

# Põivi Tammela

## List of Publications by Year in descending order

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106  
papers

3,385  
citations

147801

31  
h-index

161849

54  
g-index

109  
all docs

109  
docs citations

109  
times ranked

5470  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural Products in the Process of Finding New Drug Candidates. <i>Current Medicinal Chemistry</i> , 2004, 11, 1375-1389.	2.4	256
2	Inhibitors of Alphavirus Entry and Replication Identified with a Stable Chikungunya Replicon Cell Line and Virus-Based Assays. <i>PLoS ONE</i> , 2011, 6, e28923.	2.5	219
3	Nanofibrillar cellulose wound dressing in skin graft donor site treatment. <i>Journal of Controlled Release</i> , 2016, 244, 292-301.	9.9	184
4	Exploring Marine Resources for Bioactive Compounds. <i>Planta Medica</i> , 2014, 80, 1234-1246.	1.3	159
5	Effect of pmt gene overexpression on tropane alkaloid production in transformed root cultures of <i>Datura metel</i> and <i>Hyoscyamus muticus</i> . <i>Journal of Experimental Botany</i> , 2003, 54, 203-211.	4.8	128
6	Permeability characteristics and membrane affinity of flavonoids and alkyl gallates in Caco-2 cells and in phospholipid vesicles. <i>Archives of Biochemistry and Biophysics</i> , 2004, 425, 193-199.	3.0	115
7	Antidepressant Drugs Transactivate TrkB Neurotrophin Receptors in the Adult Rodent Brain Independently of BDNF and Monoamine Transporter Blockade. <i>PLoS ONE</i> , 2011, 6, e20567.	2.5	110
8	Discovery of Benzothiazole Scaffold-Based DNA Gyrase B Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 8941-8954.	6.4	99
9	In vitro assay for human toxicity of cereulide, the emetic mitochondrial toxin produced by food poisoning <i>Bacillus cereus</i> . <i>Toxicology in Vitro</i> , 2003, 17, 737-744.	2.4	94
10	Betulin-Derived Compounds as Inhibitors of Alphavirus Replication. <i>Journal of Natural Products</i> , 2009, 72, 1917-1926.	3.0	94
11	Defining conditions for biofilm inhibition and eradication assays for Gram-positive clinical reference strains. <i>BMC Microbiology</i> , 2018, 18, 173.	3.3	93
12	Discovery of 4,5,6,7-Tetrahydrobenzo[1,2- <i>d</i> ]thiazoles as Novel DNA Gyrase Inhibitors Targeting the ATP-Binding Site. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 5501-5521.	6.4	92
13	Aggregating Behavior of Phenolic Compounds – A Source of False Bioassay Results?. <i>Molecules</i> , 2012, 17, 10774-10790.	3.8	87
14	Inhibitory effect of dietary phenolic compounds on <i>Chlamydia pneumoniae</i> in cell cultures. <i>Biochemical Pharmacology</i> , 2006, 71, 735-741.	4.4	70
15	Assessing the data quality in predictive toxicology using a panel of cell lines and cytotoxicity assays. <i>Analytical Biochemistry</i> , 2007, 362, 221-228.	2.4	59
16	Screening and Characterisation of Antimicrobial Properties of Semisynthetic Betulin Derivatives. <i>PLoS ONE</i> , 2014, 9, e102696.	2.5	55
17	<i>N</i> -Phenyl-4,5-dibromopyrrolamides and <i>N</i> -Phenylindolamides as ATP Competitive DNA Gyrase B Inhibitors: Design, Synthesis, and Evaluation. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 6179-6194.	6.4	49
18	Marine Microalgae: Promising Source for New Bioactive Compounds. <i>Marine Drugs</i> , 2018, 16, 317.	4.6	49

