

# Jacek Mlynarski

## List of Publications by Citations

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110  
papers

2,518  
citations

28  
h-index

46  
g-index

154  
ext. papers

2,808  
ext. citations

7.5  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
110	Catalysts based on amino acids for asymmetric reactions in water. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 4288-97	16.4	202
109	Catalytic asymmetric aldol reactions in aqueous media. <i>Chemical Society Reviews</i> , <b>2008</b> , 37, 1502-11	58.5	195
108	Catalytic asymmetric aldol reactions in aqueous media--a 5 year update. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 577-87	58.5	143
107	Structure assignment, total synthesis, and antiviral evaluation of cycloviracin B1. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 13132-42	16.4	103
106	Organocatalytic synthesis of carbohydrates. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 587-96	58.5	83
105	Iron(II) and zinc(II) complexes with designed pybox ligand for asymmetric aqueous Mukaiyama-aldol reactions. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 2228-31	4.2	77
104	Direct asymmetric aldol reactions inspired by two types of natural aldolases: water-compatible organocatalysts and Zn(II) complexes. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 173-87	4.2	69
103	Conjunction of chirality and slow magnetic relaxation in the supramolecular network constructed of crossed cyano-bridged Co(II)-W(V) molecular chains. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 16151-4	16.4	66
102	Direct Catalytic Asymmetric Aldol Reactions Assisted by Zinc Complex in the Presence of Water. <i>Advanced Synthesis and Catalysis</i> , <b>2007</b> , 349, 1041-1046	5.6	64
101	Efficient $\text{Sn}$ water-organocatalytic protocol for the synthesis of optically pure warfarin anticoagulant. <i>Green Chemistry</i> , <b>2011</b> , 13, 1155	10	51
100	Chiral zinc catalysts for asymmetric synthesis. <i>Tetrahedron</i> , <b>2015</b> , 71, 1339-1394	2.4	50
99	Zn(pybox)-complex-catalyzed asymmetric aqueous Mukaiyama-aldol reactions. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 1317-21	4.2	48
98	Electrochromic Bragg mirror: ECBM. <i>Advanced Materials</i> , <b>2012</b> , 24, OP265-9	24	47
97	Direct asymmetric aldol reaction of hydroxyacetone promoted by chiral tertiary amines. <i>Tetrahedron Letters</i> , <b>2009</b> , 50, 1639-1641	2	47
96	Computational planning of the synthesis of complex natural products. <i>Nature</i> , <b>2020</b> , 588, 83-88	50.4	47
95	Aminosüren als Katalysatoren für asymmetrische Umsetzungen in Wasser. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 4352-4362	3.6	45
94	Direct Asymmetric Aldol-Tishchenko Reaction. <i>European Journal of Organic Chemistry</i> , <b>2006</b> , 2006, 4779-4786	4.286	45

