Tadashi EMA

List of Publications by Year
in descending order

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103 papers	5,885 citations	70961 41 h-index	79541 73 g-index
104 all docs	104 docs citations	104 times ranked	4991 citing authors

#	Article	IF	Citations
1	Ruthenium Complexes Bearing Axially Chiral Bipyridyls: The Mismatched Diastereomer Showed Red Circularly Polarized Phosphorescence. Chemistry - A European Journal, 2022, 28, .	1.7	10
2	Deoxygenative CO₂ conversions with triphenylborane and phenylsilane in the presence of secondary amines or nitrogen-containing aromatics. Green Chemistry, 2022, 24, 2385-2390.	4.6	12
3	Binaphthylâ€Bridged Pyrenophanes: Intense Circularly Polarized Luminescence Based on aD₂Symmetry Strategy. Angewandte Chemie, 2022, 134, .	1.6	6
4	Binaphthylâ€Bridged Pyrenophanes: Intense Circularly Polarized Luminescence Based on aD₂Symmetry Strategy. Angewandte Chemie - International Edition, 2022, 61, .	7.2	30
5	C-Methylenation of anilines and indoles with CO₂ and hydrosilane using a pentanuclear zinc complex catalyst. Chemical Communications, 2021, 57, 8083-8086.	2.2	17
6	Circularly Polarized Luminescence Liquids Based on Siloxybinaphthyls: Best Binaphthyl Dihedral Angle in the Excited State. Angewandte Chemie, 2021, 133, 10056-10060.	1.6	18
7	Circularly Polarized Luminescence Liquids Based on Siloxybinaphthyls: Best Binaphthyl Dihedral Angle in the Excited State. Angewandte Chemie - International Edition, 2021, 60, 9968-9972.	7.2	43
8	Enhancement of protein thermostability by three consecutive mutations using loop-walking method and machine learning. Scientific Reports, 2021, 11, 11883.	1.6	13
9	Facile Synthesis of Azahelicenes and Diaza[8]circulenes through the Intramolecular Scholl Reaction. Chemistry - A European Journal, 2021, 27, 15699-15705.	1.7	15
10	Chiral exciplex dyes showing circularly polarized luminescence: extension of the excimer chirality rule. Chemical Science, 2021, 12, 14570-14576.	3.7	19
11	Macrocyclic multinuclear metal complexes acting as catalysts for organic synthesis. Catalysis Science and Technology, 2020, 10, 12-34.	2.1	34
12	Solvent-Induced Sign Inversion of Circularly Polarized Luminescence: Control of Excimer Chirality by Hydrogen Bonding. Journal of the American Chemical Society, 2020, 142, 1774-1779.	6.6	157
13	Synthesis and Chiroptical Properties of Chiral Carbazoleâ€Based BODIPYs. Chemistry - A European Journal, 2020, 26, 4261-4268.	1.7	23
14	Synthesis and electronic properties of carbazole-based core-modified diporphyrins showing near infrared absorption. Chemical Communications, 2020, 56, 15048-15051.	2.2	5
15	Tetrameric and Hexameric Porphyrin Nanorings: Template Synthesis and Photophysical Properties. Journal of the American Chemical Society, 2020, 142, 15661-15666.	6.6	37
16	Aluminum porphyrins with quaternary ammonium halides as catalysts for copolymerization of cyclohexene oxide and CO₂: metalâ€“ligand cooperative catalysis. Chemical Science, 2020, 11, 5669-5675.	3.7	54
17	Azaheliceneâ€Fused BODIPY Analogues Showing Circularly Polarized Luminescence. Angewandte Chemie - International Edition, 2020, 59, 7813-7817.	7.2	102
18	Azaheliceneâ€Fused BODIPY Analogues Showing Circularly Polarized Luminescence. Angewandte Chemie, 2020, 132, 7887-7891.	1.6	36

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19	Synthesis of silyl formates, formamides, and aldehydes via solvent-free organocatalytic hydrosilylation of CO2. Chemical Communications, 2020, 56, 5783-5786.	2.2	37
20	Aggregationâ€Induced Circularly Polarized Luminescence from Boron Complexes with a Carbazolyl Schiff Base. Chemistry - A European Journal, 2020, 26, 13016-13021.	1.7	23
21	Frontispiece: Synthesis and Chiroptical Properties of Chiral Carbazoleâ€Based BODIPYs. Chemistry - A European Journal, 2020, 26, .	1.7	0
