence quantum efficiency of Ir(III) complexes in organic semiconductor films. Applied Physics Letters, 2005, 86, 071104.	1.5	673
4	Triplet exciton confinement and unconfinement by adjacent hole-transport layers. Journal of Applied Physics, 2004, 95, 7798-7802.	1.1	285
5	Triplet Exciton Confinement in Green Organic Lightâ€Emitting Diodes Containing Luminescent Chargeâ€Transfer Cu(I) Complexes. Advanced Functional Materials, 2012, 22, 2327-2336.	7.8	279
6	Efficient organic light-emitting diodes through up-conversion from triplet to singlet excited states of exciplexes. Applied Physics Letters, 2012, 101, .	1.5	239
7	High-Efficiency Organic Electrophosphorescent Diodes Using 1,3,5-Triazine Electron Transport Materials. Chemistry of Materials, 2004, 16, 1285-1291.	3.2	216
8	Indication of current-injection lasing from an organic semiconductor. Applied Physics Express, 2019, 12, 061010.	1.1	198
9	Triplet management for efficient perovskite light-emitting diodes. Nature Photonics, 2020, 14, 70-75.	15.6	190
10	Influence of host matrix on thermally-activated delayed fluorescence: Effects on emission lifetime, photoluminescence quantum yield, and device performance. Organic Electronics, 2014, 15, 2027-2037.	1.4	158
11	Toward continuous-wave operation of organic semiconductor lasers. Science Advances, 2017, 3, e1602570.	4.7	132
12	100% fluorescence efficiency of 4,4[sup Ê¹]-bis[(N-carbazole)styryl]biphenyl in a solid film and the very low amplified spontaneous emission threshold. Applied Physics Letters, 2005, 86, 071110.	1.5	128
13	Tripletâ€“triplet upconversion enhanced by spinâ€“orbit coupling in organic light-emitting diodes. Nature Communications, 2019, 10, 5283.	5.8	111
14	Confinement of Longâ€Lived Triplet Excitons in Organic Semiconducting Hostâ€“Guest Systems. Advanced Functional Materials, 2017, 27, 1703902.	7.8	107
15	Improvement of Electroluminescence Performance of Organic Lightâ€Emitting Diodes with a Liquidâ€Emitting Layer by Introduction of Electrolyte and a Holeâ€Blocking Layer. Advanced Materials, 2011, 23, 889-893.	11.1	100
16	Unusual Phosphorescence Characteristics of Ir(ppy)3in a Solid Matrix at Low Temperatures. Japanese Journal of Applied Physics, 2004, 43, L937-L939.	0.8	58
17	Highly Efficient Thermally Activated Delayed Fluorescence Emitters with a Small Singletâ€“Triplet Energy Gap and Large Oscillator Strength. Chemistry Letters, 2015, 44, 360-362.	0.7	57
18	Distributed Feedback Lasers and Light-Emitting Diodes Using 1-Naphthylmethylamnonium Low-Dimensional Perovskite. ACS Photonics, 2019, 6, 460-466.	3.2	55

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19	Quasiâ€Continuousâ€Wave Organic Thinâ€Film Distributed Feedback Laser. Advanced Optical Materials, 2016, 4, 834-839.	3.6	50
20	Observation of spontaneous orientation polarization in evaporated films of organic light-emitting diode materials. Organic Electronics, 2018, 58, 313-317.	1.4	50
21	Temperature dependence of photoluminescence properties in a thermally activated delayed fluorescence emitter. Applied Physics Letters, 2014, 104, .	1.5	48
22	Suppression of external quantum efficiency rolloff in organic light emitting diodes by scavenging triplet excitons. Nature Communications, 2020, 11, 4926.	5.8	46
23	Contributions of a Higher Triplet Excited State to the Emission Properties of a Thermally Activated Delayed-Fluorescence Emitter. Physical Review Applied, 2017, 7, .	1.5	45
24	Charge carrier dynamics and degradation phenomena in organic light-emitting diodes doped by a thermally activated delayed fluorescence emitter. Organic Electronics, 2015, 17, 184-191.	1.4	43
25	Ultraviolet amplified spontaneous emission from thin films of 4,4â€²-bis(9-carbazolyl)-2,2â€²-biphenyl and the derivatives. Applied Physics Letters, 2004, 84, 2724-2726.	1.5	40
26	Observation of Nonradiative Deactivation Behavior from Singlet and Triplet States of Thermally Activated Delayed Fluorescence Emitters in Solution. Journal of Physical Chemistry Letters, 2020, 11, 562-566.	2.1	36
27	Charge-carrier injection characteristics at organic/organic heterojunction interfaces in organic light-emitting diodes. Chemical Physics Letters, 2007, 435, 327-330.	1.2	33
28	Highly Efficient Deepâ€Blue Organic Lightâ€Emitting Diodes Based on Rational Molecular Design and Device Engineering. Advanced Functional Materials, 2022, 32, .	7.8	27
29	An Organic Laser Dye having a Small Singletâ€Triplet Energy Gap Makes the Selection of a Host Material Easier. Advanced Functional Materials, 2020, 30, 2001078.	7.8	26
30	Hot exciplexes in U-shaped TADF molecules with emission from locally excited states. Nature Communications, 2021, 12, 6179.	5.8	25
31	Excitation Intensity Dependence of Power-Law Blinking Statistics in Nanocrystal Quantum Dots. Journal of Physical Chemistry C, 2009, 113, 20161-20168.	1.5	23
32	Control of the Singletâ€“Triplet Energy Gap in a Thermally Activated Delayed Fluorescence Emitter by Using a Polar Host Matrix. Nanoscale Research Letters, 2017, 12, 268.	3.1	23
33	Enhanced Electroluminescence from Organic Lightâ€Emitting Diodes with an Organicâ€“Inorganic Perovskite Host Layer. Advanced Materials, 2018, 30, e1802662.	11.1	22
34	Triplet-triplet annihilation in a thermally activated delayed fluorescence emitter lightly doped in a host. Applied Physics Letters, 2018, 113, .	1.5	21
35	Tailorâ€Made Multiâ€Resonance Terminal Emitters toward Narrowband, Highâ€Efficiency, and Stable Hyperfluorescence Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2022, 10, .	3.6	21
36	Realizing Nearâ€Infrared Laser Dyes through a Shift inÂExcitedâ€State Absorption. Advanced Optical Materials, 2021, 9, 2001947.	3.6	19