93	A chiral iron(II)pybox catalyst stable in aqueous media. Asymmetric Mukaiyamaaldol reaction. <i>Tetrahedron Letters</i> , <b>2006</b> , 47, 5281-5284	2	40
92	The first example of a catalytic asymmetric aldol-Tishchenko reaction of aldehydes and aliphatic ketones. <i>Tetrahedron Letters</i> , <b>2004</b> , 45, 7549-7552	2	39
91	Total synthesis of the antiviral glycolipid cycloviracin B. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 10274-5	16.4	39
90	General switch in regioselectivity in the Mukaiyama aldol reaction of silyloxyfuran with aldehydes in aqueous solvents. <i>Chemical Communications</i> , <b>2012</b> , 48, 11029-31	5.8	35
89	Asymmetric Hydrosilylation of Ketones Catalyzed by Zinc Acetate with Hindered Pybox Ligands. <i>Advanced Synthesis and Catalysis</i> , <b>2014</b> , 356, 591-595	5.6	33
88	Chiral ytterbium complex-catalyzed direct asymmetric aldol-Tishchenko reaction: synthesis of anti-1,3-diols. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 8158-67	4.8	33
87	Application of the 2-Nitrobenzyl Group in Glycosylation Reactions: A Valuable Example of an Arming Participating Group. <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 3988-3991	3.2	32
86	A concise synthesis of the fully functional lactide core of cycloviracin B with implications for the structural assignment of related glycolipids. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 1168-9	16.4	31
85	Asymmetric Mukaiyama-Aldol Reaction in Aqueous Media Promoted by Zinc-Based Chiral Lewis Acids. <i>Advanced Synthesis and Catalysis</i> , <b>2005</b> , 347, 521-525	5.6	29
84	Aggregation-Induced Resonance Raman Optical Activity (AIRROA): A New Mechanism for Chirality Enhancement. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 4028-33	3.4	29
83	Zinc Acetate-Catalyzed Enantioselective Hydrosilylation of Ketones. <i>Advanced Synthesis and Catalysis</i> , <b>2015</b> , 357, 3727-3731	5.6	28
82	Direct asymmetric hydroxymethylation of ketones in homogeneous aqueous solvents. <i>Tetrahedron Letters</i> , <b>2010</b> , 51, 4088-4090	2	28
81	Total synthesis of macroviracin D (BA-2836-4). <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 2214-22	4.8	28
80	Implementation of Chirality into High-Spin Ferromagnetic CoII9WV6 and NiII9WV6 Cyanido-Bridged Clusters. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 3573-3581	3.5	27
79	Direct asymmetric aldol-Tishchenko reaction of aliphatic ketones catalyzed by syn-aminoalcohol-Yb(III) complexes. <i>Chemical Communications</i> , <b>2005</b> , 4854-6	5.8	27
78	Thermal switching between blue and red luminescence in magnetic chiral cyanido-bridged EuIIIWV coordination helices. <i>RSC Advances</i> , <b>2013</b> , 3, 1065-1068	3.7	26
77	Zinc-Catalyzed Enantioselective Hydrosilylation of Ketones and Imines under Solvent-Free Conditions. <i>ChemCatChem</i> , <b>2016</b> , 8, 3575-3579	5.2	25
76	Enantioselective Hydrosilylation of Imines Catalyzed by Chiral Zinc Acetate Complexes. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 336-42	4.2	25

75	Optical Activity and Dehydration-Driven Switching of Magnetic Properties in Enantiopure Cyanido-Bridged Co(II)3W(V)2 Trigonal Bipyramids. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 5784-94	5.1	25
74	Algorithmic Discovery of Tactical Combinations for Advanced Organic Syntheses. <i>Chem</i> , <b>2020</b> , 6, 280-293	6.2	22
73	Diastereoselective Hydrosilylation of N-(tert-Butylsulfinyl)imines Catalyzed by Zinc Acetate. <i>European Journal of Organic Chemistry</i> , <b>2016</b> , 2016, 1060-1065	3.2	21
72	Syntheses of chiral hybrid O,N-donor ligands for the investigation of lanthanide complex reactivities in direct aldol condensations. <i>Tetrahedron: Asymmetry</i> , <b>2005</b> , 16, 1521-1526		20
71	Chiral Amplification in Nature: Studying Cell-Extracted Chiral Carotenoid Microcrystals via the Resonance Raman Optical Activity of Model Systems. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 8383-8388	16.4	19
70	Amine-catalyzed direct aldol reactions of hydroxy- and dihydroxyacetone: biomimetic synthesis of carbohydrates. <i>Journal of Organic Chemistry</i> , <b>2014</b> , 79, 5728-39	4.2	19
69	Application of 2-substituted benzyl groups in stereoselective glycosylation. <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 770-80	4.2	18
68	Synthesis of Yb Complexes with Amino-Acid-Armed Ligands for Direct Asymmetric Tandem Aldol Reduction Reactions. <i>European Journal of Organic Chemistry</i> , <b>2008</b> , 2008, 5553-5562	3.2	18
67	Prediction of ROA and ECD Related to Conformational Changes of Astaxanthin Enantiomers. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 12193-201	3.4	17
66	Synthetic routes to methyl 3-deoxy-aldulosonic acid methyl esters and their 2-deoxy isomers based on the Horner-Emmons and Peterson reaction of sugar lactones. <i>Tetrahedron</i> , <b>1999</b> , 55, 2785-2794	2.4	16
65	Asymmetric syn-Aldol Reaction of $\beta$ -Hydroxy Ketones with Tertiary Amine Catalysts. <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 6917-6923	3.2	14
64	Direct Aldol Reaction of Pyruvic Derivatives: Catalytic Attempt To Synthesize Ulosonic Acids. <i>European Journal of Organic Chemistry</i> , <b>2012</b> , 2012, 2724-2727	3.2	14
63	Asymmetric synthesis of warfarin and its analogues on water. <i>Tetrahedron: Asymmetry</i> , <b>2014</b> , 25, 813-820		13
62	Synthesis of N-alkyl-N-methyl amino acids. Scope and limitations of base-induced N-alkylation of Cbz-amino acids. <i>Tetrahedron: Asymmetry</i> , <b>2008</b> , 19, 970-975		13
61	Application of the EF and GH Fragments to the Synthesis of Idraparinux. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 12701-12714	4.2	12
60	Recent Advances in the Chemistry of Bioactive 3-Deoxy-Ulosonic Acids. <i>Studies in Natural Products Chemistry</i> , <b>2005</b> , 419-482	1.5	12
59	Synthetic approach to 3-deoxy-d-manno-oct-2-ulosonic acid (Kdo) $\beta$ -disaccharides via a ketene dithioacetal. <i>Tetrahedron: Asymmetry</i> , <b>2000</b> , 11, 3737-3746		12
58	Nicotinamide N-methyltransferase in endothelium protects against oxidant stress-induced endothelial injury. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2021</b> , 1868, 119082	4.9	12

