## Anju Chadha

List of Publications by Year in descending order

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Version: 2024-02-01

111 3,062 papers citations

147801 31 h-index 51 g-index

125 all docs 125 docs citations 125 times ranked 2504 citing authors

#	Article	IF	CITATIONS
1	Preparation of biodiesel from crude oil of Pongamia pinnata. Bioresource Technology, 2005, 96, 1425-1429.	9.6	506
2	Covalent nucleoside adducts of benzo[a]pyrene 7,8-diol 9,10-epoxides: structural reinvestigation and characterization of a novel adenosine adduct on the ribose moiety. Journal of Organic Chemistry, 1991, 56, 20-29.	3.2	128
3	Porous silicon based potentiometric triglyceride biosensor. Biosensors and Bioelectronics, 2001, 16, 313-317.	10.1	107
4	Metabolism of geraniol and linalool in the rat and effects on liver and lung microsomal enzymes. Xenobiotica, 1984, 14, 365-374.	1.1	98
5	Covalent Bonding of Bay-Region Diol Epoxides to Nucleic Acids. Advances in Experimental Medicine and Biology, 1991, 283, 533-553.	1.6	76
6	H-Bonding controls the emission properties of functionalized carbon nano-dots. Physical Chemistry Chemical Physics, 2017, 19, 7288-7296.	2.8	74
7	Biocatalytic deracemisation of α-hydroxy esters: high yield preparation of (S)-ethyl 2-hydroxy-4-phenylbutanoate from the racemate. Tetrahedron: Asymmetry, 2002, 13, 1461-1464.	1.8	64
8	Asymmetric reduction of aryl imines using Candida parapsilosis ATCC 7330. Tetrahedron: Asymmetry, 2008, 19, 93-96.	1.8	61
9	Kinetic study of the base-catalyzed transesterification of monoglycerides from pongamia oil. JAOCS, Journal of the American Oil Chemists' Society, 2004, 81, 425-430.	1.9	59
10	Kinetic Studies of Base-Catalyzed Transesterification Reactions of Non-edible Oils To Prepare Biodiesel: The Effect of Co-solvent and Temperature. Energy & Energy & 2011, 25, 2826-2832.	5.1	52
11	Kinetics of base-catalyzed transesterification of triglycerides from Pongamia oil. JAOCS, Journal of the American Oil Chemists' Society, 2006, 83, 873-877.	1.9	51
12	Deracemisation of aryl substituted α-hydroxy esters using Candida parapsilosis ATCC 7330: effect of substrate structure and mechanism. Tetrahedron, 2005, 61, 12296-12306.	1.9	50
13	Covalent immobilization of Pseudomonas cepacia lipase on semiconducting materials. Applied Surface Science, 2008, 254, 4512-4519.	6.1	50
14	Deracemisation of $\hat{l}^2$ -hydroxy esters using immobilised whole cells of Candida parapsilosis ATCC 7330: substrate specificity and mechanistic investigation. Tetrahedron, 2006, 62, 5133-5140.	1.9	48
15	Estimation of triglycerides by a porous silicon based potentiometric biosensor. Current Applied Physics, 2003, 3, 155-161.	2.4	47
16	Microbial deracemisation of aromatic $\hat{l}^2$ -hydroxy acid esters. Journal of Molecular Catalysis B: Enzymatic, 2004, 29, 25-29.	1.8	47
17	Asymmetric reduction of 2-oxo-4-phenylbutanoic acid ethyl ester by Daucus carota cell cultures. Tetrahedron: Asymmetry, 1996, 7, 1571-1572.	1.8	46
18	Enantiomerically pure allylic alcohols: preparation by Candida parapsilosis ATCC 7330 mediated deracemisation. Tetrahedron: Asymmetry, 2008, 19, 1698-1701.	1.8	46