22	Minimization of Amounts of Catalyst and Solvent in NHC-Catalyzed Benzoin Reactions of Solid Aldehydes: Mechanistic Consideration of Solid-to-Solid Conversion and Total Synthesis of Isodarparvinol B. ACS Omega, 2020, 5, 10207-10216.	1.6	14
23	Axially Chiral peri-Xanthenoxanthenes as a Circularly Polarized Luminophore. Journal of the American Chemical Society, 2019, 141, 11852-11857.	6.6	72
24	Synthesis and electronic properties of Ï€-expanded carbazole-based porphyrins. Chemical Communications, 2019, 55, 10162-10165.	2.2	12
25	Chiroptical and catalytic properties of doubly binaphthyl-strapped chiral porphyrins. Chemical Communications, 2019, 55, 1064-1067.	2.2	45
26	Unexpected Macrocyclic Multinuclear Zinc and Nickel Complexes that Function as Multitasking Catalysts for CO₂ Fixations. Angewandte Chemie, 2019, 131, 10089-10093.	1.6	8
27	Unexpected Macrocyclic Multinuclear Zinc and Nickel Complexes that Function as Multitasking Catalysts for CO₂ Fixations. Angewandte Chemie - International Edition, 2019, 58, 9984-9988.	7.2	55
28	Evolving Fluorophores into Circularly Polarized Luminophores with a Chiral Naphthalene Tetramer: Proposal of Excimer Chirality Rule for Circularly Polarized Luminescence. Journal of the American Chemical Society, 2019, 141, 6185-6190.	6.6	142
29	Chiral Bifunctional Metalloporphyrin Catalysts for Kinetic Resolution of Epoxides with Carbon Dioxide. Organic Letters, 2019, 21, 1853-1856.	2.4	26
30	Hemisquaramide Tweezers as Organocatalysts: Synthesis of Cyclic Carbonates from Epoxides and CO₂. Organic Letters, 2019, 21, 1397-1401.	2.4	66
31	Synthesis of chiral carbazole-based BODIPYs showing circularly polarized luminescence. Chemical Communications, 2019, 55, 3136-3139.	2.2	42
32	Binaphthylâ€“Bipyridyl Cyclic Dyads as a Chiroptical Switch. Journal of the American Chemical Society, 2018, 140, 5334-5338.	6.6	155
33	Intense excimer CPL of pyrenes linked to a quaternaphthyl. Chemical Communications, 2018, 54, 1449-1452.	2.2	77
34	Cross-Coupling Approach to an Array of Macrocyclic Receptors Functioning as Chiral Solvating Agents. Journal of Organic Chemistry, 2018, 83, 10762-10769.	1.7	22
35	Calix[4]pyrroles as macrocyclic organocatalysts for the synthesis of cyclic carbonates from epoxides and carbon dioxide. Catalysis Science and Technology, 2018, 8, 4193-4198.	2.1	40
36	Electronic Tuning of Zinc Porphyrin Catalysts for the Conversion of Epoxides and Carbon Dioxide into Cyclic Carbonates. ChemCatChem, 2017, 9, 946-949.	1.8	54

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37	Synthesis of carbazole-based BODIPY dimers showing red fluorescence in the solid state. Organic and Biomolecular Chemistry, 2017, 15, 9283-9287.	1.5	24
38	Palladium Complexes of Carbazoleâ€Based Chalcogenaisophlorins: Synthesis, Structure, and Solidâ€State NIR Absorption Spectra. ChemPlusChem, 2017, 82, 1368-1371.	1.3	9
39	Synthetically useful variants of industrial lipases from Burkholderia cepacia and Pseudomonas fluorescens. Organic and Biomolecular Chemistry, 2017, 15, 8713-8719.	1.5	3
40	Chiral Macrocyclic Organocatalysts for Kinetic Resolution of Disubstituted Epoxides with Carbon Dioxide. Organic Letters, 2017, 19, 4070-4073.	2.4	53
41	Carbazole-based BODIPYs with ethynyl substituents at the boron center: solid-state excimer fluorescence in the VIS/NIR region. Organic and Biomolecular Chemistry, 2017, 15, 7783-7788.	1.5	22
42	Palladium Complexes of Carbazole-Based Chalcogenaisophlorins: Synthesis, Structure, and Solid-State NIR Absorption Spectra. ChemPlusChem, 2017, 82, 1367-1367.	1.3	0
43	Theoretical Study on Highly Active Bifunctional Metalloporphyrin Catalysts for the Coupling Reaction of Epoxides with Carbon Dioxide. Chemical Record, 2016, 16, 2260-2267.	2.9	29