57	Self-Enhancement of Rotating Magnetocaloric Effect in Anisotropic Two-Dimensional (2D) Cyanido-Bridged Mn-Nb Molecular Ferrimagnet. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 2777-2783	5.1	11
56	PK/PD studies on non-selective PDE inhibitors in rats using cAMP as a marker of pharmacological response. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>2017</b> , 390, 1047-1059	3.4	11
55	The first synthesis of the ketene dithioacetals from sugar lactones: a convenient access to 3-ulosonic acids. <i>Tetrahedron Letters</i> , <b>1998</b> , 39, 5425-5428	2	11
54	From bare metal powders to colloiddally stable TCO dispersions and transparent nanoporous conducting metal oxide thin films. <i>Small</i> , <b>2012</b> , 8, 3806-9	11	10
53	Asymmetric Synthesis of Cyclic Nitrones via Organocatalytic Michael Addition of Aldehydes to Nitroolefins and Subsequent Reductive Cyclization.. <i>ChemistrySelect</i> , <b>2017</b> , 2, 2670-2676	1.8	9
52	Iron-Catalyzed Asymmetric Nitro-Mannich Reaction. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 11218-11224.	4.2	9
51	Organocatalytic syn-Aldol Reactions of Hydroxy Ketones with (S)-Isoserinal: Asymmetric Synthesis of 6-Deoxy-1,5-iminoheptitols and Related Compounds. <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 1296-1305	3.2	9
50	Asymmetric aldol-Tishchenko reaction catalyzed by Yb-complexes with basic amino acid-derived ligands. <i>Tetrahedron: Asymmetry</i> , <b>2011</b> , 22, 464-467		9
49	A novel chemical synthesis of a 3-deoxy- $\beta$ -arabino-heptulosonic acid 7-phosphate (DAHP) derivative and its 2-deoxy analogue. <i>Carbohydrate Research</i> , <b>1996</b> , 295, 69-75	2.9	9
48	Comparative Assessment of the New PDE7 Inhibitor - GRMS-55 and Lisofylline in Animal Models of Immune-Related Disorders: A PK/PD Modeling Approach. <i>Pharmaceutical Research</i> , <b>2020</b> , 37, 19	4.5	9
47	A Concise Organocatalytic Synthesis of 3-Deoxy-2-ulosonic Acids through Cinchona-Alkaloid-Promoted Aldol Reactions of Pyruvate. <i>European Journal of Organic Chemistry</i> , <b>2016</b> , 2016, 4394-4403	3.2	9
46	Water-compatible Chiral Lewis Acids <b>2017</b> , 299-344		8
45	Chemistry of Pyruvate Enolates: anti-Selective Direct Aldol Reactions of Pyruvate Ester with Sugar Aldehydes Promoted by a Dinuclear Zinc Catalyst. <i>Advanced Synthesis and Catalysis</i> , <b>2015</b> , 357, 2098-2104	5.6	8
44	Unmodified Primary Amine Organocatalysts for Asymmetric Michael Reactions in Aqueous Media. <i>European Journal of Organic Chemistry</i> , <b>2015</b> , 2015, 6047-6051	3.2	8
43	Synthesis of l-Pyranosides by Hydroboration of Hex-5-enopyranosides Revisited. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 7545-56	4.2	8
42	Recent Advances in NMR Studies of Carbohydrates. <i>Annual Reports on NMR Spectroscopy</i> , <b>2016</b> , 185-223	1.7	7
41	Solid supported Hayashi-Engensen catalyst as an efficient and recyclable organocatalyst for asymmetric Michael addition reactions. <i>Tetrahedron: Asymmetry</i> , <b>2017</b> , 28, 1765-1773		7
40	Synthesis of 3-Deoxy- $\beta$ -D-manno-oct-2-ulosonic Acid Glycoside (Kdo) and Its 2-Deoxy Analogue: A Horner-Emmons Approach <i>Organic Letters</i> , <b>1999</b> , 1, 1709-1711	6.2	7

