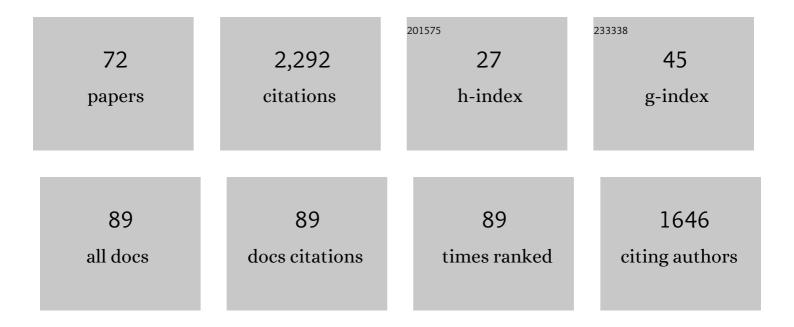
Selİn Kara

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/839393/publications.pdf Version: 2024-02-01



<u> Sfi Ä^oni Kada</u>

#	Article	IF	CITATIONS
1	Photobioreactors for cultivation and synthesis: Specifications, challenges, and perspectives. Engineering in Life Sciences, 2022, 22, 712-724.	2.0	21
2	Expression and activity of heterologous hydroxyisocaproate dehydrogenases in Synechocystis sp. PCC 6803 ΔhoxYH. Engineering Microbiology, 2022, 2, 100008.	2.2	9
3	Impact of deep eutectic solvents (DESs) and individual DES components on alcohol dehydrogenase catalysis: connecting experimental data and molecular dynamics simulations. Green Chemistry, 2022, 24, 1120-1131.	4.6	37
4	Development of a Thioredoxinâ€Based Cofactor Regeneration System for NADPHâ€Dependent Oxidoreductases. ChemCatChem, 2022, 14, .	1.8	5
5	Photobiocatalysis in Continuous Flow. Frontiers in Catalysis, 2022, 1, .	1.8	18
6	Enzyme immobilization in hydrogels: A perfect liaison for efficient and sustainable biocatalysis. Engineering in Life Sciences, 2022, 22, 165-177.	2.0	39
7	Enzymatic Cascade for the Synthesis of 2,5â€Furandicarboxylic Acid in Biphasic and Microaqueous Conditions: â€~Mediaâ€Agnostic' Biocatalysts for Biorefineries. ChemSusChem, 2022, 15, e202102704.	3.6	18
8	A Deep Eutectic Solvent Thermomorphic Multiphasic System for Biocatalytic Applications. Angewandte Chemie - International Edition, 2022, 61, .	7.2	19
9	Unraveling Alcohol Dehydrogenase Catalysis in Organic–Aqueous Biphasic Systems Combining Experiments and Molecular Dynamics Simulations. ACS Catalysis, 2022, 12, 9171-9180.	5.5	11
10	Recent developments in the use of peroxygenases – Exploring their high potential in selective oxyfunctionalisations. Biotechnology Advances, 2021, 51, 107615.	6.0	101
11	Kinetics Modeling of a Convergent Cascade Catalyzed by Monooxygenase–Alcohol Dehydrogenase Coupled Enzymes. Organic Process Research and Development, 2021, 25, 411-420.	1.3	4
12	Divorce in the two-component BVMO family: the single oxygenase for enantioselective chemo-enzymatic Baeyer–Villiger oxidations. Organic and Biomolecular Chemistry, 2021, 19, 3441-3450.	1.5	8
13	Enzyme Cascade Reaction Engineering. , 2021, , 109-124.		1
14	Chromoselective Photocatalysis Enables Stereocomplementary Biocatalytic Pathways**. Angewandte Chemie - International Edition, 2021, 60, 6965-6969.	7.2	52
15	Chromoselective Photocatalysis Enables Stereocomplementary Biocatalytic Pathways**. Angewandte Chemie, 2021, 133, 7041-7045.	1.6	12
16	Coupling light with biocatalysis for sustainable synthesis—very recent developments and future perspectives. Current Opinion in Green and Sustainable Chemistry, 2021, 31, 100496.	3.2	18
17	Can Deep Eutectic Solvents Sustain Oxygen-Dependent Bioprocesses?—Measurements of Oxygen Transfer Rates. ACS Sustainable Chemistry and Engineering, 2021, 9, 8347-8353.	3.2	12
18	Exploring the <i>in Vitro</i> Operating Window of Glycosyltransferase <i>Pt</i> UGT1 from <i>Polygonum tinctorium</i> for a Biocatalytic Route to Indigo Dye. ACS Sustainable Chemistry and Engineering, 2021, 9, 8497-8506.	3.2	7

