K P Rakesh

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2068366/publications.pdf

Version: 2024-02-01

65 papers	3,957 citations	71097 41 h-index	123420 61 g-index
66 all docs	66 docs citations	66 times ranked	4070 citing authors

#	Article	IF	Citations
1	Pharmaceutical and medicinal significance of sulfur (SVI)-Containing motifs for drug discovery: A critical review. European Journal of Medicinal Chemistry, 2019, 162, 679-734.	5.5	348
2	Visible-light initiated aerobic oxidations: a critical review. Green Chemistry, 2018, 20, 4790-4833.	9.0	189
3	Synthetic approaches and pharmaceutical applications of chloro-containing molecules for drug discovery: A critical review. European Journal of Medicinal Chemistry, 2019, 173, 117-153.	5.5	142
4	Chalcone derivatives and their antibacterial activities: Current development. Bioorganic Chemistry, 2019, 91, 103133.	4.1	135
5	Visible Lightâ€Induced Câ^'H Bond Functionalization: A Critical Review. Advanced Synthesis and Catalysis, 2018, 360, 4652-4698.	4.3	131
6	Schiffâ€™s bases of quinazolinone derivatives: Synthesis and SAR studies of a novel series of potential anti-inflammatory and antioxidants. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1072-1077.	2.2	128
7	Podophyllotoxin derivatives as an excellent anticancer aspirant for future chemotherapy: A key current imminent needs. Bioorganic and Medicinal Chemistry, 2018, 26, 340-355.	3.0	123
8	Antibacterial activities with the structure-activity relationship of coumarin derivatives. European Journal of Medicinal Chemistry, 2020, 207, 112832.	5.5	116
9	Innovative nano-carriers in anticancer drug delivery-a comprehensive review. Bioorganic Chemistry, 2019, 85, 325-336.	4.1	115
10	Chalcone hybrids as privileged scaffolds in antimalarial drug discovery: A key review. European Journal of Medicinal Chemistry, 2020, 193, 112215.	5.5	98
11	Indole-based derivatives as potential antibacterial activity against methicillin-resistance Staphylococcus aureus (MRSA). European Journal of Medicinal Chemistry, 2020, 194, 112245.	5.5	93
12	Pyrazole-based analogs as potential antibacterial agents against methicillin-resistance staphylococcus aureus (MRSA) and its SAR elucidation. European Journal of Medicinal Chemistry, 2021, 212, 113134.	5.5	92
13	Triazole derivatives as inhibitors of Alzheimer's disease: Current developments and structure-activity relationships. European Journal of Medicinal Chemistry, 2019, 180, 656-672.	5.5	89
14	Multi-targetable chalcone analogs to treat deadly Alzheimerâ€™s disease: Current view and upcoming advice. Bioorganic Chemistry, 2018, 80, 86-93.	4.1	87
15	Recent Development of Sulfonyl or Sulfonamide Hybrids as Potential Anticancer Agents: A Key Review. Anti-Cancer Agents in Medicinal Chemistry, 2018, 18, 488-505.	1.7	86
16	Structure-activity relationships (SAR) of triazine derivatives: Promising antimicrobial agents. European Journal of Medicinal Chemistry, 2020, 185, 111804.	5.5	80
17	Discovery of novel arylethenesulfonyl fluorides as potential candidates against methicillin-resistant of Staphylococcus aureus (MRSA) for overcoming multidrug resistance of bacterial infections. European Journal of Medicinal Chemistry, 2019, 162, 364-377.	5.5	72
18	Benzisoxazole: a privileged scaffold for medicinal chemistry. MedChemComm, 2017, 8, 2023-2039.	3.4	71