44	Colorâ€Tunable Solidâ€State Fluorescence Emission from Carbazoleâ€Based BODIPYs. Chemistry - A European Journal, 2016, 22, 7508-7513.	1.7	44
45	Intramolecular Electronic Coupling in the Thiophene-Bridged Carbazole-Based Diporphyrin. Organic Letters, 2016, 18, 6070-6073.	2.4	16
46	Solvent-Free Benzoin and Stetter Reactions with a Small Amount of NHC Catalyst in the Liquid or Semisolid State. Organic Letters, 2016, 18, 5764-5767.	2.4	36
47	Highly Active and Robust Metalloporphyrin Catalysts for the Synthesis of Cyclic Carbonates from a Broad Range of Epoxides and Carbon Dioxide. Chemistry - A European Journal, 2016, 22, 6556-6563.	1.7	176
48	Determination of enantiomeric excess of carboxylates by fluorescent macrocyclic sensors. Chemical Science, 2016, 7, 2016-2022.	3.7	65
49	Chemical Modification of Lipase for Rational Enhancement of Enantioselectivity. Chemistry Letters, 2015, 44, 1374-1376.	0.7	16
50	Carbazole-Based Boron Dipyrromethenes (BODIPYs): Facile Synthesis, Structures, and Fine-Tunable Optical Properties. Organic Letters, 2015, 17, 3090-3093.	2.4	53
51	Quaternary ammonium hydroxide as a metal-free and halogen-free catalyst for the synthesis of cyclic carbonates from epoxides and carbon dioxide. Catalysis Science and Technology, 2015, 5, 2314-2321.	2.1	107
52	Bifunctional Catalysts Based on mâ€Phenyleneâ€Bridged Porphyrin Dimer and Trimer Platforms: Synthesis of Cyclic Carbonates from Carbon Dioxide and Epoxides. Angewandte Chemie - International Edition, 2015, 54, 134-138.	7.2	273
53	Recent progress in catalytic conversions of carbon dioxide. Catalysis Science and Technology, 2014, 4, 1482.	2.1	463
54	Bifunctional Porphyrin Catalysts for the Synthesis of Cyclic Carbonates from Epoxides and CO₂: Structural Optimization and Mechanistic Study. Journal of the American Chemical Society, 2014, 136, 15270-15279.	6.6	404

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55	Synergistic effect of quaternary ammonium hydroxide and crown ether on the rapid and clear dissolution of cellulose at room temperature. RSC Advances, 2014, 4, 2523-2525.	1.7	34
56	Selective Anion Sensing by Chiral Macrocyclic Receptors with Multiple Hydrogen-Bonding Sites. Organic Letters, 2014, 16, 1302-1305.	2.4	48
57	Unexpected Behavior of Diastereomeric Ions in the GasPhase: A Stimulus for Pondering on ee Measurements by ESI-MS. Journal of the American Society for Mass Spectrometry, 2013, 24, 573-578.	1.2	7
58	Robust porphyrin catalysts immobilized on biogenous iron oxide for the repetitive conversions of epoxides and CO2 into cyclic carbonates. Green Chemistry, 2013, 15, 2485.	4.6	95
59	Multifunctional Macrocyclic Receptors as Templates for Aromatic Amino Acids: A Rare Example of a Highly Selective Multiâ€Input Multiâ€Output Chemoâ€â€œLogic Gateâ€• ChemPlusChem, 2013, 78, 979-987.	1.3	6
60	Molecular Recognition of Chiral Diporphyrin Receptor with a Macrocyclic Cavity for Intercalation of Aromatic Compounds. Bulletin of the Chemical Society of Japan, 2012, 85, 101-109.	2.0	19
61	Synthetic macrocyclic receptors in chiral analysis and separation. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2012, 74, 41-55.	1.6	33
62	Construction of Contiguous Tetrasubstituted Carbon Stereocenters by Intramolecular Crossed Benzoin Reactions Catalyzed by Nâ€Heterocyclic Carbene (NHC) Organocatalyst. Advanced Synthesis and Catalysis, 2012, 354, 3283-3290.	2.1	46
63	Redesign of enzyme for improving catalytic activity and enantioselectivity toward poor substrates: manipulation of the transition state. Organic and Biomolecular Chemistry, 2012, 10, 6299.	1.5	55
64	A bifunctional catalyst for carbon dioxide fixation: cooperative double activation of epoxides for the synthesis of cyclic carbonates. Chemical Communications, 2012, 48, 4489.	2.2	268