Selİn Kara

#	Article	IF	CITATIONS
19	Comparison and Validation of Force Fields for Deep Eutectic Solvents in Combination with Water and Alcohol Dehydrogenase. Journal of Chemical Theory and Computation, 2021, 17, 5322-5341.	2.3	17
20	Optimization and Engineering of Fatty Acid Photodecarboxylase for Substrate Specificity. ChemCatChem, 2021, 13, 4038-4046.	1.8	13
21	Internal Illumination to Overcome the Cell Density Limitation in the Scaleâ€up of Whole ell Photobiocatalysis. ChemSusChem, 2021, 14, 3219-3225.	3.6	22
22	Modeling Alcohol Dehydrogenase Catalysis in Deep Eutectic Solvent/Water Mixtures. ChemBioChem, 2020, 21, 811-817.	1.3	28
23	A whole-cell process for the production of ε-caprolactone in aqueous media. Process Biochemistry, 2020, 88, 22-30.	1.8	18
24	The rise of continuous flow biocatalysis – fundamentals, very recent developments and future perspectives. Reaction Chemistry and Engineering, 2020, 5, 2155-2184.	1.9	121
25	Extending the Library of Lightâ€Dependent Protochlorophyllide Oxidoreductases and their Solvent Tolerance, Stability in Light and Cofactor Flexibility. ChemCatChem, 2020, 12, 4044-4051.	1.8	13
26	Deep Eutectic Solvents as Smart Cosubstrate in Alcohol Dehydrogenase-Catalyzed Reductions. Catalysts, 2020, 10, 1013.	1.6	13
27	Solventâ€Free Photobiocatalytic Hydroxylation of Cyclohexane. ChemCatChem, 2020, 12, 4009-4013.	1.8	39
28	Biocatalyst Immobilization by Anchor Peptides on an Additively Manufacturable Material. Organic Process Research and Development, 2019, 23, 1852-1859.	1.3	28
29	Enzymatic Ringâ€Opening Polymerization of Lactones: Traditional Approaches and Alternative Strategies. ChemCatChem, 2019, 11, 4983-4997.	1.8	30
30	Deep Eutectic Solvents as Efficient Solvents in Biocatalysis. Trends in Biotechnology, 2019, 37, 943-959.	4.9	262
31	Characterization of new Baeyer-Villiger monooxygenases for lactonizations in redox-neutral cascades. Molecular Catalysis, 2019, 468, 44-51.	1.0	20
32	Convergent Cascade Catalyzed by Monooxygenase–Alcohol Dehydrogenase Fusion Applied in Organic Media. ChemBioChem, 2019, 20, 1653-1658.	1.3	20
33	Enzymatische Umsetzung von Catechol zu 2,3-Dihydroxybenzoesäre mit Amin-postfunktionalisierten Silicagelen. Chemie-Ingenieur-Technik, 2018, 90, 1276-1276.	0.4	0
34	Biocatalytic synthesis of lactones and lactams. Chemistry - an Asian Journal, 2018, 13, 3601-3610.	1.7	34
35	Deep eutectic solvents in biocatalysis. Chemie-Ingenieur-Technik, 2018, 90, 1259-1259.	0.4	0
36	Horse Liver Alcohol Dehydrogenase-Catalyzed Oxidative Lactamization of Amino Alcohols. ACS Catalysis, 2018, 8, 8680-8684.	5.5	35

