

# Andr s R Alc ntara

## List of Publications by Year in descending order

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105  
papers

4,930  
citations

94433

37  
h-index

98798

67  
g-index

136  
all docs

136  
docs citations

136  
times ranked

4494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Editorial: Recent Advances in Biocatalysis: Focusing on Applications of These Processes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 844741.	4.1	0
2	Biocatalysis as Key to Sustainable Industrial Chemistry. <i>ChemSusChem</i> , 2022, 15, e202102709.	6.8	52
3	Biocatalysis as Key to Sustainable Industrial Chemistry. <i>ChemSusChem</i> , 2022, , e202200709.	6.8	2
4	Preface to Special Issue on Biocatalysis as Key to Sustainable Industrial Chemistry. <i>ChemSusChem</i> , 2022, 15, e202200640.	6.8	2
5	Enzyme co-immobilization: Always the biocatalyst designers' choice or not?. <i>Biotechnology Advances</i> , 2021, 51, 107584.	11.7	152
6	Biotechnological relevance of the lipase A from <i>Candida antarctica</i> . <i>Catalysis Today</i> , 2021, 362, 141-154.	4.4	78
7	Magnetic micro-macro biocatalysts applied to industrial bioprocesses. <i>Bioresource Technology</i> , 2021, 322, 124547.	9.6	42
8	Taking advantage of lithium monohalocarbenoid intrinsic $\beta$ -elimination in 2-MeTHF: controlled epoxide ring-opening route to halohydrins. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 2038-2043.	2.8	10
9	Structural insights into the desymmetrization of bulky 1,2-dicarbonyls through enzymatic monoreduction. <i>Bioorganic Chemistry</i> , 2021, 108, 104644.	4.1	6
10	Special Issue on "Applied Biocatalysis in Europe: A Sustainable Tool for Improving Life Quality". <i>Catalysts</i> , 2021, 11, 339.	3.5	0
11	Multienzymatic Processes Involving Baeyer-Villiger Monooxygenases. <i>Catalysts</i> , 2021, 11, 605.	3.5	12
12	Chitosan: An Overview of Its Properties and Applications. <i>Polymers</i> , 2021, 13, 3256.	4.5	373
13	CHAPTER 9. Biomass-derived Solvents. , 2021, , 239-279.		1
14	Recent Developments in the Synthesis of $\beta$ -Diketones. <i>Pharmaceuticals</i> , 2021, 14, 1043.	3.8	16
15	Biocatalysis at Extreme Temperatures: Enantioselective Synthesis of both Enantiomers of Mandelic Acid by Transesterification Catalyzed by a Thermophilic Lipase in Ionic Liquids at 120 °C. <i>Catalysts</i> , 2020, 10, 1055.	3.5	12
16	Enzyme production of D-gluconic acid and glucose oxidase: successful tales of cascade reactions. <i>Catalysis Science and Technology</i> , 2020, 10, 5740-5771.	4.1	80
17	Enzyme-Coated Micro-Crystals: An Almost Forgotten but Very Simple and Elegant Immobilization Strategy. <i>Catalysts</i> , 2020, 10, 891.	3.5	35
18	One Pot Use of Combilipases for Full Modification of Oils and Fats: Multifunctional and Heterogeneous Substrates. <i>Catalysts</i> , 2020, 10, 605.	3.5	55

