Rainer Mahrwald

List of Publications by Year
in descending order

80	2,805	172386	182361
papers	citations	29 h-index	51 g-index

100	100	100	2582
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transient Rotamerism and Photoisomerization Dynamics of trans- and cis-Naphthylstilbene. Journal of Physical Chemistry B, 2020, 124, 1049-1064.	1.2	7
2	Matched/Mismatched Cases in Proline-Catalyzed Cascade Reactions with Carbohydrates: A Computational Insight into the Role of <scp>d</scp>- and <scp>l</scp>-Proline. Journal of Organic Chemistry, 2019, 84, 1201-1217.	1.7	5
3	Rotamer-Specific Photoisomerization of Difluorostilbenes from Transient Absorption and Transient Raman Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 1049-1059.	1.2	15
4	Photoisomerization pathways and Raman activity of 1,1â€²-difluorostilbene. Journal of Chemical Physics, 2017, 146, 044501.	1.2	10
5	Tuning Stilbene Photochemistry by Fluorination: State Reordering Leads to Sudden Polarization near the Franckâ€“Condon Region. Journal of the American Chemical Society, 2017, 139, 15265-15274.	6.6	23
6	Effect of a Tertiary Butyl Group on Polar Solvation Dynamics in Aqueous Solution: Femtosecond Fluorescence Spectroscopy. Journal of Physical Chemistry B, 2017, 121, 9631-9638.	1.2	13
7	Cascade Reactions of Unprotected Ketoses with Ketones â€“ A Stereoselective Access to Câ€Glycosides. European Journal of Organic Chemistry, 2016, 2016, 5309-5320.	1.2	7
8	Amine-Catalyzed Cascade Reactions of Unprotected Aldosesâ€”An Operationally Simple Access to Defined Configured Stereotetrads or Stereopentads. ACS Catalysis, 2016, 6, 5549-5552.	5.5	9
9	Logic of organic chemistry. ChemTexts, 2016, 2, 1.	1.0	1
10	Decarboxylative Cascade Reactions of Dihydroxyfumaric Acid: AÂPreparative Approach to the Glyoxylate Scenario. Organic Letters, 2016, 18, 2950-2953.	2.4	2
11	Operationally Simple and Selective One-Pot Synthesis of Hydroxyphenones: A Facile Access to SNARF Dyes. Synthesis, 2016, 48, 1217-1225.	1.2	3
12	Î²â€Carotene Revisited by Transient Absorption and Stimulated Raman Spectroscopy. ChemPhysChem, 2015, 16, 3824-3835.	1.0	18
13	Organocatalyzed Glycosylation Reactions of Carbohydrates. Springer Briefs in Molecular Science, 2015, , 67-93.	0.1	0
14	Amine-catalyzed cascade reactions of ketoses with 1,3-dicarbonyl compounds. RSC Advances, 2015, 5, 45571-45574.	1.7	13
15	The long underestimated carbonyl function of carbohydrates â€“ an organocatalyzed shot into carbohydrate chemistry. Chemical Communications, 2015, 51, 13868-13877.	2.2	23
16	Chemoenzymatic Synthesis of Vitamin B5-Intermediate (R)-Pantolactone via Combined Asymmetric Organo- and Biocatalysis. Journal of Organic Chemistry, 2015, 80, 3387-3396.	1.7	27
17	Multicomponent Cascade Reactions of Unprotected Carbohydrates and Amino Acids. Organic Letters, 2015, 17, 2606-2609.	2.4	35
18	Amine-Catalyzed Cascade Reactions of Unprotected and UnactivatedÂ-Carbohydrates: Direct Access to C-Glycosides. Synthesis, 2015, 47, 2249-2255.	1.2	16