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19	Antimicrobial Activity of the Marine Alkaloids, Clathrocin and Oroidin, and Their Synthetic Analogues. <i>Marine Drugs</i> , 2014, 12, 940-963.	4.6	48
20	Antibacterial profiling of abietane-type diterpenoids. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 132-137.	3.0	48
21	Screening bioactivity and bioactive constituents of Nordic unifloral honeys. <i>Food Chemistry</i> , 2017, 237, 214-224.	8.2	47
22	Baltic cyanobacteria – a source of biologically active compounds. <i>European Journal of Phycology</i> , 2015, 50, 343-360.	2.0	43
23	Discovery of substituted oxadiazoles as a novel scaffold for DNA gyrase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2017, 130, 171-184.	5.5	43
24	Inhibition of Breast Cancer Resistance Protein and Multidrug Resistance Associated Protein 2 by Natural Compounds and Their Derivatives. <i>Molecular Pharmaceutics</i> , 2017, 14, 135-146.	4.6	40
25	Synthesis and Evaluation of N-Phenylpyrrolamides as DNA Gyrase B Inhibitors. <i>ChemMedChem</i> , 2018, 13, 186-198.	3.2	40
26	Effects of simple aromatic compounds and flavonoids on Ca <sup>2+</sup> fluxes in rat pituitary GH4C1 cells. <i>European Journal of Pharmacology</i> , 2001, 414, 125-133.	3.5	37
27	Design, synthesis and biological evaluation of 4,5-dibromo-N-(thiazol-2-yl)-1H-pyrrole-2-carboxamide derivatives as novel DNA gyrase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 338-349.	3.0	37
28	<sup>13</sup> C-Aminobutyric Acid Type A (GABAA) Receptor Activation Modulates Tau Phosphorylation. <i>Journal of Biological Chemistry</i> , 2012, 287, 6743-6752.	3.4	36
29	An optimised series of substituted N-phenylpyrrolamides as DNA gyrase B inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2019, 167, 269-290.	5.5	36
30	Similarity Based Virtual Screening: A Tool for Targeted Library Design. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 2353-2356.	6.4	35
31	New N -phenylpyrrolamide DNA gyrase B inhibitors: Optimization of efficacy and antibacterial activity. <i>European Journal of Medicinal Chemistry</i> , 2018, 154, 117-132.	5.5	35
32	Bioactive Cembrane Derivatives from the Indian Ocean Soft Coral, <i>Sinularia kavarattiensis</i> . <i>Marine Drugs</i> , 2014, 12, 4045-4068.	4.6	33
33	Effect of pmt gene overexpression on tropane alkaloid production in transformed root cultures of <i>Datura metel</i> and <i>Hyoscyamus muticus</i> . <i>Journal of Experimental Botany</i> , 2003, 54, 203-211.	4.8	30
34	New N -phenyl-4,5-dibromopyrrolamides and N -Phenylindolamides as ATPase inhibitors of DNA gyrase. <i>European Journal of Medicinal Chemistry</i> , 2016, 117, 197-211.	5.5	29
35	HPLC micro-fractionation coupled to a cell-based assay for automated on-line primary screening of calcium antagonistic components in plant extracts. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 380, 614-618.	3.7	28
36	Large-scale bioprospecting of cyanobacteria, micro- and macroalgae from the Aegean Sea. <i>New Biotechnology</i> , 2016, 33, 399-406.	4.4	28