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19	Dextran Aldehyde in Biocatalysis: More Than a Mere Immobilization System. <i>Catalysts</i> , 2019, 9, 622.	3.5	32
20	Biocatalysis as Useful Tool in Asymmetric Synthesis: An Assessment of Recently Granted Patents (2014–2019). <i>Catalysts</i> , 2019, 9, 802.	3.5	69
21	Biocatalysis and Pharmaceuticals: A Smart Tool for Sustainable Development. <i>Catalysts</i> , 2019, 9, 792.	3.5	22
22	Developments with multi-target drugs for Alzheimer's disease: an overview of the current discovery approaches. <i>Expert Opinion on Drug Discovery</i> , 2019, 14, 879-891.	5.0	60
23	Biocatalyzed Synthesis of Statins: A Sustainable Strategy for the Preparation of Valuable Drugs. <i>Catalysts</i> , 2019, 9, 260.	3.5	36
24	Immobilization of lipases on hydrophobic supports: immobilization mechanism, advantages, problems, and solutions. <i>Biotechnology Advances</i> , 2019, 37, 746-770.	11.7	409
25	Efficient reduction of Toluidine Blue O dye using silver nanoparticles synthesized by low molecular weight chitosans. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 682-690.	7.5	17
26	Cyclopentyl Methyl Ether (CPME): A Versatile Eco-Friendly Solvent for Applications in Biotechnology and Biorefineries. <i>ChemSusChem</i> , 2019, 12, 2083-2097.	6.8	99
27	Genipin as An Emergent Tool in the Design of Biocatalysts: Mechanism of Reaction and Applications. <i>Catalysts</i> , 2019, 9, 1035.	3.5	55
28	Biocatalyzed Synthesis of Antidiabetic Drugs. , 2019, , 349-436.		0
29	Biocatalysis in Spain: A field of success and innovation. <i>Biocatalysis and Biotransformation</i> , 2018, 36, 180-183.	2.0	0
30	Merging lithium carbenoid homologation and enzymatic reduction: A combinative approach to the HIV-protease inhibitor Nelfinavir. <i>Tetrahedron</i> , 2018, 74, 2211-2217.	1.9	21
31	Biocatalyzed synthesis of antidiabetic drugs: A review. <i>Biocatalysis and Biotransformation</i> , 2018, 36, 12-46.	2.0	5
32	Recent Advances on the Use of 2-methyltetrahydrofuran (2-MeTHF) in Biotransformations. <i>Current Green Chemistry</i> , 2018, 5, 86-103.	1.1	63
33	Biocatalyzed Production of Fine Chemicals. , 2017, , 334-373.		7
34	Covalent Immobilization of <i>Pseudomonas stutzeri</i> Lipase on a Porous Polymer: An Efficient Biocatalyst for a Scalable Production of Enantiopure Benzoin Esters under Sustainable Conditions. <i>Organic Process Research and Development</i> , 2015, 19, 687-694.	2.7	14
35	Redesigning the synthesis of vidarabine via a multienzymatic reaction catalyzed by immobilized nucleoside phosphorylases. <i>RSC Advances</i> , 2015, 5, 23569-23577.	3.6	26
36	First stereoselective acylation of a primary diol possessing a prochiral quaternary center mediated by lipase TL from <i>Pseudomonas stutzeri</i> . <i>Tetrahedron</i> , 2015, 71, 9172-9176.	1.9	4