39	A novel chemical synthesis of a 3-deoxy-d-arabino-heptulosonic acid 7-phosphate (DAHP) derivative and its 2-deoxy analogue. <i>Carbohydrate Research</i> , <b>1996</b> , 295, 69-75	2.9	7
38	Zinc Acetate Catalyzed Enantioselective Reductive Aldol Reaction of Ketones. <i>Advanced Synthesis and Catalysis</i> , <b>2020</b> , 362, 1532-1536	5.6	7
37	Zinc-Catalyzed Asymmetric Hydrosilylation of Cyclic Imines: Synthesis of Chiral 2-Aryl-Substituted Pyrrolidines as Pharmaceutical Building Blocks. <i>Advanced Synthesis and Catalysis</i> , <b>2021</b> , 363, 1317-1321	5.6	7
36	Visible-Light-Mediated $\alpha$ Oxygenation of 3-(N,N-Dimethylaminomethyl)-Indoles to Aldehydes. <i>European Journal of Organic Chemistry</i> , <b>2018</b> , 2018, 6624-6628	3.2	7
35	Total synthesis of pipercolic acid and 1-C-alkyl 1,5-iminopentitol derivatives by way of stereoselective aldol reactions from (S)-isoserinal. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 1118-1125	3.9	6
34	Intramolecular Tandem Seleno-Michael/Aldol Reaction: A Simple Route to Hydroxy Cyclo-1-ene-1-carboxylate Esters. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 11269-11277	4.2	6
33	Convenient preparation of $\beta$ and $\mu$ glycosides of novel isomeric 3-deoxy-hept-2-ulosaric acids diesters. <i>Tetrahedron</i> , <b>1997</b> , 53, 10643-10658	2.4	6
32	$\beta$ Regioselective Aqueous Mukaiyama Aldol Reaction of 2-(Trimethylsilyloxy)furan with Pyruvates. <i>European Journal of Organic Chemistry</i> , <b>2016</b> , 2016, 2897-2901	3.2	6
31	Total Asymmetric Synthesis of (+)-Paroxetine and (+)-Femoxetine. <i>European Journal of Organic Chemistry</i> , <b>2019</b> , 2019, 6973-6982	3.2	5
30	Tertiary Amine Promoted Asymmetric $\beta$ Aldol Reaction of Aldehydes. <i>European Journal of Organic Chemistry</i> , <b>2015</b> , 2015, 5075-5078	3.2	5
29	Synthesis of 2-Keto-d- and l-gluconic Acid via Stereoselective Direct Aldol Reactions. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 6112-7	4.2	5
28	Influence of inflammatory disorders on pharmacokinetics of lisofylline in rats: implications for studies in humans. <i>Xenobiotica</i> , <b>2019</b> , 49, 1209-1220	2	5
27	Asymmetric total synthesis of (+)-asenapine. <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 3225-3231	3.9	4
26	Additions and corrections published 30th October 2013 to 15th July 2014. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 6470	58.5	4
25	Organocatalytic Synthesis of Higher-Carbon Sugars: Efficient Protocol for the Synthesis of Natural Sedoheptulose and d-Glycero-l-galacto-oct-2-ulose. <i>ChemistryOpen</i> , <b>2015</b> , 4, 717-21	2.3	4
24	Biomimetic syn-Aldol Reaction of Dihydroxyacetone Promoted by Water-Compatible Catalysts. <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 7484-7487	3.2	4
23	Synthesis and Application of Uronic Acids. <i>Current Organic Chemistry</i> , <b>2014</b> , 18, 1913-1934	1.7	4
22	Asymmetric hetero-Diels-Alder Reaction of trans-1-Methoxy-3-trimethylsilyloxy-buta-1,3-diene Catalyzed by Zinc Complexes. <i>European Journal of Organic Chemistry</i> , <b>2020</b> , 2020, 5388-5393	3.2	3