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19	Dual-fluorescence pH probe for bio-labelling. Physical Chemistry Chemical Physics, 2015, 17, 30590-30597.	1.3	22
20	Multicomponent Cascade Reactions of Unprotected Ketoses and Amino Acids â€“ Access to a Defined Configured Quaternary Stereogenic Center. Journal of Organic Chemistry, 2015, 80, 10849-10865.	1.7	6
21	Direct One-Pot Synthesis of Nucleosides from Unprotected or 5-O-Monoprotected <scp>d</scp>-Ribose. Organic Letters, 2015, 17, 4604-4607.	2.4	32
22	Total Synthesis of Carbohydrates. Springer Briefs in Molecular Science, 2015, , 7-34.	0.1	0
23	Photoisomerization Dynamics of Stiff-Stilbene in Solution. Journal of Physical Chemistry B, 2014, 118, 1389-1402.	1.2	64
24	Organocatalyzed cascade reactions of carbohydrates â€“ a direct access to C-glycosides. Chemical Communications, 2014, 50, 817-819.	2.2	22
25	Four into One: Organocatalyzed Stereoselective Conjugate Addition of Unprotected and Unactivated Carbohydrates. Organic Letters, 2014, 16, 5474-5477.	2.4	12
26	Observing the Hydration Layer of Trehalose with a Linked Molecular Terahertz Probe. Journal of Physical Chemistry Letters, 2014, 5, 1845-1849.	2.1	35
27	Retropinacol/Cross-pinacol Coupling Reactions - A Catalytic Access to 1,2-Unsymmetrical Diols. Journal of Visualized Experiments, 2014, , .	0.2	0
28	Recent Advances in Organocatalytic Methods for Asymmetric Cï£¿C Bond Formation. Chemistry - A European Journal, 2013, 19, 14346-14396.	1.7	194
29	Organocatalytic methods for CC bond formation. Drug Discovery Today: Technologies, 2013, 10, e29-e36.	4.0	15
30	Decarboxylative Mannich Reactions. European Journal of Organic Chemistry, 2013, 2013, 1046-1049.	1.2	20
31	Organocatalyzed Knoevenagel-additionâ€”simple access to carbon chain-elongated branched carbohydrates. Tetrahedron, 2013, 69, 4302-4310.	1.0	24
32	Retropinacol/Crossâ€Pinacol Coupling Reactions â€“ A Catalytic Access to 1,2â€Unsymmetrical Diols. Advanced Synthesis and Catalysis, 2012, 354, 2648-2652.	2.1	10
33	A Oneâ€Pot Crossâ€Pinacol Coupling/Rearrangement Procedure. Helvetica Chimica Acta, 2012, 95, 1970-1975.	1.0	10
34	Stereoselective amine-catalyzed carbohydrate chain elongation. Chemical Communications, 2012, 48, 5304.	2.2	32
35	Histidine-Catalyzed Asymmetric Aldol Addition of Enolizable Aldehydes: Insights into its Mechanism. Journal of Organic Chemistry, 2012, 77, 2310-2330.	1.7	49
36	2.13 Selected Diastereoselective Reactions: Aldoltype Additions. , 2012, , 370-397.		2

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37	Direct Glycosylation of Unprotected and Unactivated Carbohydrates under Mild Conditions. Organic Letters, 2012, 14, 792-795.	2.4	39
38	Long-lived perpendicular conformation in the photoisomerization path of 1,1â€²-dimethylstilbene and 1,1â€²-diethylstilbene. Chemical Physics Letters, 2012, 544, 39-42.	1.2	31
39	Isoleucine-Catalyzed Direct Asymmetric Aldol Addition of Enolizable Aldehydes. Organic Letters, 2012, 14, 2180-2183.	2.4	37
40	Stereoselective Direct Amine-Catalyzed Decarboxylative Aldol Addition. Organic Letters, 2011, 13, 1878-1880.	2.4	61
41	Asymmetric Acid-Catalyzed Meerweinâ€'Ponndorfâ€'Verleyâ€'Aldol Reactions of Enolizable Aldehydes. Organic Letters, 2010, 12, 1660-1663.	2.4	16
42	Stereoselective one-pot synthesis of highly differently substituted thiochromans. Tetrahedron Letters, 2009, 50, 6466-6468.	0.7	10
43	Catalyst-free tandem aldol condensation/Michael addition of 1,3-cyclohexanediones with enolizable aldehydes. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3949-3951.	1.0	15
44	Asymmetric Histidine-Catalyzed Cross-Aldol Reactions of Enolizable Aldehydes: Access to Defined Configured Quaternary Stereogenic Centers. Journal of the American Chemical Society, 2009, 131, 16642-16643.	6.6	102
45	Total Syntheses of Carbohydrates: Organocatalyzed Aldol Additions of Dihydroxyacetone. Chemistry - A European Journal, 2008, 14, 40-48.	1.7	76
46	Catalystâ€Free Aldol Additions of 1,3â€Dicarbonyl Compounds. Advanced Synthesis and Catalysis, 2008, 350, 2877-2880.	2.1	34
47	Tetranuclear BINOLâ€'Titanium Complex in Selective Direct Aldol Additions. Journal of Organic Chemistry, 2008, 73, 813-819.	1.7	31
48	TiCl4-Complexation by Mandelic Acid Methylester. Analytical Sciences: X-ray Structure Analysis Online, 2008, 24, X233-X234.	0.1	0
49	Amine-Catalyzed Direct Aldol Addition. Journal of the American Chemical Society, 2007, 129, 7258-7259.	6.6	90
50	Multinuclear enantiopure titanium self-assembly complexesâ€"synthesis, characterization and application to organic synthesis. Applied Organometallic Chemistry, 2007, 21, 139-145.	1.7	13
51	Enantioselective Equilibrationâ€'Access to Chiral Aldol Adducts of Mandelic Acid Esters. Organic Letters, 2006, 8, 5353-5355.	2.4	12
52	Unusual Highly Regioselective Direct Aldol Additions with a Moisture-Resistant and Highly Efficient Titanium Catalyst. Organic Letters, 2006, 8, 281-284.	2.4	32
53	Modern Aldol Methods for the Total Synthesis of Polyketides. Angewandte Chemie - International Edition, 2006, 45, 7506-7525.	7.2	344
54	Aldol Reactions. , 2006, , 51-81.		7