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37	Effects of Extracts of Commonly Consumed Food Supplements and Food Fractions on the Permeability of Drugs Across Caco-2 Cell Monolayers. <i>Pharmaceutical Research</i> , 2004, 21, 1904-1916.	3.5	27
38	Screening of natural compounds and their derivatives as potential protein kinase C inhibitors. <i>Drug Development Research</i> , 2004, 63, 76-87.	2.9	26
39	Antimicrobial Colloidal Silver—Lignin Particles via Ion and Solvent Exchange. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15297-15303.	6.7	24
40	±-Amino Diphenyl Phosphonates as Novel Inhibitors of <i>Escherichia coli</i> ClpP Protease. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 774-797.	6.4	23
41	Ent-kauren-19-oic acid derivatives from the stem bark of <i>Croton pseudopulchellus</i> Pax. <i>Phytochemistry Letters</i> , 2012, 5, 414-418.	1.2	22
42	Tocopherols, tocotrienols and fatty acids as indicators of natural ageing in <i>Pinus sylvestris</i> seeds. <i>Scandinavian Journal of Forest Research</i> , 2005, 20, 378-384.	1.4	21
43	DPD-Inspired Discovery of Novel LsrK Kinase Inhibitors: An Opportunity To Fight Antimicrobial Resistance. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2720-2737.	6.4	21
44	Volatile Compound analysis of ageing <i>Pinus sylvestris</i> L. (Scots pine) seeds. <i>Flavour and Fragrance Journal</i> , 2003, 18, 290-295.	2.6	19
45	Effects of the aqueous extract of <i>Bryothamnion triquetrum</i> on chemical hypoxia and aglycemia-induced damage in GT1-7 mouse hypothalamic immortalized cells. <i>Phytomedicine</i> , 2006, 13, 240-245.	5.3	19
46	Exploring the Chemical Space of Benzothiazole-Based DNA Gyrase B Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 2433-2440.	2.8	18
47	Development and validation of a time-resolved fluorometric immunoassay for screening of antichlamydial activity using a genus-specific europium-conjugated antibody. <i>Analytical Biochemistry</i> , 2004, 333, 39-48.	2.4	17
48	Utilization of in situ ELISA method for examining Trk receptor phosphorylation in cultured cells. <i>Journal of Neuroscience Methods</i> , 2014, 222, 142-146.	2.5	17
49	A Versatile Strategy for the Synthesis of 4,5-Dihydroxy-2,3-Pentanedione (DPD) and Related Compounds as Potential Modulators of Bacterial Quorum Sensing. <i>Molecules</i> , 2018, 23, 2545.	3.8	17
50	Composition and Antibacterial Effect of Mint Flavorings in Candies and Food Supplements. <i>Planta Medica</i> , 2020, 86, 1089-1096.	1.3	17
51	Inhibition of Nonessential Bacterial Targets: Discovery of a Novel Serine <i>O</i> -Acetyltransferase Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 790-797.	2.8	17
52	Synthesis and biological evaluation of crown ether acyl derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 5591-5593.	2.2	16
53	Anti-influenza virus activity of benzo[d]thiazoles that target heat shock protein 90. <i>Bioorganic Chemistry</i> , 2020, 98, 103733.	4.1	16
54	Exploring the structure—activity relationships of ABCC2 modulators using a screening approach. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3513-3525.	3.0	15

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55	Design, synthesis, and biological evaluation of 1-ethyl-3-(thiazol-2-yl)urea derivatives as <i>Escherichia coli</i> DNA gyrase inhibitors. <i>Archiv Der Pharmazie</i> , 2018, 351, 1700333.	4.1	15
56	New dual ATP-competitive inhibitors of bacterial DNA gyrase and topoisomerase IV active against ESKAPE pathogens. <i>European Journal of Medicinal Chemistry</i> , 2021, 213, 113200.	5.5	15
57	Microplate screening assay to identify inhibitors of human catechol-O-methyltransferase. <i>Analytical Biochemistry</i> , 2004, 331, 198-200.	2.4	15
58	Synthesis and Biological Evaluation of 2-Aminobenzothiazole and Benzimidazole Analogs Based on the Clathrocin Structure. <i>Archiv Der Pharmazie</i> , 2016, 349, 137-149.	4.1	14
59	In-vitro mutagenic potential and effect on permeability of co-administered drugs across Caco-2 cell monolayers of <i>Rubus idaeus</i> and its fortified fractions. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 58, 1545-1552.	2.4	13
60	Synthesis and biological evaluation of 2-arylbenzimidazoles targeting <i>Leishmania donovani</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1933-1937.	2.2	13
61	Pumilol, a Diterpenoid with a Rare Strobane Skeleton from <i>Pinus pumila</i> (Pinaceae). <i>Chemistry and Biodiversity</i> , 2018, 15, e1800056.	2.1	13
62	New <i>N</i> -phenyl-4,5-dibromopyrrolamides as DNA gyrase B inhibitors. <i>MedChemComm</i> , 2019, 10, 1007-1017.	3.4	13
63	Design, synthesis and biological evaluation of novel DNA gyrase inhibitors and their siderophore mimic conjugates. <i>Bioorganic Chemistry</i> , 2020, 95, 103550.	4.1	13
64	Installation of an aryl boronic acid function into the external section of -aryl-oxazolidinones: Synthesis and antimicrobial evaluation. <i>European Journal of Medicinal Chemistry</i> , 2021, 211, 113002.	5.5	13
65	Propagation of <i>Angelica archangelica</i> Plants in an Air-Sparged Bioreactor from a Novel Embryogenic Cell Line, and their Production of Coumarins. <i>Biologia Plantarum</i> , 2003, 46, 343-347.	1.9	12
66	Antimicrobial assay optimization and validation for HTS in 384-well format using a bioluminescent <i>E. coli</i> K-12 strain. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 49, 782-789.	4.0	12
67	Structure-Based Virtual Screening of LsrK Kinase Inhibitors to Target Quorum Sensing. <i>ChemMedChem</i> , 2018, 13, 2400-2407.	3.2	12
68	Targeting Quorum Sensing: High-Throughput Screening to Identify Novel LsrK Inhibitors. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3112.	4.1	12
69	A rapid screening method for detecting active compounds against erythromycin-resistant bacterial strains of Finnish origin. <i>Folia Microbiologica</i> , 2005, 50, 487-493.	2.3	10
70	Comparison of transgenic <i>Gerbera hybrida</i> lines and traditional varieties shows no differences in cytotoxicity or metabolic fingerprints. <i>Transgenic Research</i> , 2008, 17, 793-803.	2.4	10
71	Acetate-Derived Metabolites from the Brown Alga <i>Lobophora variegata</i> . <i>Journal of Natural Products</i> , 2015, 78, 1716-1722.	3.0	9
72	Marine alkaloid oroidin analogues with antiviral potential: A novel class of synthetic compounds targeting the cellular chaperone Hsp90. <i>Chemical Biology and Drug Design</i> , 2017, 90, 1147-1154.	3.2	9