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37	Chemoenzymatic Synthesis of Carbohydrates as Antidiabetic and Anticancer Drugs. <i>Current Topics in Medicinal Chemistry</i> , 2015, 14, 2694-2711.	2.1	9
38	Highly efficient and environmentally benign preparation of Weinreb amides in the biphasic system 2-MeTHF/water. <i>RSC Advances</i> , 2013, 3, 10158.	3.6	22
39	Chemoselective Synthesis of <i>N</i> -Substituted $\alpha$ -Amino $\alpha$ -Chloro Ketones <i>via</i> Chloromethylation of Glycine-Derived Weinreb Amides. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 919-926.	4.3	41
40	Chemoselective oxidative hydrolysis of EWG protected $\alpha$ -arylamino vinyl bromides to $\alpha$ -arylamino $\alpha$ -bromoacetones. <i>Tetrahedron Letters</i> , 2013, 54, 4369-4372.	1.4	9
41	Lipase from <i>Pseudomonas stutzeri</i> : Purification, homology modelling and rational explanation of the substrate binding mode. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 87, 88-98.	1.8	30
42	Chemoselective CaO-Mediated Acylation of Alcohols and Amines in 2-Methyltetrahydrofuran. <i>ChemSusChem</i> , 2013, 6, 905-910.	6.8	18
43	Biocatalyzed On Water Synthesis of Chiral Building Blocks for the Preparation of Anti-Cancer Drugs: a Greener Approach. <i>Current Organic Chemistry</i> , 2013, 17, 1132-1157.	1.6	6
44	Biocatalysis in the Pharmaceutical Industry. A Greener Future. <i>Current Green Chemistry</i> , 2013, 1, 155-181.	1.1	24
45	2-Methyltetrahydrofuran (2-MeTHF): A Biomass-Derived Solvent with Broad Application in Organic Chemistry. <i>ChemSusChem</i> , 2012, 5, 1369-1379.	6.8	520
46	Dynamic Kinetic Resolution <i>via</i> Hydrolase-Metal Combo Catalysis in Stereoselective Synthesis of Bioactive Compounds. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2585-2611.	4.3	76
47	Robust eco-friendly protocol for the preparation of $\beta$ -hydroxy- $\alpha$ -acetylenic esters by sequential one-pot elimination-addition of 2-bromoacrylates to aldehydes promoted by LTMP in 2-MeTHF. <i>Green Chemistry</i> , 2012, 14, 1859.	9.0	30
48	Industrial biotransformations in the synthesis of building blocks leading to enantiopure drugs. <i>Bioresource Technology</i> , 2012, 115, 196-207.	9.6	185
49	Enantioselective reduction and deracemisation using the non-conventional yeast <i>Pichia glucozyma</i> in water/organic solvent biphasic systems: preparation of (S)-1,2-diaryl-2-hydroxyethanones (benzoin). <i>Tetrahedron</i> , 2012, 68, 523-528.	1.9	34
50	Highly efficient chemoselective N-TBS protection of anilines under exceptional mild conditions in the eco-friendly solvent 2-methyltetrahydrofuran. <i>Green Chemistry</i> , 2011, 13, 1986.	9.0	37
51	Biocatalyzed Production of Fine Chemicals. , 2011, , 309-331.		7
52	Chemoenzymatic synthesis of chiral unsymmetrical benzoin esters. <i>Tetrahedron</i> , 2011, 67, 7321-7329.	1.9	26
53	Structural bases for understanding the stereoselectivity in ketone reductions with ADH from <i>Thermus thermophilus</i> : A quantitative model. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 70, 23-31.	1.8	16
54	Optimised Dynamic Kinetic Resolution of benzoin by a chemoenzymatic approach in 2-MeTHF. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 72, 20-24.	1.8	41

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55	Synthesis of 2-Aminoepoxides from Aminohalohydrins Using KF on Celite. <i>Synfacts</i> , 2011, 2011, 1051-1051.	0.0	0
56	Highly Regioselective and Efficient Synthesis of Aminoepoxides by Ring Closure of Aminohalohydrins Mediated by KF-Celite. <i>Synlett</i> , 2011, 2011, 1831-1834.	1.8	11
57	Celite-Supported Reagents in Organic Synthesis: An Overview. <i>Current Organic Chemistry</i> , 2010, 14, 2384-2408.	1.6	23
58	Applied Biotransformations in Green Solvents. <i>Chemistry - A European Journal</i> , 2010, 16, 9422-9437.	3.3	99
59	First General Route to Substituted $\alpha$ -Arylamino- $\beta$ -chloropropan-2-ones by Oxidation of N-Protected Aminohalohydrins: The Importance of Disrupting Hydrogen Bond Networks. <i>Synthesis</i> , 2010, 2010, 3545-3555.	2.3	3
60	Biocatalytic Strategies for the Asymmetric Synthesis of $\alpha$ -Hydroxy Ketones. <i>Accounts of Chemical Research</i> , 2010, 43, 288-299.	15.6	211
61	Improved Arndt-Eistert Synthesis of $\alpha$ -Diazoketones Requiring Minimal Diazomethane in the Presence of Calcium Oxide as Acid Scavenger. <i>Journal of Organic Chemistry</i> , 2010, 75, 5760-5763.	3.2	65
62	2-Methyltetrahydrofuran as a suitable green solvent for phthalimide functionalization promoted by supported KF. <i>Green Chemistry</i> , 2010, 12, 1380.	9.0	68
63	Microbial cells as catalysts for stereoselective redox reactions. <i>Biotechnology Advances</i> , 2009, 27, 686-714.	11.7	151
64	Highly Efficient Synthesis of New $\alpha$ -Arylamino- $\beta$ -chloropropan-2-ones via Oxidative Hydrolysis of Vinyl Chlorides Promoted by Calcium Hypochlorite. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 3199-3206.	4.3	25
65	Efficient Horner-Wadsworth-Emmons intramolecular cyclisation of a N-substituted phthalimide promoted by KF-Alumina: a general tool for the synthesis of functionalised isoindolinones. <i>Tetrahedron Letters</i> , 2009, 50, 3050-3053.	1.4	30
66	Biotransformations. , 2009, , 212-251.		3
67	Regioselective enzymatic acylation of pharmacologically interesting nucleosides in 2-methyltetrahydrofuran, a greener substitute for THF. <i>Green Chemistry</i> , 2009, 11, 855.	9.0	64
68	Immobilization of the acylase from <i>Escherichia coli</i> on glyoxyl-agarose gives efficient catalyst for the synthesis of cephalosporins. <i>Enzyme and Microbial Technology</i> , 2008, 42, 121-129.	3.2	28
69	Enantioselective monoreduction of different 1,2-diaryl-1,2-diketones catalysed by lyophilised whole cells from <i>Pichia glucozyma</i> . <i>Tetrahedron</i> , 2008, 64, 7929-7936.	1.9	45
70	Highly efficient one pot dynamic kinetic resolution of benzoin with entrapped <i>Pseudomonas stutzeri</i> lipase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 52-53, 133-139.	1.8	39
71	Dynamic Kinetic Resolution of Benzoin by Lipase-Ru Catalysis. <i>Synfacts</i> , 2007, 2007, 0070-0070.	0.0	0
72	Effective Monoallylation of Anilines Catalyzed by Supported KF. <i>Organic Letters</i> , 2007, 9, 2661-2664.	4.6	45

