

# Raushan Kumar Singh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1451979/publications.pdf>

Version: 2024-02-01

29  
papers

1,371  
citations

471509

17  
h-index

454955

30  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2097  
citing authors

#	ARTICLE	IF	CITATIONS
1	From Protein Engineering to Immobilization: Promising Strategies for the Upgrade of Industrial Enzymes. <i>International Journal of Molecular Sciences</i> , 2013, 14, 1232-1277.	4.1	366
2	Photoelectrochemical Reduction of Carbon Dioxide to Methanol through a Highly Efficient Enzyme Cascade. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3827-3832.	13.8	231
3	Insights into Cell-Free Conversion of CO <sub>2</sub> to Chemicals by a Multienzyme Cascade Reaction. <i>ACS Catalysis</i> , 2018, 8, 11085-11093.	11.2	87
4	Covalent immobilization of $\beta$ -1,4-glucosidase from <i>Agaricus arvensis</i> onto functionalized silicon oxide nanoparticles. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 337-344.	3.6	80
5	Biological methanol production by immobilized <i>Methylocella tundrae</i> using simulated biohythane as a feed. <i>Bioresource Technology</i> , 2017, 241, 922-927.	9.6	61
6	NADH-Free Electroenzymatic Reduction of CO <sub>2</sub> by Conductive Hydrogel-Conjugated Formate Dehydrogenase. <i>ACS Catalysis</i> , 2019, 9, 5584-5589.	11.2	60
7	COMPUTATIONAL APPROACHES FOR RATIONAL DESIGN OF PROTEINS WITH NOVEL FUNCTIONALITIES. <i>Computational and Structural Biotechnology Journal</i> , 2012, 2, e201204002.	4.1	55
8	<i>Canna edulis</i> Leaf Extract-Mediated Preparation of Stabilized Silver Nanoparticles: Characterization, Antimicrobial Activity, and Toxicity Studies. <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 731-738.	2.1	48
9	Photoelectrochemical Reduction of Carbon Dioxide to Methanol through a Highly Efficient Enzyme Cascade. <i>Angewandte Chemie</i> , 2017, 129, 3885-3890.	2.0	44
10	Detection and Characterization of a Novel Copper-Dependent Intermediate in a Lytic Polysaccharide Monooxygenase. <i>Chemistry - A European Journal</i> , 2020, 26, 454-463.	3.3	36
11	Characterization of an L-arabinose isomerase from <i>Bacillus subtilis</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1839-1847.	3.6	35
12	Biosynthesis, biotechnological production, and application of teicoplanin: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 417-428.	3.6	33
13	Role of Conserved Glycine in Zinc-dependent Medium Chain Dehydrogenase/Reductase Superfamily. <i>Journal of Biological Chemistry</i> , 2012, 287, 19429-19439.	3.4	28
14	Molecular cloning and characterization of a GH11 endoxylanase from <i>Chaetomium globosum</i> , and its use in enzymatic pretreatment of biomass. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 7205-7214.	3.6	21
15	Thermal unfolding and refolding of a lytic polysaccharide monooxygenase from <i>Thermoascus aurantiacus</i> . <i>RSC Advances</i> , 2019, 9, 29734-29742.	3.6	21
16	Photobiocatalysis by a Lytic Polysaccharide Monooxygenase Using Intermittent Illumination. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9301-9310.	6.7	20
17	Immobilization of L-arabinitol dehydrogenase on aldehyde-functionalized silicon oxide nanoparticles for L-xylulose production. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1095-1104.	3.6	19
18	The role of the active site tyrosine in the mechanism of lytic polysaccharide monooxygenase. <i>Chemical Science</i> , 2021, 12, 352-362.	7.4	17

#	ARTICLE	IF	CITATIONS
19	Cloning and characterization of a putative $\beta$ -glucosidase (NfBGL595) from <i>Neosartorya fischeri</i> . <i>Process Biochemistry</i> , 2012, 47, 99-105.	3.7	15
20	Protein Engineering Approaches in the Post-Genomic Era. <i>Current Protein and Peptide Science</i> , 2017, 19, 5-15.	1.4	14
21	Probing the Role of Sigma $\pi$ Interaction and Energetics in the Catalytic Efficiency of Endo-1,4- $\beta$ -Xylanase. <i>Applied and Environmental Microbiology</i> , 2012, 78, 8817-8821.	3.1	12
22	pH-rate profiles of l-arabinitol 4-dehydrogenase from <i>Hypocrea jecorina</i> and its application in l-xylulose production. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 173-176.	2.2	12
23	Role of surface residue 184 in the catalytic activity of NADH oxidase from <i>Streptococcus pyogenes</i> . <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 7081-7088.	3.6	12
24	Protonation State of an Important Histidine from High Resolution Structures of Lytic Polysaccharide Monoxygenases. <i>Biomolecules</i> , 2022, 12, 194.	4.0	12
25	Mechanistic studies on the flavin:NADH reductase (PrnF) from <i>Pseudomonas fluorescens</i> involved in arylamine oxygenation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 1344-1347.	2.2	9
26	Role of Glu445 in the substrate binding of $\beta$ -glucosidase. <i>Process Biochemistry</i> , 2012, 47, 2365-2372.	3.7	7
27	d-Ribulose production by a ribitol dehydrogenase from <i>Enterobacter aerogenes</i> coupled with an NADH regeneration system. <i>Biochemical Engineering Journal</i> , 2016, 109, 189-196.	3.6	6
28	Crystal Structure and Substrate Specificity of D-Galactose-6-Phosphate Isomerase Complexed with Substrates. <i>PLoS ONE</i> , 2013, 8, e72902.	2.5	6
29	Titelbild: Photoelectrochemical Reduction of Carbon Dioxide to Methanol through a Highly Efficient Enzyme Cascade ( <i>Angew. Chem.</i> 14/2017). <i>Angewandte Chemie</i> , 2017, 129, 3779-3779.	2.0	3