

# Dipesh Dhakal

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

1,694  
citations

257450

24  
h-index

315739

38  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2099  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in biochemistry and the biotechnological production of taxifolin and its derivatives. <i>Biotechnology and Applied Biochemistry</i> , 2022, 69, 848-861.	3.1	12
2	Editorial: Engineering the Microbial Platform for the Production of Biologics and Small-Molecule Medicines, Volume II. <i>Frontiers in Microbiology</i> , 2022, 13, 827181.	3.5	0
3	Functional Characterization of a Regiospecific Sugar-O-Methyltransferase from <i>Nocardia</i> . <i>Applied and Environmental Microbiology</i> , 2022, 88, .	3.1	3
4	Biosynthesis of bioactive tamarixetin in recombinant <i>Escherichia coli</i> . <i>Biotechnology and Applied Biochemistry</i> , 2021, 68, 531-537.	3.1	3
5	Heterologous production of cyanobacterial compounds. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2021, 48, .	3.0	12
6	Identification and enhancing production of a novel macrolide compound in engineered <i>Streptomyces peucetius</i> . <i>RSC Advances</i> , 2021, 11, 3168-3173.	3.6	6
7	Recent Advances in the Heterologous Biosynthesis of Natural Products from <i>Streptomyces</i> . <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1851.	2.5	8
8	Biocatalytic synthesis of peptidic natural products and related analogues. <i>IScience</i> , 2021, 24, 102512.	4.1	12
9	UPLC-PDA coupled HPLC-TOF ESI/MS 2 based identification of derivatives produced by whole-cell biotransformation of epothilone A using <i>Nocardia</i> sp. CS692 and a cytochrome P450 overexpressing strain. <i>Biotechnology and Applied Biochemistry</i> , 2021, , .	3.1	0
10	Editorial: Recent Advances in Application of Synthetic Biology for Production of Bioactive Compounds. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 819475.	4.1	2
11	Visible light driven Ni-BaMo <sub>3</sub> O <sub>10</sub> photocatalyst for Indigo Carmine degradation: Mechanism and pathways. <i>Materials Science in Semiconductor Processing</i> , 2020, 105, 104697.	4.0	22
12	Morphologies controlled ZnO for inactivation of multidrug-resistant <i>Pseudomonas aeruginosa</i> in solar light. <i>Nanotechnology</i> , 2020, 31, 084002.	2.6	3
13	Visible light driven MoS <sub>2</sub> /NiMoO <sub>4</sub> ultra-thin nanoneedle composite for efficient <i>Staphylococcus aureus</i> inactivation. <i>Journal of Hazardous Materials</i> , 2020, 385, 121553.	12.4	49
14	Increased Production of Dicinnamoylmethane Via Improving Cellular Malonyl-CoA Level by Using a CRISPRi in <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , 2020, 190, 325-340.	2.9	8
15	Novel Nargenicin A1 Analog Inhibits Angiogenesis by Downregulating the Endothelial VEGF/VEGFR2 Signaling and Tumoral HIF-1/VEGF Pathway. <i>Biomedicines</i> , 2020, 8, 252.	3.2	8
16	Characterization of Tailoring Steps of Nargenicin A1 Biosynthesis Reveals a Novel Analogue with Anticancer Activities. <i>ACS Chemical Biology</i> , 2020, 15, 1370-1380.	3.4	13
17	Functional Characterization of NgnL, an Alpha/beta-hydrolase Enzyme Involved in Biosynthesis of Acetylated Nodusmicin. <i>Biotechnology and Bioprocess Engineering</i> , 2020, 25, 414-420.	2.6	1
18	<i>Streptomyces</i> sp. VN1, a producer of diverse metabolites including non-natural furan-type anticancer compound. <i>Scientific Reports</i> , 2020, 10, 1756.	3.3	34

