# Uttam Chand Banerjee

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10591170/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 69 papers | 5,252 citations | 257357 24 h-index | 106281 65 g-index |
| 69 all docs | 69 docs citations | 69 times ranked | 6879 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Machine Learning Modeling for Ultrasonication-Mediated Fermentation of Penicillium brevicompactum to Enhance the Release of Mycophenolic Acid. Ultrasound in Medicine and Biology, 2021, 47, 777-786. | 0.7 | 4 |
| 2 | In vivo safety, toxicity, biocompatibility and anti-tumour efficacy of bioinspired silver and selenium nanoparticles. Materials Today Communications, 2021, 26, 102001. | 0.9 | 10 |
| 3 | Optimization of medium composition to increase the expression of recombinant human interferon-Î² using the Plackettâ€“Burman and central composite design in E. coli SE1. 3 Biotech, 2021, 11, 226. | 1.1 | 7 |
| 4 | Insights on the polypyrrole based nanoformulations for photodynamic therapy. Journal of Porphyrins and Phthalocyanines, 2021, 25, 605-622. | 0.4 | 4 |
| 5 | Screening, isolation and selection of a potent lipase producing microorganism and its use in the kinetic resolution of drug intermediates. Journal of the Indian Chemical Society, 2021, 98, 100143. | 1.3 | 9 |
| 6 | Diversifying Arena of Drug Synthesis: In the Realm of Lipase Mediated Waves of Biocatalysis. Catalysts, 2021, 11, 1328. | 1.6 | 10 |
| 7 | Mycophenolate co-administration with quercetin via lipid-polymer hybrid nanoparticles for enhanced breast cancer management. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 24, 102147. | 1.7 | 31 |
| 8 | Optimization of media and culture conditions for the production of tacrolimus by Streptomyces tsukubaensis in shake flask and fermenter level. Biocatalysis and Agricultural Biotechnology, 2020, 29, 101803. | 1.5 | 12 |
| 9 | Liposomal Delivery of Mycophenolic Acid With Quercetin for Improved Breast Cancer Therapy in SD Rats. Frontiers in Bioengineering and Biotechnology, 2020, 8, 631. | 2.0 | 28 |
| 10 | Purification and characterization of arginine deiminase from Pseudomonas putida: Structural insights of the differential affinities of l-arginine analogues. Journal of Bioscience and Bioengineering, 2019, 127, 129-137. | 1.1 | 11 |
| 11 | Machine learning modelling for the ultrasonication-mediated disruption of recombinant E. coli for the efficient release of nitrilase. Ultrasonics, 2019, 98, 72-81. | 2.1 | 4 |
| 12 | Antibiotic-free expression system for the production of human interferon-beta protein. 3 Biotech, 2018, 8, 36. | 1.1 | 6 |
| 13 | Bioreactor studies of production of mycophenolic acid by Penicillium brevicompactum. Biochemical Engineering Journal, 2018, 140, 77-84. | 1.8 | 16 |
| 14 | Generation of novel family of reductases from PCR based library for the synthesis of chiral alcohols and amines. Enzyme and Microbial Technology, 2018, 118, 83-91. | 1.6 | 0 |
| 15 | Facile fabrication of a recyclable nanobiocatalyst: immobilization of Burkholderia cepacia lipase on carbon nanofibers for the kinetic resolution of a racemic atenolol intermediate. RSC Advances, 2018, 8, 27763-27774. | 1.7 | 14 |
| 16 | Machine learning modelling for the high-pressure homogenization-mediated disruption of recombinant E. coli. Process Biochemistry, 2018, 71, 182-190. | 1.8 | 8 |
| 17 | Combined effect of attrition and ultrasound on the disruption of Pseudomonas putida for the efficient release of arginine deiminase. Biotechnology Progress, 2018, 34, 1185-1194. | 1.3 | 9 |
| 18 | Ultrasonic disruption of Pseudomonas putida for the release of arginine deiminase: Kinetics and predictive models. Bioresource Technology, 2017, 233, 74-83. | 4.8 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Surfactant-mediated permeabilization of Pseudomonas putida KT2440 and use of the immobilized permeabilized cells in biotransformation. Process Biochemistry, 2017, 63, 113-121. | 1.8 | 27 |
| 20 | Production of Mycophenolic Acid by Penicillium brevicompactum Using Solid State Fermentation. Applied Biochemistry and Biotechnology, 2017, 182, 97-109. | 1.4 | 24 |
| 21 | Current status and future prospects of nanobiomaterials in drug delivery. , 2016, , 147-170. | | 10 |
