Masashi Mamada

List of Publications by Year
in descending order

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75 papers	2,194 citations	218677 26 h-index	254184 43 g-index
82 all docs	82 docs citations	82 times ranked	2793 citing authors

#	Article	IF	Citations
1	Highly Efficient Thermally Activated Delayed Fluorescence from an Excited-State Intramolecular Proton Transfer System. ACS Central Science, 2017, 3, 769-777.	11.3	148
2	Fabrication of Ultra-Thin Printed Organic TFT CMOS Logic Circuits Optimized for Low-Voltage Wearable Sensor Applications. Scientific Reports, 2016, 6, 25714.	3.3	134
3	Highly Efficient Nearâ€Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. Angewandte Chemie - International Edition, 2021, 60, 8477-8482.	13.8	130
4	n-Type Organic Field-Effect Transistors with High Electron Mobilities Based on Thiazoleâ^Thiazolothiazole Conjugated Molecules. Chemistry of Materials, 2007, 19, 5404-5409.	6.7	97
5	The Importance of Excitedâ€State Energy Alignment for Efficient Exciplex Systems Based on a Study of Phenylpyridinato Boron Derivatives. Angewandte Chemie - International Edition, 2018, 57, 12380-12384.	13.8	83
6	Green Synthesis of Polycyclic Benzimidazole Derivatives and Organic Semiconductors. Organic Letters, 2011, 13, 4882-4885.	4.6	76
7	A Unique Solution-Processable n-Type Semiconductor Material Design for High-Performance Organic Field-Effect Transistors. Chemistry of Materials, 2015, 27, 141-147.	6.7	76
8	syn-/anti-Anthradithiophene Derivative Isomer Effects on Semiconducting Properties. ACS Applied Materials & Interfaces, 2013, 5, 9670-9677.	8.0	65
9	A Solution-Processed Organic Thin-Film Transistor Backplane for Flexible Multiphoton Emission Organic Light-Emitting Diode Displays. IEEE Electron Device Letters, 2015, 36, 841-843.	3.9	56
10	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.	5.1	55
11	Novel Semiconducting Quinone for Air-Stable n-Type Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2010, 2, 1303-1307.	8.0	50
12	Benzimidazole Derivatives: Synthesis, Physical Properties, and nâ€Type Semiconducting Properties. Chemistry - A European Journal, 2014, 20, 11835-11846.	3.3	50
13	Anthraquinone derivatives affording n-type organic thin film transistors. Chemical Communications, 2009, , 2177.	4.1	49
14	Diindeno[1,2-b:2â€²,1â€²-n]perylene: a closed shell related Chichibabin's hydrocarbon, the synthesis, molecular packing, electronic and charge transport properties. Chemical Science, 2015, 6, 3402-3409.	7.4	49
15	Low Amplified Spontaneous Emission Threshold from Organic Dyes Based on Bisâ€stilbene. Advanced Functional Materials, 2018, 28, 1802130.	14.9	48
16	Low Amplified Spontaneous Emission Threshold and Efficient Electroluminescence from a Carbazole Derivatized Excited-State Intramolecular Proton Transfer Dye. ACS Photonics, 2018, 5, 4447-4455.	6.6	47
17	Design Strategy for Robust Organic Semiconductor Laser Dyes. , 2020, 2, 161-167.		47
18	Synthesis, Physical Properties, and Field-Effect Mobility of Isomerically Pure syn-/anti-Anthradithiophene Derivatives. Organic Letters, 2012, 14, 4062-4065.	4.6	46