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73	Second-generation 4,5,6,7-tetrahydrobenzo[ <i>d</i> ]thiazoles as novel DNA gyrase inhibitors. <i>Future Medicinal Chemistry</i> , 2020, 12, 277-297.	2.3	9
74	Evaluation and validation of Biolog OmniLog <sup>®</sup> system for antibacterial activity assays. <i>Letters in Applied Microbiology</i> , 2021, 72, 589-595.	2.2	9
75	Cell-based bioreporter assay coupled to HPLC micro-fractionation in the evaluation of antimicrobial properties of the basidiomycete fungus <i>Pycnoporus cinnabarinus</i> . <i>Pharmaceutical Biology</i> , 2016, 54, 1108-1115.	2.9	8
76	Design, Synthesis, and Evaluation of Novel Tyrosine-Based DNA Gyrase B Inhibitors. <i>Archiv Der Pharmazie</i> , 2017, 350, 1700087.	4.1	8
77	Effect of Hybrid Type and Harvesting Season on Phytochemistry and Antibacterial Activity of Extracted Metabolites from <i>Salix</i> Bark. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 2948-2956.	5.2	8
78	Aging in <i>Pinus sylvestris</i> L. seeds: changes in viability and lipids. <i>Biochemical Society Transactions</i> , 2000, 28, 878-879.	3.4	7
79	Analyzing user-generated online content for drug discovery: development and use of MedCrawler. <i>Bioinformatics</i> , 2017, 33, 1205-1209.	4.1	7
80	Synthesis and Antiproliferative Activity of Marine Bromotyrosine Purpurealidin I and Its Derivatives. <i>Marine Drugs</i> , 2018, 16, 481.	4.6	7
81	Inhibition of Hepatitis C Replication by Targeting the Molecular Chaperone Hsp90: Synthesis and Biological Evaluation of 4,5,6,7-tetrahydrobenzo[1,2- <i>d</i> ]thiazole Derivatives. <i>ChemMedChem</i> , 2019, 14, 334-342.	3.2	7
82	Fabrication of concave micromirrors for single cell imaging <i>via</i> controlled over-exposure of organically modified ceramics in single step lithography. <i>Biomicrofluidics</i> , 2017, 11, 034118.	2.4	6
83	Miniaturized whole-cell bacterial bioreporter assay for identification of quorum sensing interfering compounds. <i>Journal of Microbiological Methods</i> , 2018, 154, 40-45.	1.6	6
84	A New Cell-Based Al <sub>2</sub> Cl <sub>3</sub> -Mediated Quorum Sensing Interference Assay in Screening of LsrK-Targeted Inhibitors. <i>ChemBioChem</i> , 2020, 21, 1918-1922.	2.6	6
85	Identification and Characterization of Approved Drugs and Drug-Like Compounds as Covalent <i>Escherichia coli</i> ClpP Inhibitors. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2686.	4.1	5
86	2-Aminopyridine Analogs Inhibit Both Enzymes of the Glyoxylate Shunt in <i>Pseudomonas aeruginosa</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 2490.	4.1	5
87	Discovery of Substituted (2-Aminooxazol-4-yl)isoxazole-3-carboxylic Acids as Inhibitors of Bacterial Serine Acetyltransferase in the Quest for Novel Potential Antibacterial Adjuvants. <i>Pharmaceuticals</i> , 2021, 14, 174.	3.8	5
88	Miniaturisation and validation of a cell-based assay for screening of Ca <sup>2+</sup> channel modulators. <i>Journal of Proteomics</i> , 2004, 59, 229-239.	2.4	4
89	Synthesis and Cytotoxicity Evaluation of Spirocyclic Bromotyrosine Clavatidine C Analogs. <i>Marine Drugs</i> , 2021, 19, 400.	4.6	4
90	Bioluminescent whole-cell reporter gene assays as screening tools in the identification of antimicrobial natural product extracts. <i>Journal of Microbiological Methods</i> , 2015, 114, 54-56.	1.6	3

