

Masashi Mamada

List of Publications by Year in descending order

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papers

2,194
citations

218381

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docs citations

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times ranked

2793
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Efficient Thermally Activated Delayed Fluorescence from an Excited-State Intramolecular Proton Transfer System. <i>ACS Central Science</i> , 2017, 3, 769-777.	5.3	148
2	Fabrication of Ultra-Thin Printed Organic TFT CMOS Logic Circuits Optimized for Low-Voltage Wearable Sensor Applications. <i>Scientific Reports</i> , 2016, 6, 25714.	1.6	134
3	Highly Efficient Near-Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8477-8482.	7.2	130
4	<i>n</i> -Type Organic Field-Effect Transistors with High Electron Mobilities Based on Thiazole-Thiazolothiazole Conjugated Molecules. <i>Chemistry of Materials</i> , 2007, 19, 5404-5409.	3.2	97
5	The Importance of Excited-State Energy Alignment for Efficient Exciplex Systems Based on a Study of Phenylpyridinato Boron Derivatives. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12380-12384.	7.2	83
6	Green Synthesis of Polycyclic Benzimidazole Derivatives and Organic Semiconductors. <i>Organic Letters</i> , 2011, 13, 4882-4885.	2.4	76
7	A Unique Solution-Processable <i>n</i> -Type Semiconductor Material Design for High-Performance Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2015, 27, 141-147.	3.2	76
8	<i>syn</i> -/ <i>anti</i> -Anthradithiophene Derivative Isomer Effects on Semiconducting Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9670-9677.	4.0	65
9	A Solution-Processed Organic Thin-Film Transistor Backplane for Flexible Multiphoton Emission Organic Light-Emitting Diode Displays. <i>IEEE Electron Device Letters</i> , 2015, 36, 841-843.	2.2	56
10	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.	2.6	55
11	Novel Semiconducting Quinone for Air-Stable <i>n</i> -Type Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1303-1307.	4.0	50
12	Benzimidazole Derivatives: Synthesis, Physical Properties, and <i>n</i> -Type Semiconducting Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 11835-11846.	1.7	50
13	Anthraquinone derivatives affording <i>n</i> -type organic thin film transistors. <i>Chemical Communications</i> , 2009, , 2177.	2.2	49
14	Diindeno[1,2- <i>b</i> :2',1'- <i>n</i>]perylene: a closed shell related Chichibabin's hydrocarbon, the synthesis, molecular packing, electronic and charge transport properties. <i>Chemical Science</i> , 2015, 6, 3402-3409.	3.7	49
15	Low Amplified Spontaneous Emission Threshold from Organic Dyes Based on Bis-Stilbene. <i>Advanced Functional Materials</i> , 2018, 28, 1802130.	7.8	48
16	Low Amplified Spontaneous Emission Threshold and Efficient Electroluminescence from a Carbazole Derivatized Excited-State Intramolecular Proton Transfer Dye. <i>ACS Photonics</i> , 2018, 5, 4447-4455.	3.2	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 <i>syn</i> -/ <i>anti</i> -Anthradithiophene Derivatives. <i>Organic Letters</i> , 2012, 14, 4062-4065.	2.4	46

