

Vijai Kumar Reddy Tangadanchu

List of Publications by Year in descending order

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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	An unanticipated discovery towards novel naphthalimide corbelled aminothiazoximes as potential anti-MRSA agents and allosteric modulators for PBP2a. <i>European Journal of Medicinal Chemistry</i> , 2022, 229, 114050.	5.5	34
2	Dihydropyrimidinone imidazoles as unique structural antibacterial agents for drug-resistant gram-negative pathogens. <i>European Journal of Medicinal Chemistry</i> , 2022, 232, 114188.	5.5	32
3	Discovery of unique thiazolidinone-conjugated coumarins as novel broad spectrum antibacterial agents. <i>European Journal of Medicinal Chemistry</i> , 2022, 232, 114192.	5.5	53
4	Natural Berberine-derived Azolyl Ethanol as New Structural Antibacterial Agents against Drug-Resistant <i>Escherichia coli</i> . <i>Journal of Medicinal Chemistry</i> , 2022, 65, 436-459.	6.4	49
5	Unique Carbazole-Oxadiazole Derivatives as New Potential Antibiotics for Combating Gram-Positive and -Negative Bacteria. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 6171-6190.	6.4	40
6	Natural aloe emodin-hybridized sulfonamide aminophosphates as novel potential membrane-perturbing and DNA-intercalating agents against <i>Enterococcus faecalis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 64, 128695.	2.2	20
7	Novel metronidazole-derived three-component hybrids as promising broad-spectrum agents to combat oppressive bacterial resistance. <i>Bioorganic Chemistry</i> , 2022, 122, 105718.	4.1	23
8	Coumarin thiazoles as unique structural skeleton of potential antimicrobial agents. <i>Bioorganic Chemistry</i> , 2022, 124, 105855.	4.1	38
9	Aloe emodin-conjugated sulfonyl hydrazones as novel type of antibacterial modulators against <i>S. aureus</i> 25923 through multifaceted synergistic effects. <i>Bioorganic Chemistry</i> , 2022, 127, 106035.	4.1	24
10	Pyrimidine-conjugated fluoroquinolones as new potential broad-spectrum antibacterial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 73, 128885.	2.2	27
11	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. <i>RSC Medicinal Chemistry</i> , 2021, 12, 602-608.	3.9	31
12	Synthesis and Biological Evaluation of Quinazolonethiazoles as New Potential Conquerors towards <i>Pseudomonas Aeruginosa</i> . <i>Chinese Journal of Chemistry</i> , 2021, 39, 1093-1103.	4.9	37
13	Pyrimidinetrione-imidazoles as a Unique Structural Type of Potential Agents towards <i>Candida Albicans</i> : Design, Synthesis and Biological Evaluation. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1417-1429.	3.3	32
14	Membrane active 7-thiazoxime quinolones as novel DNA binding agents to decrease the genes expression and exert potent anti-methicillin-resistant <i>Staphylococcus aureus</i> activity. <i>European Journal of Medicinal Chemistry</i> , 2021, 217, 113340.	5.5	55
15	Identification of Unique Quinazolonethiazoles as Novel Structural Scaffolds for Potential Gram-Negative Bacterial Conquerors. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 7630-7645.	6.4	57
16	Novel carbazole-oxadiazoles as potential <i>Staphylococcus aureus</i> germicides. <i>Pesticide Biochemistry and Physiology</i> , 2021, 175, 104849.	3.6	41
17	Isatin-derived azoles as new potential antimicrobial agents: Design, synthesis and biological evaluation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 41, 128030.	2.2	19
18	Unique para-aminobenzenesulfonyl oxadiazoles as novel structural potential membrane active antibacterial agents towards drug-resistant methicillin resistant <i>Staphylococcus aureus</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 41, 127995.	2.2	33

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19	Design and Synthesis of Sulfanilamide Aminophosphonates as Novel Antibacterial Agents towards <i>Escherichia coli</i> . Chinese Journal of Chemistry, 2021, 39, 2251-2263.	4.9	40
