

Dominik Koszelewski

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,372
citations

304368

22
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223531

46
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81
all docs

81
docs citations

81
times ranked

2153
citing authors

#	ARTICLE	IF	CITATIONS
1	Wheat germ lipase: isolation, purification and applications. <i>Critical Reviews in Biotechnology</i> , 2022, 42, 184-200.	5.1	17
2	The sustainable copper-catalyzed direct formation of highly functionalized p-quinols in water. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 25, 100576.	1.6	3
3	The Evaluation of DHPMs as Biotoxic Agents on Pathogen Bacterial Membranes. <i>Membranes</i> , 2022, 12, 238.	1.4	8
4	Promiscuous Lipase-Catalyzed Markovnikov Addition of H-Phosphites to Vinyl Esters for the Synthesis of Cytotoxic \pm -Acyloxy Phosphonate Derivatives. <i>Materials</i> , 2022, 15, 1975.	1.3	12
5	Computer-designed repurposing of chemical wastes into drugs. <i>Nature</i> , 2022, 604, 668-676.	13.7	30
6	Screening for amidoxime reductases in plant roots and <i>Saccharomyces cerevisiae</i> – Development of biocatalytic method for chemoselective amidine synthesis. <i>Bioorganic Chemistry</i> , 2022, 124, 105815.	2.0	0
7	Relationship between Structure and Antibacterial Activity of \pm -Aminophosphonate Derivatives Obtained via Lipase-Catalyzed Kabachnik–Fields Reaction. <i>Materials</i> , 2022, 15, 3846.	1.3	11
8	Influence of Open Chain and Cyclic Structure of Peptidomimetics on Antibacterial Activity in <i>E. coli</i> Strains. <i>Molecules</i> , 2022, 27, 3633.	1.7	8
9	Intensification of Double Kinetic Resolution of Chiral Amines and Alcohols via Chemoselective Formation of a Carbonate–Enzyme Intermediate. <i>Molecules</i> , 2022, 27, 4346.	1.7	1
10	Evaluation of thionolactones as a new type of hydrogen sulfide (H ₂ S) donors for a blood pressure regulation. <i>Bioorganic Chemistry</i> , 2021, 108, 104650.	2.0	4
11	Evaluation of gem-Diacetates as Alternative Reagents for Enzymatic Regio- and Stereoselective Acylation of Alcohols. <i>Journal of Organic Chemistry</i> , 2021, 86, 6331-6342.	1.7	4
12	Model Studies on the Enzyme-Regulated Stereodivergent Cascade Passerini Reaction. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 4161-4165.	1.2	3
13	Selective Esterification of Phosphonic Acids. <i>Molecules</i> , 2021, 26, 5637.	1.7	6
14	Pyridine Derivatives – A New Class of Compounds That Are Toxic to <i>E. coli</i> K12, R2 – R4 Strains. <i>Materials</i> , 2021, 14, 5401.	1.3	14
15	The Synthesis and Evaluation of Amidoximes as Cytotoxic Agents on Model Bacterial <i>E. coli</i> Strains. <i>Materials</i> , 2021, 14, 7577.	1.3	9
16	Evaluation of alcohols as substrates for the synthesis of 3,4-dihydropyrimidin-2(1H)-ones under environmentally friendly conditions. <i>Catalysis Communications</i> , 2020, 135, 105887.	1.6	8
17	Dual Activity of Grubbs-Type Catalyst in the Transvinylolation of Carboxylic Acids and Ring-Closing Metathesis Reactions. <i>Journal of Organic Chemistry</i> , 2020, 85, 15305-15313.	1.7	5
18	The amine as carbonyl precursor in the chemoenzymatic synthesis of Passerini adducts in aqueous medium. <i>Catalysis Communications</i> , 2020, 145, 106118.	1.6	6

