Masaki Matsui

List of Publications by Year
in descending order

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		186265	197818
91	2,608	28	49
papers	citations	h-index	g-index

91	91	91	2792
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrodeposition of Inorganic/Organic Hybrid Thin Films. Advanced Functional Materials, 2009, 19, 17-43.	14.9	315
2	Synthesis and Fluorescence Properties of Thiazoleâ€“Boron Complexes Bearing a Î²-Ketoiminate Ligand. Organic Letters, 2012, 14, 4682-4685.	4.6	135
3	Synthesis and Fluorescence Properties of Novel Pyrazineâ€“Boron Complexes Bearing a Î²-Iminoketone Ligand. Organic Letters, 2011, 13, 6544-6547.	4.6	125
4	Novel thiophene-conjugated indolinedyes for zinc oxide solar cells. New Journal of Chemistry, 2009, 33, 93-101.	2.8	111
5	Synthesis and Fluorescence Properties of a Pyridometheneâ^'BF₂ Complex. Organic Letters, 2010, 12, 4010-4013.	4.6	106
6	Synthesis and Fluorescence Properties of Pyrimidine Mono- and Bisboron Complexes. Journal of Organic Chemistry, 2013, 78, 7058-7067.	3.2	100
7	The relationship between solid-state fluorescence intensity and molecular packing of coumarin dyes. Dyes and Pigments, 2009, 82, 258-267.	3.7	89
8	Strategy for the increasing the solid-state fluorescence intensity of pyrromethene–BF2 complexes. Tetrahedron Letters, 2010, 51, 6195-6198.	1.4	86
9	Degradation of Crystal violet by Nocardia corallina. Applied Microbiology and Biotechnology, 1993, 38, 565.	3.6	73
10	Strategy to enhance solid-state fluorescence and aggregation-induced emission enhancement effect in pyrimidine boron complexes. Dalton Transactions, 2015, 44, 3326-3341.	3.3	69
11	The use of indoline dyes in a zinc oxide dye-sensitized solar cell. Dyes and Pigments, 2009, 80, 233-238.	3.7	68
12	Solvatochromic Fluorescence Properties of Pyrazineâ€“Boron Complex Bearing a Î²-Iminoenolate Ligand. Journal of Physical Chemistry A, 2014, 118, 8717-8729.	2.5	65
13	Application of near-infrared absorbing heptamethine cyanine dyes as sensitizers for zinc oxide solar cell. Synthetic Metals, 2005, 148, 147-153.	3.9	64
14	Synthesis of a novel heptamethineâ€“cyanine dye for use in near-infrared active dye-sensitized solar cells with porous zinc oxide prepared at low temperature. Energy and Environmental Science, 2011, 4, 2186.	30.8	64
15	Organic dyes containing fluorene-substituted indoline core for zinc oxide dye-sensitized solar cell. RSC Advances, 2012, 2, 2721.	3.6	62
16	Highly efficient new indoline dye having strong electron-withdrawing group for zinc oxide dye-sensitized solar cell. Tetrahedron, 2011, 67, 6289-6293.	1.9	50
17	Substituent effects in a double rhodanine indoline dye on performance of zinc oxide dye-sensitized solar cell. Dyes and Pigments, 2010, 86, 143-148.	3.7	40
18	Dyeâ€fibre bond stabilities of dyeings of bifunctional reactive dyes containing a monochlorotriazine and a ÃŸâ€hydroxyethylsulphone sulphuric acid ester group. Coloration Technology, 1988, 104, 425-431.	0.1	39