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37	Organic Field Effect Transistor Using Pentacene Single Crystals Grown by a Liquid-Phase Crystallization Process. Langmuir, 2009, 25, 4861-4863.	1.6	18
38	Markedly Improved Performance of Optically Pumped Organic Lasers with Two-Dimensional Distributed-Feedback Gratings. ACS Photonics, 2021, 8, 1324-1334.	3.2	17
39	Recycling of Triplets into Singlets for Highâ€Performance Organic Lasers. Advanced Optical Materials, 2022, 10, 2101302.	3.6	16
40	Reduced amplified spontaneous emission threshold in organic semiconductor laser structure with relaxed roll-off characteristics under high current densities. Journal of Luminescence, 2013, 143, 754-758.	1.5	13
41	Intersystem Crossing Rate in Thermally Activated Delayed Fluorescence Emitters. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900616.	0.8	13
42	Time-correlated single photon counting and optical measurement systems for studying single fluorescent emitters under high vacuum conditions. Thin Solid Films, 2008, 517, 1507-1511.	0.8	8
43	Comparison of transient state and steady state excitonâ€“exciton annihilation rates based on FÃ¶rster-type energy transfer. Japanese Journal of Applied Physics, 2015, 54, 071601.	0.8	8
44	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
45	Time-correlated single photon counting system and light-collection system for studying fluorescence emitters under high-vacuum conditions: Use of immersion objective and ionic liquid. Thin Solid Films, 2009, 518, 432-436.	0.8	7
46	Emission properties of thermally activated delayed fluorescence emitters: analysis based on a four-level model considering a higher triplet excited state. Journal of Photonics for Energy, 2018, 8, 1.	0.8	7
47	Numerical Study of Triplet Dynamics in Organic Semiconductors Aimed for the Active Utilization of Triplets by TADF under Continuous-Wave Lasing. Journal of Physical Chemistry Letters, 2022, 13, 1323-1329.	2.1	6
48	Two-dimensional orientation control of organic semiconducting amorphous films by mechanical brushing. Applied Physics Letters, 2011, 99, .	1.5	5
49	Organic Light-Emitting Diodes (OLEDs): Materials, Photophysics, and Device Physics. , 2015, , 43-73.		5
50	Spin-relaxation Process of Excited Triplet States of Ir(ppy)3. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2006, 19, 181-186.	0.1	2
51	Physics and Design Principles of OLED Devices. , 2020, , 1-73.		2
52	High Efficiency White Electrophosphorescence Mechanism with Two Phosphorescent Dopants. IEEJ Transactions on Fundamentals and Materials, 2004, 124, 414-420.	0.2	1
53	Synthesis and Characterization of 5,5â€²-Bitetracene. Chemistry Letters, 2021, 50, 800-803.	0.7	1
54	Phosphorescence Quantum Efficiency and Intermolecular Interaction of Iridium(III) Complexes in Co-Deposited Films with Organic Semiconducting Hosts. Materials Research Society Symposia Proceedings, 2004, 846, DD4.5.1.	0.1	0

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55	Electroluminescence: Confinement of Long-Lived Triplet Excitons in Organic Semiconducting Host-Guest Systems (Adv. Funct. Mater. 40/2017). Advanced Functional Materials, 2017, 27, .	7.8	0
56	Organic Laser Dyes: An Organic Laser Dye having a Small Singletâ€“Triplet Energy Gap Makes the Selection of a Host Material Easier (Adv. Funct. Mater. 30/2020). Advanced Functional Materials, 2020, 30, 2070204.	7.8	0
57	Triplet-triplet Upconversion Involving Spin-orbit Interaction in Organic Light-emitting Diodes. Journal of the Institute of Electrical Engineers of Japan, 2021, 141, 277-279.	0.0	0