Vijai Kumar Reddy Tangadanchu

List of Publications by Year
in descending order

105 papers	6,690 citations	41344 49 h-index	66911 78 g-index
105 all docs	105 docs citations	105 times ranked	4969 citing authors

#	Article	IF	Citations
1	Comprehensive Review in Current Developments of Imidazole-Based Medicinal Chemistry. Medicinal Research Reviews, 2014, 34, 340-437.	10.5	575
2	Synthesis of novel sulfanilamide-derived 1,2,3-triazoles and their evaluation for antibacterial and antifungal activities. European Journal of Medicinal Chemistry, 2010, 45, 4631-4639.	5.5	321
3	Recent advance in oxazole-based medicinal chemistry. European Journal of Medicinal Chemistry, 2018, 144, 444-492.	5.5	249
4	Synthesis and evaluation of a class of new coumarin triazole derivatives as potential antimicrobial agents. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 956-960.	2.2	224
5	Recent Developments in Azole Compounds as Antibacterial and Antifungal Agents. Current Topics in Medicinal Chemistry, 2013, 13, 1963-2010.	2.1	209
6	Synthesis, antibacterial and antifungal activities of some carbazole derivatives. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 1881-1884.	2.2	208
7	Novel 3-Aminothiazolquinolones: Design, Synthesis, Bioactive Evaluation, SARs, and Preliminary Antibacterial Mechanism. Journal of Medicinal Chemistry, 2016, 59, 4488-4510.	6.4	128
8	Synthesis and biological evaluation of Î±-triazolyl chalcones as a new type of potential antimicrobial agents and their interaction with calf thymus DNA and human serum albumin. European Journal of Medicinal Chemistry, 2014, 71, 148-159.	5.5	125
9	Synthesis and biological activities of novel amine-derived bis-azoles as potential antibacterial and antifungal agents. European Journal of Medicinal Chemistry, 2010, 45, 4388-4398.	5.5	106
10	New Progress in Azole Compounds as Antimicrobial Agents. Mini-Reviews in Medicinal Chemistry, 2016, 17, 122-166.	2.4	105
11	Design, synthesis and antimicrobial evaluation of novel benzimidazole type of Fluconazole analogues and their synergistic effects with Chloromycin, Norfloxacin and Fluconazole. European Journal of Medicinal Chemistry, 2013, 64, 329-344.	5.5	103
12	Novel aminopyrimidinyl benzimidazoles as potentially antimicrobial agents: Design, synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2018, 143, 66-84.	5.5	99
13	Design, synthesis and evaluation of clinafloxacin triazole hybrids as a new type of antibacterial and antifungal agents. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5363-5366.	2.2	95
14	Discovery of novel berberine imidazoles as safe antimicrobial agents by down regulating ROS generation. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2768-2773.	2.2	92
15	Synthesis and activities of naphthalimide azoles as a new type of antibacterial and antifungal agents. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4349-4352.	2.2	91
16	Design, synthesis and antimicrobial evaluation of novel benzimidazole-incorporated sulfonamide analogues. European Journal of Medicinal Chemistry, 2017, 136, 165-183.	5.5	89
17	Novel hybrids of metronidazole and quinolones: Synthesis, bioactive evaluation, cytotoxicity, preliminary antimicrobial mechanism and effect of metal ions on their transportation by human serum albumin. European Journal of Medicinal Chemistry, 2014, 86, 318-334.	5.5	88
18	Discovery of membrane active benzimidazole quinolones-based topoisomerase inhibitors as potential DNA-binding antimicrobial agents. European Journal of Medicinal Chemistry, 2016, 111, 160-182.	5.5	86

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19	Discovery of 2-aminothiazolyl berberine derivatives as effectively antibacterial agents toward clinically drug-resistant Gram-negative Acinetobacter baumanii. European Journal of Medicinal Chemistry, 2018, 146, 15-37.	5.5	83
20	Design and synthesis of aminothiazolyl norfloxacin analogues as potential antimicrobial agents and their biological evaluation. European Journal of Medicinal Chemistry, 2019, 167, 105-123.	5.5	81