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19	Excitonâ€“Exciton Annihilation in Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Functional Materials</i> , 2020, 30, 2000580.	7.8	45
20	Excellent Semiconductors Based on Tetracenotetracene and Pentacenopentacene: From Stable Closed-Shell to Singlet Open-Shell. <i>Journal of the American Chemical Society</i> , 2019, 141, 9373-9381.	6.6	40
21	An Electronâ€“Accepting azaâ€“BODIPYâ€“Based Donorâ€“Acceptorâ€“Donor Architecture for Bright NIR Emission. <i>Chemistry - A European Journal</i> , 2021, 27, 5259-5267.	1.7	33
22	High performance organic field-effect transistors based on [2,2â€“bi[naphtho[2,3-b]thiophenyl] with a simple structure. <i>Journal of Materials Chemistry</i> , 2008, 18, 3442.	6.7	32
23	High Performance pâ€“and nâ€“Type Lightâ€“Emitting Fieldâ€“Effect Transistors Employing Thermally Activated Delayed Fluorescence. <i>Advanced Functional Materials</i> , 2018, 28, 1800340.	7.8	31
24	Solid cyclooctatetraene-based triplet quencher demonstrating excellent suppression of singletâ€“triplet annihilation in optical and electrical excitation. <i>Nature Communications</i> , 2020, 11, 5623.	5.8	31
25	Field-Effect Transistors Based on Tetraphenyldipyranilidenes and the Sulfur Analogues. <i>Chemistry of Materials</i> , 2009, 21, 4350-4352.	3.2	30
26	Simple Molecular-Engineering Approach for Enhancing Orientation and Outcoupling Efficiency of Thermally Activated Delayed Fluorescent Emitters without Red-Shifting Emission. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43842-43849.	4.0	30
27	Preparation, Characterization, and Field-effect Transistor Performance of Benzo[1,2- <i>d</i> :4,5- <i>d'</i>]bisthiazole Derivatives. <i>Chemistry Letters</i> , 2008, 37, 766-767.	0.7	28
28	Low Bandgap Bistetraceneâ€“Based Organic Semiconductors Exhibiting Air Stability, High Aromaticity and Mobility. <i>Chemistry - A European Journal</i> , 2017, 23, 5076-5080.	1.7	28
29	Excited State Dynamics of Thermally Activated Delayed Fluorescence from an Excited State Intramolecular Proton Transfer System. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3305-3312.	2.1	28
30	Highly Efficient Deepâ€“Blue Organic Lightâ€“Emitting Diodes Based on Rational Molecular Design and Device Engineering. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	27
31	Characterization of New Rubrene Analogues with Heteroaryl Substituents. <i>Crystal Growth and Design</i> , 2015, 15, 442-448.	1.4	26
32	Synthesis, Aromaticity, and Application of <i>peri</i> -Pentacenopentacene: Localized Representation of Benzenoid Aromatic Compounds. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	26
33	The Importance of Excitedâ€“State Energy Alignment for Efficient Exciplex Systems Based on a Study of Phenylpyridinato Boron Derivatives. <i>Angewandte Chemie</i> , 2018, 130, 12560-12564.	1.6	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. <i>Chemical Science</i> , 2020, 11, 12194-12205.	3.7	25
35	Charge transport, carrier balance, and blue electrophosphorescence in diphenyl[4-(triphenylsilyl)phenyl]phosphine oxide devices. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	24
36	Highly Efficient Nearâ€“Infrared Electrofluorescence from a Thermally Activated Delayed Fluorescence Molecule. <i>Angewandte Chemie</i> , 2021, 133, 8558-8563.	1.6	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. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9902-9909.	4.0	22
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.	5.8	22
39	High EQE and High Brightness Solution-Processed TADF Light-Emitting Transistors and OLEDs. <i>Advanced Optical Materials</i> , 2020, 8, 2000554.	3.6	21
40	Tailor-Made Multi-Resonance Terminal Emitters toward Narrowband, High-Efficiency, and Stable Hyperfluorescence Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	21
41	F8BT Oligomers for Organic Solid-State Lasers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28383-28391.	4.0	20
42	Realizing Near-Infrared Laser Dyes through a Shift in Excited-State Absorption. <i>Advanced Optical Materials</i> , 2021, 9, 2001947.	3.6	19
43	High-performance solution-processed red hyperfluorescent OLEDs based on cibalackrot. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4767-4774.	2.7	19
44	Low-Voltage and Hysteresis-Free N-Type Organic Thin Film Transistor and Complementary Inverter with Bilayer Gate Insulator. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 111504.	0.8	16
45	Synthesis of Semiconducting Polymers through Soluble Precursor Polymers with Thermally Removable Groups and Their Application to Organic Transistors. <i>ACS Macro Letters</i> , 2013, 2, 830-833.	2.3	15
46	Enhanced Energy Transfer in Doped Bifluorene Single Crystals: Prospects for Organic Lasers. <i>Advanced Optical Materials</i> , 2020, 8, 1901670.	3.6	14
47	Synthesis, crystal structure and charge transport characteristics of stable peri-tetracene analogues. <i>Chemical Science</i> , 2021, 12, 552-558.	3.7	14
48	Triclinic polymorph of dibenzotetrathiafulvalene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, o2083-o2083.	0.2	13
49	Low-Threshold Exciton-Polariton Condensation via Fast Polariton Relaxation in Organic Microcavities. <i>Advanced Optical Materials</i> , 2022, 10, 2102034.	3.6	13
50	Synthesis and solid-state polymerization of diacetylene derivatives directly substituted with a phenylcarbazole moiety. <i>Polymer Journal</i> , 2016, 48, 1013-1018.	1.3	10
51	Crystal structure and modeled charge carrier mobility of benzobis(thiadiazole) derivatives. <i>New Journal of Chemistry</i> , 2016, 40, 1403-1411.	1.4	10
52	Synthesis, crystal structure, and FET characteristics of thieno[2,3-b]thiophene-based bent-thienoacenes. <i>Tetrahedron Letters</i> , 2017, 58, 963-967.	0.7	10
53	Carbazole-2-carbonitrile as an acceptor in deep-blue thermally activated delayed fluorescence emitters for narrowing charge-transfer emissions. <i>Chemical Science</i> , 2022, 13, 7821-7828.	3.7	8
54	Synthesis and Thin-film Transistor Characterization of Narrow-gap n-Type Semiconducting Polymers Based on Benzobis(thiadiazole). <i>Chemistry Letters</i> , 2014, 43, 402-404.	0.7	7