#	Article	IF	Citations
19	Comparison of performance between benzoindoline and indoline dyes in zinc oxide dye-sensitized solar cell. Dyes and Pigments, 2011, 91, 145-152.	3.7	37
20	Synthesis, Fluorescence, and Photostabilities of 3â€(Perfluoroalkyl)coumarins. Chemische Berichte, 1992, 125, 467-471.	0.2	33
21	A new expedient route to 2,6â€diarylâ€3â€cyanoâ€4â€(trifluoromethyl)pyridines. Journal of Heterocyclic Chemistry, 1998, 35, 805-810.	2.6	33
22	Design and Synthesis of Near-infrared-active Heptamethineâ€“Cyanine Dyes to Suppress Aggregation in a Dye-sensitized Porous Zinc Oxide Solar Cell. Chemistry Letters, 2008, 37, 176-177.	1.3	33
23	Highly efficient substituted triple rhodanine indoline dyes in zinc oxide dye-sensitized solar cell. Tetrahedron, 2010, 66, 7405-7410.	1.9	33
24	Synthesis, Absorption, and Electrochemical Properties of Quinoid-Type Bisboron Complexes with Highly Symmetrical Structures. Organic Letters, 2015, 17, 3174-3177.	4.6	32
25	Optical Properties of Novel 2,3-Dicyano-5-methyl-6H-1,4-diazepine Dyes in the Solid State. Bulletin of the Chemical Society of Japan, 2005, 78, 1167-1173.	3.2	31
26	Near-infrared solid-state fluorescent naphthooxazine dyes attached with bulky dibutylamino and perfluoroalkenyloxy groups at 6- and 9-positions. Tetrahedron Letters, 2009, 50, 1131-1135.	1.4	31
27	Application of semisquaric acids as sensitizers for zinc oxide solar cell. Dyes and Pigments, 2006, 70, 48-53.	3.7	30
28	Negative solvatochromism of azo dyes derived from (dialkylamino)thiazole dimers. Chemical Communications, 2000, , 753-754.	4.1	28
29	Synthesis of near-infrared absorbing and fluorescing thiophene-fused BODIPY dyes with strong electron-donating groups and their application in dye-sensitised solar cells. New Journal of Chemistry, 2019, 43, 1156-1165.	2.8	28
30	Red solid-state fluorescent aminoperfluorophenazines. Tetrahedron Letters, 2009, 50, 5047-5049.	1.4	25
31	Solid-state fluorescence of squarylium dyes. Tetrahedron, 2012, 68, 1931-1935.	1.9	25
32	Synthesis, Absorption Spectra, and Photostability of Triarylmethane Dye Ethynylogues Containing Trifluoromethyl Group(s). Chemische Berichte, 1994, 127, 1627-1632.	0.2	24
33	Synthesis and Fluorescence Properties of Pyrimidineâ€Based Diboron Complexes with Donorâ€“Ïâ€“Acceptor Structures. Chemistry - A European Journal, 2016, 22, 1816-1824.	3.3	24
34	Synthesis, structure, and UVâ€“VIS absorption spectra of azo dyes derived from (dialkylamino)thiazole dimersâ€Šâ€. Perkin Transactions II RSC, 2001, , 379-387.	1.1	23
35	Substituent Effect of 2,3-Dicyanopyrazine Dyes on Solid-State Fluorescence. Bulletin of the Chemical Society of Japan, 2006, 79, 799-805.	3.2	22
36	Application of benz[c,d]indolenine-based unsymmetrical squaraine dyes to near-infrared dye-sensitized solar cells. Dyes and Pigments, 2017, 141, 457-462.	3.7	22

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37	Synthesis and photochemical reaction of 1,4â€dialkylâ€7â€oxaâ€2,3,5,6â€tetrakis(trifluoromethyl)bicycloheptaâ€2,5â€diene. Journal of Heterocyclic Chemistry, 1992, 29, 113-116.	2.6	21
38	Synthesis of 4,6â€disubstituted 2â€methylpyridines and their 3â€carboxamides. Journal of Heterocyclic Chemistry, 1993, 30, 277-281.	2.6	21
39	Wide-Range Near-Infrared Sensitizing 1H-Benzo[c,d]indol-2-ylidene-Based Squaraine Dyes for Dye-Sensitized Solar Cells. Journal of Organic Chemistry, 2018, 83, 4389-4401.	3.2	20
40	Synthesis of 3â€cyanoâ€2â€methylpyridines substituted with heteroaromatics. Journal of Heterocyclic Chemistry, 1991, 28, 161-165.	2.6	19
41	Synthesis of 2,5â€diethylâ€3,4â€bis(trifluoromethyl)furan and its derivatives. Journal of Heterocyclic Chemistry, 1991, 28, 225-229.	2.6	19
42	Synthesis and Properties of Novel Dichroic Disazo Dyes Containing the Tetrafluoro-p-phenylene Moiety for Guestâ^'Host Liquid Crystal Displays. Chemistry of Materials, 1998, 10, 1921-1930.	6.7	17
43	Fluorescence properties of indolenine semi-squarylium dyes. Tetrahedron, 2012, 68, 9936-9941.	1.9	17
44	Solid-state fluorescence of pyridinium styryl dyes. Dyes and Pigments, 2013, 99, 916-923.	3.7	17
45	Synthesis and fluorescence properties of novel squaryliumâ€“boron complexes. Organic Chemistry Frontiers, 2017, 4, 1522-1527.	4.5	17
46	UVâ€“vis absorption and fluorescence spectra, solvatochromism, and application to pH sensors of novel xanthene dyes having thienyl and thieno[3,2- b]thienyl rings as auxochrome. Dyes and Pigments, 2017, 139, 533-540.	3.7	17
47	Efficient and convenient entry to ÃŽÂ²-hydroxy-ÃŽÂ²-trifluoromethyl-ÃŽÂ²-substituted ketones and 2,6-disubstituted 4-trifluoromethylpyridines based on the reaction of trifluoromethyl ketones with enamines or imines. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 2578-2582.	1.3	15
48	Survey of Liquid Coumarin Dyes and Their Fluorescence Properties. Chemistry Letters, 2009, 38, 162-163.	1.3	15
49	X-ray Crystallography of D149 Ethyl Ester. Bulletin of the Chemical Society of Japan, 2010, 83, 709-711.	3.2	13
50	N-(2-Alkoxyphenyl)-substituted double rhodanine indoline dyes for zinc oxide dye-sensitized solar cell. Tetrahedron, 2012, 68, 4286-4291.	1.9	13
51	Application of novel N-(p-phenylene)-dicyanovinylidene double rhodanine indoline dye for zinc oxide dye-sensitized solar cell. Dyes and Pigments, 2013, 96, 614-618.	3.7	13
52	Performance of new single rhodanine indoline dyes in zinc oxide dye-sensitized solar cell. Solar Energy Materials and Solar Cells, 2014, 128, 313-319.	6.2	12
53	Application of indoline dyes attached with strongly electron-withdrawing carboxylated indan-1,3-dione analogues linked with a hexylthiophene ring to dye-sensitized solar cells. Tetrahedron, 2018, 74, 3498-3506.	1.9	12
54	Synthesis of near-infrared absorbing and fluorescent bis(pyrrol-2-yl)squaraines and their halochromic properties. Organic Chemistry Frontiers, 2021, 8, 6226-6243.	4.5	12

