

# Anil K Patel

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

7,550  
citations

57758

44  
h-index

58581

82  
g-index

91  
all docs

91  
docs citations

91  
times ranked

7015  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in solid-state fermentation. <i>Biochemical Engineering Journal</i> , 2009, 44, 13-18.	3.6	638
2	Environmental application of biochar: Current status and perspectives. <i>Bioresource Technology</i> , 2017, 246, 110-122.	9.6	536
3	Advancement and comparative profiles in the production technologies using solid-state and submerged fermentation for microbial cellulases. <i>Enzyme and Microbial Technology</i> , 2010, 46, 541-549.	3.2	474
4	Recent developments in pretreatment technologies on lignocellulosic biomass: Effect of key parameters, technological improvements, and challenges. <i>Bioresource Technology</i> , 2020, 300, 122724.	9.6	462
5	Role and significance of beta-glucosidases in the hydrolysis of cellulose for bioethanol production. <i>Bioresource Technology</i> , 2013, 127, 500-507.	9.6	459
6	Co-digestion of food waste and sewage sludge for methane production: Current status and perspective. <i>Bioresource Technology</i> , 2018, 265, 519-531.	9.6	235
7	Cellulase adsorption on lignin: A roadblock for economic hydrolysis of biomass. <i>Renewable Energy</i> , 2016, 98, 29-42.	8.9	220
8	Coconut oil cake "a potential raw material for the production of $\alpha$ -amylase. <i>Bioresource Technology</i> , 2004, 93, 169-174.	9.6	194
9	Thermostable cellulases: Current status and perspectives. <i>Bioresource Technology</i> , 2019, 279, 385-392.	9.6	188
10	Production and beneficial impact of biochar for environmental application: A comprehensive review. <i>Bioresource Technology</i> , 2021, 337, 125451.	9.6	180
11	Recent developments on solid-state fermentation for production of microbial secondary metabolites: Challenges and solutions. <i>Bioresource Technology</i> , 2021, 323, 124566.	9.6	145
12	Biological upgrading of volatile fatty acids, key intermediates for the valorization of biowaste through dark anaerobic fermentation. <i>Bioresource Technology</i> , 2013, 145, 166-174.	9.6	135
13	Effect of light conditions on mixotrophic cultivation of green microalgae. <i>Bioresource Technology</i> , 2019, 282, 245-253.	9.6	133
14	Emerging prospects of mixotrophic microalgae: Way forward to sustainable bioprocess for environmental remediation and cost-effective biofuels. <i>Bioresource Technology</i> , 2020, 300, 122741.	9.6	125
15	Separation and fractionation of exopolysaccharides from <i>Porphyridium cruentum</i> . <i>Bioresource Technology</i> , 2013, 145, 345-350.	9.6	124
16	Probiotic Bile Salt Hydrolase: Current Developments and Perspectives. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 166-180.	2.9	118
17	Current understanding of the inhibition factors and their mechanism of action for the lignocellulosic biomass hydrolysis. <i>Bioresource Technology</i> , 2021, 332, 125042.	9.6	116
18	Global status of lignocellulosic biorefinery: Challenges and perspectives. <i>Bioresource Technology</i> , 2022, 344, 126415.	9.6	113

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19	Genetic modification: A tool for enhancing beta-glucosidase production for biofuel application. <i>Bioresource Technology</i> , 2017, 245, 1352-1361.	9.6	110
20	Adsorption of copper (II) in aqueous solution using biochars derived from <i>Ascophyllum nodosum</i> seaweed. <i>Bioresource Technology</i> , 2021, 328, 124829.	9.6	103
21	Trends in renewable energy production employing biomass-based biochar. <i>Bioresource Technology</i> , 2021, 340, 125644.	9.6	96
22	Enhanced cellulase production by <i>Penicillium oxalicum</i> for bio-ethanol application. <i>Bioresource Technology</i> , 2015, 188, 240-246.	9.6	94
23	A review on global perspectives of sustainable development in bioenergy generation. <i>Bioresource Technology</i> , 2022, 348, 126791.	9.6	91
24	Algae as an emerging source of bioactive pigments. <i>Bioresource Technology</i> , 2022, 351, 126910.	9.6	86
25	Structures, Properties and Applications of Alginates. <i>Marine Drugs</i> , 2022, 20, 364.	4.6	86
26	Comparative accounts of probiotic characteristics of <i>Bacillus</i> spp. isolated from food wastes. <i>Food Research International</i> , 2009, 42, 505-510.	6.2	82
27	Novel enzymatic processes applied to the food industry. <i>Current Opinion in Food Science</i> , 2016, 7, 64-72.	8.0	76
28	Resource recovery and biorefinery potential of apple orchard waste in the circular bioeconomy. <i>Bioresource Technology</i> , 2021, 321, 124496.	9.6	76
29	Alpha amylase from a fungal culture grown on oil cakes and its properties. <i>Brazilian Archives of Biology and Technology</i> , 2004, 47, 309-317.	0.5	74
30	Challenges in cellulase bioprocess for biofuel applications. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111622.	16.4	70
31	Emerging prospects of macro- and microalgae as prebiotic. <i>Microbial Cell Factories</i> , 2021, 20, 112.	4.0	68
32	A sustainable mixotrophic microalgae cultivation from dairy wastes for carbon credit, bioremediation and lucrative biofuels. <i>Bioresource Technology</i> , 2020, 313, 123681.	9.6	67
33	Organic wastes bioremediation and its changing prospects. <i>Science of the Total Environment</i> , 2022, 824, 153889.	8.0	67
34	Microalgae Bioenergy with Carbon Capture and Storage (BECCS): An emerging sustainable bioprocess for reduced CO <sub>2</sub> emission and biofuel production. <i>Bioresource Technology Reports</i> , 2019, 7, 100270.	2.7	66
35	Deep eutectic solvents as promising pretreatment agents for sustainable lignocellulosic biorefineries: A review. <i>Bioresource Technology</i> , 2022, 360, 127631.	9.6	66
36	Lignin valorisation via enzymes: A sustainable approach. <i>Fuel</i> , 2022, 311, 122608.	6.4	64