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55	Synthesis and Solid-State Polymerization of Diacetylene Derivatives with an <i>N</i> -Carbazolylphenyl Group. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 843-849.	2.0	7
56	Surface Segregation of a Star-Shaped Polyhedral Oligomeric Silsesquioxane in a Polymer Matrix. <i>Langmuir</i> , 2020, 36, 9960-9966.	1.6	7
57	Amplified spontaneous emission from oligo(<i>p</i> -phenylenevinylene) derivatives. <i>Materials Advances</i> , 2021, 2, 3906-3914.	2.6	7
58	Unimolecular metastable decompositions of 1,1,1-trifluoroisopropyl methyl ether [CF ₃ (CH ₃)CHOCH ₃] upon electron ionization. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 503-506.	0.7	6
59	Organic Field-Effect Transistors Based on π -Extended Dibenzotetrathiafulvalene Analogues with Thiophene Spacers. <i>Bulletin of the Chemical Society of Japan</i> , 2010, 83, 575-581.	2.0	6
60	One-step, green synthesis of a supramolecular organogelator based on mellitic triimide for the recognition of aromatic compounds. <i>Chemical Communications</i> , 2017, 53, 8834-8837.	2.2	6
61	Numerical Study of Triplet Dynamics in Organic Semiconductors Aimed for the Active Utilization of Triplets by TADF under Continuous-Wave Lasing. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1323-1329.	2.1	6
62	Crystal Structure and Theoretical Investigation of Charge-transport Properties of Fullerene Derivatives. <i>Chemistry Letters</i> , 2016, 45, 1421-1424.	0.7	5
63	Advantages of naphthalene as a building block for organic solid state laser dyes: smaller energy gaps and enhanced stability. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4112-4118.	2.7	5
64	Synthesis and photochromic behaviour of a series of benzopyrans bearing an <i>N</i> -phenyl-carbazole moiety: photochromism control by the steric effect. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 1344-1355.	1.6	4
65	Low Light Amplification Threshold and Reduced Efficiency Roll-off in Thick Emissive Layer OLEDs from a Diketopyrrolopyrrole Derivative. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200115.	2.0	4
66	Cibalackrot Dendrimers for Hyperfluorescent Organic Light-Emitting Diodes. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200118.	2.0	4
67	Unimolecular Gas-Phase Reactions of Diethyl Phthalate, Isophthalate, and Terephthalate upon Electron Ionization. <i>Australian Journal of Chemistry</i> , 2003, 56, 473.	0.5	3
68	Synthesis of Narrow Bandgap Polymers based on Benzobis(thiadiazole) and their Application to Organic Transistor Devices. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2014, 27, 321-326.	0.1	2
69	Unimolecular Reactions of Diethyl Malonate Cation in Gas-phase. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2004, 52, 263-270.	0.0	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). <i>Advanced Functional Materials</i> , 2018, 28, 1870193.	7.8	1
71	Synthesis and Characterization of 5,5 ² -Bitetracene. <i>Chemistry Letters</i> , 2021, 50, 800-803.	0.7	1
72	Synthesis, crystal structure, tropicity and charge transport properties of diindenothienothiophene derivatives. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	1

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73	Invited Paper: A Chemical Structure Approach Enhancing Light Outcoupling of Dopant OLEDs and Internal Quantum Efficiency of Non-Dopant OLEDs Having Bluish TADF Emitters. Digest of Technical Papers SID International Symposium, 2019, 50, 470-473.	0.1	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.	0.0	0