20	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
21	Natural Berberine-Hybridized Benzimidazoles as Novel Unique Bactericides against <i>Staphylococcus aureus</i> . Journal of Agricultural and Food Chemistry, 2021, 69, 7831-7840.	5.2	48
22	Molecular design and preparation of 2-aminothiazole sulfanilamide oximes as membrane active antibacterial agents for drug resistant <i>Acinetobacter baumannii</i> . Bioorganic Chemistry, 2021, 113, 105039.	4.1	41
23	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
24	Discovery of novel purinylthiazolylethanone derivatives as anti- <i>Candida albicans</i> agents through possible multifaceted mechanisms. European Journal of Medicinal Chemistry, 2021, 221, 113557.	5.5	38
25	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
26	Ethylenic conjugated coumarin thiazolidinediones as new efficient antimicrobial modulators against clinical methicillin-resistant <i>Staphylococcus aureus</i> . Bioorganic Chemistry, 2020, 94, 103434.	4.1	63
27	An unexpected discovery toward novel membrane active sulfonyl thiazoles as potential MRSA DNA intercalators. Future Medicinal Chemistry, 2020, 12, 1709-1727.	2.3	29
28	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
29	Isomannide monoundecenoate-based 1,2,3-triazoles: Design, synthesis, and in vitro bioactive evaluation. Journal of Heterocyclic Chemistry, 2020, 57, 4312-4321.	2.6	5
30	Design and Synthesis of Novel Sulfonamide-Derived Triazoles and Bioactivity Exploration. Medicinal Chemistry, 2020, 16, 104-118.	1.5	13
31	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
32	Indole-nitroimidazole conjugates as efficient manipulators to decrease the genes expression of methicillin-resistant <i>Staphylococcus aureus</i> . European Journal of Medicinal Chemistry, 2019, 179, 723-735.	5.5	57
33	Novel potential artificial MRSA DNA intercalators: synthesis and biological evaluation of berberine-derived thiazolidinediones. Organic Chemistry Frontiers, 2019, 6, 319-334.	4.5	52
34	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
35	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
36	Sulfonamide-Derived Four-Component Molecular Hybrids as Novel DNA-Targeting Membrane Active Potentiators against Clinical <i>Escherichia coli</i> . Molecular Pharmaceutics, 2019, 16, 1036-1052.	4.6	49

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37	Researches and applications of nitroimidazole heterocycles in medicinal chemistry. <i>Scientia Sinica Chimica</i> , 2019, 49, 230-255.	0.4	19
38	Molecular interaction of novel benzothiazolyl triazolium analogues with calf thymus DNA and HSA-their biological investigation as potent antimicrobial agents. <i>European Journal of Medicinal Chemistry</i> , 2018, 150, 228-247.	5.5	28
39	Discovery of Benzimidazole-Quinolone Hybrids as New Cleaving Agents toward Drug-Resistant <i>Pseudomonas aeruginosa</i> DNA. <i>ChemMedChem</i> , 2018, 13, 1004-1017.	3.2	45
40	Novel naphthalimide nitroimidazoles as multitargeting antibacterial agents against resistant <i>Acinetobacter baumannii</i> . <i>Future Medicinal Chemistry</i> , 2018, 10, 711-724.	2.3	36
41	Potential Antimicrobial Isopropanol-Conjugated Carbazole Azoles as Dual Targeting Inhibitors of <i>Enterococcus faecalis</i> . <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 244-249.	2.8	62
42	Discovery of 2-aminothiazolyl berberine derivatives as effectively antibacterial agents toward clinically drug-resistant Gram-negative <i>Acinetobacter baumannii</i> . <i>European Journal of Medicinal Chemistry</i> , 2018, 146, 15-37.	5.5	83
43	Discovery of natural berberine-derived nitroimidazoles as potentially multi-targeting agents against drug-resistant <i>Escherichia coli</i> . <i>Science China Chemistry</i> , 2018, 61, 557-568.	8.2	58