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37	Production, purification and chemical characterization of the catecholate siderophore from potent probiotic strains of <i>Bacillus</i> spp.. <i>Bioresource Technology</i> , 2009, 100, 368-373.	9.6	63
38	Recent advancements in mixotrophic bioprocessing for production of high value microalgal products. <i>Bioresource Technology</i> , 2021, 320, 124421.	9.6	59
39	Development of a chitosan-based adhesive. Application to wood bonding. <i>Journal of Applied Polymer Science</i> , 2013, 127, 5014-5021.	2.6	58
40	Consolidated bioprocessing of lignocellulosic biomass: Technological advances and challenges. <i>Bioresource Technology</i> , 2022, 354, 127153.	9.6	58
41	Sustainable blueberry waste recycling towards biorefinery strategy and circular bioeconomy: A review. <i>Bioresource Technology</i> , 2021, 332, 125181.	9.6	56
42	Split mixotrophy: A novel cultivation strategy to enhance the mixotrophic biomass and lipid yields of <i>Chlorella protothecoides</i> . <i>Bioresource Technology</i> , 2019, 291, 121820.	9.6	55
43	Genetic modification: a tool for enhancing cellulase secretion. <i>Biofuel Research Journal</i> , 2017, 4, 600-610.	13.3	54
44	Engineered mesoporous biochar derived from rice husk for efficient removal of malachite green from wastewaters. <i>Bioresource Technology</i> , 2022, 347, 126749.	9.6	52
45	Chitosan: Emergence as potent candidate for green adhesive market. <i>Biochemical Engineering Journal</i> , 2015, 102, 74-81.	3.6	47
46	Biohydrogen production from a novel alkalophilic isolate <i>Clostridium</i> sp. IODB-O3. <i>Bioresource Technology</i> , 2015, 175, 291-297.	9.6	46
47	Advances in micro- and nano bubbles technology for application in biochemical processes. <i>Environmental Technology and Innovation</i> , 2021, 23, 101729.	6.1	45
48	Role and significance of lytic polysaccharide monooxygenases (LPMOs) in lignocellulose deconstruction. <i>Bioresource Technology</i> , 2021, 335, 125261.	9.6	44
49	Recovery of resources from industrial wastewater employing electrochemical technologies: status, advancements and perspectives. <i>Bioengineered</i> , 2021, 12, 4697-4718.	3.2	43
50	Whey waste as potential feedstock for biohydrogen production. <i>Renewable Energy</i> , 2016, 98, 221-225.	8.9	42
51	Mixotrophic biorefinery: A promising algal platform for sustainable biofuels and high value coproducts. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111669.	16.4	42
52	Developments in bioprocess for bacterial cellulose production. <i>Bioresource Technology</i> , 2022, 344, 126343.	9.6	42
53	Microalgal-Based Carbon Sequestration by Converting LNG-Fired Waste CO <sub>2</sub> into Red Gold Astaxanthin: The Potential Applicability. <i>Energies</i> , 2019, 12, 1718.	3.1	41
54	Advances on tailored biochar for bioremediation of antibiotics, pesticides and polycyclic aromatic hydrocarbon pollutants from aqueous and solid phases. <i>Science of the Total Environment</i> , 2022, 817, 153054.	8.0	41