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19	Evaluation of Biodegradable Glucose Based Surfactants as a Promoting Medium for the Synthesis of Peptidomimetics with the Coumarin Scaffold. <i>ChemistrySelect</i> , 2020, 5, 9607-9614.	0.7	2
20	Hydrogen Sulfide in Pharmacotherapy, Beyond the Hydrogen Sulfide-Donors. <i>Biomolecules</i> , 2020, 10, 323.	1.8	72
21	Enzyme Promiscuity as a Remedy for the Common Problems with Knoevenagel Condensation. <i>Chemistry - A European Journal</i> , 2019, 25, 10156-10164.	1.7	13
22	Evaluation of thioamides, thiolactams and thioureas as hydrogen sulfide (H ₂ S) donors for lowering blood pressure. <i>Bioorganic Chemistry</i> , 2019, 88, 102941.	2.0	20
23	Biocatalytic Promiscuity of Lipases in Carbon-Phosphorus Bond Formation. <i>ChemCatChem</i> , 2019, 11, 2554-2558.	1.8	18
24	Synthesis of (E)- α,β -unsaturated carboxylic esters derivatives from cyanoacetic acid via promiscuous enzyme-promoted cascade esterification/Knoevenagel reaction. <i>Bioorganic Chemistry</i> , 2019, 93, 102816.	2.0	8
25	The studies on chemoselective promiscuous activity of hydrolases on acylals transformations. <i>Bioorganic Chemistry</i> , 2019, 93, 102825.	2.0	7
26	The influence of the isocyanoesters structure on the course of enzymatic Ugi reactions. <i>Bioorganic Chemistry</i> , 2019, 93, 102817.	2.0	6
27	Synthesis of Enantiomerically Pure 5,6-Dihydropyranones via Chemoenzymatic Sequential DKR-RCM Reaction. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 1653-1658.	1.2	12
28	The mechanistic promiscuity of the enzymatic esterification of chiral carboxylic acids. <i>Catalysis Communications</i> , 2018, 106, 82-86.	1.6	17
29	Differential quenching of the angular momentum of the B and Q bands of a porphyrin as a result of extended ring π -conjugation. <i>Journal of Porphyrins and Phthalocyanines</i> , 2018, 22, 1111-1128.	0.4	9
30	Multicomponent Reactions Accelerated by Aqueous Micelles. <i>Frontiers in Chemistry</i> , 2018, 6, 502.	1.8	80
31	Facile Conversion of α -Acyloxy Amides into β -Hydroxy lactams. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 3280-3290.	1.2	7
32	The sustainable synthesis of peptidomimetics via chemoenzymatic tandem oxidation-Ugi reaction. <i>RSC Advances</i> , 2018, 8, 28405-28413.	1.7	10
33	The studies on the chemoenzymatic synthesis of 2-benzyl-3-butenoic acid. <i>Catalysis Communications</i> , 2018, 114, 6-9.	1.6	3
34	Studies on the Synthesis of Endocyclic Enol Lactones via a RCM of Selected Vinyl Esters. <i>Journal of Organic Chemistry</i> , 2018, 83, 8655-8661.	1.7	14
35	Enzyme mediated kinetic resolution of β -hydroxy- α,β -unsaturated esters as a route to optically active β -lactones. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 809-818.	1.8	13
36	A convenient stereoselective synthesis of 5-hydroxy-3-oxoesters and 3-hydroxy-5-oxoesters. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 797-802.	1.8	5

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37	Enzyme-Promoted Asymmetric Tandem Passerini Reaction. <i>ChemCatChem</i> , 2017, 9, 3047-3053.	1.8	16
38	Studies on asymmetric synthesis of bicyclomyacin precursors. A chemoenzymatic route to chiral 2,5-diketopiperazines and 2-oxa-bicyclo[4.2.2]decane-8,10-diones. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 1127-1134.	1.8	4
39	Enzymatic Tandem Approach to Knoevenagel Condensation of Acetaldehyde with Acidic Methylene Compounds in Organic Media. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 4572-4579.	1.2	18
40	Efficient Ugi reactions in an aqueous vesicle system. <i>RSC Advances</i> , 2017, 7, 33344-33354.	1.7	27
41	Parenteral Na ₂ S, a fast-releasing H ₂ S donor, but not GY4137, a slow-releasing H ₂ S donor, lowers blood pressure in rats. <i>Acta Biochimica Polonica</i> , 2017, 64, 561-566.	0.3	10
42	Dynamic Kinetic Resolution of 3-Aryl-4-pentenoic Acids. <i>ACS Catalysis</i> , 2016, 6, 3287-3292.	5.5	19
43	Self-immolative versatile fluorogenic probes for screening of hydrolytic enzyme activity. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 9146-9150.	1.5	12
44	Enzymatic Ugi Reaction with Amines and Cyclic Imines. <i>Chemistry - A European Journal</i> , 2016, 22, 16684-16689.	1.7	21
45	Evaluation of Pseudoenantiomeric Mixed Carbonates as Efficient Fluorogenic Probes for Enantioselectivity Screening. <i>ChemBioChem</i> , 2016, 17, 71-76.	1.3	4
46	Environmentally friendly approach to $\hat{\pm}$ -acyloxy carboxamides via a chemoenzymatic cascade. <i>RSC Advances</i> , 2016, 6, 68231-68237.	1.7	21
47	Enantioselective Reduction of Ethyl 3-oxo-5-phenylpentanoate with Whole-Cell Biocatalysts. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 1007-1011.	1.2	12
48	Enzymatic Synergism in the Synthesis of $\hat{\pm}$ -Keto Esters. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 5432-5437.	1.2	9
49	New meso-substituted corroles possessing pentafluorophenyl groups – synthesis and spectroscopic characterization. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7411-7423.	1.3	12
50	Mixed Carbonates as Useful Substrates for a Fluorogenic Assay for Lipases and Esterases. <i>ChemBioChem</i> , 2015, 16, 677-682.	1.3	18
51	The influence of cosolvent concentration on enzymatic kinetic resolution of <i>trans</i> -2-phenyl-cyclopropane-1-carboxylic acid derivatives. <i>Biocatalysis and Biotransformation</i> , 2015, 33, 98-104.	1.1	4
52	Liquid-Crystalline Properties of <i>trans</i> -A ₂ B ₂ -Porphyrins with Extended π -Electron Systems. <i>Chemistry - A European Journal</i> , 2015, 21, 7384-7388.	1.7	9
53	Evaluation of a new protocol for enzymatic dynamic kinetic resolution of 3-hydroxy-3-(aryl)propanoic acids. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 11014-11020.	1.5	11
54	Efficient Passerini reactions in an aqueous vesicle system. <i>RSC Advances</i> , 2015, 5, 102828-102835.	1.7	34