44	Novel purine benzimidazoles as antimicrobial agents by regulating ROS generation and targeting clinically resistant <i>Staphylococcus aureus</i> DNA groove. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 1621-1628.	2.2	50
45	Recent advance in oxazole-based medicinal chemistry. <i>European Journal of Medicinal Chemistry</i> , 2018, 144, 444-492.	5.5	249
46	Novel aminopyrimidinyl benzimidazoles as potentially antimicrobial agents: Design, synthesis and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2018, 143, 66-84.	5.5	99
47	Novel organophosphorus aminopyrimidines as unique structural DNA-targeting membrane active inhibitors towards drug-resistant methicillin-resistant <i>Staphylococcus aureus</i> . <i>MedChemComm</i> , 2018, 9, 1529-1537.	3.4	31
48	Azoalkyl ether imidazo[2,1-b]benzothiazoles as potentially antimicrobial agents with novel structural skeleton. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 2426-2431.	2.2	40
49	Novel carbazole-triazole conjugates as DNA-targeting membrane active potentiators against clinical isolated fungi. <i>European Journal of Medicinal Chemistry</i> , 2018, 155, 579-589.	5.5	59
50	Design, synthesis and biological evaluation of novel Schiff base-bridged tetrahydroprotoberberine triazoles as a new type of potential antimicrobial agents. <i>MedChemComm</i> , 2017, 8, 907-916.	3.4	37
51	Novel benzimidazolyl tetrahydroprotoberberines: Design, synthesis, antimicrobial evaluation and multi-targeting exploration. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 1737-1743.	2.2	31
52	Design, synthesis and biological evaluation of amino organophosphorus imidazoles as a new type of potential antimicrobial agents. <i>Science China Chemistry</i> , 2017, 60, 769-785.	8.2	46
53	Design, synthesis and antimicrobial evaluation of novel benzimidazole-incorporated sulfonamide analogues. <i>European Journal of Medicinal Chemistry</i> , 2017, 136, 165-183.	5.5	89
54	Discovery of potential antifungal triazoles: design, synthesis, biological evaluation, and preliminary antifungal mechanism exploration. <i>MedChemComm</i> , 2017, 8, 1631-1639.	3.4	40

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55	Novel potentially antibacterial naphthalimide-derived metronidazoles: Design, synthesis, biological evaluation and supramolecular interactions with DNA, human serum albumin and topoisomerase II. <i>Chinese Chemical Letters</i> , 2017, 28, 1369-1374.	9.0	38
56	Novel potentially antifungal hybrids of 5-flucytosine and fluconazole: Design, synthesis and bioactive evaluation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 4964-4969.	2.2	48
57	Discovery of novel nitroimidazole enols as <i>Pseudomonas aeruginosa</i> DNA cleavage agents. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 6511-6522.	3.0	40
58	Antimicrobial 2-aminothiazolyl quinolones: what is their potential in the clinic?. <i>Future Medicinal Chemistry</i> , 2017, 9, 1461-1464.	2.3	27
59	Novel Naphthalimide Aminothiazoles as Potential Multitargeting Antimicrobial Agents. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 1331-1335.	2.8	56
60	Design and synthesis of quinazolinone imidazoles and their antibacterial and DNA-targeting investigation. <i>Scientia Sinica Chimica</i> , 2017, 47, 844-858.	0.4	7
61	Design, synthesis and biological evaluation of 5-fluorouracil-derived benzimidazoles as novel type of potential antimicrobial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 2584-2588.	2.2	69
62	Novel 3-Aminothiazolquinolones: Design, Synthesis, Bioactive Evaluation, SARs, and Preliminary Antibacterial Mechanism. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 4488-4510.	6.4	128
63	Discovery of novel berberine imidazoles as safe antimicrobial agents by down regulating ROS generation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 2768-2773.	2.2	92