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55	Enantioselective Direct Aldol-Tishchenko Reaction:â€‰ Access to Chiral Stereopentads. Organic Letters, 2005, 7, 4499-4501.	2.4	36
56	LiClO4-Activated stereo- and regioselective alkylation of aldehydes. Tetrahedron, 2004, 60, 993-999.	1.0	7
57	On the Palladium(II)-Catalysed Oxidative Rearrangement of Propargylic Acetates. Advanced Synthesis and Catalysis, 2004, 346, 483-485.	2.1	17
58	LiClO4-Activated Stereo- and Regioselective Alkylation of Aldehydes.. ChemInform, 2004, 35, no.	0.1	0
59	A simple approach to 5,5â€²-bis(1,3-dioxolan-4-ones) of tartaric acids. Tetrahedron: Asymmetry, 2004, 15, 803-806.	1.8	6
60	Enantioselektive C-C-BindungsknÃ¼pfung mit Titan(IV)-alkoxiden â€“ eine ungewÃ¶hnliche Alkylierung. Angewandte Chemie, 2003, 115, 2547-2547.	1.6	2
61	Ti(OiPr)4-Mediated Nucleophilic Substitution of Propargylic Esters.. ChemInform, 2003, 34, no.	0.1	0
62	Enantioselective Câ”C Bond Formation with Titanium(IV) Alkoxidesâ€”an Unusual Alkylation. Angewandte Chemie - International Edition, 2003, 42, 2443-2443.	7.2	2
63	The Aldol-Tishchenko Reaction: A Tool in Stereoselective Synthesis. Current Organic Chemistry, 2003, 7, 1713-1723.	0.9	56
64	Enantioselektive C-C-BindungsknÃ¼pfung mit Titan(IV)-alkoxiden â€“ eine ungewÃ¶hnliche Alkylierung Diese Arbeit wurde von der Deutschen Forschungsgemeinschaft gefÃ¶rdert.. Angewandte Chemie, 2002, 114, 1423.	1.6	2
65	Enantioselective Câ”C Bond Formation with Titanium(IV) Alkoxides-an Unusual Alkylation. Angewandte Chemie - International Edition, 2002, 41, 1361-1363.	7.2	6
66	Ti(OiPr)4-Mediated nucleophilic substitution of propargylic esters. Tetrahedron, 2002, 58, 9847-9851.	1.0	25
67	Insight into the mechanism of direct catalytic aldol addition mediated by ambifunctional titanium complexes. Tetrahedron Letters, 2002, 43, 4459-4461.	0.7	59
68	On the mechanism of directed, TiCl4-mediated aldol additionâ€”an easy access to substituted 2.4-furandiols. Tetrahedron Letters, 2001, 42, 6843-6845.	0.7	14
69	TiCl4-mediated amination of propargylic esters. Tetrahedron Letters, 2001, 42, 1655-1656.	0.7	36
70	TiCl4-Mediated Nucleophilic Substitution of Propargylic Esters. Tetrahedron, 2000, 56, 7463-7468.	1.0	46
71	Titanium(IV) Alkoxide Ligand Exchange with Î±-Hydroxy Acids:â€‰ The Enantioselective Aldol Addition. Organic Letters, 2000, 2, 4011-4012.	2.4	47
72	Synthesis of propargylic ethers via Lewis-acid mediated nucleophilic substitution of propargylic esters. Tetrahedron Letters, 1999, 40, 5989-5990.	0.7	24

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73	Diastereoselection in Lewis-Acid-Mediated Aldol Additions. Chemical Reviews, 1999, 99, 1095-1120.	23.0	439
74	A stereoselective and novel approach to the synthesis of 1,3-diols: simple control of diastereoselectivity. Chemical Communications, 1998, , 2273-2274.	2.2	16
75	Highly Regioselective Lewis Acid-Mediated Aldol Additions at the More Encumbered Î±-Side of Unsymmetrical Ketones. Journal of the American Chemical Society, 1998, 120, 413-414.	6.6	42
76	Stereocontrol in Aldol Addition - Synthesis of syn and anti 3-Hydroxy Aldehydes. Synthesis, 1998, 1998, 262-264.	1.2	31
77	Aldol addition of aldehydes â€" A stereoselective approach to syn-3-hydroxyaldehydes. Tetrahedron Letters, 1997, 38, 4543-4544.	0.7	46
78	Titanium(IV) alkoxides with Mono- and Bidentate Ligands. Journal FÃ¼r Praktische Chemie, Chemiker-Zeitung, 1996, 338, 583-585.	0.5	8
79	Titanium-Mediated Aldol-Tishchenko Reaction: A Stereoselective Synthesis of Differentiated anti 1,3-Diol Monoesters. Synthesis, 1996, 1996, 1087-1089.	1.2	53
80	Catalytic, Diastereoselective Aldol Reactions Using Titanium(IV) Halides. Chemische Berichte, 1995, 128, 919-921.	0.2	34