SEL	İN	Kara

#	Article	IF	CITATIONS
37	Synthesis of (-)-menthol fatty acid esters in and from (-)-menthol and fatty acids – novel concept for lipase catalyzed esterification based on eutectic solvents. Molecular Catalysis, 2018, 458, 67-72.	1.0	57
38	Prinzipien der angewandten Biokatalyse. , 2018, , 225-242.		1
39	Kinetic insights into ϵ aprolactone synthesis: Improvement of an enzymatic cascade reaction. Biotechnology and Bioengineering, 2017, 114, 1215-1221.	1.7	50
40	Nicotinamide Adenine Dinucleotideâ€Dependent Redoxâ€Neutral Convergent Cascade for Lactonizations with Type II Flavinâ€Containing Monooxygenase. Advanced Synthesis and Catalysis, 2017, 359, 2142-2148.	2.1	27
41	Reaction engineering of biocatalytic (S)-naproxen synthesis integrating in-line process monitoring by Raman spectroscopy. Reaction Chemistry and Engineering, 2017, 2, 531-540.	1.9	12
42	Development and Scaling-Up of the Fragrance Compound 4-Ethylguaiacol Synthesis via a Two-Step Chemo-Enzymatic Reaction Sequence. Organic Process Research and Development, 2017, 21, 85-93.	1.3	36
43	Amineâ€Mediated Enzymatic Carboxylation of Phenols Using CO ₂ as Substrate Increases Equilibrium Conversions and Reaction Rates. Biotechnology Journal, 2017, 12, 1700332.	1.8	14
44	Fungal BVMOs as alternatives to cyclohexanone monooxygenase. Enzyme and Microbial Technology, 2017, 106, 11-17.	1.6	18
45	Photobiocatalytic alcohol oxidation using LED light sources. Green Chemistry, 2017, 19, 376-379.	4.6	44
46	Improvement of the Process Stability of Arylmalonate Decarboxylase by Immobilization for Biocatalytic Profen Synthesis. Frontiers in Microbiology, 2017, 8, 448.	1.5	18
47	A Fedâ€Batch Synthetic Strategy for a Threeâ€Step Enzymatic Synthesis of Polyâ€iµâ€caprolactone. ChemCatChem, 2016, 8, 3446-3452.	1.8	50
48	Evaluation of the Substrate Scope of Benzoic Acid (De)carboxylases According to Chemical and Biochemical Parameters. ChemBioChem, 2016, 17, 1845-1850.	1.3	11
49	Enhancing the productivity of the bi-enzymatic convergent cascade for É>-caprolactone synthesis through design of experiments and a biphasic system. Tetrahedron, 2016, 72, 7222-7228.	1.0	37
50	A Biâ€enzymatic Convergent Cascade for ε aprolactone Synthesis Employing 1,6â€Hexanediol as a â€~Double‧mart Cosubstrate'. ChemCatChem, 2015, 7, 2442-2445.	1.8	55
51	Scaling-Up of "Smart Cosubstrate―1,4-Butanediol Promoted Asymmetric Reduction of Ethyl-4,4,4-trifluoroacetoacetate in Organic Media. Organic Process Research and Development, 2015, 19, 369-372.	1.3	29
52	Reversibility of asymmetric catalyzed C–C bond formation by benzoylformate decarboxylase. Catalysis Science and Technology, 2015, 5, 2418-2426.	2.1	3
53	Complete Enzymatic Oxidation of Methanol to Carbon Dioxide: Towards More Ecoâ€Efficient Regeneration Systems for Reduced Nicotinamide Cofactors. Advanced Synthesis and Catalysis, 2015, 357, 1687-1691.	2.1	26
54	Medium and reaction engineering for the establishment of a chemo-enzymatic dynamic kinetic resolution of rac-benzoin in batch and continuous mode. Journal of Molecular Catalysis B: Enzymatic, 2015, 114, 42-49.	1.8	43