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19	Excitonâ€“Exciton Annihilation in Thermally Activated Delayed Fluorescence Emitter. Advanced Functional Materials, 2020, 30, 2000580.	14.9	45
20	Excellent Semiconductors Based on Tetracenotetracene and Pentacenopentacene: From Stable Closed-Shell to Singlet Open-Shell. Journal of the American Chemical Society, 2019, 141, 9373-9381.	13.7	40
21	An Electronâ€Accepting azaâ€BODIPYâ€Based Donorâ€“Acceptorâ€“Donor Architecture for Bright NIR Emission. Chemistry - A European Journal, 2021, 27, 5259-5267.	3.3	33
22	High performance organic field-effect transistors based on [2,2â€²]bi[naphtho[2,3-b]thiophenyl] with a simple structure. Journal of Materials Chemistry, 2008, 18, 3442.	6.7	32
23	High Performance pâ€•and nâ€Type Lightâ€Emitting Fieldâ€Effect Transistors Employing Thermally Activated Delayed Fluorescence. Advanced Functional Materials, 2018, 28, 1800340.	14.9	31
24	Solid cyclooctatetraene-based triplet quencher demonstrating excellent suppression of singletâ€“triplet annihilation in optical and electrical excitation. Nature Communications, 2020, 11, 5623.	12.8	31
25	Field-Effect Transistors Based on Tetraphenyldipyranylidenes and the Sulfur Analogues. Chemistry of Materials, 2009, 21, 4350-4352.	6.7	30
26	Simple Molecular-Engineering Approach for Enhancing Orientation and Outcoupling Efficiency of Thermally Activated Delayed Fluorescent Emitters without Red-Shifting Emission. ACS Applied Materials & Interfaces, 2018, 10, 43842-43849.	8.0	30
27	Preparation, Characterization, and Field-effect Transistor Performance of Benzo[1,2-d:4,5-dâ€²]bisthiazole Derivatives. Chemistry Letters, 2008, 37, 766-767.	1.3	28
28	Low Bandgap Bistetraceneâ€Based Organic Semiconductors Exhibiting Air Stability, High Aromaticity and Mobility. Chemistry - A European Journal, 2017, 23, 5076-5080.	3.3	28
29	Excited State Dynamics of Thermally Activated Delayed Fluorescence from an Excited State Intramolecular Proton Transfer System. Journal of Physical Chemistry Letters, 2020, 11, 3305-3312.	4.6	28
30	Highly Efficient Deepâ€Blue Organic Lightâ€Emitting Diodes Based on Rational Molecular Design and Device Engineering. Advanced Functional Materials, 2022, 32, .	14.9	27
31	Characterization of New Rubrene Analogues with Heteroaryl Substituents. Crystal Growth and Design, 2015, 15, 442-448.	3.0	26
32	Synthesis, Aromaticity, and Application of periâ€Pentacenopentacene: Localized Representation of Benzenoid Aromatic Compounds. Angewandte Chemie - International Edition, 2022, 61, .	13.8	26
33	The Importance of Excitedâ€State Energy Alignment for Efficient Exciplex Systems Based on a Study of Phenylpyridinato Boron Derivatives. Angewandte Chemie, 2018, 130, 12560-12564.	2.0	25
34	Modulating the ground state, stability and charge transport in OFETs of biradicaloid hexahydro-diindenopyrene derivatives and a proposed method to estimate the biradical character. Chemical Science, 2020, 11, 12194-12205.	7.4	25
35	Charge transport, carrier balance, and blue electrophosphorescence in diphenyl[4-(triphenylsilyl)phenyl]phosphine oxide devices. Applied Physics Letters, 2011, 98, .	3.3	24
36	Highly Efficient Nearâ€Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. Angewandte Chemie, 2021, 133, 8558-8563.	2.0	23

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37	Asymmetric Alkylthienyl Thienoacenes Derived from Anthra[2,3-b]thieno[2,3-d]thiophene for Solution-Processable Organic Semiconductors. ACS Applied Materials & Interfaces, 2017, 9, 9902-9909.	8.0	22
38	Isotope Effect of Host Material on Device Stability of Thermally Activated Delayed Fluorescence Organic Lightâ€Emitting Diodes. Small Science, 2021, 1, 2000057.	9.9	22
39	High EQE and High Brightness Solutionâ€Processed TADF Lightâ€Emitting Transistors and OLEDs. Advanced Optical Materials, 2020, 8, 2000554.	7.3	21
40	Tailorâ€Made Multiâ€Resonance Terminal Emitters toward Narrowband, Highâ€Efficiency, and Stable Hyperfluorescence Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2022, 10, .	7.3	21
41	F8BT Oligomers for Organic Solid-State Lasers. ACS Applied Materials & Interfaces, 2020, 12, 28383-28391.	8.0	20
42	Realizing Nearâ€Infrared Laser Dyes through a Shift inÂExcitedâ€State Absorption. Advanced Optical Materials, 2021, 9, 2001947.	7.3	19
43	High-performance solution-processed red hyperfluorescent OLEDs based on cibalackrot. Journal of Materials Chemistry C, 2022, 10, 4767-4774.	5.5	19
44	Low-Voltage and Hysteresis-Free N-Type Organic Thin Film Transistor and Complementary Inverter with Bilayer Gate Insulator. Japanese Journal of Applied Physics, 2009, 48, 111504.	1.5	16
45	Synthesis of Semiconducting Polymers through Soluble Precursor Polymers with Thermally Removable Groups and Their Application to Organic Transistors. ACS Macro Letters, 2013, 2, 830-833.	4.8	15
46	Enhanced Energy Transfer in Doped Bifluorene Single Crystals: Prospects for Organic Lasers. Advanced Optical Materials, 2020, 8, 1901670.	7.3	14
47	Synthesis, crystal structure and charge transport characteristics of stable peri-tetracene analogues. Chemical Science, 2021, 12, 552-558.	7.4	14
48	Triclinic polymorph of dibenzotetrathiafulvalene. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2083-o2083.	0.2	13
49	Lowâ€Threshold Excitonâ€Polariton Condensation via Fast Polariton Relaxation in Organic Microcavities. Advanced Optical Materials, 2022, 10, 2102034.	7.3	13
50	Synthesis and solid-state polymerization of diacetylene derivatives directly substituted with a phenylcarbazole moiety. Polymer Journal, 2016, 48, 1013-1018.	2.7	10
51	Crystal structure and modeled charge carrier mobility of benzobis(thiadiazole) derivatives. New Journal of Chemistry, 2016, 40, 1403-1411.	2.8	10
52	Synthesis, crystal structure, and FET characteristics of thieno[2,3-b]thiophene-based bent-thienoacenes. Tetrahedron Letters, 2017, 58, 963-967.	1.4	10
53	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.	7.4	8
54	Synthesis and Thin-film Transistor Characterization of Narrow-gap n-Type Semiconducting Polymers Based on Benzobis(thiadiazole). Chemistry Letters, 2014, 43, 402-404.	1.3	7

