

Felipe Lombardi³

List of Publications by Year in descending order

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73
papers

4,479
citations

117571

34
h-index

106281

65
g-index

79
all docs

79
docs citations

79
times ranked

6281
citing authors

#	ARTICLE	IF	CITATIONS
1	Biofilms in the Food Industry: Health Aspects and Control Methods. <i>Frontiers in Microbiology</i> , 2018, 9, 898.	1.5	561
2	Bioavailability of Dietary Polyphenols and Gut Microbiota Metabolism: Antimicrobial Properties. <i>BioMed Research International</i> , 2015, 2015, 1-18.	0.9	558
3	Colon microbiota fermentation of dietary prebiotics towards short-chain fatty acids and their roles as anti-inflammatory and antitumour agents: A review. <i>Journal of Functional Foods</i> , 2016, 25, 511-522.	1.6	257
4	Improving production of bioactive secondary metabolites in actinomycetes by metabolic engineering. <i>Metabolic Engineering</i> , 2008, 10, 281-292.	3.6	254
5	Plant nutraceuticals as antimicrobial agents in food preservation: terpenoids, polyphenols and thiols. <i>International Journal of Antimicrobial Agents</i> , 2018, 52, 309-315.	1.1	186
6	Deciphering the Biosynthesis Pathway of the Antitumor Thiocoraline from a Marine Actinomycete and Its Expression in Two <i>Streptomyces</i> Species. <i>ChemBioChem</i> , 2006, 7, 366-376.	1.3	159
7	Antiproliferative and palliative activity of flavonoids in colorectal cancer. <i>Biomedicine and Pharmacotherapy</i> , 2021, 143, 112241.	2.5	151
8	The aureolic acid family of antitumor compounds: structure, mode of action, biosynthesis, and novel derivatives. <i>Applied Microbiology and Biotechnology</i> , 2006, 73, 1-14.	1.7	149
9	New Insights toward Colorectal Cancer Chemotherapy Using Natural Bioactive Compounds. <i>Frontiers in Pharmacology</i> , 2017, 8, 109.	1.6	117
10	Food, nutrients and nutraceuticals affecting the course of inflammatory bowel disease. <i>Pharmacological Reports</i> , 2016, 68, 816-826.	1.5	109
11	Characterization of <i>Streptomyces argillaceus</i> genes encoding a polyketide synthase involved in the biosynthesis of the antitumor mithramycin. <i>Gene</i> , 1996, 172, 87-91.	1.0	102
12	Terpenoids and Polyphenols as Natural Antioxidant Agents in Food Preservation. <i>Antioxidants</i> , 2021, 10, 1264.	2.2	92
13	Cloning and insertional inactivation of <i>Streptomyces argillaceus</i> genes involved in the earliest steps of biosynthesis of the sugar moieties of the antitumor polyketide mithramycin. <i>Journal of Bacteriology</i> , 1997, 179, 3354-3357.	1.0	79
14	Engineering Biosynthetic Pathways for Deoxysugars: Branched-Chain Sugar Pathways and Derivatives from the Antitumor Tetracenomycin. <i>Chemistry and Biology</i> , 2004, 11, 1709-1718.	6.2	73
15	The Mithramycin Gene Cluster of <i>Streptomyces argillaceus</i> Contains a Positive Regulatory Gene and Two Repeated DNA Sequences That Are Located at Both Ends of the Cluster. <i>Journal of Bacteriology</i> , 1999, 181, 642-647.	1.0	71
16	Radical Decisions in Cancer: Redox Control of Cell Growth and Death. <i>Cancers</i> , 2012, 4, 442-474.	1.7	66
17	A Galacto-Oligosaccharides Preparation Derived From Lactulose Protects Against Colorectal Cancer Development in an Animal Model. <i>Frontiers in Microbiology</i> , 2018, 9, 2004.	1.5	66
18	Novel Hybrid Tetracenomycins through Combinatorial Biosynthesis Using a Glycosyltransferase Encoded by the <i>elm</i> Genes in Cosmid 16F4 and Which Shows a Broad Sugar Substrate Specificity. <i>Journal of the American Chemical Society</i> , 1998, 120, 10596-10601.	6.6	64