21	NMR of carbohydrates. <i>Nuclear Magnetic Resonance</i> , <b>2013</b> , 383-419	3	2
20	Cooperative Lewis Acids and Aminocatalysis <b>2017</b> , 345-374		2
19	Alkaline-Earth Metal-Based Chiral Lewis Acids <b>2017</b> , 1-25		2
18	Chiral Complexes with Carbophilic Lewis Acids Based on Copper, Silver, and Gold <b>2017</b> , 223-260		2
17	Stereocontrolled synthesis of oleanolic saponin ladyginoside A isolated from <i>Ladyginia bucharica</i> . <i>Carbohydrate Research</i> , <b>2018</b> , 458-459, 35-43	2.9	1
16	Iron-based Chiral Lewis Acids <b>2017</b> , 59-101		1
15	From Noble Metals to Fe-, Co-, and Ni-based Catalysts: A Case Study of Asymmetric Reductions <b>2017</b> , 183-221		1
14	Biomimetic Direct Aldol Reaction of Pyruvate Esters with Chiral Aldehydes. <i>Advanced Synthesis and Catalysis</i> , <b>2005</b> , 355, n/a-n/a	5.6	1
13	A computer algorithm to discover iterative sequences of organic reactions <b>2022</b> , 1, 49-58		1
12	Macrolide Core Synthesis of Calyculin IX Using an Intramolecular Glycosylation Approach. <i>European Journal of Organic Chemistry</i> , <b>2020</b> , 2020, 47-51	3.2	1
11	Lewis Acid-Catalyzed Stereoselective $\alpha$ -Addition of Chiral Aldehydes to Cyclic Dienol Silanes: Aqueous Synthesis of Chiral Butenolides. <i>Advanced Synthesis and Catalysis</i> , <b>2020</b> , 362, 667-678	5.6	1
10	Asymmetric Epoxidation of Enones Promoted by Dinuclear Magnesium Catalyst. <i>Advanced Synthesis and Catalysis</i> , <b>2021</b> , 363, 4247-4255	5.6	1
9	Multiplex Raman imaging of organelles in endothelial cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 255, 119658	4.4	0
8	Chiral Amplification in Nature: Studying Cell-Extracted Chiral Carotenoid Microcrystals via the Resonance Raman Optical Activity of Model Systems. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 8471	3.6	
7	Front Cover Picture: Zinc Acetate Catalyzed Enantioselective Reductive Aldol Reaction of Ketones (Adv. Synth. Catal. 7/2020). <i>Advanced Synthesis and Catalysis</i> , <b>2020</b> , 362, 1405-1405	5.6	
6	Asymmetric Aldol Reaction of Pyruvate Promoted by Chiral Tertiary Amines. <i>ChemistrySelect</i> , <b>2020</b> , 5, 7370-7374	1.8	
5	Titanium-Based Chiral Lewis Acids <b>2017</b> , 27-57		
4	Copper-based Chiral Lewis Acids <b>2017</b> , 103-135		

3 Zinc-based Chiral Lewis Acids **2017**, 137-181

2 Chiral Rare Earth Lewis Acids **2017**, 261-298

1 Chapter 7: Aqueous Phase Asymmetric Catalysis. *RSC Green Chemistry*, 206-236

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