Dominik Koszelewski

List of Publications by Year
in descending order

79	2,372	304368 22	223531 46
papers	citations	h-index	g-index

81	81	81	2153
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ï‰-Transaminases for the synthesis of non-racemic Î±-chiral primary amines. Trends in Biotechnology, 2010, 28, 324-332.	4.9	383
2	Asymmetric Synthesis of Optically Pure Pharmacologically Relevant Amines Employing Ï‰â€Transaminases. Advanced Synthesis and Catalysis, 2008, 350, 2761-2766.	2.1	176
3	Deracemization of Mexiletine Biocatalyzed by Ï‰-Transaminases. Organic Letters, 2009, 11, 4810-4812.	2.4	114
4	Synthesis of Optically Active Amines Employing Recombinant Ï‰â€Transaminases in E.â€…coli Cells. ChemCatChem, 2010, 2, 73-77.	1.8	108
5	Deracemisation of Î±â€Chiral Primary Amines by a Oneâ€Pot, Twoâ€Step Cascade Reaction Catalysed by Ï‰â€Transaminases. European Journal of Organic Chemistry, 2009, 2009, 2289-2292.	1.2	102
6	Artificial Multiâ€Enzyme Networks for the Asymmetric Amination of secâ€Alcohols. Chemistry - A European Journal, 2013, 19, 4030-4035.	1.7	99
7	Regioselective Enzymatic Carboxylation of Phenols and Hydroxystyrene Derivatives. Organic Letters, 2012, 14, 1974-1977.	2.4	84
8	Multicomponent Reactions Accelerated by Aqueous Micelles. Frontiers in Chemistry, 2018, 6, 502.	1.8	80
9	Hydrogen Sulfide in Pharmacotherapy, Beyond the Hydrogen Sulfide-Donors. Biomolecules, 2020, 10, 323.	1.8	72
10	Immobilization of Ï‰-transaminases by encapsulation in a solâ€“gel/celite matrix. Journal of Molecular Catalysis B: Enzymatic, 2010, 63, 39-44.	1.8	68
11	Synthesis of 4-phenylpyrrolidin-2-one via dynamic kinetic resolution catalyzed by Ï‰-transaminases. Journal of Molecular Catalysis B: Enzymatic, 2009, 60, 191-194.	1.8	64
12	Dynamics of Intramolecular Excited State Proton Transfer in Emission Tunable, Highly Luminescent Imidazole Derivatives. Journal of Physical Chemistry C, 2013, 117, 791-803.	1.5	52
13	Synthesis and linear and nonlinear optical properties of low-melting Ï€-extended porphyrins. Journal of Materials Chemistry C, 2013, 1, 2044.	2.7	47
14	Improved chemoenzymatic asymmetric synthesis of (S)-Rivastigmine. Tetrahedron, 2012, 68, 7691-7694.	1.0	45
15	Selective Cycloaddition of Tetracyanoethene (TCNE) and 7,7,8,8â€Tetracyanoâ€pâ€quinodimethane (TCNQ) to Afford mesoâ€Substituted Phenylethynyl Porphyrins. Chemistry - an Asian Journal, 2012, 7, 1887-1894.	1.7	42
16	Enzymatic desymmetrization of 3-arylglutaric acid anhydrides. Tetrahedron: Asymmetry, 2005, 16, 2475-2485.	1.8	39
17	Ï‰-Transaminases as efficient biocatalysts to obtain novel chiral selenium-amine ligands for Pd-catalysis. Organic and Biomolecular Chemistry, 2010, 8, 2043.	1.5	37
18	Enzymatic Racemization of Amines Catalyzed by Enantiocomplementary Ï‰â€Transaminases. Chemistry - A European Journal, 2011, 17, 378-383.	1.7	35

