

Madan K Kharel

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,755
citations

331670

21
h-index

276875

41
g-index

49
all docs

49
docs citations

49
times ranked

2013
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review of glycosylated bacterial natural products. <i>Chemical Society Reviews</i> , 2015, 44, 7591-7697.	38.1	347
2	Angucyclines: Biosynthesis, mode-of-action, new natural products, and synthesis. <i>Natural Product Reports</i> , 2012, 29, 264-325.	10.3	280
3	Mithramycin Is a Gene-Selective Sp1 Inhibitor That Identifies a Biological Intersection between Cancer and Neurodegeneration. <i>Journal of Neuroscience</i> , 2011, 31, 6858-6870.	3.6	114
4	Baeyer-Villiger C-C Bond Cleavage Reaction in Gilvocarcin and Jadomycin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2012, 134, 18181-18184.	13.7	85
5	A gene cluster for biosynthesis of kanamycin from <i>Streptomyces kanamyceticus</i> : comparison with gentamicin biosynthetic gene cluster. <i>Archives of Biochemistry and Biophysics</i> , 2004, 429, 204-214.	3.0	84
6	Frenolicins C, Pyranonaphthoquinones from <i>Streptomyces</i> sp. RM-4-15. <i>Journal of Natural Products</i> , 2013, 76, 1441-1447.	3.0	62
7	Multi-oxygenase Complexes of the Gilvocarcin and Jadomycin Biosyntheses. <i>Journal of the American Chemical Society</i> , 2007, 129, 3780-3781.	13.7	60
8	Spoxazomicin D and Oxachelin C, Potent Neuroprotective Carboxamides from the Appalachian Coal Fire-Associated Isolate <i>Streptomyces</i> sp. RM-14-6. <i>Journal of Natural Products</i> , 2017, 80, 2-11.	3.0	45
9	Cloning and Characterization of the Ravidomycin and Chrysomycin Biosynthetic Gene Clusters. <i>ChemBioChem</i> , 2010, 11, 523-532.	2.6	44
10	Terfestatins B and C, New p-Terphenyl Glycosides Produced by <i>Streptomyces</i> sp. RM-5-8. <i>Organic Letters</i> , 2015, 17, 2796-2799.	4.6	42
11	Herbimycins F, Ansamycin Analogues from <i>Streptomyces</i> sp. RM-7-15. <i>Journal of Natural Products</i> , 2013, 76, 1619-1626.	3.0	37
12	Cytotoxic Indolocarbazoles from <i>Actinomadura melliaura</i> ATCC 39691. <i>Journal of Natural Products</i> , 2015, 78, 1723-1729.	3.0	37
13	On the Acceptor Substrate of C-Glycosyltransferase UrdGT2: Three Prejadomycin C-Glycosides from an Engineered Mutant of <i>Streptomyces globisporus</i> 1912 ^Δ IndE(urdGT2). <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7842-7846.	13.8	36
14	Venturicidin C, a new 20-membered macrolide produced by <i>Streptomyces</i> sp. TS-2-2. <i>Journal of Antibiotics</i> , 2014, 67, 223-230.	2.0	33
15	Mullinamides A and B, new cyclopeptides produced by the Ruth Mullins coal mine fire isolate <i>Streptomyces</i> sp. RM-27-46. <i>Journal of Antibiotics</i> , 2014, 67, 571-575.	2.0	31
16	Mccrearamycins D, Geldanamycin-Derived Cyclopentenone Macrolactams from an Eastern Kentucky Abandoned Coal Mine Microbe. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2994-2998.	13.8	31
17	Inactivation of the Ketoreductase gilU Gene of the Gilvocarcin Biosynthetic Gene Cluster Yields New Analogues with Partly Improved Biological Activity. <i>ChemBioChem</i> , 2009, 10, 278-286.	2.6	27
18	Cooperation of Two Bifunctional Enzymes in the Biosynthesis and Attachment of Deoxysugars of the Antitumor Antibiotic Mithramycin. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10638-10642.	13.8	27