Selİn Kara

#	Article	IF	CITATIONS
55	Lightâ€Accelerated Biocatalytic Oxidation Reactions. ChemPlusChem, 2014, 79, 1554-1557.	1.3	19
56	Alcohol dehydrogenase stabilization by additives under industrially relevant reaction conditions. Journal of Molecular Catalysis B: Enzymatic, 2014, 103, 24-28.	1.8	21
57	Exploring the Substrate Specificity and Enantioselectivity of a Baeyer–Villiger Monooxygenase from Dietzia sp. D5: Oxidation of Sulfides and Aldehydes. Topics in Catalysis, 2014, 57, 366-375.	1.3	30
58	Recent trends and novel concepts in cofactor-dependent biotransformations. Applied Microbiology and Biotechnology, 2014, 98, 1517-1529.	1.7	123
59	Chemo-enzymatische heterogenkatalysierte Eintopfsynthese von enantiomerenreinem Benzoin. Chemie-Ingenieur-Technik, 2014, 86, 1488-1488.	0.4	0
60	Bioreductions Catalyzed by an Alcohol Dehydrogenase in Nonâ€aqueous Media. ChemCatChem, 2014, 6, 973-976.	1.8	45
61	Expanding the Scope of Laccaseâ€Mediator Systems. ChemCatChem, 2013, 5, 3027-3032.	1.8	37
62	One-pot combination of enzyme and Pd nanoparticle catalysis for the synthesis of enantiomerically pure 1,2-amino alcohols. Green Chemistry, 2013, 15, 3318.	4.6	75
63	Access to Lactone Building Blocks via Horse Liver Alcohol Dehydrogenase-Catalyzed Oxidative Lactonization. ACS Catalysis, 2013, 3, 2436-2439.	5.5	71
64	More efficient redox biocatalysis by utilising 1,4-butanediol as a â€~̃smart cosubstrate'. Green Chemistry, 2013, 15, 330.	4.6	56
65	Berichtigung: Oxidation von Aldehyden mit Alkoholdehydrogenasen. Angewandte Chemie, 2012, 124, 12094-12094.	1.6	1
66	Enantioselective Oxidation of Aldehydes Catalyzed by Alcohol Dehydrogenase. Angewandte Chemie - International Edition, 2012, 51, 9914-9917.	7.2	74
67	Immobilization and characterization of benzoylformate decarboxylase from Pseudomonas putida on spherical silica carrier. Bioprocess and Biosystems Engineering, 2011, 34, 671-680.	1.7	6
68	Influence of reaction conditions on the enantioselectivity of biocatalyzed C–C bond formations under high pressure conditions. Journal of Biotechnology, 2011, 152, 87-92.	1.9	19
69	Fluorescence spectroscopy as a novel method for on-line analysis of biocatalytic C–C bond formations. Journal of Molecular Catalysis B: Enzymatic, 2010, 66, 124-129.	1.8	7
70	Fluoreszenzspektroskopie als neue Methode für die Online-Analyse biokatalytischer C-C-Knüpfungsreaktionen. Chemie-Ingenieur-Technik, 2010, 82, 1528-1529.	0.4	0
71	Influence of the hydrostatic pressure and pH on the asymmetric 2â€hydroxyketone formation catalyzed by <i>Pseudomonas putida</i> benzoylformate decarboxylase and variants thereof. Biotechnology and Bioengineering, 2010, 106, 18-26.	1.7	15
72	A Deep Eutectic Solvent Thermomorphic Multiphasic System for Biocatalytic Applications. Angewandte Chemie, 0, , .	1.6	0