#	Article	IF	Citations
19	The role of different anions in ionic liquids on Pseudomonas cepacia lipase catalyzed transesterification and hydrolysis. Journal of Molecular Catalysis B: Enzymatic, 2009, 57, 145-148.	1.8	46
20	Asymmetric reduction of alkyl 2-oxo-4-arylbutanoates and -but-3-enoates by Candida parapsilosis ATCC 7330: assignment of the absolute configuration of ethyl 2-hydroxy-4-(p-methylphenyl)but-3-enoate by 1H NMR. Tetrahedron: Asymmetry, 2004, 15, 3961-3966.	1.8	45
21	Enzymatic resolution of 2-hydroxy-4-phenylbutanoic acid and 2-hydroxy-4-phenylbutenoic acid. Tetrahedron: Asymmetry, 1995, 6, 651-652.	1.8	44
22	Deracemisation of aromatic $\hat{l}^2$ -hydroxy esters using immobilised whole cells of Candida parapsilosis ATCC 7330 and determination of absolute configuration by 1H NMR. Tetrahedron: Asymmetry, 2005, 16, 2790-2798.	1.8	44
23	Solid state potentiometric sensor for the estimation of tributyrin and urea. Sensors and Actuators B: Chemical, 2005, 107, 418-423.	7.8	44
24	ï‰-Hydroxylation of acyclic monoterpene alcohols by rat lung microsomes. Biochemical and Biophysical Research Communications, 1982, 108, 1271-1277.	2.1	41
25	Structures of covalent nucleoside adducts formed from adenine, guanine, and cytosine bases of DNA and the optically active bay-region 3,4-diol 1,2-epoxides of dibenz[a,j]anthracene. Journal of the American Chemical Society, 1989, 111, 5456-5463.	13.7	40
26	Studies on varying n-alkanethiol chain lengths on a gold coated surface and their effect on antibody–antigen binding efficiency. RSC Advances, 2015, 5, 80480-80487.	3.6	38
27	Metabolism of 1,8-Cineole in Rat: Its effects on liver and lung microsomal cytochrome P-450 systems. Bulletin of Environmental Contamination and Toxicology, 1986, 37, 759-766.	2.7	37
28	Highly stereoselective reduction of 4-Aryl-2-oxo but-3-enoic carboxylic esters by plant cell culture of Daucus carota. Journal of Molecular Catalysis B: Enzymatic, 2004, 27, 13-17.	1.8	35
29	Comparison of a potentiometric and a micromechanical triglyceride biosensor. Biosensors and Bioelectronics, 2009, 24, 1276-1280.	10.1	35
30	Asymmetric synthesis of (S)-ethyl-4-chloro-3-hydroxybutanoate using Candida parapsilosis ATCC 7330. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 159-165.	3.0	35
31	Structures of covalent nucleoside adducts formed from adenine, guanine, and cytosine bases of DNA and the optically active bay-region 3,4-diol 1,2-epoxides of benz[a]anthracene. Journal of Organic Chemistry, 1993, 58, 4013-4022.	3.2	31
32	Synthesis of hydrocinnamic esters by Pseudomonas cepacia lipase. Enzyme and Microbial Technology, 2003, 32, 485-490.	3.2	31
33	MEMS Composite Porous Silicon/Polysilicon Cantilever Sensor for Enhanced Triglycerides Biosensing. IEEE Sensors Journal, 2009, 9, 1660-1666.	4.7	31
34	Preparation of enantiomerically pure (3E)-alkyl-4-(hetero-2-yl)-2-hydroxybut-3-enoates by Candida parapsilosis ATCC 7330 mediated deracemisation and determination of the absolute configuration of (3E)-ethyl-4-(thiophene-2-yl)-2-hydroxybut-3-enoate. Tetrahedron: Asymmetry, 2007, 18, 1077-1084.	1.8	30
35	One-pot synthesis of enantiomerically pure 1, 2-diols: asymmetric reduction of aromatic α-oxoaldehydes catalysed by Candida parapsilosis ATCC 7330. Tetrahedron: Asymmetry, 2011, 22, 2156-2160.	1.8	30
36	BSA binding to silica capped gold nanostructures: effect of surface cap and conjugation design on nanostructure–BSA interface. RSC Advances, 2014, 4, 1412-1420.	3.6	28

