Venkatesan Jayaprakash

List of Publications by Year in Descending Order

84 papers	1,469 citations	25 h-index	34 g-index
105 ext. papers	1,746 ext. citations	3.6 avg, IF	4.77 L-index

#	Paper	IF	Citations
84	The Mycobactin Biosynthesis Pathway: A Prospective Therapeutic Target in the Battle against Tuberculosis. *Journal of Medicinal Chemistry*, **2021**, 64, 71-100	8.3	10
83	Quantum chemical insight into molecular structure, NBO analysis of the hydrogen-bonded interactions, spectroscopic (FT-IR, FT-Raman), drug likeness and molecular docking of the novel anti COVID-19 molecule 2-[(4,6-diaminopyrimidin-2-yl)sulfanyl]-N-(4-fluorophenyl)acetamide - dimer. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 244, 118825	4.4	9
82	A Series of Ferulic Acid Amides Reveals Unexpected Peroxiredoxin 1 Inhibitory Activity with in vivo Antidiabetic and Hypolipidemic Effects. *ChemMedChem*, **2021**, 16, 484-498	3.7	5
81	Biodegradable polymers in drug delivery and oral vaccination. *European Polymer Journal*, **2021**, 142, 110155	5.5	38
80	Anticancer agents based on Plastoquinone analogs with N-phenylpiperazine: Structure-activity relationship and mechanism of action in breast cancer cells. *Chemico-Biological Interactions*, **2021**, 349, 109673	5	1
79	Exploration of brominated Plastoquinone analogs: Discovery and structure-activity relationships of small antimicrobial lead molecules. *Bioorganic Chemistry*, **2021**, 116, 105316	5.1	2
78	Non-carboxylic acid inhibitors of aldose reductase based on N-substituted thiazolidinedione derivatives. *European Journal of Medicinal Chemistry*, **2021**, 223, 113630	6.8	3
77	A short survey of dengue protease inhibitor development in the past 6 years (2015-2020) with an emphasis on similarities between DENV and SARS-CoV-2 proteases. *Bioorganic and Medicinal Chemistry*, **2021**, 49, 116415	3.4	1
76	Identification of Dengue NS2B-NS3 Protease Inhibitors Through High-Throughput Virtual Screening Impacts on Drug Development Against the Dengue Virus **2021**, 93-120		
75	Biological Evaluation of 2-aminothiazole Hybrid as Antimalarial and Antitrypanosomal Agents: Design and Synthesis. *Anti-Infective Agents*, **2020**, 18, 101-108	0.6	4
74	Quinazolinone derivative BNUA-3 ameliorated [NDEA+2-AAF]-induced liver carcinogenesis in SD rats by modulating AhR-CYP1B1-Nrf2-Keap1 pathway. *Clinical and Experimental Pharmacology and Physiology*, **2020**, 47, 143-157	3	11
73	A novel druggable interprotomer pocket in the capsid of rhino- and enteroviruses. *PLoS Biology*, **2019**, 17, e3000281	9.7	25
72	CYP enzymes, expressed within live human suspension cells, are superior to widely-used microsomal enzymes in identifying potent CYP1A1/CYP1B1 inhibitors: Identification of quinazolinones as CYP1A1/CYP1B1 inhibitors that efficiently reverse B[a]P toxicity and cisplatin resistance. *European Journal of Pharmaceutical Sciences*, **2019**, 134, 177-194	5.1	7
71	Scaffold Based Search on the Desferithiocin Archetype. *Mini-Reviews in Medicinal Chemistry*, **2019**, 19, 1564-1576	3.2	1
70	Phytoestrogens and their synthetic analogues as substrate mimic inhibitors of CYP1B1. *European Journal of Medicinal Chemistry*, **2019**, 163, 28-36	6.8	3
69	Cink4T, a quinazolinone-based dual inhibitor of Cdk4 and tubulin polymerization, identified via ligand-based virtual screening, for efficient anticancer therapy. *European Journal of Medicinal Chemistry*, **2019**, 165, 115-132	6.8	17
68	Borax Catalysed Domino Synthesis of Highly Functionalised Spirooxindole and Chromenopyridine Derivatives: X-Ray Structure, Hirshfeld Surface Analysis and Molecular Docking Studies. *ChemistrySelect*, **2018**, 3, 8669-8677	1.8	12