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19	Recent Advances in Strategies for Activation and Discovery/Characterization of Cryptic Biosynthetic Gene Clusters in Streptomyces. <i>Microorganisms</i> , 2020, 8, 616.	3.6	39
20	Engineering actinomycetes for biosynthesis of macrolactone polyketides. <i>Microbial Cell Factories</i> , 2019, 18, 137.	4.0	25
21	Editorial: Engineering the Microbial Platform for the Production of Biologics and Small-Molecule Medicines. <i>Frontiers in Microbiology</i> , 2019, 10, 2307.	3.5	5
22	Production of a Novel Tetrahydroxynaphthalene (THN) Derivative from <i>Nocardia</i> sp. CS682 by Metabolic Engineering and Its Bioactivities. <i>Molecules</i> , 2019, 24, 244.	3.8	10
23	Recent Advances in Exploration and Biotechnological Production of Bioactive Compounds in Three Cyanobacterial Genera: <i>Nostoc</i> , <i>Lyngbya</i> , and <i>Microcystis</i> . <i>Frontiers in Chemistry</i> , 2019, 7, 604.	3.6	31
24	Bioactive molecules from <i>Nocardia</i> : diversity, bioactivities and biosynthesis. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 385-407.	3.0	39
25	Transformation of tetracycline in water during degradation by visible light driven Ag nanoparticles decorated $\text{NiMoO}_4$ nanorods: Mechanism and pathways. <i>Chemical Engineering Journal</i> , 2019, 373, 259-274.	12.7	94
26	Mechanistic understanding of enhanced photocatalytic activity of N-doped $\text{BiVO}_4$ towards degradation of ibuprofen: An experimental and theoretical approach. <i>Molecular Catalysis</i> , 2019, 470, 8-18.	2.0	27
27	Bioactive Compounds from <i>Nocardia</i> : Biosynthesis and Production. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 49-74.	0.5	1
28	Complete Genome Sequence of <i>Nocardia</i> sp. Strain CS682, a Producer of Antibacterial Compound Nargenicin A1. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	9
29	Insight into phosphate doped $\text{BiVO}_4$ heterostructure for multifunctional photocatalytic performances: A combined experimental and DFT study. <i>Applied Surface Science</i> , 2019, 466, 787-800.	6.1	36
30	Efficient inactivation of <i>Staphylococcus aureus</i> by silver and copper loaded photocatalytic titanate nanotubes. <i>Progress in Natural Science: Materials International</i> , 2018, 28, 15-23.	4.4	40
31	Characterization of regioselective flavonoid O- methyltransferase from the <i>Streptomyces</i> sp. KCTC 0041BP. <i>Enzyme and Microbial Technology</i> , 2018, 113, 29-36.	3.2	14
32	Efficient inactivation of <i>Pseudomonas aeruginosa</i> by $\text{Cu/Co-NiMoO}_4$ in visible light. <i>Chemical Engineering Journal</i> , 2018, 347, 366-378.	12.7	33
33	Fabrication of Ag-decorated $\text{BiOBr}/\text{BiVO}_4$ dual heterojunction composite with enhanced visible light photocatalytic performance for degradation of malachite green. <i>Nanotechnology</i> , 2018, 29, 154001.	2.6	23
34	Insight Into Malachite Green Degradation, Mechanism and Pathways by Morphology-tuned $\text{NiMoO}_4$ Photocatalyst. <i>Photochemistry and Photobiology</i> , 2018, 94, 552-563.	2.5	49
35	Complete genome sequence of <i>Streptomyces peucetius</i> ATCC 27952, the producer of anticancer anthracyclines and diverse secondary metabolites. <i>Journal of Biotechnology</i> , 2018, 267, 50-54.	3.8	19
36	Biosynthesis of flavone C-glucosides in engineered <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 1251-1267.	3.6	35