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55	Electrochemically Driven Intramolecular Oxidative Aromatic Coupling as a Pathway toward Γ -Extended Porphyrins. <i>Inorganic Chemistry</i> , 2013, 52, 9532-9538.	1.9	21
56	Dynamics of Intramolecular Excited State Proton Transfer in Emission Tunable, Highly Luminescent Imidazole Derivatives. <i>Journal of Physical Chemistry C</i> , 2013, 117, 791-803.	1.5	52
57	Synthesis and linear and nonlinear optical properties of low-melting Γ -extended porphyrins. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2044.	2.7	47
58	Studies on the chemoenzymatic synthesis of 3-phenyl-GABA and 4-phenyl-pyrrolid-2-one: the influence of donor of the alkoxy group on enantioselective esterification. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 427-433.	1.8	14
59	Artificial Multi-Enzyme Networks for the Asymmetric Amination of <i>sec</i> -Alcohols. <i>Chemistry - A European Journal</i> , 2013, 19, 4030-4035.	1.7	99
60	Improved chemoenzymatic asymmetric synthesis of (S)-Rivastigmine. <i>Tetrahedron</i> , 2012, 68, 7691-7694.	1.0	45
61	The studies on chemoenzymatic synthesis of Femoxetine. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 82, 96-101.	1.8	18
62	Regioselective Enzymatic Carboxylation of Phenols and Hydroxystyrene Derivatives. <i>Organic Letters</i> , 2012, 14, 1974-1977.	2.4	84
63	A new chemoenzymatic approach to the synthesis of chiral 4-aryl-1,4-dihydro-2H-isoquinolines via the enzymatic resolution of 2-acetyl-4-phenyl-1,4-dihydro-2H-isoquinolin-3-one. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 1256-1261.	1.8	12
64	Selective Cycloaddition of Tetracyanoethene (TCNE) and 7,7,8,8-tetracyanoquinodimethane (TCNQ) to Afford <i>meso</i> -Substituted Phenylethynyl Porphyrins. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1887-1894.	1.7	42
65	Enzymatic Racemization of Amines Catalyzed by Enantiocomplementary Γ -Transaminases. <i>Chemistry - A European Journal</i> , 2011, 17, 378-383.	1.7	35
66	Synthesis of Optically Active Amines Employing Recombinant Γ -Transaminases in <i>E. coli</i> Cells. <i>ChemCatChem</i> , 2010, 2, 73-77.	1.8	108
67	Immobilization of Γ -transaminases by encapsulation in a sol-gel/celite matrix. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 63, 39-44.	1.8	68
68	Γ -Transaminases for the synthesis of non-racemic \pm -chiral primary amines. <i>Trends in Biotechnology</i> , 2010, 28, 324-332.	4.9	383
69	Testing of microorganisms for Γ -transaminase activity. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 2005-2009.	1.8	15
70	Γ -Transaminases as efficient biocatalysts to obtain novel chiral selenium-amine ligands for Pd-catalysis. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 2043.	1.5	37
71	Synthesis of 4-phenylpyrrolidin-2-one via dynamic kinetic resolution catalyzed by Γ -transaminases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 60, 191-194.	1.8	64
72	Deracemisation of \pm -Chiral Primary Amines by a One-Pot, Two-Step Cascade Reaction Catalysed by Γ -Transaminases. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 2289-2292.	1.2	102

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73	Deracemization of Mexiletine Biocatalyzed by α -Transaminases. <i>Organic Letters</i> , 2009, 11, 4810-4812.	2.4	114
74	Asymmetric Synthesis of Optically Pure Pharmacologically Relevant Amines Employing α -Transaminases. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2761-2766.	2.1	176
75	Solvent-free Passerini Reactions. <i>Synthetic Communications</i> , 2008, 38, 1120-1127.	1.1	28
76	The study on efficient hydrolases immobilization for the kinetic resolution of the α -acetoxyamides. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2007, 47, 51-57.	1.8	14
77	Studies on enzymatic synthesis of chiral non-racemic 3-arylglutaric acid monoesters. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 961-966.	1.8	23
78	Enzymatic desymmetrization of 3-arylglutaric acid anhydrides. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 2475-2485.	1.8	39
79	Selective Palladium-catalyzed α,β -Homodimerization of Vinyl Esters in Aqueous Medium. <i>European Journal of Organic Chemistry</i> , 0, , .	1.2	5