#	Article	IF	Citations
19	Synthesis, SAR and molecular docking studies of benzo[d]thiazole-hydrazones as potential antibacterial and antifungal agents. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 3148-3155.	2.2	70
20	Vision for medicine: Staphylococcus aureus biofilm war and unlocking key's for anti-biofilm drug development. Microbial Pathogenesis, 2018, 123, 339-347.	2.9	69
21	Amino acids/peptides conjugated heterocycles: A tool for the recent development of novel therapeutic agents. Bioorganic Chemistry, 2018, 76, 113-129.	4.1	63
22	Antibacterial activities of sulfonyl or sulfonamide containing heterocyclic derivatives and its structure-activity relationships (SAR) studies: A critical review. Bioorganic Chemistry, 2020, 105, 104400.	4.1	62
23	Applications of sulfuryl fluoride (SO₂F₂) in chemical transformations. Organic Chemistry Frontiers, 2019, 6, 3490-3516.	4.5	60
24	A key review on oxadiazole analogs as potential methicillin-resistant Staphylococcus aureus (MRSA) activity: Structure-activity relationship studies. European Journal of Medicinal Chemistry, 2021, 219, 113442.	5.5	58
25	Synthesis and molecular docking studies of xanthone attached amino acids as potential antimicrobial and anti-inflammatory agents. MedChemComm, 2017, 8, 1706-1719.	3.4	58
26	Aryl fluorosulfate analogues as potent antimicrobial agents: SAR, cytotoxicity and docking studies. Bioorganic Chemistry, 2018, 81, 107-118.	4.1	55
27	Pharmaceutical significance of azepane based motifs for drug discovery: A critical review. European Journal of Medicinal Chemistry, 2019, 162, 465-494.	5.5	55
28	Combating a Master Manipulator: Staphylococcus aureus Immunomodulatory Molecules as Targets for Combinatorial Drug Discovery. ACS Combinatorial Science, 2018, 20, 681-693.	3.8	54
29	Novel T-C@AgNPs mediated biocidal mechanism against biofilm associated methicillin-resistant Staphylococcus aureus (Bap-MRSA) 090, cytotoxicity and its molecular docking studies. MedChemComm, 2017, 8, 2181-2194.	3.4	51
30	Amino acids conjugated quinazolinone-Schiffâ€™s bases as potential antimicrobial agents: Synthesis, SAR and molecular docking studies. Bioorganic Chemistry, 2019, 90, 103093.	4.1	50
31	Master mechanisms of Staphylococcus aureus: consider its excellent protective mechanisms hindering vaccine development!. Microbiological Research, 2018, 212-213, 59-66.	5.3	48
32	Carbonylâ€“olefin metathesis: a key review. Organic Chemistry Frontiers, 2018, 5, 1381-1391.	4.5	47
33	Multi-targeted dihydrazones as potent biotherapeutics. Bioorganic Chemistry, 2018, 81, 389-395.	4.1	47
34	Role of BP*C@AgNPs in Bap-dependent multicellular behavior of clinically important methicillin-resistant Staphylococcus aureus (MRSA) biofilm adherence: A key virulence study. Microbial Pathogenesis, 2018, 123, 275-284.	2.9	47
35	Anticancer and DNA binding studies of potential amino acids based quinazolinone analogs: Synthesis, SAR and molecular docking. Bioorganic Chemistry, 2019, 87, 252-264.	4.1	47
36	Structure-activity relationship (SAR) studies of synthetic glycogen synthase kinase-3Î² inhibitors: A critical review. European Journal of Medicinal Chemistry, 2019, 164, 448-470.	5.5	47