21	Synthesis and biological evaluation of a class of quinolone triazoles as potential antimicrobial agents and their interactions with calf thymus DNA. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3267-3272.	2.2	80
22	Synthesis and biological evaluation of novel benzimidazole derivatives and their binding behavior with bovine serum albumin. European Journal of Medicinal Chemistry, 2012, 55, 164-175.	5.5	79
23	Design, synthesis and biological evaluation of berberine-benzimidazole hybrids as new type of potentially DNA-targeting antimicrobial agents. European Journal of Medicinal Chemistry, 2016, 122, 205-215.	5.5	76
24	Heterocyclic Naphthalimides as New Skeleton Structure of Compounds with Increasingly Expanding Relational Medicinal Applications. Current Topics in Medicinal Chemistry, 2016, 16, 3303-3364.	2.1	75
25	1,2,3-Triazole-derived naphthalimides as a novel type of potential antimicrobial agents: Synthesis, antimicrobial activity, interaction with calf thymus DNA and human serum albumin. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 308-313.	2.2	71
26	Design, synthesis and biological evaluation of 5-fluorouracil-derived benzimidazoles as novel type of potential antimicrobial agents. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2584-2588.	2.2	69
27	A new exploration towards aminothiazolquinolone oximes as potentially multi-targeting antibacterial agents: Design, synthesis and evaluation acting on microbes, DNA, HSA and topoisomerase IV. European Journal of Medicinal Chemistry, 2019, 179, 166-181.	5.5	69
28	Multi-targeting exploration of new 2-aminothiazolyl quinolones: Synthesis, antimicrobial evaluation, interaction with DNA, combination with topoisomerase IV and penetrability into cells. European Journal of Medicinal Chemistry, 2016, 124, 935-945.	5.5	65
29	Ethylenic conjugated coumarin thiazolidinediones as new efficient antimicrobial modulators against clinical methicillin-resistant Staphylococcus aureus. Bioorganic Chemistry, 2020, 94, 103434.	4.1	63
30	Potential Antimicrobial Isopropanol-Conjugated Carbazole Azoles as Dual Targeting Inhibitors of Enterococcus faecalis. ACS Medicinal Chemistry Letters, 2018, 9, 244-249.	2.8	62
31	Design and biological evaluation of novel quinolone-based metronidazole derivatives as potent Cu2+ mediated DNA-targeting antibacterial agents. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3699-3705.	2.2	61
32	Novel berberine triazoles: Synthesis, antimicrobial evaluation and competitive interactions with metal ions to Human Serum Albumin. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 1008-1012.	2.2	60
33	Novel carbazole-triazole conjugates as DNA-targeting membrane active potentiators against clinical isolated fungi. European Journal of Medicinal Chemistry, 2018, 155, 579-589.	5.5	59
34	Current Developments in the Syntheses of 1,2,4-Triazole Compounds. Current Organic Chemistry, 2014, 18, 359-406.	1.6	59
35	Synthesis and bioactive evaluation of novel hybrids of metronidazole and berberine as new type of antimicrobial agents and their transportation behavior by human serum albumin. Bioorganic and Medicinal Chemistry, 2013, 21, 4158-4169.	3.0	58
36	Discovery of natural berberine-derived nitroimidazoles as potentially multi-targeting agents against drug-resistant Escherichia coli. Science China Chemistry, 2018, 61, 557-568.	8.2	58

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37	Indole-nitroimidazole conjugates as efficient manipulators to decrease the genes expression of methicillin-resistant Staphylococcus aureus. European Journal of Medicinal Chemistry, 2019, 179, 723-735.	5.5	57
38	Identification of Unique Quinazolone Thiazoles as Novel Structural Scaffolds for Potential Gram-Negative Bacterial Conquerors. Journal of Medicinal Chemistry, 2021, 64, 7630-7645.	6.4	57
39	Coumarin-derived azolyl ethanols: synthesis, antimicrobial evaluation and preliminary action mechanism. Science China Chemistry, 2016, 59, 878-894.	8.2	56
40	Novel Naphthalimide Aminothiazoles as Potential Multitargeting Antimicrobial Agents. ACS Medicinal Chemistry Letters, 2017, 8, 1331-1335.	2.8	56