| 22 | Chemoenzymatic Route for the Synthesis of (S)â€Moprolol, a Potential Î²â€Blocker. Chirality, 2016, 28, 313-318. | 1.3 | 9 |
| 23 | In silico approach towards lipase mediated chemoenzymatic synthesis of (S)-ranolazine, as an anti-anginal drug. RSC Advances, 2016, 6, 49150-49157. | 1.7 | 5 |
| 24 | Disruption of Pseudomonas putida by high pressure homogenization: a comparison of the predictive capacity of three process models for the efficient release of arginine deiminase. AMB Express, 2016, 6, 84. | 1.4 | 16 |
| 25 | Production of mycophenolic acid by Penicillium brevicompactumâ€"A comparison of two methods of optimization. Biotechnology Reports (Amsterdam, Netherlands), 2016, 11, 77-85. | 2.1 | 39 |
| 26 | Use of response surface method for maximizing the production of arginine deiminase by Pseudomonas putida. Biotechnology Reports (Amsterdam, Netherlands), 2016, 10, 29-37. | 2.1 | 31 |
| 27 | Biocatalytic deracemization: An efficient one-pot synthesis of (R)-Î±-methyl-4-pyridinemethanol using whole cells of Candida parapsilosis. Biocatalysis, 2015, 1, . | 2.3 | 2 |
| 28 | Biocatalytic Approach for the Synthesis of Enantiopure Acebutolol as a Î²<sub>1</sub>â€Selective Blocker. Chirality, 2015, 27, 382-391. | 1.3 | 12 |
| 29 | Induction of Apoptosis and Reduction of Endogenous Glutathione Level by the Ethyl-Acetate Soluble Fraction of the Methanol Extract of the Roots of Potentilla fulgens in Cancer Cells. PLoS ONE, 2015, 10, e0135890. | 1.1 | 11 |
| 30 | Lipase-catalyzed green synthesis of enantiopure atenolol. RSC Advances, 2015, 5, 15850-15860. | 1.7 | 38 |
| 31 | Bio-synthesis of silver nanoparticles using Potentilla fulgens Wall. ex Hook. and its therapeutic evaluation as anticancer and antimicrobial agent. Materials Science and Engineering C, 2015, 53, 120-127. | 3.8 | 118 |
| 32 | Qualitative and Quantitative Analysis of Potentilla fulgens Roots by NMR, Matrixâ€assisted Laser Desorption/Ionisation with Timeâ€ofâ€Flight MS, Electrospray Ionisation MS/MS and HPLC/UV. Phytochemical Analysis, 2015, 26, 161-170. | 1.2 | 18 |
| 33 | Applications of phototheranostic nanoagents in photodynamic therapy. Nano Research, 2015, 8, 1373-1394. | 5.8 | 94 |
| 34 | Biotransformation of 3-cyanopyridine to nicotinic acid by free and immobilized cells of recombinant Escherichia coli. Process Biochemistry, 2014, 49, 655-659. | 1.8 | 22 |
| 35 | Biosynthesis of silver nanoparticles: Elucidation of prospective mechanism and therapeutic potential. Journal of Colloid and Interface Science, 2014, 415, 39-47. | 5.0 | 272 |
| 36 | An investigation of in vivo wound healing activity of biologically synthesized silver nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1. | 0.8 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Quercetin and gallic acid mediated synthesis of bimetallic (silver and selenium) nanoparticles and their antitumor and antimicrobial potential. Journal of Colloid and Interface Science, 2014, 431, 194-199. | 5.0 | 207 |
| 38 | Enantioselective bioreduction of cyclic alkanones by whole cells ofCandidaSpecies. Biocatalysis and Biotransformation, 2013, 31, 123-131. | 1.1 | 9 |
| 39 | Two new stereoisomeric antioxidant triterpenes from Potentilla fulgens. FÃ¬toterapÃ¬Ã¢, 2013, 91, 290-297. | 1.1 | 35 |
| 40 | Synthesis of metallic nanoparticles using plant extracts. Biotechnology Advances, 2013, 31, 346-356. | 6.0 | 1,790 |
| 41 | One-pot synthesis of (R)-1-(1-naphthyl)ethanol by stereoinversion using Candida parapsilosis. Tetrahedron Letters, 2013, 54, 3274-3277. | 0.7 | 16 |
| 42 | Synthesis of Gold Nanoparticles Using Whole Cells of Geotrichum candidum. Journal of Nanoparticles, 2013, 2013, 1-6. | 1.4 | 23 |
| 43 | Free Radical Scavenging and Antioxidant Activity of Silver Nanoparticles Synthesized from Flower Extract of Rhododendron dauricum. Nano Biomedicine and Engineering, 2012, 4, . | 0.3 | 127 |
| 44 | New chemo-enzymatic synthesis of (R)-1-chloro-3-(piperidin-1-yl) propan-2-ol. Tetrahedron: Asymmetry, 2012, 23, 1564-1570. | 1.8 | 12 |
| 45 | Asymmetric reduction of a ketone by wet and lyophilized cells of Geotrichum candidum in organic solvents. New Biotechnology, 2012, 29, 359-364. | 2.4 | 6 |