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19	Generation of New Landomycins by Combinatorial Biosynthetic Manipulation of the LndGT4 Gene of the Landomycin E Cluster in <i>S. globisporus</i> . <i>Chemistry and Biology</i> , 2004, 11, 547-555.	6.2	63
20	Adenylation and S-Methylation of Cysteine by the Bifunctional Enzyme TioN in Thiocoraline Biosynthesis. <i>Journal of the American Chemical Society</i> , 2014, 136, 17350-17354.	6.6	58
21	De Novo Biosynthesis of Apigenin, Luteolin, and Eriodictyol in the Actinomycete <i>Streptomyces albus</i> and Production Improvement by Feeding and Spore Conditioning. <i>Frontiers in Microbiology</i> , 2017, 8, 921.	1.5	58
22	Combining sugar biosynthesis genes for the generation of l- and d-amicetose and formation of two novel antitumor tetracenomycins. <i>Chemical Communications</i> , 2005, , 1604-1606.	2.2	57
23	Analysis of two chromosomal regions adjacent to genes for a type II polyketide synthase involved in the biosynthesis of the antitumor polyketide mithramycin in <i>Streptomyces argillaceus</i> . <i>Molecular Genetics and Genomics</i> , 1999, 261, 216-225.	2.4	53
24	Genetic Organization of the Biosynthetic Gene Cluster for the Antitumor Angucycline Oviedomycin in <i>Streptomyces antibioticus</i> ATCC 11891. <i>ChemBioChem</i> , 2004, 5, 1181-1187.	1.3	51
25	Functional Anthocyanin-Rich Sausages Diminish Colorectal Cancer in an Animal Model and Reduce Pro-Inflammatory Bacteria in the Intestinal Microbiota. <i>Genes</i> , 2018, 9, 133.	1.0	51
26	De novo biosynthesis of myricetin, kaempferol and quercetin in <i>Streptomyces albus</i> and <i>Streptomyces coelicolor</i> . <i>PLoS ONE</i> , 2018, 13, e0207278.	1.1	50
27	Enhancing the Atom Economy of Polyketide Biosynthetic Processes through Metabolic Engineering. <i>Biotechnology Progress</i> , 2001, 17, 612-617.	1.3	48
28	The mtmVUC genes of the mithramycin gene cluster in <i>Streptomyces argillaceus</i> are involved in the biosynthesis of the sugar moieties. <i>Molecular Genetics and Genomics</i> , 2001, 264, 827-835.	1.0	47
29	Combinatorial Biosynthesis of Antitumor Deoxysugar Pathways in <i>Streptomyces griseus</i> : Reconstitution of an Unnatural Natural Gene Clusters for the Biosynthesis of Four 2,6-d-Dideoxyhexoses. <i>Applied and Environmental Microbiology</i> , 2006, 72, 6644-6652.	1.4	46
30	Plant Phytochemicals in Food Preservation: Antifungal Bioactivity: A Review. <i>Journal of Food Protection</i> , 2020, 83, 163-171.	0.8	46
31	Biosynthesis of elloramycin in <i>Streptomyces olivaceus</i> requires glycosylation by enzymes encoded outside the aglycon cluster. <i>Microbiology (United Kingdom)</i> , 2008, 154, 781-788.	0.7	42
32	Feasibility study of biogas upgrading coupled with nutrient removal from anaerobic effluents using microalgae-based processes. <i>Journal of Applied Phycology</i> , 2016, 28, 2147-2157.	1.5	42
33	An ABC transporter is essential for resistance to the antitumor agent mithramycin in the producer <i>Streptomyces argillaceus</i> . <i>Molecular Genetics and Genomics</i> , 1996, 251, 692-698.	2.4	38
34	Traditional Processed Meat Products Re-designed Towards Inulin-rich Functional Foods Reduce Polyps in Two Colorectal Cancer Animal Models. <i>Scientific Reports</i> , 2019, 9, 14783.	1.6	37
35	Physicochemical, sensory and microbiological characterization of Asturian Chorizo, a traditional fermented sausage manufactured in Northern Spain. <i>Meat Science</i> , 2019, 156, 118-124.	2.7	36
36	Oviedomycin, an Unusual Angucyclinone Encoded by Genes of the Oleandomycin-Producer <i>Streptomyces antibioticus</i> ATCC11891. <i>Journal of Natural Products</i> , 2002, 65, 779-782.	1.5	35