41	Membrane active 7-thiazoxime quinolones as novel DNA binding agents to decrease the genes expression and exert potent anti-methicillin-resistant Staphylococcus aureus activity. European Journal of Medicinal Chemistry, 2021, 217, 113340.	5.5	55
42	Discovery of unique thiazolidinone-conjugated coumarins as novel broad spectrum antibacterial agents. European Journal of Medicinal Chemistry, 2022, 232, 114192.	5.5	53
43	Novel potential artificial MRSA DNA intercalators: synthesis and biological evaluation of berberine-derived thiazolidinediones. Organic Chemistry Frontiers, 2019, 6, 319-334.	4.5	52
44	Synthesis of novel sulfonamide azoles via Câ€“N cleavage of sulfonamides by azole ring and relational antimicrobial study. New Journal of Chemistry, 2015, 39, 5776-5796.	2.8	51
45	Synthesis of tetrazole compounds as a novel type of potential antimicrobial agents and their synergistic effects with clinical drugs and interactions with calf thymus DNA. MedChemComm, 2015, 6, 147-154.	3.4	51
46	Quinazolinone azolyl ethanols: potential lead antimicrobial agents with dual action modes targeting methicillin-resistant Staphylococcus aureus DNA. Future Medicinal Chemistry, 2016, 8, 1927-1940.	2.3	51
47	Synthesis and biological evaluation of a new class of quinazolinoneazoles as potential antimicrobial agents and their interactions with calf thymus DNA and human serum albumin. MedChemComm, 2015, 6, 222-229.	3.4	50
48	Novel purine benzimidazoles as antimicrobial agents by regulating ROS generation and targeting clinically resistant Staphylococcus aureus DNA groove. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 1621-1628.	2.2	50
49	Novel benzimidazole derived naphthalimide triazoles: synthesis, antimicrobial activity and interactions with calf thymus DNA. Science China Chemistry, 2015, 58, 483-494.	8.2	49
50	Sulfonamide-Derived Four-Component Molecular Hybrids as Novel DNA-Targeting Membrane Active Potentiators against Clinical Escherichia coli. Molecular Pharmaceutics, 2019, 16, 1036-1052.	4.6	49
51	Design and biological evaluation of a novel type of potential multi-targeting antimicrobial sulfanilamide hybrids in combination of pyrimidine and azoles. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 126982.	2.2	49
52	Natural Berberine-derived Azolyl Ethanols as New Structural Antibacterial Agents against Drug-Resistant Escherichia coli. Journal of Medicinal Chemistry, 2022, 65, 436-459.	6.4	49
53	Synthesis of novel fluconazoliums and their evaluation for antibacterial and antifungal activities. European Journal of Medicinal Chemistry, 2011, 46, 4391-4402.	5.5	48
54	Synthesis and bioactive evaluation of a novel series of coumarinazoles. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 3605-3608.	2.2	48

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55	Novel potentially antifungal hybrids of 5-flucytosine and fluconazole: Design, synthesis and bioactive evaluation. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 4964-4969.	2.2	48
56	Natural Berberine-Hybridized Benzimidazoles as Novel Unique Bactericides against Staphylococcus aureus. Journal of Agricultural and Food Chemistry, 2021, 69, 7831-7840.	5.2	48
57	Design, synthesis and biological evaluation of amino organophosphorus imidazoles as a new type of potential antimicrobial agents. Science China Chemistry, 2017, 60, 769-785.	8.2	46
58	Synthesis and biological evaluation of Schiff base-linked imidazolyl naphthalimides as novel potential anti-MRSA agents. MedChemComm, 2016, 7, 924-931.	3.4	45
59	Discovery of Benzimidazoleâ€“Quinolone Hybrids as New Cleaving Agents toward Drugâ€Resistant Pseudomonas aeruginosa DNA. ChemMedChem, 2018, 13, 1004-1017.	3.2	45
60	Design, Synthesis, and Antimicrobial Evaluation of Novel Quinolone Imidazoles and Interactions with <scp>MRSA DNA</scp>. Chemical Biology and Drug Design, 2015, 86, 648-655.	3.2	43
61	Novel carbazole-oxadiazoles as potential Staphylococcus aureus germicides. Pesticide Biochemistry and Physiology, 2021, 175, 104849.	3.6	41
62	Molecular design and preparation of 2-aminothiazole sulfanilamide oximes as membrane active antibacterial agents for drug resistant Acinetobacter baumannii. Bioorganic Chemistry, 2021, 113, 105039.	4.1	41