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55	Preparation and properties of polyacetylene membranes substituted with trifluoromethylated heterocyclic groups. Polymer Bulletin, 1992, 28, 293-299.	3.3	11
56	Liquid azo dyes. Dyes and Pigments, 2016, 125, 249-258.	3.7	11
57	Second-Order Optical Nonlinearity of Novel Methacrylate Polymer with Pendant Disazo Dye Chromophore Containing a Perfluorobutylsulfonyl Group. Polymer Journal, 1997, 29, 184-187.	2.7	10
58	A Direct, Concise, and Enantioselective Synthesis of 2â€Substituted 4,4,4â€Trifluorobutaneâ€1,3â€diols Based on the Organocatalytic In Situ Generation of Unstable Trifluoroacetaldehyde. Chemistry - an Asian Journal, 2015, 10, 2701-2707.	3.3	10
59	Fluorescence Spectra of 6-Substituted 2,3-Dicyano-5-[4-(diethylamino)styryl]-7-methyl-6H-1,4-diazepines in Solid State. Chemistry Letters, 2004, 33, 170-171.	1.3	9
60	Survey, fluorescence spectra, and solubility of liquid cyanine dyes. New Journal of Chemistry, 2016, 40, 10187-10196.	2.8	8
61	Fluorescence properties of novel 6-butyl-2,3-dicyano-7-methyl-6H-1,4-diazepine styryl dyes containing ethyleneglycol units. Tetrahedron, 2010, 66, 9396-9400.	1.9	7
62	Effects of the alkyl group in (dialkylamino)perfluorophenazines on the melting point and fluorescence properties. RSC Advances, 2014, 4, 59387-59396.	3.6	7
63	Structure identification of Ti(<scp>iv</scp>) clusters in low-temperature TiO₂ crystallization: creating high-surface area brush-shaped rutile TiO₂. CrystEngComm, 2017, 19, 5844-5848.	2.6	7
64	Application of indoline dyes having a carboxylated 1,3-indandione ring linked with thienyl or hexylthienyl ring to dye-sensitized solar cells. Dyes and Pigments, 2017, 147, 50-55.	3.7	7
65	Simple and Efficient Generation ofÎ±-Fluoromalonaldehyde from Fluorinated Enol Sulfonate and Its Reaction with Acyl Chlorides Leading to (Z)-Î²-Acyloxy-Î±-fluoroacrylaldehydesâ€. Journal of Organic Chemistry, 2000, 65, 606-609.	3.2	6
66	Liquid 2-Pyridinium Styryl Dyes having Oxaalkyl Units. Journal of the Japan Society of Colour Material, 2014, 87, 187-191.	0.1	5
67	Preparation and properties of silicate particles covalently bonded with phenolphthalein. Dyes and Pigments, 2015, 113, 274-279.	3.7	5
68	Effects of alkyl-, polyfluoroalkyl-, and perfluoroalkyl carboxylic acids on the performance of D205 in dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 348, 134-138.	3.9	5
69	Survey of co-adsorbent for DN350 in zinc oxide dye-sensitized solar cell. Dyes and Pigments, 2013, 99, 829-832.	3.7	4
70	Solid-state fluorescence of 6-aryl-9-(dibutylamino)benzo[a]phenoxazin-5-ones. Tetrahedron, 2013, 69, 3410-3414.	1.9	4
71	Application of novel triarylmethane dyes having thienyl, thieno[3,2-b]thienyl, and dithieno[3,2-b:2â€²,3â€²-d]thienyl rings as auxochromes to super acid pH sensors. RSC Advances, 2016, 6, 16759-16765.	3.6	4
72	Ozone fading of phenolphthalein and aurin. Coloration Technology, 1988, 104, 482-486.	0.1	3