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37	Elucidation of Oxygenation Steps during Oviedomycin Biosynthesis and Generation of Derivatives with Increased Antitumor Activity. <i>ChemBioChem</i> , 2009, 10, 296-303.	1.3	32
38	NMR characterization and evaluation of antibacterial and antibiofilm activity of organic extracts from stationary phase batch cultures of five marine microalgae (<i>Dunaliella</i> sp., <i>D. salina</i> , <i>Chaetoceros</i>) <i>Tj ETQq0 0 OurgBT /Overlock 10 TF</i>		
39	A diet based on cured acorn-fed ham with oleic acid content promotes anti-inflammatory gut microbiota and prevents ulcerative colitis in an animal model. <i>Lipids in Health and Disease</i> , 2020, 19, 28.	1.2	30
40	Healthy effects of prebiotics and their metabolites against intestinal diseases and colorectal cancer. <i>AIMS Microbiology</i> , 2015, 1, 48-71.	1.0	30
41	Insights in the glycosylation steps during biosynthesis of the antitumor anthracycline cosmomycin: characterization of two glycosyltransferase genes. <i>Applied Microbiology and Biotechnology</i> , 2006, 73, 122-131.	1.7	26
42	The structures of premithramycinone and demethylpremithramycinone, plausible early intermediates of the aureolic acid group antibiotic mithramycin. <i>Chemical Communications</i> , 1998, , 437-438.	2.2	25
43	The Novel Hybrid Antitumor Compound Premithramycinone H Provides Indirect Evidence for a Tricyclic Intermediate of the Biosynthesis of the Aureolic Acid Antibiotic Mithramycin. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 796-799.	7.2	25
44	Characterization of TioQ, a type II thioesterase from the thiocoraline biosynthetic cluster. <i>Molecular BioSystems</i> , 2011, 7, 1999.	2.9	21
45	A New Scaffold of an Old Protein Fold Ensures Binding to the Bisintercalator Thiocoraline. <i>Journal of Molecular Biology</i> , 2010, 397, 495-507.	2.0	20
46	Biosynthetic Modularity Rules in the Bisintercalator Family of Antitumor Compounds. <i>Marine Drugs</i> , 2014, 12, 2668-2699.	2.2	18
47	Repositioning microbial biotechnology against COVID-19: the case of microbial production of flavonoids. <i>Microbial Biotechnology</i> , 2021, 14, 94-110.	2.0	18
48	Multiplex detection of nine food-borne pathogens by mPCR and capillary electrophoresis after using a universal pre-enrichment medium. <i>Frontiers in Microbiology</i> , 2015, 6, 1194.	1.5	17
49	Microalgae and Cyanobacteria Strains as Producers of Lipids with Antibacterial and Antibiofilm Activity. <i>Marine Drugs</i> , 2021, 19, 675.	2.2	16
50	Resistance and Endurance Exercise Training Induce Differential Changes in Gut Microbiota Composition in Murine Models. <i>Frontiers in Physiology</i> , 2021, 12, 748854.	1.3	15
51	Chlorosphaerolactylates A-D: Natural Lactylates of Chlorinated Fatty Acids Isolated from the Cyanobacterium <i>Sphaerospermopsis</i> sp. LEGE 00249. <i>Journal of Natural Products</i> , 2020, 83, 1885-1890.	1.5	14
52	Chapter 11 Sugar Biosynthesis and Modification. <i>Methods in Enzymology</i> , 2009, 458, 277-308.	0.4	12
53	Multifunctional SEVA shuttle vectors for actinomycetes and Gram-negative bacteria. <i>MicrobiologyOpen</i> , 2020, 9, 1135-1149.	1.2	12
54	Behaviour of citrus pectin and modified citrus pectin in an azoxymethane/dextran sodium sulfate (AOM/DSS)-induced rat colorectal carcinogenesis model. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 1349-1360.	3.6	12