63	Discovery of potential antifungal triazoles: design, synthesis, biological evaluation, and preliminary antifungal mechanism exploration. MedChemComm, 2017, 8, 1631-1639.	3.4	40
64	Discovery of novel nitroimidazole enols as Pseudomonas aeruginosa DNA cleavage agents. Bioorganic and Medicinal Chemistry, 2017, 25, 6511-6522.	3.0	40
65	Azoalkyl ether imidazo[2,1-b]benzothiazoles as potentially antimicrobial agents with novel structural skeleton. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2426-2431.	2.2	40
66	Design and Synthesis of Sulfanilamide Aminophosphonates as Novel Antibacterial Agents towards Escherichia coli. Chinese Journal of Chemistry, 2021, 39, 2251-2263.	4.9	40
67	Unique Carbazole-Oxadiazole Derivatives as New Potential Antibiotics for Combating Gram-Positive and -Negative Bacteria. Journal of Medicinal Chemistry, 2022, 65, 6171-6190.	6.4	40
68	Design, synthesis, and antibacterial evaluation of novel azolylthioether quinolones as MRSA DNA intercalators. MedChemComm, 2015, 6, 1303-1310.	3.4	38
69	Novel potentially antibacterial naphthalimide-derived metronidazoles: Design, synthesis, biological evaluation and supramolecular interactions with DNA, human serum albumin and topoisomerase II. Chinese Chemical Letters, 2017, 28, 1369-1374.	9.0	38
70	Discovery of novel purinylthiazolylethanone derivatives as anti-Candida albicans agents through possible multifaceted mechanisms. European Journal of Medicinal Chemistry, 2021, 221, 113557.	5.5	38
71	Coumarin thiazoles as unique structural skeleton of potential antimicrobial agents. Bioorganic Chemistry, 2022, 124, 105855.	4.1	38
72	Design, synthesis, and biological evaluation of novel carbazole aminothiazoles as potential DNA-targeting antimicrobial agents. MedChemComm, 2016, 7, 1988-1994.	3.4	37

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73	Design, synthesis and biological evaluation of novel Schiff base-bridged tetrahydroprotoberberine triazoles as a new type of potential antimicrobial agents. MedChemComm, 2017, 8, 907-916.	3.4	37
74	Synthesis and Biological Evaluation of Quinazolonethiazoles as New Potential Conquerors towards Pseudomonas Aeruginosa. Chinese Journal of Chemistry, 2021, 39, 1093-1103.	4.9	37
75	Berberine azoles as antimicrobial agents: synthesis, biological evaluation and their interactions with human serum albumin. MedChemComm, 2013, 4, 839.	3.4	36
76	Novel naphthalimide nitroimidazoles as multitargeting antibacterial agents against resistant Acinetobacter baumannii. Future Medicinal Chemistry, 2018, 10, 711-724.	2.3	36
77	An unanticipated discovery towards novel naphthalimide corbelled aminothiazoximes as potential anti-MRSA agents and allosteric modulators for PBP2a. European Journal of Medicinal Chemistry, 2022, 229, 114050.	5.5	34
78	Unique para-aminobenzenesulfonyl oxadiazoles as novel structural potential membrane active antibacterial agents towards drug-resistant methicillin resistant Staphylococcus aureus. Bioorganic and Medicinal Chemistry Letters, 2021, 41, 127995.	2.2	33
79	Pyrimidinetrioneâ€imidazoles as a Unique Structural Type of Potential Agents towards Candida Albicans: Design, Synthesis and Biological Evaluation. Chemistry - an Asian Journal, 2021, 16, 1417-1429.	3.3	32
80	Dihydropyrimidinone imidazoles as unique structural antibacterial agents for drug-resistant gram-negative pathogens. European Journal of Medicinal Chemistry, 2022, 232, 114188.	5.5	32
81	Novel benzimidazolyl tetrahydroprotoberberines: Design, synthesis, antimicrobial evaluation and multi-targeting exploration. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 1737-1743.	2.2	31
82	Novel organophosphorus aminopyrimidines as unique structural DNA-targeting membrane active inhibitors towards drug-resistant methicillin-resistant Staphylococcus aureus. MedChemComm, 2018, 9, 1529-1537.	3.4	31
83	Aloe-emodin derived azoles as a new structural type of potential antibacterial agents: design, synthesis, and evaluation of the action on membrane, DNA, and MRSA DNA isomerase. RSC Medicinal Chemistry, 2021, 12, 602-608.	3.9	31