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73	Asymmetric synthesis of (Î±S)-polyfluoroalkylated N-Boc-prolinols by the diethyl zinc-induced asymmetric Meerweinâ€“Ponndorfâ€“Verley reduction of perfluoroalkyl N-Boc-pyrrolidyl ketones. Organic Chemistry Frontiers, 2015, 2, 369-371.	4.5	3
74	OZONATION OF ANTHRAQUINONES. Journal of Fiber Science and Technology, 1984, 40, T402-T405.	0.0	3
75	Second-Order Optical Nonlinearities in Perfluoroalkylsulfonyl Substituted Azo Dyes. Molecular Crystals and Liquid Crystals, 1995, 267, 83-88.	0.3	2
76	TiO2-photocatalyzed Reaction of Azobenzenes to Form 3, 4-Diaryl-1, 3, 4-oxadiazolidines. Journal of the Japan Society of Colour Material, 2002, 75, 106-110.	0.1	2
77	Electronic States of a 2,3-Dicyanopyrazine Dye in Vacuum-deposited Films. Molecular Crystals and Liquid Crystals, 2007, 472, 105/[495]-112/[502].	0.9	2
78	Novel indoline dye tetrabutylammonium carboxylates attached with a methyl group on the cyclopentane ring for dye-sensitized solar cells. Tetrahedron, 2018, 74, 5867-5878.	1.9	2
79	OZONATION OF DYES. Journal of Fiber Science and Technology, 1981, 37, T381-T383.	0.0	2
80	Synthesis and fluorescence properties of unsymmetrical 1,4-dihydropyrrolo[3,2-b]pyrrole dyes. New Journal of Chemistry, 2022, 46, 1533-1542.	2.8	2
81	Controlled Assembly of Nanorod TiO2 Crystals via a Sintering Process: Photoanode Properties in Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2017, 2017, 1-8.	2.5	1
82	THE INITIAL OZONATION PRODUCTS OF AURAMINE O IN WATER. Journal of Fiber Science and Technology, 1983, 39, T133-T136.	0.0	1
83	Polyfunctional Thiazolylazo Second-order Nonlinear Optical Chromophores. Journal of the Japan Society of Colour Material, 1999, 72, 150-155.	0.1	0
84	Temporal Stability of Azo Secondorder Nonlinear Optical Chromophores Linked with Perfluorocyclopentenyl Moiety. Journal of the Japan Society of Colour Material, 1999, 72, 489-493.	0.1	0
85	Synthesis of 2-Aryl-2H-indazoles by TiO2-Photocatalyzed Reaction of Alkoxyazobenzenes. Journal of the Japan Society of Colour Material, 2002, 75, 61-65.	0.1	0
86	Preparation of 2-Alkyiquinolines by TiO2-photocatalyzed Reaction of Arylamines in Alcohols. Journal of the Japan Society of Colour Material, 2002, 75, 319-323.	0.1	0
87	Technical Note: 100% Ozone-treatment System of Bath Water. Ozone: Science and Engineering, 2003, 25, 345-349.	2.5	0
88	MCMâ€41â€Supported Linear Alkylamineâ€Catalyzed In Situ Generation of Unstable Trifluoroacetaldehyde and Successive synâ€Selective Direct Aldol Reaction with Cyclic Ketones. ChemistrySelect, 2017, 2, 6673-6682.	1.5	0
89	Polymethine Dyes. , 2021, , 3-19.		0
90	DECOLORING OF WATER-SOLUBLE AZO DYES BY OZONE. Journal of Fiber Science and Technology, 1978, 34, T181-T186.	0.0	0

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91	Relationship between Crystal Packing and Solid-State Fluorescence Quantum Yield in Pyrazine Monoboron Complexes. Journal of the Japan Society of Colour Material, 2020, 93, 288-291.	0.1	0