67	Curcumin-based pyrazoline analogues as selective inhibitors of human monoamine oxidase A. *MedChemComm*, **2018**, 9, 1164-1171	5	21
66	2-[(4,6-Diaminopyrimidin-2-yl)sulfanyl]-N-(4-methoxyphenyl)acetamide. *IUCrData*, **2018**, 3,	0.7	1
65	Farnesyl Transferase Inhibitors as Potential Anticancer Agents. *Mini-Reviews in Medicinal Chemistry*, **2018**, 18, 1611-1623	3.2	16
64	Crystal structures and Hirshfeld surface analyses of 2-[(4,6-di-amino-pyrimidin-2-yl)sulfan-yl]--(pyridin-2-yl)acetamide and 2-[(4,6-di-amino-pyrimidin-2-yl)sulfan-yl]--(pyrazin-2-yl)acetamide. *Acta Crystallographica Section E: Crystallographic Communications*, **2018**, 74, 718-723	0.7	
63	Quinazoline derivatives as selective CYP1B1 inhibitors. *European Journal of Medicinal Chemistry*, **2017**, 130, 320-327	6.8	27
62	Design, synthesis and MAO inhibitory activity of 2-(arylmethylidene)-2,3-dihydro-1-benzofuran-3-one derivatives. *Chinese Chemical Letters*, **2017**, 28, 1528-1532	8.1	16
61	Thiazolidinediones and PPAR orchestra as antidiabetic agents: From past to present. *European Journal of Medicinal Chemistry*, **2017**, 126, 879-893	6.8	40
60	Synthesis, Characterization, Docking and Study of Inhibitory Action of Some Novel C-Alkylated Chalcones on 5-LOX Enzyme. *ChemistrySelect*, **2017**, 2, 8771-8778	1.8	2
59	Novel Benzylidene Thiazolidinedione Derivatives as Partial PPAR Agonists and their Antidiabetic Effects on Type 2 Diabetes. *Scientific Reports*, **2017**, 7, 14453	4.9	23
58	Thiosemicarbazone derivatives, thiazolyl hydrazones, effectively inhibit leukemic tumor cell growth: Down-regulation of ribonucleotide reductase activity and synergism with arabinofuranosylcytosine. *Food and Chemical Toxicology*, **2017**, 108, 53-62	4.7	9
57	Crystal structures of 2-[(4,6-di-amino-pyrimidin-2-yl)sulfan-yl]--(2,4-di-methyl-phen-yl)acetamide and 2-[(4,6-di-amino-pyrimidin-2-yl)sulfan-yl]--(3-meth-oxy-phen-yl)acetamide. *Acta Crystallographica Section E: Crystallographic Communications*, **2017**, 73, 996-1000	0.7	2
56	Crystal structures of -(4-chloro-phen-yl)-2-[(4,6-di-amino-pyrimidin-2-yl)sulfan-yl]acetamide and -(3-chloro-phen-yl)-2-[(4,6-di-amino-pyrimidin-2-yl)sulfan-yl]acetamide. *Acta Crystallographica Section E: Crystallographic Communications*, **2017**, 73, 467-471	0.7	2
55	Comparative Design, In Silico Dockingand Predictive ADME/ TOX Properties of Some Novel 2, 4-hydroxy Derivatives of Thiazolidine-2, 4-diones as PPAR Modulator. *Journal of Pharmaceutical Chemistry*, **2017**, 4, 11-19	0	2
54	Design, Synthesis and biological evaluation of diazeno-thiazole derivatives as ribonucleotide reductase inhibitors. *Journal of Pharmaceutical Chemistry*, **2017**, 4, 20-24	0	2
53	Computer-Aided Structure Based Drug Design Approaches for the Discovery of New Anti-CHIKV Agents. *Current Computer-Aided Drug Design*, **2017**, 13, 346-361	1.4	4
52	Crystal structures of 2-[(4,6-di-amino-pyrimidin-2-yl)sulfan-yl]--(naphthalen-1-yl)acetamide and 2-[(4,6-di-amino-pyrimidin-2-yl)sulfan-yl]--(4-fluoro-phen-yl)acetamide. *Acta Crystallographica Section E: Crystallographic Communications*, **2017**, 73, 306-309	0.7	2
51	Potent and Selective Monoamine Oxidase-B Inhibitory Activity: Fluoro- vs. Trifluoromethyl-4-hydroxylated Chalcone Derivatives. *Chemistry and Biodiversity*, **2016**, 13, 1046-52	2.5	34
50	Monoamine Oxidase Inhibitory Activity of Novel Pyrazoline Analogues: Curcumin Based Design and Synthesis-II. *ChemistrySelect*, **2016**, 1, 5879-5884	1.8	8