64	Copper-Catalyzed Inter/Intramolecular <i>N</i> -Alkenylation of Benzimidazoles via Tandem Processes Involving Selectively Mild Iodination of $\text{sp}^3\text{C-H}$ Bond at β -Position of Ester. <i>Journal of Organic Chemistry</i> , 2016, 81, 8806-8815.	3.2	23
65	Quinazolinone azolyl ethanols: potential lead antimicrobial agents with dual action modes targeting methicillin-resistant <i>Staphylococcus aureus</i> DNA. <i>Future Medicinal Chemistry</i> , 2016, 8, 1927-1940.	2.3	51
66	Coumarin-derived azolyl ethanols: synthesis, antimicrobial evaluation and preliminary action mechanism. <i>Science China Chemistry</i> , 2016, 59, 878-894.	8.2	56
67	Design, synthesis, and biological evaluation of novel carbazole aminothiazoles as potential DNA-targeting antimicrobial agents. <i>MedChemComm</i> , 2016, 7, 1988-1994.	3.4	37
68	Multi-targeting exploration of new 2-aminothiazolyl quinolones: Synthesis, antimicrobial evaluation, interaction with DNA, combination with topoisomerase IV and penetrability into cells. <i>European Journal of Medicinal Chemistry</i> , 2016, 124, 935-945.	5.5	65
69	Design, synthesis and biological evaluation of berberine-benzimidazole hybrids as new type of potentially DNA-targeting antimicrobial agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 122, 205-215.	5.5	76
70	Discovery of membrane active benzimidazole quinolones-based topoisomerase inhibitors as potential DNA-binding antimicrobial agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 111, 160-182.	5.5	86
71	Synthesis and biological evaluation of Schiff base-linked imidazolyl naphthalimides as novel potential anti-MRSA agents. <i>MedChemComm</i> , 2016, 7, 924-931.	3.4	45
72	A green and convenient approach toward benzimidazole derivatives and their antimicrobial activity. <i>Chinese Chemical Letters</i> , 2016, 27, 391-394.	9.0	18

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73	Recent advance in sulfonamide-based medicinal chemistry. <i>Scientia Sinica Chimica</i> , 2016, 46, 823-847.	0.4	29
74	New Progress in Azole Compounds as Antimicrobial Agents. <i>Mini-Reviews in Medicinal Chemistry</i> , 2016, 17, 122-166.	2.4	105
75	Heterocyclic Naphthalimides as New Skeleton Structure of Compounds with Increasingly Expanding Relational Medicinal Applications. <i>Current Topics in Medicinal Chemistry</i> , 2016, 16, 3303-3364.	2.1	75
76	Design, synthesis, and antibacterial evaluation of novel azolythioether quinolones as MRSA DNA intercalators. <i>MedChemComm</i> , 2015, 6, 1303-1310.	3.4	38
77	Design, Synthesis, and Antimicrobial Evaluation of Novel Quinolone Imidazoles and Interactions with MRSA DNA. <i>Chemical Biology and Drug Design</i> , 2015, 86, 648-655.	3.2	43
78	Novel benzimidazole derived naphthalimide triazoles: synthesis, antimicrobial activity and interactions with calf thymus DNA. <i>Science China Chemistry</i> , 2015, 58, 483-494.	8.2	49
79	Design and biological evaluation of novel quinolone-based metronidazole derivatives as potent Cu ²⁺ -mediated DNA-targeting antibacterial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3699-3705.	2.2	61
80	Synthesis of novel sulfonamide azoles via C-N cleavage of sulfonamides by azole ring and relational antimicrobial study. <i>New Journal of Chemistry</i> , 2015, 39, 5776-5796.	2.8	51
81	Synthesis and biological evaluation of novel d-glucose-derived 1,2,3-triazoles as potential antibacterial and antifungal agents. <i>Medicinal Chemistry Research</i> , 2015, 24, 182-196.	2.4	30
82	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. <i>MedChemComm</i> , 2015, 6, 147-154.	3.4	51
83	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. <i>MedChemComm</i> , 2015, 6, 222-229.	3.4	50