84	Synthesis and biological evaluation of novel d-glucose-derived 1,2,3-triazoles as potential antibacterial and antifungal agents. Medicinal Chemistry Research, 2015, 24, 182-196.	2.4	30
85	An unexpected discovery toward novel membrane active sulfonyl thiazoles as potential MRSA DNA intercalators. Future Medicinal Chemistry, 2020, 12, 1709-1727.	2.3	29
86	Recent advance in sulfonamide-based medicinal chemistry. Scientia Sinica Chimica, 2016, 46, 823-847.	0.4	29
87	Molecular interaction of novel benzothiazolyl triazolium analogues with calf thymus DNA and HSA-their biological investigation as potent antimicrobial agents. European Journal of Medicinal Chemistry, 2018, 150, 228-247.	5.5	28
88	The synthesis and activities of novel mononuclear or dinuclear cyclen complexes bearing azole pendants as antibacterial and antifungal agents. European Journal of Medicinal Chemistry, 2014, 84, 677-686.	5.5	27
89	Antimicrobial 2-aminothiazolyl quinolones: what is their potential in the clinic?. Future Medicinal Chemistry, 2017, 9, 1461-1464.	2.3	27
90	Pyrimidine-conjugated fluoroquinolones as new potential broad-spectrum antibacterial agents. Bioorganic and Medicinal Chemistry Letters, 2022, 73, 128885.	2.2	27

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91	Identification of a novel antifungal backbone of naphthalimide thiazoles with synergistic potential for chemical and dynamic treatment. Future Medicinal Chemistry, 2021, 13, 2047-2067.	2.3	24
92	Aloe emodin-conjugated sulfonyl hydrazones as novel type of antibacterial modulators against S. aureus 25923 through multifaceted synergistic effects. Bioorganic Chemistry, 2022, 127, 106035.	4.1	24
93	Copper-Catalyzed Inter/Intramolecular N-Alkenylation of Benzimidazoles via Tandem Processes Involving Selectively Mild Iodination of sp³ Câ€“H Bond at Î±-Position of Ester. Journal of Organic Chemistry, 2016, 81, 8806-8815.	3.2	23
94	Novel metronidazole-derived three-component hybrids as promising broad-spectrum agents to combat oppressive bacterial resistance. Bioorganic Chemistry, 2022, 122, 105718.	4.1	23
95	Natural aloe emodin-hybridized sulfonamide aminophosphates as novel potential membrane-perturbing and DNA-intercalating agents against Enterococcus faecalis. Bioorganic and Medicinal Chemistry Letters, 2022, 64, 128695.	2.2	20
96	Isatin-derived azoles as new potential antimicrobial agents: Design, synthesis and biological evaluation. Bioorganic and Medicinal Chemistry Letters, 2021, 41, 128030.	2.2	19
97	Researches and applications of nitroimidazole heterocycles in medicinal chemistry. Scientia Sinica Chimica, 2019, 49, 230-255.	0.4	19
98	A green and convenient approach toward benzimidazole derivatives and their antimicrobial activity. Chinese Chemical Letters, 2016, 27, 391-394.	9.0	18
99	A unique one-pot reaction via CC cleavage from aminomethylene benzimidazoles to access benzimidazolones with wide potentiality. Tetrahedron Letters, 2014, 55, 4105-4109.	1.4	14
100	Design and Synthesis of Novel Sulfonamide-Derived Triazoles and Bioactivity Exploration. Medicinal Chemistry, 2020, 16, 104-118.	1.5	13
101	Structure-activity relationship studies and bioactivity evaluation of 1,2,3-triazole containing analogues as a selective sphingosine kinase-2 inhibitors. European Journal of Medicinal Chemistry, 2020, 206, 112713.	5.5	8
102	A facile reaction to access novel structural sulfonyl-hybridized imidazolyl ethanols as potential DNA-targeting antibacterial agents. Bioorganic and Medicinal Chemistry Letters, 2021, 47, 128198.	2.2	8
103	Design and synthesis of quinazolinone imidazoles and their antibacterial and DNA-targeting investigation. Scientia Sinica Chimica, 2017, 47, 844-858.	0.4	7
104	Isomannide monoundecenoateâ€based 1,2,3â€triazoles: Design, synthesis, and in vitro bioactive evaluation. Journal of Heterocyclic Chemistry, 2020, 57, 4312-4321.	2.6	5
105	Design, Synthesis and Antimicrobial Evaluation of Novel Benzimidazole-incorporated Naphthalimide Derivatives As Salmonella typhimurium DNA Intercalators, and Combination Researches. Medicinal Chemistry, 2021, 17, .	1.5	0