49	Synthesis, Biochemistry, and Computational Studies of Brominated Thienyl Chalcones: A New Class of Reversible MAO-B Inhibitors. *ChemMedChem*, **2016**, 11, 1161-71	3.7	49
48	Exploration of chlorinated thienyl chalcones: A new class of monoamine oxidase-B inhibitors. *International Journal of Biological Macromolecules*, **2016**, 91, 680-95	7.9	60
47	Monoamine Oxidase Inhibitory Activity of Novel Pyrazoline Analogues: Curcumin Based Design and Synthesis. *ACS Medicinal Chemistry Letters*, **2016**, 7, 56-61	4.3	43
46	Synthesis and Antidepressant activity of pyrazoline based MAO-inhibitors. *Journal of Pharmaceutical Chemistry*, **2016**, 3, 1	0	9
45	Synthesis and Antiviral Activity of 2-aryl-4H-chromen-4-one Derivatives Against Chikungunya Virus. *Letters in Drug Design and Discovery*, **2016**, 13, 1019-1024	0.8	9
44	Monoamine Oxidase Inhibitors: Perspective Design for the Treatment of Depression and Neurological Disorders. *Current Enzyme Inhibition*, **2016**, 12, 115-122	0.5	24
43	5SAdenosine Monophosphate-Activated Protein Kinase Modulators as Anticancer Agents. *Anti-Cancer Agents in Medicinal Chemistry*, **2016**, 16, 961-972	2.2	1
42	Monoamine Oxidase Inhibitory Action of Chalcones: A Mini Review. *Central Nervous System Agents in Medicinal Chemistry*, **2016**, 16, 120-36	1.8	51
41	Progress and prospects on DENV protease inhibitors. *European Journal of Medicinal Chemistry*, **2016** , 117, 125-43	6.8	31
40	Crystal structures of 2-[(4,6-di-amino-pyrimidin-2-yl)sulfan-yl]-N-(3-nitro-phen-yl)acetamide monohydrate and N-(2-chloro-phen-yl)-2-[(4,6-di-amino-pyrimidin-2-yl)sulfan-yl]acetamide. *Acta Crystallographica Section E: Crystallographic Communications*, **2016**, 72, 1171-5	0.7	3
39	Biphenyl urea derivatives as selective CYP1B1 inhibitors. *Organic and Biomolecular Chemistry*, **2016**, 14, 8931-8936	3.9	17
38	Synthesis, biological screening and molecular docking studies of novel 4,6-pyrimidine derivatives as EGFR-TK inhibitors. *Medicinal Chemistry Research*, **2016**, 25, 2534-2546	2.2	7
37	Monoamine Oxidase Inhibitory Activity of Ferulic Acid Amides: Curcumin-Based Design and Synthesis. *Archiv Der Pharmazie*, **2016**, 349, 9-19	4.3	20
36	Design, synthesis, optimization and antiviral activity of a class of hybrid dengue virus E protein inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 1747-1752	2.9	28
35	Synthesis and molecular modelling studies of novel sulphonamide derivatives as dengue virus 2 protease inhibitors. *Bioorganic Chemistry*, **2015**, 62, 74-82	5.1	22
34	Reaching beyond HIV/HCV: nelfinavir as a potential starting point for broad-spectrum protease inhibitors against dengue and chikungunya virus. *RSC Advances*, **2015**, 5, 85938-85949	3.7	15
33	Validation and method development of Tadalafil in bulk and tablet dosage form by RP-HPLC. *Drug Research*, **2015**, 65, 82-5	1.8	3
32	Monoamine oxidase inhibitory activity of 2-aryl-4H-chromen-4-ones. *Bioorganic Chemistry*, **2015**, 58, 72-80	5.1	34