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91	Compounding Parenteral Products in Pediatric Wardsâ€”Effect of Environment and Aseptic Technique on Product Sterility. <i>Healthcare (Switzerland)</i> , 2021, 9, 1025.	2.0	3
92	Hydrophobic derivatives of 5â€“(hydroxymethyl)isophthalic acid that selectively induce apoptosis in leukemia cells but not in fibroblasts. <i>Drug Development Research</i> , 2008, 69, 185-195.	2.9	2
93	Integrated In Vitroâ€”In Silico Screening Strategy for the Discovery of Antibacterial Compounds. <i>Assay and Drug Development Technologies</i> , 2015, 13, 25-33.	1.2	2
94	Discovering Protein Kinase C Active Plants Growing in Finland Utilizing Automated Bioassay Combined to LC/MS. <i>Natural Product Communications</i> , 2009, 4, 1934578X0900400.	0.5	1
95	Development and validation of a high-content screening assay for inhibitors of enteropathogenic <i>E. coli</i> adhesion. <i>Journal of Microbiological Methods</i> , 2021, 184, 106201.	1.6	1
96	Aging in <i>Pinus sylvestris</i> L. seeds: changes in viability and lipids. <i>Biochemical Society Transactions</i> , 2000, 28, 878-9.	3.4	1
97	Development of the CELLOP optimisation model for plant cell cultivation. <i>Biologia Plantarum</i> , 2007, 51, 27-33.	1.9	0
98	Screening_mgmt. <i>Journal of the Association for Laboratory Automation</i> , 2015, 20, 56-59.	2.8	0
99	Inhibition potential of natural based products against <i>Chlamydia pneumoniae</i> infection. <i>Planta Medica</i> , 2006, 72, .	1.3	0
100	Safety Assessment and Metabolic Fingerprinting of GMO Gerberas. <i>Planta Medica</i> , 2006, 72, .	1.3	0
101	MAREX: Exploring marine natural products for novel bioactive compounds. <i>Planta Medica</i> , 2012, 78, .	1.3	0
102	Antimicrobial screening of natural product extracts using a bioluminescent assay. <i>Planta Medica</i> , 2012, 78, .	1.3	0
103	Antimicrobial and cytotoxic properties of semisynthetic betulin derivatives. <i>Planta Medica</i> , 2013, 79, .	1.3	0
104	Development of a rapid antimicrobial screening method for natural products using genetic programming. <i>Planta Medica</i> , 2014, 80, .	1.3	0
105	Bacterial identification through machine learning. <i>Planta Medica</i> , 2016, 81, S1-S381.	1.3	0
106	Aging in <i>Pinus sylvestris</i> L. seeds: changes in viability and lipids. <i>Biochemical Society Transactions</i> , 2000, 28, 878.	3.4	0