84	Synthesis and biological evaluation of 1,2,3-triazolyl chalcones as a new type of potential antimicrobial agents and their interaction with calf thymus DNA and human serum albumin. <i>European Journal of Medicinal Chemistry</i> , 2014, 71, 148-159.	5.5	125
85	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 308-313.	2.2	71
86	The synthesis and activities of novel mononuclear or dinuclear cyclen complexes bearing azole pendants as antibacterial and antifungal agents. <i>European Journal of Medicinal Chemistry</i> , 2014, 84, 677-686.	5.5	27
87	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. <i>European Journal of Medicinal Chemistry</i> , 2014, 86, 318-334.	5.5	88
88	A unique one-pot reaction via CC cleavage from aminomethylene benzimidazoles to access benzimidazolones with wide potentiality. <i>Tetrahedron Letters</i> , 2014, 55, 4105-4109.	1.4	14
89	Synthesis and bioactive evaluation of a novel series of coumarinazoles. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3605-3608.	2.2	48
90	Comprehensive Review in Current Developments of Imidazole-Based Medicinal Chemistry. <i>Medicinal Research Reviews</i> , 2014, 34, 340-437.	10.5	575

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91	Current Developments in the Syntheses of 1,2,4-Triazole Compounds. <i>Current Organic Chemistry</i> , 2014, 18, 359-406.	1.6	59
92	Synthesis and biological evaluation of a class of quinolone triazoles as potential antimicrobial agents and their interactions with calf thymus DNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 3267-3272.	2.2	80
93	Design, synthesis and antimicrobial evaluation of novel benzimidazole type of Fluconazole analogues and their synergistic effects with Chloromycin, Norfloxacin and Fluconazole. <i>European Journal of Medicinal Chemistry</i> , 2013, 64, 329-344.	5.5	103
94	Novel berberine triazoles: Synthesis, antimicrobial evaluation and competitive interactions with metal ions to Human Serum Albumin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 1008-1012.	2.2	60
95	Berberine azoles as antimicrobial agents: synthesis, biological evaluation and their interactions with human serum albumin. <i>MedChemComm</i> , 2013, 4, 839.	3.4	36
96	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. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 4158-4169.	3.0	58
97	Recent Developments in Azole Compounds as Antibacterial and Antifungal Agents. <i>Current Topics in Medicinal Chemistry</i> , 2013, 13, 1963-2010.	2.1	209
98	Design, synthesis and evaluation of clinafloxacin triazole hybrids as a new type of antibacterial and antifungal agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5363-5366.	2.2	95
99	Synthesis and biological evaluation of novel benzimidazole derivatives and their binding behavior with bovine serum albumin. <i>European Journal of Medicinal Chemistry</i> , 2012, 55, 164-175.	5.5	79
100	Synthesis of novel fluconazoliums and their evaluation for antibacterial and antifungal activities. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4391-4402.	5.5	48
101	Synthesis and evaluation of a class of new coumarin triazole derivatives as potential antimicrobial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 956-960.	2.2	224
102	Synthesis and activities of naphthalimide azoles as a new type of antibacterial and antifungal agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4349-4352.	2.2	91
103	Synthesis, antibacterial and antifungal activities of some carbazole derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 1881-1884.	2.2	208
104	Synthesis and biological activities of novel amine-derived bis-azoles as potential antibacterial and antifungal agents. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 4388-4398.	5.5	106
105	Synthesis of novel sulfanilamide-derived 1,2,3-triazoles and their evaluation for antibacterial and antifungal activities. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 4631-4639.	5.5	321