65	Biogenous iron oxide-immobilized palladium catalyst for the solvent-free Suzukiâ€“Miyaura coupling reaction. Tetrahedron Letters, 2012, 53, 329-332.	0.7	53
66	Chiral porphyrin dimer with a macrocyclic cavity for intercalation of aromatic guests. Chemical Communications, 2011, 47, 6090.	2.2	54
67	Highly active lipase immobilized on biogenous iron oxide via an organic bridging group: the dramatic effect of the immobilization support on enzymatic function. Green Chemistry, 2011, 13, 3187.	4.6	43
68	Chemoenzymatic synthesis of optically active alcohol and Î²-amino-acid derivative containing the difluoromethylene group. Journal of Molecular Catalysis B: Enzymatic, 2010, 66, 198-202.	1.8	12
69	Bifunctional Organocatalyst for Activation of Carbon Dioxide and Epoxide To Produce Cyclic Carbonate: Betaine as a New Catalytic Motif. Organic Letters, 2010, 12, 5728-5731.	2.4	153
70	Chemical modification of biogenous iron oxide to create an excellent enzyme scaffold. Organic and Biomolecular Chemistry, 2010, 8, 336-338.	1.5	41
71	Synthesis and Evaluation of Chiral Selectors with Multiple Hydrogen-Bonding Sites in the Macrocyclic Cavities. Journal of Organic Chemistry, 2010, 75, 4492-4500.	1.7	31
72	Rational creation of mutant enzyme showing remarkable enhancement of catalytic activity and enantioselectivity toward poor substrates. Chemical Communications, 2010, 46, 5440.	2.2	27

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73	Empirical method for predicting enantioselectivity in catalytic reactions: demonstration with lipase and oxazaborolidine. Tetrahedron, 2009, 65, 9583-9591.	1.0	15
74	Stereoselective Synthesis of Bicyclic Tertiary Alcohols with Quaternary Stereocenters via Intramolecular Crossed Benzoin Reactions Catalyzed by N-Heterocyclic Carbenes. Organic Letters, 2009, 11, 4866-4869.	2.4	81
75	Highly Efficient Chemoenzymatic Synthesis of Methyl (R)â€oâ€Chloromandelate, a Key Intermediate for Clopidogrel, via Asymmetric Reduction with Recombinant Escherichia coli. Advanced Synthesis and Catalysis, 2008, 350, 2039-2044.	2.1	99
76	Lipase-catalyzed dynamic kinetic resolution giving optically active cyanohydrins: use of silica-supported ammonium hydroxide and porous ceramic-immobilized lipase. Tetrahedron, 2008, 64, 2178-2183.	1.0	33
77	Tuning the Chiral Cavity of Macrocyclic Receptor for Chiral Recognition and Discrimination. Journal of Organic Chemistry, 2008, 73, 9129-9132.	1.7	48
78	Biomimetic trifunctional organocatalyst showing a great acceleration for the transesterification between vinyl ester and alcohol. Chemical Communications, 2008, , 957.	2.2	36
79	Highly active and robust organicâ€“inorganic hybrid catalyst for the synthesis of cyclic carbonates from carbon dioxide and epoxides. Green Chemistry, 2008, 10, 337.	4.6	169
80	Hydrolase-catalyzed Kinetic Resolution of 5-[4-(1-Hydroxyethyl)phenyl]-10,15,20-tris(pentafluorophenyl)porphyrin in Ionic Liquids. Chemistry Letters, 2008, 37, 90-91.	0.7	11
81	Highly enantioselective and efficient synthesis of methyl (R)-o-chloromandelate with recombinant E. coli: toward practical and green access to clopidogrel. Organic and Biomolecular Chemistry, 2007, 5, 1175.	1.5	55
82	Versatile and Practical Macrocyclic Reagent with Multiple Hydrogen-Bonding Sites for Chiral Discrimination in NMR. Journal of the American Chemical Society, 2007, 129, 10591-10596.	6.6	170
83	Versatile and Practical Chiral Shift Reagent with Hydrogen-Bond Donor/Acceptor Sites in a Macrocyclic Cavity. Organic Letters, 2006, 8, 3773-3775.	2.4	74
84	Synthesis of molecular tweezers bearing pentafluorophenyl and several pendant aryl groups. Journal of Fluorine Chemistry, 2006, 127, 604-609.	0.9	18