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19	Efficient Passerini reactions in an aqueous vesicle system. RSC Advances, 2015, 5, 102828-102835.	1.7	34
20	Computer-designed repurposing of chemical wastes into drugs. Nature, 2022, 604, 668-676.	13.7	30
21	Solventâ€Free Passerini Reactions. Synthetic Communications, 2008, 38, 1120-1127.	1.1	28
22	Efficient Ugi reactions in an aqueous vesicle system. RSC Advances, 2017, 7, 33344-33354.	1.7	27
23	Studies on enzymatic synthesis of chiral non-racemic 3-arylglutaric acid monoesters. Tetrahedron: Asymmetry, 2006, 17, 961-966.	1.8	23
24	Electrochemically Driven Intramolecular Oxidative Aromatic Coupling as a Pathway toward Ï€-Extended Porphyrins. Inorganic Chemistry, 2013, 52, 9532-9538.	1.9	21
25	Enzymatic Ugi Reaction with Amines and Cyclic Imines. Chemistry - A European Journal, 2016, 22, 16684-16689.	1.7	21
26	Environmentally friendly approach to Î±-acyloxy carboxamides via a chemoenzymatic cascade. RSC Advances, 2016, 6, 68231-68237.	1.7	21
27	Evaluation of thioamides, thiolactams and thioureas as hydrogen sulfide (H2S) donors for lowering blood pressure. Bioorganic Chemistry, 2019, 88, 102941.	2.0	20
28	Dynamic Kinetic Resolution of 3-Aryl-4-pentenoic Acids. ACS Catalysis, 2016, 6, 3287-3292.	5.5	19
29	The studies on chemoenzymatic synthesis of Femoxetine. Journal of Molecular Catalysis B: Enzymatic, 2012, 82, 96-101.	1.8	18
30	Mixed Carbonates as Useful Substrates for a Fluorogenic Assay for Lipases and Esterases. ChemBioChem, 2015, 16, 677-682.	1.3	18
31	Enzymatic Tandem Approach to Knoevenagel Condensation of Acetaldehyde with Acidic Methylene Compounds in Organic Media. European Journal of Organic Chemistry, 2017, 2017, 4572-4579.	1.2	18
32	Biocatalytic Promiscuity of Lipases in Carbonâ€Phosphorus Bond Formation. ChemCatChem, 2019, 11, 2554-2558.	1.8	18
33	The mechanistic promiscuity of the enzymatic esterification of chiral carboxylic acids. Catalysis Communications, 2018, 106, 82-86.	1.6	17
34	Wheat germ lipase: isolation, purification and applications. Critical Reviews in Biotechnology, 2022, 42, 184-200.	5.1	17
35	Enzymeâ€Promoted Asymmetric Tandem Passerini Reaction. ChemCatChem, 2017, 9, 3047-3053.	1.8	16
36	Testing of microorganisms for Ï‰-transaminase activity. Tetrahedron: Asymmetry, 2010, 21, 2005-2009.	1.8	15

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37	The study on efficient hydrolases immobilization for the kinetic resolution of the Î±-acetoxyamides. Journal of Molecular Catalysis B: Enzymatic, 2007, 47, 51-57.	1.8	14
38	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. Tetrahedron: Asymmetry, 2013, 24, 427-433.	1.8	14
39	Studies on the Synthesis of Endocyclic Enol Lactones via a RCM of Selected Vinyl Esters. Journal of Organic Chemistry, 2018, 83, 8655-8661.	1.7	14
40	Pyridine Derivativesâ€"A New Class of Compounds That Are Toxic to E. coli K12, R2â€"R4 Strains. Materials, 2021, 14, 5401.	1.3	14
41	Enzyme mediated kinetic resolution of Î´-hydroxy-Î±,Î²-unsaturated esters as a route to optically active Î´-lactones. Tetrahedron: Asymmetry, 2017, 28, 809-818.	1.8	13
42	Enzyme Promiscuity as a Remedy for the Common Problems with Knoevenagel Condensation. Chemistry - A European Journal, 2019, 25, 10156-10164.	1.7	13
43	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. Tetrahedron: Asymmetry, 2012, 23, 1256-1261.	1.8	12
44	New meso-substituted corroles possessing pentafluorophenyl groups â€“ synthesis and spectroscopic characterization. Physical Chemistry Chemical Physics, 2015, 17, 7411-7423.	1.3	12
45	Self-immolative versatile fluorogenic probes for screening of hydrolytic enzyme activity. Organic and Biomolecular Chemistry, 2016, 14, 9146-9150.	1.5	12
46	Enantioselective Reduction of Ethyl 3â€Oxoâ€5â€phenylpentanoate with Wholeâ€Cell Biocatalysts. European Journal of Organic Chemistry, 2016, 2016, 1007-1011.	1.2	12
47	Synthesis of Enantiomerically Pure 5,6â€Dihydropyranâ€2â€ones via Chemoenzymatic Sequential DKRâ€RCM Reaction. European Journal of Organic Chemistry, 2019, 2019, 1653-1658.	1.2	12
48	Promiscuous Lipase-Catalyzed Markovnikov Addition of H-Phosphites to Vinyl Esters for the Synthesis of Cytotoxic Î±-Acyloxy Phosphonate Derivatives. Materials, 2022, 15, 1975.	1.3	12
49	Evaluation of a new protocol for enzymatic dynamic kinetic resolution of 3-hydroxy-3-(aryl)propanoic acids. Organic and Biomolecular Chemistry, 2015, 13, 11014-11020.	1.5	11
50	Relationship between Structure and Antibacterial Activity of Î±-Aminophosphonate Derivatives Obtained via Lipase-Catalyzed Kabachnikâ˜Fields Reaction. Materials, 2022, 15, 3846.	1.3	11
51	Parenteral Na₂S, a fast-releasing H₂S donor, but not GYY4137, a slow-releasing H₂S donor, lowers blood pressure in rats. Acta Biochimica Polonica, 2017, 64, 561-566.	0.3	10
52	The sustainable synthesis of peptidomimetics via chemoenzymatic tandem oxidationâ€"Ugi reaction. RSC Advances, 2018, 8, 28405-28413.	1.7	10
53	Enzymatic Synergism in the Synthesis of Î²â€Keto Esters. European Journal of Organic Chemistry, 2015, 2015, 5432-5437.	1.2	9
54	Liquidâ€Crystalline Properties of transâ€A₂B₂â€Porphyrins with Extended Ïâ€Electron Systems. Chemistry - A European Journal, 2015, 21, 7384-7388.	1.7	9