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73	Chemoenzymatic Dynamic Kinetic Resolution of Allylic Alcohols: A Highly Enantioselective Route to Acyloin Acetates. <i>Organic Letters</i> , 2007, 9, 3401-3404.	4.6	64
74	Dynamic Kinetic Resolution of Benzoin by Lipase-Metal Combo Catalysis. <i>Journal of Organic Chemistry</i> , 2006, 71, 7632-7637.	3.2	70
75	Acyl transfer strategy for the biocatalytical characterisation of <i>Candida rugosa</i> lipases in organic solvents. <i>Enzyme and Microbial Technology</i> , 2006, 38, 199-208.	3.2	15
76	Understanding <i>Candida rugosa</i> lipases: An overview. <i>Biotechnology Advances</i> , 2006, 24, 180-196.	11.7	199
77	<i>Carica papaya</i> lipase (CPL): An emerging and versatile biocatalyst. <i>Biotechnology Advances</i> , 2006, 24, 493-499.	11.7	62
78	<i>Candida rugosa</i> Lipase: A Traditional and Complex Biocatalyst. <i>Current Organic Chemistry</i> , 2006, 10, 1053-1066.	1.6	21
79	Stereoselective synthesis of novel benzoin catalysed by benzaldehyde lyase in a gel-stabilised two-phase system. <i>Tetrahedron</i> , 2005, 61, 7378-7383.	1.9	43
80	Immobilization of different protein fractions from <i>Rhizomucor miehei</i> lipase crude extract. <i>Enzyme and Microbial Technology</i> , 2005, 37, 514-520.	3.2	22
81	Rational strategy for the production of new crude lipases from <i>Candida rugosa</i> . <i>Biotechnology Letters</i> , 2005, 27, 499-503.	2.2	14
82	Heptyl oleate synthesis as useful tool to discriminate between lipases, proteases and other hydrolases in crude preparations. <i>Enzyme and Microbial Technology</i> , 2002, 31, 283-288.	3.2	23
83	Different phyllosilicates as supports for lipase immobilisation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 657-663.	1.8	62
84	Enantioselective properties of <i>Fusarium solani</i> pisi cutinase on transesterification of acyclic diols: activity and stability evaluation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 613-622.	1.8	14
85	Regioselective resolution of 1,n-diols catalysed by lipases: a rational explanation of the enzymatic selectivity. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 1013-1024.	1.8	14
86	Small water amounts increase the catalytic behaviour of polar organic solvents pre-treated <i>Candida rugosa</i> lipase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 939-947.	1.8	16
87	Enantioselective enzymatic hydrolysis of racemic glycidyl esters by using immobilized porcine pancreas lipase with improved catalytic properties. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 757-763.	1.8	20
88	Acyclic phenylalkanediols as substrates for the study of enzyme recognition: synthesis of substrates and enzymatic resolution via hydrolysis and transesterification. <i>Tetrahedron</i> , 1999, 55, 14947-14960.	1.9	7
89	Acyclic phenylalkanediols as substrates for the study of enzyme recognition. Regioselective acylation by porcine pancreatic lipase: a structural hypothesis for the enzymatic selectivity. <i>Tetrahedron</i> , 1999, 55, 14961-14974.	1.9	9
90	<i>Rhizomucor miehei</i> lipase as the catalyst in the resolution of chiral compounds: an overview. <i>Chemistry and Physics of Lipids</i> , 1998, 93, 169-184.	3.2	28