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55	Synthesis and Solid-State Polymerization of Diacetylene Derivatives with an N-Carbazolylphenyl Group. Bulletin of the Chemical Society of Japan, 2015, 88, 843-849.	3.2	7
56	Surface Segregation of a Star-Shaped Polyhedral Oligomeric Silsesquioxane in a Polymer Matrix. Langmuir, 2020, 36, 9960-9966.	3.5	7
57	Amplified spontaneous emission from oligo(p-phenylenevinylene) derivatives. Materials Advances, 2021, 2, 3906-3914.	5.4	7
58	Unimolecular metastable decompositions of 1,1,1-trifluoroisopropyl methyl ether [CF3(CH3)CHOCH3] upon electron ionization. Rapid Communications in Mass Spectrometry, 2003, 17, 503-506.	1.5	6
59	Organic Field-Effect Transistors Based on Ï€-Extended Dibenzotetrathiafulvalene Analogues with Thiophene Spacers. Bulletin of the Chemical Society of Japan, 2010, 83, 575-581.	3.2	6
60	One-step, green synthesis of a supramolecular organogelator based on mellitic triimide for the recognition of aromatic compounds. Chemical Communications, 2017, 53, 8834-8837.	4.1	6
61	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.	4.6	6
62	Crystal Structure and Theoretical Investigation of Charge-transport Properties of Fullerene Derivatives. Chemistry Letters, 2016, 45, 1421-1424.	1.3	5
63	Advantages of naphthalene as a building block for organic solid state laser dyes: smaller energy gaps and enhanced stability. Journal of Materials Chemistry C, 2021, 9, 4112-4118.	5.5	5
64	Synthesis and photochromic behaviour of a series of benzopyrans bearing an N-phenyl-carbazole moiety: photochromism control by the steric effect. Photochemical and Photobiological Sciences, 2020, 19, 1344-1355.	2.9	4
65	Low Light Amplification Threshold and Reduced Efficiency Rollâ€Off in Thick Emissive Layer OLEDs from a Diketopyrrolopyrrole Derivative. Macromolecular Rapid Communications, 2022, 43, e2200115.	3.9	4
66	Cibalackrot Dendrimers for Hyperfluorescent Organic Lightâ€Emitting Diodes. Macromolecular Rapid Communications, 2022, 43, e2200118.	3.9	4
67	Unimolecular Gas-Phase Reactions of Diethyl Phthalate, Isophthalate, and Terephthalate upon Electron Ionization. Australian Journal of Chemistry, 2003, 56, 473.	0.9	3
68	Synthesis of Narrow Bandgap Polymers based on Benzobis(thiadiazole) and their Application to Organic Transistor Devices. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 321-326.	0.3	2
69	Unimolecular Reactions of Diethyl Malonate Cation in Gas-phase. Journal of the Mass Spectrometry Society of Japan, 2004, 52, 263-270.	0.1	2
70	Field-Effect Transistors: High Performance p- and n-Type Light-Emitting Field-Effect Transistors Employing Thermally Activated Delayed Fluorescence (Adv. Funct. Mater. 28/2018). Advanced Functional Materials, 2018, 28, 1870193.	14.9	1
71	Synthesis and Characterization of 5,5â€²-Bitetracene. Chemistry Letters, 2021, 50, 800-803.	1.3	1
72	Synthesis, crystal structure, tropicity and charge transport properties of diindenothienothiophene derivatives. Journal of Materials Chemistry C, 0, , .	5.5	1

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73	33â€4: Invited Paper: A Chemical Structure Approach Enhancing Light Outcoupling of Dopant OLEDs and Internal Quantum Efficiency of Nonâ€Dopant OLEDs Having Bluish TADF Emitters. Digest of Technical Papers SID International Symposium, 2019, 50, 470-473.	0.3	0
74	Advanced Technology for Organic Light-emitting Transistor. Journal of the Institute of Electrical Engineers of Japan, 2021, 141, 283-285.	0.0	0
75	Recent Progress on Organic Semiconductor Laser Molecules. Vacuum and Surface Science, 2021, 64, 4-9.	0.1	0