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37	Cyclotides from the Indian Medicinal Plant <i>Viola odorata</i> (Banafsha): Identification and Characterization. Journal of Natural Products, 2017, 80, 1972-1980.	3.0	27
38	Biocatalytic deracemization of alkyl-2-hydroxy-4-arylbut-3-ynoates using whole cells of Candida parapsilosis ATCC 7330. Tetrahedron: Asymmetry, 2010, 21, 2973-2980.	1.8	25
39	Phospholipid stabilized gold nanorods: towards improved colloidal stability and biocompatibility. Physical Chemistry Chemical Physics, 2017, 19, 18494-18504.	2.8	25
40	Docosahexaenoic acid production by a novel high yielding strain of Thraustochytrium sp. of Indian origin: Isolation and bioprocess optimization studies. Algal Research, 2018, 32, 93-100.	4.6	24
41	Biocatalytic reduction of α-keto amides to (R)-α-hydroxy amides using Candida parapsilosis ATCC 7330. Catalysis Today, 2012, 198, 345-352.	4.4	22
42	Candida parapsilosis: A versatile biocatalyst for organic oxidation-reduction reactions. Bioorganic Chemistry, 2016, 68, 187-213.	4.1	22
43	Resolution of N-protected amino acid esters using whole cells of Candida parapsilosis ATCC 7330. Tetrahedron: Asymmetry, 2010, 21, 457-460.	1.8	21
44	Stereochemical preference of Candida parapsilosis ATCC 7330 mediated deracemization: E- versus Z-aryl secondary alcohols. Tetrahedron: Asymmetry, 2012, 23, 1360-1368.	1.8	20
45	Simplified Procedure for TEMPO-Catalyzed Oxidation: Selective Oxidation of Alcohols, α-Hydroxy Esters, and Amides Using TEMPO and Calcium Hypochlorite. Synthetic Communications, 2012, 42, 3493-3503.	2.1	20
46	Preparation of optically pure (3E,5E)-alkyl-2-hydroxy-6-arylhexa-3,5-dienoates by Candida parapsilosis ATCC 7330 mediated deracemisation of the racemates. Tetrahedron, 2007, 63, 4126-4133.	1.9	19
47	Pseudomonas cepacia lipase catalyzed esterification and transesterification of 3-(furan-2-yl) propanoic acid/ethyl ester: A comparison in ionic liquids vs hexane. Journal of Molecular Catalysis B: Enzymatic, 2010, 65, 68-72.	1.8	19
48	Miniaturised silicon biosensors for the detection of triglyceride in blood serum. Analytical Methods, 2014, 6, 1728-1735.	2.7	19
49	Preparation of optically pure alkyl 3-(hetero-2-yl)-3-hydroxypropanoates by Candida parapsilosis ATCC 7330 mediated deracemisation. Journal of Molecular Catalysis B: Enzymatic, 2008, 52-53, 168-172.	1.8	18
50	Yeast supported gold nanoparticles: an efficient catalyst for the synthesis of commercially important aryl amines. New Journal of Chemistry, 2021, 45, 1915-1923.	2.8	18
51	Potentiometric estimation of blood analytes—triglycerides and urea: Comparison with clinical data and estimation of urea in milk using an electrolyte–insulator–semiconductor–capacitor (EISCAP). Sensors and Actuators B: Chemical, 2011, 160, 1439-1443.	7.8	17
52	Synthesis of both enantiomers of ethyl-4-chloro-3-hydroxbutanoate from a prochiral ketone using Candida parapsilosis ATCC 7330. Tetrahedron: Asymmetry, 2011, 22, 1548-1552.	1.8	16
53	A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. IEEE Sensors Journal, 2013, 13, 1941-1948.	4.7	16
54	Regio- and enantioselective reduction of diketones: preparation of enantiomerically pure hydroxy ketones catalysed by Candida parapsilosis ATCC 7330. Tetrahedron: Asymmetry, 2015, 26, 1167-1173.	1.8	16