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19	Delineation of gilvocarcin, jadomycin, and landomycin pathways through combinatorial biosynthetic enzymology. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 150-161.	6.1	26
20	Structure-Guided Functional Characterization of Eneidyne Self-Sacrifice Resistance Proteins, CalU16 and CalU19. <i>ACS Chemical Biology</i> , 2014, 9, 2347-2358.	3.4	24
21	Ruthmycin, a New Tetracyclic Polyketide from <i>Streptomyces</i> sp. RM-4-15. <i>Organic Letters</i> , 2014, 16, 456-459.	4.6	23
22	The Crystal Structure and Mechanism of an Unusual Oxidoreductase, GilR, Involved in Gilvocarcin V Biosynthesis. <i>Journal of Biological Chemistry</i> , 2011, 286, 23533-23543.	3.4	21
23	Investigating Mithramycin Deoxysugar Biosynthesis: Enzymatic Total Synthesis of TDP- <i>olivose</i> . <i>ChemBioChem</i> , 2011, 12, 2568-2571.	2.6	18
24	The native production of the sesquiterpene isopterocarpolone by <i>Streptomyces</i> sp. RM-14-6. <i>Natural Product Research</i> , 2014, 28, 337-339.	1.8	17
25	Renewed interests in the discovery of bioactive actinomycete metabolites driven by emerging technologies. <i>Journal of Applied Microbiology</i> , 2022, 132, 59-77.	3.1	17
26	Isolation of <i>Streptomyces</i> Species from Soil. <i>Current Protocols in Microbiology</i> , 2010, 19, Unit 10E.4.	6.5	16
27	Elucidation of post-PKS tailoring steps involved in landomycin biosynthesis. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 4256.	2.8	16
28	Landomycin biosynthesis and its regulation in <i>Streptomyces</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 1659-1665.	3.6	15
29	Characterization of the TDP-d-ravidosamine biosynthetic pathway: one-pot enzymatic synthesis of TDP-d-ravidosamine from thymidine-5-phosphate and glucose-1-phosphate. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1799.	2.8	14
30	Characterization of l-glutamine:2-deoxy-scylo-inosose aminotransferase (tbmB) from <i>Streptomyces tenebrarius</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 89-92.	2.2	13
31	Ketoolivosyl-tetracenomycin C: A new ketosugar bearing tetracenomycin reveals new insight into the substrate flexibility of glycosyltransferase ElmGT. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 2247-2250.	2.2	12
32	Structure Determination, Functional Characterization, and Biosynthetic Implications of Nybomycin Metabolites from a Mining Reclamation Site-Associated <i>Streptomyces</i> . <i>Journal of Natural Products</i> , 2019, 82, 3469-3476.	3.0	12
33	Delineating the earliest steps of gilvocarcin biosynthesis: role of GilP and GilQ in starter unit specificity. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 3851.	2.8	11
34	Drugs for Gram-Negative Bugs From 2010-2019: A Decade in Review. <i>Open Forum Infectious Diseases</i> , 2020, 7, ofaa276.	0.9	11
35	Structural characterization of AtmS13, a putative sugar aminotransferase involved in indolocarbazole AT2433 aminopentose biosynthesis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 1547-1554.	2.6	10
36	Lethal drugs in capital punishment in USA: History, present, and future perspectives. <i>Research in Social and Administrative Pharmacy</i> , 2016, 12, 1026-1034.	3.0	7

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37	Structural Characterization of CalS8, a TDP- $\hat{1}\pm$ -d-Glucose Dehydrogenase Involved in Calicheamicin Aminodideoxypentose Biosynthesis. <i>Journal of Biological Chemistry</i> , 2015, 290, 26249-26258.	3.4	5
38	Volatile Organic Compound Gamma-Butyrolactone Released upon Herpes Simplex Virus Type -1 Acute Infection Modulated Membrane Potential and Repressed Viral Infection in Human Neuron-Like Cells. <i>PLoS ONE</i> , 2016, 11, e0161119.	2.5	5
39	Optimization of the catalytic activity of manganese dioxide (MnO ₂) nanoparticles for degradation of environmental pollutants. <i>Research on Chemical Intermediates</i> , 2021, 47, 3673-3690.	2.7	5
40	Drugs Used in Tuberculosis and Leprosy. <i>Side Effects of Drugs Annual</i> , 2016, 38, 283-293.	0.6	4
41	Structural dynamics of a methionine $\hat{1}^3$ -lyase for calicheamicin biosynthesis: Rotation of the conserved tyrosine stacking with pyridoxal phosphate. <i>Structural Dynamics</i> , 2016, 3, 034702.	2.3	4
42	Mccrearamycins Aâ€“D, Geldanamycinâ€™Derived Cyclopentenone Macrolactams from an Eastern Kentucky Abandoned Coal Mine Microbe. <i>Angewandte Chemie</i> , 2017, 129, 3040-3044.	2.0	4
43	Drugs Used in Tuberculosis and Leprosy. <i>Side Effects of Drugs Annual</i> , 2015, 37, 349-365.	0.6	3
44	Recent Developments in the Quest for Novel Microbial Natural Products. <i>Studies in Natural Products Chemistry</i> , 2018, 59, 109-152.	1.8	3
45	Soils and spoils: mineralogy and geochemistry of mining and processing wastes from lead and zinc mining at the Gratz Mine, Owen County, Kentucky. <i>Journal of Soils and Sediments</i> , 0, , 1.	3.0	2
46	Method validation of gamma-Hydroxybutyric acid detection upon Herpes Simplex Virus-Type 1 infection using LC-MRM-MS with 3-nitrophenylhydrazine derivatization. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 210, 114547.	2.8	1