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55	Differential quenching of the angular momentum of the B and Q bands of a porphyrin as a result of extended ring Ï€-conjugation. Journal of Porphyrins and Phthalocyanines, 2018, 22, 1111-1128.	0.4	9
56	The Synthesis and Evaluation of Amidoximes as Cytotoxic Agents on Model Bacterial E. coli Strains. Materials, 2021, 14, 7577.	1.3	9
57	Synthesis of (E)-Î±,Î²-unsaturated carboxylic esters derivatives from cyanoacetic acid via promiscuous enzyme-promoted cascade esterification/Knoevenagel reaction. Bioorganic Chemistry, 2019, 93, 102816.	2.0	8
58	Evaluation of alcohols as substrates for the synthesis of 3,4-dihydropyrimidin-2(1H)-ones under environmentally friendly conditions. Catalysis Communications, 2020, 135, 105887.	1.6	8
59	The Evaluation of DHPMs as Biotoxic Agents on Pathogen Bacterial Membranes. Membranes, 2022, 12, 238.	1.4	8
60	Influence of Open Chain and Cyclic Structure of Peptidomimetics on Antibacterial Activity in E. coli Strains. Molecules, 2022, 27, 3633.	1.7	8
61	Facile Conversion of Î±â€Acyloxy Amides into 3â€Hydroxyâ€lactams. European Journal of Organic Chemistry, 2018, 2018, 3280-3290.	1.2	7
62	The studies on chemoselective promiscuous activity of hydrolases on acylals transformations. Bioorganic Chemistry, 2019, 93, 102825.	2.0	7
63	The influence of the isocyanoesters structure on the course of enzymatic Ugi reactions. Bioorganic Chemistry, 2019, 93, 102817.	2.0	6
64	The amine as carbonyl precursor in the chemoenzymatic synthesis of Passerini adducts in aqueous medium. Catalysis Communications, 2020, 145, 106118.	1.6	6
65	Selective Esterification of Phosphonic Acids. Molecules, 2021, 26, 5637.	1.7	6
66	A convenient stereoselective synthesis of 5-hydroxy-3-oxoesters and 3-hydroxy-5-oxoesters. Tetrahedron: Asymmetry, 2017, 28, 797-802.	1.8	5
67	Dual Activity of Grubbs-Type Catalyst in the Transvinylation of Carboxylic Acids and Ring-Closing Metathesis Reactions. Journal of Organic Chemistry, 2020, 85, 15305-15313.	1.7	5
68	Selective Palladiumâ€Catalyzed Î±,Î²â€Homodiarylation of Vinyl Esters in Aqueous Medium. European Journal of Organic Chemistry, 0, , .	1.2	5
69	The influence of cosolvent concentration on enzymatic kinetic resolution oftrans-2-phenyl-cyclopropane-1-carboxylic acid derivatives. Biocatalysis and Biotransformation, 2015, 33, 98-104.	1.1	4
70	Evaluation of Pseudoenantiomeric Mixed Carbonates as Efficient Fluorogenic Probes for Enantioselectivity Screening. ChemBioChem, 2016, 17, 71-76.	1.3	4
71	Studies on asymmetric synthesis of bicyclomycin precursors. A chemoenzymatic route to chiral 2,5-diketopiperazines and 2-oxa-bicyclo[4.2.2]decane-8,10-diones. Tetrahedron: Asymmetry, 2017, 28, 1127-1134.	1.8	4
72	Evaluation of thionolactones as a new type of hydrogen sulfide (H2S) donors for a blood pressure regulation. Bioorganic Chemistry, 2021, 108, 104650.	2.0	4

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73	Evaluation of gem-Diacetates as Alternative Reagents for Enzymatic Regio- and Stereoselective Acylation of Alcohols. Journal of Organic Chemistry, 2021, 86, 6331-6342.	1.7	4
74	The studies on the chemoenzymatic synthesis of 2-benzyl-3-butenoic acid. Catalysis Communications, 2018, 114, 6-9.	1.6	3
75	Model Studies on the Enzymeâ€Regulated Stereodivergent Cascade Passerini Reaction. European Journal of Organic Chemistry, 2021, 2021, 4161-4165.	1.2	3
76	The sustainable copper-catalyzed direct formation of highly functionalized p-quinols in water. Sustainable Chemistry and Pharmacy, 2022, 25, 100576.	1.6	3
77	Evaluation of Biodegradable Glucose Based Surfactants as a Promoting Medium for the Synthesis of Peptidomimetics with the Coumarin Scaffold. ChemistrySelect, 2020, 5, 9607-9614.	0.7	2
78	Intensification of Double Kinetic Resolution of Chiral Amines and Alcohols via Chemoselective Formation of a Carbonateâ€“Enzyme Intermediate. Molecules, 2022, 27, 4346.	1.7	1
79	Screening for amidoxime reductases in plant roots and Saccharomyces cerevisiae â€“ Development of biocatalytic method for chemoselective amidine synthesis. Bioorganic Chemistry, 2022, 124, 105815.	2.0	0