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91	Title is missing!. Biotechnology Letters, 1998, 20, 499-505.	2.2	46
92	Covalent immobilization of crude and partially-purified lipases onto inorganic supports: stability and hyperactivation.. Progress in Biotechnology, 1998, 15, 571-576.	0.2	2
93	Biotransformations catalyzed by <i>Candida rugosa</i> lipase partially purified by precipitation and by organic solvents treatment. Progress in Biotechnology, 1998, 15, 741-746.	0.2	0
94	Enantioselective Esterification of 2-Arylpropionic Acids Catalyzed by Immobilized <i>Rhizomucor miehei</i> Lipase. Journal of Organic Chemistry, 1997, 62, 1831-1840.	3.2	61
95	Organic reactions catalyzed by insolubilized enzymes. Part III. Synthesis of peptides catalyzed by $\pm$ -chymotrypsin immobilized on graft copolymers. Journal of Molecular Catalysis A, 1995, 101, 255-265.	4.8	4
96	Specificity to leaving group in transesterification of substituted phenyl esters in organic solvents catalysed by subtilisin $\alpha$ microgel sols. Journal of Molecular Catalysis, 1993, 81, 119-131.	1.2	4
97	Synthesis of peptides catalysed by enzymes: A practical overview. Journal of Molecular Catalysis, 1993, 84, 327-364.	1.2	18
98	Importance of Hansch's $\sigma$ parameter in the catalytic action of microgel-immobilised subtilisin dissolved in tetrahydrofuran solvent. Journal of Molecular Catalysis, 1993, 80, 137-143.	1.2	3
99	Microgels as soluble supports for enzyme active against polymeric substrates: micrococcal nuclease. Journal of Molecular Catalysis, 1991, 70, 381-389.	1.2	5
100	New methodology for tosylation of hydroxylic supports as exemplified by the immobilization of micrococcal endonuclease on agarose. Applied Biochemistry and Biotechnology, 1990, 26, 297-310.	2.9	7
101	Influence of organic-aqueous media in the DNSAE activity of micrococcal endonuclease. Journal of Molecular Catalysis, 1989, 52, 323-336.	1.2	7
102	Ba(OH) <sub>2</sub> as the catalyst in organic reactions XVIII. Influence of the microcrystalline structure and the nature of active sites on catalytic activity. Journal of Catalysis, 1988, 112, 528-542.	6.2	16
103	Ba(OH) <sub>2</sub> as the catalyst in organic reactions. Journal of Colloid and Interface Science, 1987, 115, 520-528.	9.4	7
104	Synthesis of 2-hydroxychalcones and related compounds in interfacial solid-liquid conditions. Tetrahedron Letters, 1987, 28, 1515-1518.	1.4	70
105	Ba(OH) <sub>2</sub> as catalyst in organic reactions. VIII. Nature of the adsorbed species in Claisen-Schmidt reaction. Reaction Kinetics and Catalysis Letters, 1986, 32, 377-385.	0.6	4