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55	A Novel Method for Monitoring the Transesterification Reaction of Oil in Biodiesel Production by Estimation of Glycerol. JAOCS, Journal of the American Oil Chemists' Society, 2010, 87, 747-754.	1.9	15
56	<i>Candida parapsilosis</i> ATCC 7330 can also deracemise 1-arylethanols. Biocatalysis and Biotransformation, 2011, 29, 262-270.	2.0	15
57	Utilization of whole cell mediated deracemization in a chemoenzymatic synthesis of enantiomerically enriched polycyclic chromeno [4,3-b] pyrrolidines. Organic and Biomolecular Chemistry, 2014, 12, 4682.	2.8	15
58	Biocatalytic deracemisation of aliphatic $\hat{l}^2$ -hydroxy esters: Improving the enantioselectivity by optimisation of reaction parameters. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 173-180.	3.0	15
59	A carbonyl reductase from Candida parapsilosis ATCC 7330: substrate selectivity and enantiospecificity. Organic and Biomolecular Chemistry, 2017, 15, 4165-4171.	2.8	15
60	Production of bioactive cyclotides: a comprehensive overview. Phytochemistry Reviews, 2020, 19, 787-825.	6.5	15
61	Novel applications of silicon and porous silicon based EISCAP biosensors. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1369-1373.	1.8	14
62	Asymmetric Reduction of Alkyl-3-oxobutanoates by Candida parapsilosis ATCC 7330: Insights into Solvent and Substrate Optimisation of the Biocatalytic Reaction. Applied Biochemistry and Biotechnology, 2013, 171, 756-770.	2.9	14
63	Production of bioactive cyclotides in somatic embryos of Viola odorata. Phytochemistry, 2018, 156, 135-141.	2.9	14
64	Callus and cell suspension culture of Viola odorata as in vitro production platforms of known and novel cyclotides. Plant Cell, Tissue and Organ Culture, 2017, 130, 289-299.	2.3	13
65	Expression, purification, crystallization and preliminary X-ray diffraction analysis of carbonyl reductase from <i>Candida parapsilosis</i> ATCC 7330. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 313-315.	0.7	12
66	A simple metal free highly diastereoselective synthesis of heteroaryl substituted ( $\hat{A}_{\pm}$ ) cyclohexanols by a branched domino reaction. Tetrahedron, 2018, 74, 204-216.	1.9	12
67	Pharmacophore based approach to screen and evaluate novel Mycobacterium cell division inhibitors targeting FtsZ – A modelling and experimental study. European Journal of Pharmaceutical Sciences, 2019, 135, 103-112.	4.0	12
68	Mechanism of Lithium Perchlorate/Diethyl Ether-Catalyzed Rearrangement of $\hat{l}_{\pm}$ - and $\hat{l}^{2}$ -endo- and -exo-Dicyclopentadienyl Vinyl Ethers:Â Use of Deuterium Labeling and a Chiral Probe. Journal of Organic Chemistry, 1998, 63, 5318-5323.	3.2	11
69	Miniaturization of EISCAP sensor for triglyceride detection. Journal of Materials Science: Materials in Medicine, 2009, 20, 229-234.	3.6	11
70	Enantio- & Lamp; chemo-selective preparation of enantiomerically enriched aliphatic nitro alcohols using Candida parapsilosis ATCC 7330. RSC Advances, 2015, 5, 73807-73813.	3.6	11
71	Whole resting cells vs. cell free extracts of Candida parapsilosis ATCC 7330 for the synthesis of gold nanoparticles. AMB Express, 2016, 6, 92.	3.0	11
72	Selective transportation of charged ZnO nanoparticles and microorganism dialysis through silicon nanoporous membranes. Journal of Membrane Science, 2016, 503, 16-24.	8.2	11

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73	A facile enzyme assisted route to (R) - and (S)-t-butyloxirane and related $\hat{I}^2$ -amino alcohols - catalysts for the enantioselective addition of dialkylzinc reagents to aldehydes. Tetrahedron: Asymmetry, 1993, 4, 1449-1450.	1.8	10
74	Regio- and enantio-selective oxidation of diols by Candida parapsilosis ATCC 7330. RSC Advances, 2014, 4, 60526-60533.	3.6	10
75	Enantioselective oxidation of secondary alcohols by Candida parapsilosis ATCC 7330. RSC Advances, 2014, 4, 2257-2262.	3.6	10
76	Immobilizing Siderophores on Solid Surfaces for Bacterial Detection. Journal of the Electrochemical Society, 2018, 165, B3017-B3022.	2.9	10
77	<i>Candida parapsilosis</i> ATCC 7330 mediated oxidation of aromatic (activated) primary alcohols to aldehydes. RSC Advances, 2015, 5, 91594-91600.	3.6	9
78	Understanding (R) Specific Carbonyl Reductase from Candida parapsilosis ATCC 7330 [CpCR]: Substrate Scope, Kinetic Studies and the Role of Zinc. Catalysts, 2019, 9, 702.	3.5	9
79	A simple and efficient method for mild and selective oxidation of propargylic alcohols using TEMPO and calcium hypochlorite. RSC Advances, 2013, 3, 14929.	3.6	8
80	A novel green route for the synthesis of N-phenylacetamides, benzimidazoles and acridinediones using Candida parapsilosis ATCC 7330. RSC Advances, 2013, 3, 21972.	3.6	8
81	Preparation of enantiomerically enriched (S)-ethyl 3-hydroxy 4,4,4-trifluorobutanoate using whole cells of Candida parapsilosis ATCC 7330. Journal of Fluorine Chemistry, 2015, 169, 66-71.	1.7	8
82	Synthesis, Single Crystal Structure and Spectroscopic Aspects of Benzo[b]thiophene-3-carbaldehyde Based Chalcones. Journal of Chemical Crystallography, 2016, 46, 245-251.	1.1	8
83	Understanding substrate specificity and enantioselectivity of carbonyl reductase from Candida parapsilosis ATCC 7330 (CpCR): Experimental and modeling studies. Molecular Catalysis, 2018, 460, 40-45.	2.0	8
84	Self-Assembled Inhalable Immunomodulatory Silk Fibroin Nanocarriers for Enhanced Drug Loading and Intracellular Antibacterial Activity. ACS Biomaterials Science and Engineering, 2022, 8, 708-721.	5.2	8
85	Synthesis and Aggregation Properties of Dansylated Glycerolâ€Based Amphiphilic Polyether Dendrons. European Journal of Organic Chemistry, 2010, 2010, 5030-5040.	2.4	6
86	Chemoselective Reduction and Transesterification of $\hat{l}_{\pm}$ -Keto Propargylic Esters Mediated by NaBH4and CeCl3ÂÂ-Â7H2O. Synthetic Communications, 2011, 41, 2350-2358.	2.1	6
87	Preparation, characterisation, and crystal structure analysis of		