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37	Rapid degradation of naproxen by AgBr- $\hat{\pm}$ -NiMoO <sub>4</sub> composite photocatalyst in visible light: Mechanism and pathways. <i>Chemical Engineering Journal</i> , 2018, 347, 836-848.	12.7	103
38	Genome-guided exploration of metabolic features of <i>Streptomyces peucetius</i> ATCC 27952: past, current, and prospect. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 4355-4370.	3.6	11
39	Inactivation of <i>Staphylococcus aureus</i> in visible light by morphology tuned $\hat{\pm}$ -NiMoO <sub>4</sub> . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 350, 59-68.	3.9	63
40	Substrate Scope of O-Methyltransferase from <i>Streptomyces peucetius</i> for Biosynthesis of Diverse Natural Products Methoxides. <i>Applied Biochemistry and Biotechnology</i> , 2018, 184, 1404-1420.	2.9	11
41	Visible-light-induced Ag/BiVO <sub>4</sub> semiconductor with enhanced photocatalytic and antibacterial performance. <i>Nanotechnology</i> , 2018, 29, 064001.	2.6	72
42	Modular pathway engineering for resveratrol and piceatannol production in engineered <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9691-9706.	3.6	17
43	Improved production of 1-deoxynojirimycin in <i>Escherichia coli</i> through metabolic engineering. <i>World Journal of Microbiology and Biotechnology</i> , 2018, 34, 77.	3.6	16
44	Implication of orphan histidine kinase (OhkAsp) in biosynthesis of doxorubicin and daunorubicin in <i>Streptomyces peucetius</i> ATCC 27952. <i>Microbiological Research</i> , 2018, 214, 37-46.	5.3	4
45	Insight into sulfamethoxazole degradation, mechanism, and pathways by AgBr-BaMoO <sub>4</sub> composite photocatalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 686-695.	3.9	58
46	Metabolic Engineering of <i>Escherichia coli</i> for Enhanced Production of Naringenin 7-Sulfate and Its Biological Activities. <i>Frontiers in Microbiology</i> , 2018, 9, 1671.	3.5	22
47	Microbial production of astilbin, a bioactive rhamnosylated flavanonol, from taxifolin. <i>World Journal of Microbiology and Biotechnology</i> , 2017, 33, 36.	3.6	14
48	Photocatalytic degradation of Rhodamine B and Ibuprofen with upconversion luminescence in Ag-BaMoO <sub>4</sub> : Er <sup>3+</sup> /Yb <sup>3+</sup> /K <sup>+</sup> microcrystals. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 339, 36-48.	3.9	49
49	<i>Actinomyces</i> Species: Laboratory Maintenance and Ribosome Engineering. <i>Current Protocols in Microbiology</i> , 2017, 44, 10G.1.1-10G.1.12.	6.5	1
50	<i>Saccharopolyspora</i> Species: Laboratory Maintenance and Enhanced Production of Secondary Metabolites. <i>Current Protocols in Microbiology</i> , 2017, 44, 10H.1.1-10H.1.13.	6.5	7
51	Ag-BaMoO <sub>4</sub> : Er <sup>3+</sup> /Yb <sup>3+</sup> photocatalyst for antibacterial application. <i>Materials Science and Engineering C</i> , 2017, 78, 1164-1171.	7.3	44
52	Heterologous production of clavulanic acid intermediates in <i>Streptomyces venezuelae</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2017, 22, 359-365.	2.6	5
53	Cu- $\hat{\pm}$ -NiMoO <sub>4</sub> photocatalyst for degradation of Methylene blue with pathways and antibacterial performance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 348, 18-32.	3.9	62
54	Coalition of Biology and Chemistry for Ameliorating Antimicrobial Drug Discovery. <i>Frontiers in Microbiology</i> , 2017, 8, 734.	3.5	18

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55	Marine Rare Actinobacteria: Isolation, Characterization, and Strategies for Harnessing Bioactive Compounds. <i>Frontiers in Microbiology</i> , 2017, 8, 1106.	3.5	108
56	Synthesis of Curcumin Glycosides with Enhanced Anticancer Properties Using One-Pot Multienzyme Glycosylation Technique. <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 1639-1648.	2.1	26
57	Genetic Manipulation of <i>Nocardia</i> Species. <i>Current Protocols in Microbiology</i> , 2016, 40, 10F.2.1-10F.2.18.	6.5	14
58	Enhanced production of nargenicin A1 and creation of a novel derivative using a synthetic biology platform. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 9917-9931.	3.6	25
59	Overexpression of a pathway specific negative regulator enhances production of daunorubicin in <i>bldA</i> deficient <i>Streptomyces peucetius</i> ATCC 27952. <i>Microbiological Research</i> , 2016, 192, 96-102.	5.3	18
60	Commentary: Toward a new focus in antibiotic and drug discovery from the <i>Streptomyces</i> arsenal. <i>Frontiers in Microbiology</i> , 2015, 6, 727.	3.5	15
61	Genetic evidence for the involvement of glycosyltransferase PdmQ and PdmS in biosynthesis of pradimicin from <i>Actinomadura hibisca</i> . <i>Microbiological Research</i> , 2015, 174, 9-16.	5.3	6
62	Enhanced Production of Nargenicin A1 and Generation of Novel Glycosylated Derivatives. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 2934-2949.	2.9	22
63	Structural modification of herboxidiene by substrate-flexible cytochrome P450 and glycosyltransferase. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 3421-3431.	3.6	11
64	Herboxidiene biosynthesis, production, and structural modifications: prospect for hybrids with related polyketide. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8351-8362.	3.6	18
65	Laboratory Maintenance of <i>Nocardia</i> Species. <i>Current Protocols in Microbiology</i> , 2015, 39, 10F.1.1-10F.1.8.	6.5	9
66	Efficient enzymatic systems for synthesis of novel $\beta$ -mangostin glycosides exhibiting antibacterial activity against Gram-positive bacteria. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 8527-8538.	3.6	24
67	An Insight into the $\alpha$ -Omicrons-Based Engineering of Streptomyces for Secondary Metabolite Overproduction. <i>BioMed Research International</i> , 2013, 2013, 1-15.	1.9	79
68	Effect of Different Biosynthetic Precursors on the Production of Nargenicin A1 from Metabolically Engineered <i>Nocardia</i> sp. CS682. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 1127-1132.	2.1	11
69	The Future Science. <i>Nepal Journal of Biotechnology</i> , 2012, 2, .	0.4	0
70	Race for Excellence. <i>Nepal Journal of Biotechnology</i> , 2010, 1, .	0.4	0