85	Asymmetric reduction of ketones using recombinant E. coli cells that produce a versatile carbonyl reductase with high enantioselectivity and broad substrate specificity. Tetrahedron, 2006, 62, 6143-6149.	1.0	79
86	Kinetic resolution of 5-(hydroxymethyl)-3-phenyl-2-isoxazoline by using the â€˜low-temperature methodâ€™ with porous ceramic-immobilized lipase. Tetrahedron: Asymmetry, 2005, 16, 1535-1539.	1.8	12
87	Asymmetric reduction of a variety of ketones with a recombinant carbonyl reductase: identification of the gene encoding a versatile biocatalyst. Tetrahedron: Asymmetry, 2005, 16, 1075-1078.	1.8	36
88	Synthesis of a Molecular Tweezer Containing Pentafluorophenyl Groups and Investigation of the Ï€â€“Ï€ Stacking Interaction for a Pentafluorophenyl Group in a Polar Organic Solvent. Bulletin of the Chemical Society of Japan, 2005, 78, 2175-2179.	2.0	25
89	Rational control of enantioselectivity of lipase by site-directed mutagenesis based on the mechanism. Chemical Communications, 2005, , 4650.	2.2	35
90	Highly Sensitive Chiral Shift Reagent Bearing Two Zinc Porphyrins. Organic Letters, 2005, 7, 3985-3988.	2.4	57

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91	Suzukiâ^'Miyaura Coupling Reaction Using Pentafluorophenylboronic Acid. Organic Letters, 2005, 7, 4915-4917.	2.4	116
92	Lipase-Catalyzed Resolution of (2R*,3S*)- and (2R*,3R*)-3-Methyl-3-phenyl-2-aziridinemethanol at Low Temperatures and Determination of the Absolute Configurations of the Four Stereoisomers. Journal of Organic Chemistry, 2005, 70, 1369-1375.	1.7	33
93	The effect of temperature on the lipase-catalyzed asymmetric protonation of 1-acetoxy-2-methylcyclohexene giving (R)-2-methylcyclohexanone. Tetrahedron: Asymmetry, 2004, 15, 1929-1932.	1.8	21
94	Rational strategies for highly enantioselective lipase-catalyzed kinetic resolutions of very bulky chiral compounds: substrate design and high-temperature biocatalysis. Tetrahedron: Asymmetry, 2004, 15, 2765-2770.	1.8	68
95	Reestimation of the Taft's Substituent Constant of the Pentafluorophenyl Group. Journal of Organic Chemistry, 2004, 69, 7340-7343.	1.7	20
96	Synthesis of Enantiomerically Pure (R,R)- and (S,S)-1,2-Bis(pentafluorophenyl)ethane-1,2-diamine and Evaluation of the pKaValue by Ab Initio Calculations. Bulletin of the Chemical Society of Japan, 2004, 77, 1001-1008.	2.0	18
97	Transition-state models are useful for versatile biocatalysts: kinetics and thermodynamics of enantioselective acylations of secondary alcohols catalyzed by lipase and subtilisin. Journal of Molecular Catalysis B: Enzymatic, 2003, 22, 181-192.	1.8	32
98	Highly enantioselective lipase-catalyzed reactions at high temperatures up to 120Â°C in organic solvent. Tetrahedron: Asymmetry, 2003, 14, 3943-3947.	1.8	24
99	Intermolecular oxygen atomâ‹¯Ï€ interaction in the crystal packing of chiral amino alcohol bearing a pentafluorophenyl group. Journal of Fluorine Chemistry, 2003, 122, 201-205.	0.9	40
100	Practical Resolution of 3-Phenyl-2H-azirine-2-methanol at Very Low Temperature by Using Lipase Immobilized on Porous Ceramic and Optimized Acylating Agent. Bulletin of the Chemical Society of Japan, 2003, 76, 1819-1821.	2.0	20
101	Enhancement of the Efficiency of the Low Temperature Method for Kinetic Resolution of Primary Alcohols by Optimizing the Organic Bridges in Porous Ceramic-Immobilized Lipase. Bulletin of the Chemical Society of Japan, 2003, 76, 1441-1446.	2.0	29
102	5-[4-(1-Hydroxyethyl)phenyl]-10,15,20-triphenylporphyrin as a Probe of the Transition-State Conformation in Hydrolase-Catalyzed Enantioselective Transesterifications. Journal of Organic Chemistry, 2002, 67, 2144-2151.	1.7	22
103	High Enantioselectivity and Broad Substrate Specificity of a Carbonyl Reductase:Â Toward a Versatile Biocatalyst. Journal of Organic Chemistry, 2001, 66, 8682-8684.	1.7	50