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91	Dynamic response of polysilicon microcantilevers to enzymatic hydrolysis of urea. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2010, 2, 17-22.	1.1	4
92	Photophysical investigation of microenvironment in glycerol based dansylated polyether dendrons. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 217, 411-416.	3.9	4
93	Diffusion of Solvent-Separated Ion Pairs Controls Back Electron Transfer Rate in Graphene Quantum Dots. Journal of Physical Chemistry C, 2018, 122, 15819-15825.	3.1	4
94	Pseudomonas cepacia lipase-mediated transesterification reactions of hydrocinnamates. Indian Journal of Biochemistry and Biophysics, 2002, 39, 259-63.	0.0	4
95	Rapid and Simple Method of Monoacylation of Polyols by βâ€Ketoesters Using Microwave Irradiation. Synthetic Communications, 2005, 35, 1151-1160.	2.1	3
96	Studies on cantilever based triglyceride biosensor. , 2007, , .		3
97	Disaggregation induced solvatochromic switch: A study of dansylated polyglycerol dendrons in binary solvent mixture. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 128, 351-356.	3.9	3
98	Direct observation of redox reactions in Candida parapsilosis ATCC 7330 by Confocal microscopic studies. Scientific Reports, 2016, 6, 34344.	3.3	3
99	The Complexity of Microbial Metal Nanoparticle Synthesis: A Study of Candida parapsilosis ATCC 7330 mediated Gold Nanoparticles Formation. BioNanoScience, 2021, 11, 336-344.	3.5	3
100	Packaged bulk micromachined triglyceride biosensor., 2010,,.		2
101	Microbial Synthesis of Gold Nanoparticles and Their Applications as Catalysts. , 2021, , 1081-1108.		2
102	Crystal structure of (E)-1,3-bis(6-methoxynaphthalen-2-yl)prop-2-en-1-one. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 0884-0885.	0.5	2
103	Ultrasensitive detection of antigen–antibody interaction and triglycerides in liquid ambient using polysilicon cantilevers. Journal of Micromechanics and Microengineering, 2020, 30, 125002.	2.6	2
104	Purification and characterisation of (S)-specific alcohol dehydrogenase from Candida parapsilosis ATCC 7330. Biochemical Engineering Journal, 2022, 181, 108406.	3.6	2
105	Substrate selectivity and kinetic studies of (S)-specific alcohol dehydrogenase purified from Candida parapsilosis ATCC 7330. Biocatalysis and Agricultural Biotechnology, 2022, 43, 102410.	3.1	2
106	The proximate carcinogen trans-3,4-dihydroxy-3,4-dihydro-dibenz[c,h]acridine is oxidized stereoselectively and regioselectively by cytochrome 1A1, epoxide hydrolase and hepatic microsomes from 3-methylcholanthrene-treated rats. Chemico-Biological Interactions, 1999, 122, 117-135.	4.0	1
107	Imine reduction by an Ornithine cyclodeaminase/ν-crystallin homolog purified from Candida parapsilosis ATCC 7330. Biotechnology Reports (Amsterdam, Netherlands), 2021, 31, e00664.	4.4	1
108	Microbial Synthesis of Gold Nanoparticles and Their Applications as Catalysts. , 2020, , 1-28.		1

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109	Asymmetric Reduction of Alkyl 2-Oxo-4-arylbutanoates and -but-3-enoates by Candida parapsilosis ATCC 7330: Assignment of the Absolute Configuration of Ethyl 2-Hydroxy-4-(p-methylphenyl)but-3-enoate by1H NMR ChemInform, 2005, 36, no.	0.0	0
110	Rapid and Simple Method of Monoacylation of Polyols by $\hat{l}^2$ -Ketoesters Using Microwave Irradiation ChemInform, 2005, 36, no.	0.0	0
111	A fourier transform infrared spectroscopy (FTIR) based assay for Candida parapsilosis ATCC 7330 mediated oxidation of aryl alcohols. Journal of Biotechnology, 2015, 209, 102-107.	3.8	0