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55	Algal polysaccharides: current status and future prospects. <i>Phytochemistry Reviews</i> , 2023, 22, 1167-1196.	6.5	41
56	Polysaccharides as Adhesives. <i>Reviews of Adhesion and Adhesives</i> , 2013, 1, 312-345.	3.4	39
57	Production, Purification, and Application of Microbial Enzymes. , 2017, , 13-41.		38
58	Bioprospecting of marine microalgae from Kaohsiung Seacoast for lutein and lipid production. <i>Bioresource Technology</i> , 2022, 351, 126928.	9.6	38
59	Evaluation of Probiotic Characteristics of Siderophoregenic <i>Bacillus</i> spp. Isolated from Dairy Waste. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 140-155.	2.9	37
60	Genetic modification for enhancing bacterial cellulose production and its applications. <i>Bioengineered</i> , 2021, 12, 6793-6807.	3.2	35
61	Development of multiple inhibitor tolerant yeast via adaptive laboratory evolution for sustainable bioethanol production. <i>Bioresource Technology</i> , 2022, 344, 126247.	9.6	34
62	Heterologous expression of bacterial CotA-laccase, characterization and its application for biodegradation of malachite green. <i>Bioresource Technology</i> , 2021, 340, 125708.	9.6	31
63	Enhanced biomass and lipid production of <i>Neochloris oleoabundans</i> under high light conditions by anisotropic nature of light-splitting CaCO <sub>3</sub> crystal. <i>Bioresource Technology</i> , 2019, 287, 121483.	9.6	29
64	Molecular cloning, overexpression and biochemical characterization of hypothetical $\beta$ -lactamases of <i>Mycobacterium tuberculosis</i> H37Rv. <i>Journal of Applied Microbiology</i> , 2008, 105, 59-67.	3.1	26
65	Emerging prospects of microbial production of omega fatty acids: Recent updates. <i>Bioresource Technology</i> , 2022, 360, 127534.	9.6	26
66	Sedimentation rate-based screening of oleaginous microalgae for utilization as a direct combustion fuel. <i>Bioresource Technology</i> , 2019, 293, 122045.	9.6	23
67	Recent advancements in prebiotic oligomers synthesis via enzymatic hydrolysis of lignocellulosic biomass. <i>Bioengineered</i> , 2022, 13, 2139-2172.	3.2	22
68	Preparation of chitosan-based adhesives and assessment of their mechanical properties. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3869-3876.	2.6	21
69	A Critical Review on the Effect of Lignin Redeposition on Biomass in Controlling the Process of Enzymatic Hydrolysis. <i>Bioenergy Research</i> , 2022, 15, 863-874.	3.9	21
70	Advances and Challenges in Biocatalysts Application for High Solid-Loading of Biomass for 2nd Generation Bio-Ethanol Production. <i>Catalysts</i> , 2022, 12, 615.	3.5	20
71	Chitosan-based nanocomposites for removal of Cr(VI) and synthetic food colorants from wastewater. <i>Bioresource Technology</i> , 2022, 351, 127018.	9.6	19
72	Enhancing biohydrogen production from lignocellulosic biomass of Paulownia waste by charge facilitation in Zn doped SnO <sub>2</sub> nanocatalysts. <i>Bioresource Technology</i> , 2022, 355, 127299.	9.6	17

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73	Novel application of microalgae platform for biodesalination process: A review. <i>Bioresource Technology</i> , 2021, 337, 125343.	9.6	16
74	Trends in Lignin Biotransformations for Bio-Based Products and Energy Applications. <i>Bioenergy Research</i> , 2023, 16, 88-104.	3.9	11
75	The effect of heavy rainfall on the exposure risks of sedimentary phthalate esters to aquatic organisms. <i>Chemosphere</i> , 2022, 290, 133204.	8.2	10
76	Effects of Lower Temperature on Expression and Biochemical Characteristics of HCV NS3 Antigen Recombinant Protein. <i>Catalysts</i> , 2021, 11, 1297.	3.5	9
77	Characterization of waste cell biomass derived glutamate decarboxylase for in vitro $\hat{1}^3$ -aminobutyric acid production and value-addition. <i>Bioresource Technology</i> , 2021, 337, 125423.	9.6	8
78	Extraction, Biochemical Characterization, and Health Effects of Native and Degraded Fucoidans from <i>Sargassum crispifolium</i> . <i>Polymers</i> , 2022, 14, 1812.	4.5	8
79	Land Applications of Biochar: An Emerging Area. <i>Energy, Environment, and Sustainability</i> , 2018, , 171-197.	1.0	7
80	Development of novel green methods for preparation of lead-free preserved pidan (duck egg). <i>Journal of Food Science and Technology</i> , 2023, 60, 966-974.	2.8	7
81	Promising enzymes for biomass processing. , 2020, , 245-271.		5
82	Production of Cellulolytic Enzymes for Lignocellulosic Biomass Hydrolysis. , 2019, , 401-426.		4
83	Effects of Temperature and Salinity on Growth, Metabolism and Digestive Enzymes Synthesis of <i>Goniopora columna</i> . <i>Biology</i> , 2022, 11, 436.	2.8	4
84	Biofuels from Biomass. , 2014, , 25-44.		2
85	Solid-State Fermentation. , 2018, , 243-254.		2
86	Resveratrol butyrate esters inhibit lipid biosynthesis in 3T3-L1 cells by AMP-activated protein kinase phosphorylation. <i>Journal of Food Science and Technology</i> , 2023, 60, 1015-1025.	2.8	2
87	Pretreatment of Douglas Fir Wood Biomass for Improving Saccharification Efficiencies. <i>Journal of ASTM International</i> , 2010, 7, 1-8.	0.2	0