| 46 | Extracellular Biosynthesis of Silver Nanoparticles Using Aqueous Extract of <I>Candida viswanathii</I>. Journal of Bionanoscience, 2011, 5, 53-58. | 0.4 | 19 |
| 47 | Lipase-mediated kinetic resolution of (RS)-1-bromo-3-[4-(2-methoxy-ethyl)-phenoxy]-propan-2-ol to (R)-1-bromo-3-(4-(2-methoxyethyl) phenoxy) propan-2-yl acetate. Tetrahedron Letters, 2011, 52, 5355-5358. | 0.7 | 6 |
| 48 | Stabilization of Lysozyme by Benzyl Alcohol: Surface Tension and Thermodynamic Parameters. Journal of Pharmaceutical Sciences, 2010, 99, 4149-4161. | 1.6 | 15 |
| 49 | Enantioselective transesterification of racemic phenyl ethanol and its derivatives in organic solvent and ionic liquid using Pseudomonas aeruginosa lipase. Process Biochemistry, 2010, 45, 25-29. | 1.8 | 35 |
| 50 | Stereoselective synthesis of (R)-1-chloro-3(3,4-difluorophenoxy)-2-propanol using lipases from Pseudomonas aeruginosa in ionic liquid-containing system. Journal of Molecular Catalysis B: Enzymatic, 2009, 56, 294-299. | 1.8 | 29 |
| 51 | Enhancing the biocatalytic potential of carbonyl reductase of Candida viswanathii using aqueous-organic solvent system. Bioresource Technology, 2009, 100, 1041-1047. | 4.8 | 29 |
| 52 | Role of benzyl alcohol in the prevention of heat-induced aggregation and inactivation of hen egg white lysozyme. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 71, 367-376. | 2.0 | 19 |
| 53 | Transesterification of primary and secondary alcohols using Pseudomonas aeruginosa lipase. Bioresource Technology, 2008, 99, 2116-2120. | 4.8 | 28 |
| 54 | Production of carbonyl reductase by Geotrichum candidum in a laboratory scale bioreactor. Bioresource Technology, 2008, 99, 8765-8770. | 4.8 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Nitrile Hydrolases. , 2007, , 531-547. | | 8 |
| 56 | Enantioselective transesterification of (RS)-1-chloro-3-(3,4-difluorophenoxy)-2-propanol using Pseudomonas aeruginosa lipases. Tetrahedron: Asymmetry, 2007, 18, 2079-2085. | 1.8 | 16 |
| 57 | Stereoselective Nitrile Hydrolysis by Immobilized Whole-Cell Biocatalyst. Biomacromolecules, 2006, 7, 1536-1541. | 2.6 | 53 |
| 58 | Enantioselective reduction of acetophenone and its derivatives with a new yeast isolate Candida tropicalis PBR-2 MTCC 5158. Biotechnology Journal, 2006, 1, 80-85. | 1.8 | 37 |
| 59 | A rapid and sensitive fluorometric assay method for the determination of nitrilase activity. Biotechnology and Applied Biochemistry, 2003, 37, 289. | 1.4 | 55 |
| 60 | Production, purification, characterization, and applications of lipases. Biotechnology Advances, 2001, 19, 627-662. | 6.0 | 1,152 |
| 61 | Decolorization of triphenylmethane dyes and textile and dye-stuff effluent by Kurthia sp.. Enzyme and Microbial Technology, 1999, 24, 433-437. | 1.6 | 211 |
| 62 | Biodegradation of triphenylmethane dyes. Enzyme and Microbial Technology, 1998, 22, 185-191. | 1.6 | 284 |
| 63 | Transformation of rifamycin B with growing and resting cells of Curvularia lunata. Enzyme and Microbial Technology, 1993, 15, 1037-1041. | 1.6 | 3 |
| 64 | Transformation of rifamycin B with immobilized rifamycin oxidase of Curvularia lunata. Biotechnology Letters, 1993, 7, 339-345. | 0.5 | 3 |
| 65 | Effect of stirrer speed, aeration rate and cell mass concentration on volumetric oxygen transfer coefficients (KLa) in the cultivation of Curvularia lunata in a batch reactor. Biotechnology Letters, 1993, 7, 733-738. | 0.5 | 5 |
| 66 | Effect of glucose and carboxymethylcellulose on growth and rifamycin oxidase production byCurvularia lunata. Current Microbiology, 1993, 26, 261-265. | 1.0 | 4 |
| 67 | Characterization of Rifamycin Oxidase Immobilized on Alginate Gel. Biomaterials, Artificial Cells, and Immobilization Biotechnology: Official Journal of the International Society for Artificial Cells and Immobilization Biotechnology, 1993, 21, 675-683. | 0.2 | 1 |
| 68 | Studies on Rifamycin Oxidase Immobilized on K-Carrageenan Gel. Biomaterials, Artificial Cells, and Immobilization Biotechnology: Official Journal of the International Society for Artificial Cells and Immobilization Biotechnology, 1993, 21, 665-674. | 0.2 | 1 |
| 69 | Studies on rifamycin oxidase immobilized on agar gel.. Journal of General and Applied Microbiology, 1993, 39, 251-255. | 0.4 | 0 |