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55	Reconstruction of a Genome-Scale Metabolic Model of <i>Streptomyces albus</i> J1074: Improved Engineering Strategies in Natural Product Synthesis. <i>Metabolites</i> , 2021, 11, 304.	1.3	12
56	Antitumor bioactivity and gut microbiota modulation of polyhydroxybutyrate (PHB) in a rat animal model for colorectal cancer. <i>International Journal of Biological Macromolecules</i> , 2022, 203, 638-649.	3.6	11
57	Activation and Loading of the Starter Unit during Thiocoraline Biosynthesis. <i>Biochemistry</i> , 2017, 56, 4457-4467.	1.2	10
58	Development of a biosensor protein bullet as a fluorescent method for fast detection of <i>Escherichia coli</i> in drinking water. <i>PLoS ONE</i> , 2018, 13, e0184277.	1.1	10
59	Functional Antimicrobial Surface Coatings Deposited onto Nanostructured 316L Food-Grade Stainless Steel. <i>Nanomaterials</i> , 2021, 11, 1055.	1.9	9
60	<i>De novo</i> biosynthesis of garbanzol and fustin in <i>Streptomyces albus</i> based on a potential flavanone 3- α -hydroxylase with 2- α -hydroxylase side activity. <i>Microbial Biotechnology</i> , 2021, 14, 2009-2024.	2.0	8
61	Coating of bone implants with silica, hyperbranched polyethyleneimine, and gentamicin prevents development of osteomyelitis in a porcine model. <i>Materialia</i> , 2022, 24, 101473.	1.3	8
62	Is physical performance (in mice) increased by <i>Veillonella atypica</i> or decreased by <i>Lactobacillus bulgaricus</i> ?. <i>Journal of Sport and Health Science</i> , 2020, 9, 197-200.	3.3	7
63	High level of antibiotic production in a double polyphosphate kinase and phosphate-binding protein mutant of <i>Streptomyces lividans</i> . <i>FEMS Microbiology Letters</i> , 2013, 342, 123-129.	0.7	6
64	Development and validation of a single HPLC method for determination of α -tocopherol in cell culture and in human or mouse biological samples. <i>Biomedical Chromatography</i> , 2015, 29, 843-852.	0.8	6
65	Development of gluten with immunomodulatory properties using mTG-active food grade supernatants from <i>Streptomyces mobaraensis</i> cultures. <i>Journal of Functional Foods</i> , 2017, 34, 390-397.	1.6	6
66	Optimization of Pre-Inoculum, Fermentation Process Parameters and Precursor Supplementation Conditions to Enhance Apigenin Production by a Recombinant <i>Streptomyces albus</i> Strain. <i>Fermentation</i> , 2021, 7, 161.	1.4	5
67	An ABC transporter is essential for resistance to the antitumor agent mithramycin in the producer. <i>Molecular Genetics and Genomics</i> , 1996, 251, 692.	2.4	4
68	Combined laser and ozone therapy for onychomycosis in an in vitro and ex vivo model. <i>PLoS ONE</i> , 2021, 16, e0253979.	1.1	3
69	The Modulation of SCO2730/31 Copper Chaperone/Transporter Orthologue Expression Enhances Secondary Metabolism in <i>Streptomyces</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 10143.	1.8	3
70	Multiplex Detection of Food-Borne Pathogens. <i>Methods in Molecular Biology</i> , 2017, 1620, 153-162.	0.4	2
71	Optical system for rapid detection of <i>Escherichia coli</i> in drinking water. , 2014, , .		1
72	The SCO2102 Protein Harboring a DnaA II Protein-Interaction Domain Is Essential for the SCO2103 Methylenetetrahydrofolate Reductase Positioning at <i>Streptomyces</i> Sporulating Hyphae, Enhancing DNA Replication during Sporulation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4984.	1.8	1

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73	Towards the Generation of Novel Antitumour Agents from Actinomycetes by Combinational Biosynthesis. Focus on Biotechnology, 2001, , 383-399.	0.4	0