31	Thiazolidone derivatives as inhibitors of chikungunya virus. *European Journal of Medicinal Chemistry*, **2015**, 89, 172-8	6.8	41
30	Ebola virus: current and future perspectives. *Infectious Disorders - Drug Targets*, **2015**, 15, 20-31	1.1	17
29	Synthesis, cytotoxic activity and docking studies of new 4-aza-podophyllotoxin derivatives. *Medicinal Chemistry Research*, **2015**, 24, 3305-3313	2.2	41
28	Pyrazoline carboxylates as selective MAO-B inhibitors: Synthesis and Biological screening. *Journal of Pharmaceutical Chemistry*, **2015**, 2, 1	0	7
27	Monoamine oxidase-A inhibitory activity of novel Curcumin analogues. *Journal of Pharmaceutical Chemistry*, **2015**, 2, 12	0	3
26	Histone deacetylase inhibitors: a review on class-I specific inhibition. *Mini-Reviews in Medicinal Chemistry*, **2015**, 15, 731-50	3.2	17
25	Identification of Pyrazole Derivative as an Antiviral Agent Against Chikungunya Through HTVS. *Letters in Drug Design and Discovery*, **2015**, 12, 292-301	0.8	14
24	Evaluation of in silico, in vitro □amylase inhibition potential and antidiabetic activity of Pterospermum acerifolium bark. *Pharmaceutical Biology*, **2014**, 52, 199-207	3.8	6
23	Hydroxamates of para-aminobenzoic acid as selective inhibitors of HDAC8. *Bioorganic Chemistry*, **2014**, 57, 116-120	5.1	7
22	A perspective on targeting non-structural proteins to combat neglected tropical diseases: Dengue, West Nile and Chikungunya viruses. *European Journal of Medicinal Chemistry*, **2014**, 87, 677-702	6.8	29
21	Antidiabetic activity of Pterospermum acerifolium flowers and glucose uptake potential of bioactive fraction in L6 muscle cell lines with its HPLC fingerprint. *BioMed Research International*, **2014**, 2014, 459376	3	8
20	2-[(4,6-Di-amino-pyrimidin-2-yl)sulfan-yl]-N-(2-methyl-phen-yl)acetamide. *Acta Crystallographica Section E: Structure Reports Online*, **2014**, 70, o850		5
19	X-ray crystal structure of N-benzyl-2-(4,6-diaminopyrimidin-2-ylthio)-acetamide. *Journal of Pharmaceutical Chemistry*, **2014**, 1, 28	0	
18	Chikungunya epidemiological survey and Current available inhibitors. *Journal of Pharmaceutical Chemistry*, **2014**, 1, 59	0	
17	Methyl-2-arylidene hydrazinecarbodithioates: synthesis and biological activity. *Chemical Papers*, **2013**, 67, 650-656	1.9	9
16	Synthesis antimicrobial and anticancer activity of N?-arylmethylidene-piperazine-1-carbothiohydrazide. *Medicinal Chemistry Research*, **2013**, 22, 2802-2808	2.2	7
15	Monoamine oxidase inhibitory activity of 3,5-biaryl-4,5-dihydro-1H-pyrazole-1-carboxylate derivatives. *European Journal of Medicinal Chemistry*, **2013**, 69, 762-7	6.8	46
14	A novel N-hydroxy-NSaminoguanidine derivative inhibits ribonucleotide reductase activity: Effects in human HL-60 promyelocytic leukemia cells and synergism with arabinofuranosylcytosine (Ara-C). *Biochemical Pharmacology*, **2011**, 81, 50-9	6	11

13	Chemical scaffolds with structural similarities to siderophores of nonribosomal peptide-polyketide origin as novel antimicrobials against Mycobacterium tuberculosis and Yersinia pestis. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 6533-7	2.9	12
12	Synthesis, antimicrobial and anticancer activity of new thiosemicarbazone derivatives. *Archiv Der Pharmazie*, **2011**, 344, 84-90	4.3	35
11	Pyrazoline based MAO inhibitors: synthesis, biological evaluation and SAR studies. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 4296-300	2.9	36
10	Anticonvulsant activity of Benkara malabarica (Linn.) root extract: In vitro and in vivo investigation. *Journal of Ethnopharmacology*, **2010**, 128, 533-6	5	18
9	Development of selective and reversible pyrazoline based MAO-A inhibitors: Synthesis, biological evaluation and docking studies. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 1875-81	3.4	42
8	Inhibitors of human histone deacetylase: synthesis and enzyme assay of hydroxamates with piperazine linker. *Archiv Der Pharmazie*, **2010**, 343, 167-72	4.3	5
7	Towards development of selective and reversible pyrazoline based MAO-inhibitors: Synthesis, biological evaluation and docking studies. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 132-6	2.9	58
6	Design, synthesis and anticancer activity of piperazine hydroxamates and their histone deacetylase (HDAC) inhibitory activity. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 3906-10	2.9	42
5	Development of CoMFA and CoMSIA models of cytotoxicity data of anti-HIV-1-phenylamino-1H-imidazole derivatives. *European Journal of Medicinal Chemistry*, **2009**, 44, 2400-7	6.8	27
4	Structure based virtual screening of GSK-3beta: importance of protein flexibility and induced fit. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 5582-5	2.9	8
3	Synthesis and ribonucleotide reductase inhibitory activity of thiosemicarbazones. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 6248-50	2.9	29
2	Pyrazoline-based mycobactin analogues as MAO-inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 6362-8	2.9	46
1	Small molecules with structural similarities to siderophores as novel antimicrobials against Mycobacterium tuberculosis and Yersinia pestis. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 2662-8	2.9	47