#	Article	IF	Citations
37	Anti-tuberculosis activity and its structure-activity relationship (SAR) studies of oxadiazole derivatives: A key review. European Journal of Medicinal Chemistry, 2021, 209, 112886.	5.5	47
38	Heterogeneous graphitic carbon nitrides in visible-light-initiated organic transformations. Green Chemistry, 2022, 24, 438-479.	9.0	47
39	Synthesis of novel benzodioxane midst piperazine moiety decorated chitosan silver nanoparticle against biohazard pathogens and as potential anti-inflammatory candidate: A molecular docking studies. International Journal of Biological Macromolecules, 2018, 108, 489-502.	7.5	46
40	Pd-Catalyzed one-pot dehydroxylative coupling of phenols with K₄[Fe(CN)₆] mediated by SO₂F₂: a practical method for the direct conversion of phenols to aryl nitriles. Organic Chemistry Frontiers, 2018, 5, 1835-1839.	4.5	44
41	Synthesis of benzo[d]thiazole-hydrazone analogues: molecular docking and SAR studies of potential H⁺/K⁺ATPase inhibitors and anti-inflammatory agents. MedChemComm, 2017, 8, 1173-1189.	3.4	43
42	Arylnaphthalene lactone analogues: synthesis and development as excellent biological candidates for future drug discovery. RSC Advances, 2018, 8, 9487-9502.	3.6	43
43	Recent Developments in Radicalâ€Mediated Transformations of Organohalides. European Journal of Organic Chemistry, 2019, 2019, 2769-2806.	2.4	42
44	The significance of N-methylpicolinamides in the development of anticancer therapeutics: Synthesis and structure-activity relationship (SAR) studies. Bioorganic Chemistry, 2019, 86, 513-537.	4.1	40
45	Promising bactericidal approach of dihydrazone analogues against bio-film forming Gram-negative bacteria and molecular mechanistic studies. RSC Advances, 2018, 8, 5473-5483.	3.6	39
46	Transition-metal-free regioselective construction of 1,5-diaryl-1,2,3-triazoles through dehydrative cycloaddition of alcohols with aryl azides mediated by SO₂F₂. Chemical Communications, 2019, 55, 2845-2848.	4.1	35
47	Rh-Catalyzed Highly Enantioselective Synthesis of Aliphatic Sulfonyl Fluorides. IScience, 2019, 21, 695-705.	4.1	32
48	A portal to a class of novel sultone-functionalized pyridines via an annulative SuFEx process employing earth abundant nickel catalysts. Chemical Communications, 2018, 54, 9011-9014.	4.1	30
49	Radical scavenging and anti-inflammatory activities of (hetero)arylethenesulfonyl fluorides: Synthesis and structure-activity relationship (SAR) and QSAR studies. Bioorganic Chemistry, 2019, 89, 103015.	4.1	28
50	Synthesis and SAR studies of potent H+/K+-ATPase inhibitors of quinazolinone-Schiffâ€™s base analogues. Bioorganic Chemistry, 2016, 68, 1-8.	4.1	26
51	Hydrophilic SiC hollow fiber membranes for low fouling separation of oil-in-water emulsions with high flux. RSC Advances, 2020, 10, 4832-4839.	3.6	25
52	Development of piperazine-1-carbothioamide chitosan silver nanoparticles (P1C-Tit*CAgNPs) as a promising anti-inflammatory candidate: a molecular docking validation. MedChemComm, 2018, 9, 713-724.	3.4	24
53	2â€Azidoethaneâ€1â€sulfonylfluoride (ASF): A Versatile Bisâ€clickable Reagent for SuFEx and CuAAC Click Reactions. European Journal of Organic Chemistry, 2019, 2019, 1763-1769.	2.4	23
54	Anti-inflammatory and Antioxidant Peptide-Conjugates: Modulation of Activity by Charged and Hydrophobic Residues. International Journal of Peptide Research and Therapeutics, 2019, 25, 227-234.	1.9	23

#	Article	IF	Citations
55	Construction of Di(hetero)arylmethanes Through Pdâ€Catalyzed Direct Dehydroxylative Crossâ€Coupling of Benzylic Alcohols and Aryl Boronic Acids Mediated by Sulfuryl Fluoride (SO₂F₂). European Journal of Organic Chemistry, 2019, 2019, 1801-1807.	2.4	20
56	An unexpected reaction to methodology: an unprecedented approach to transamidation. RSC Advances, 2016, 6, 108315-108318.	3.6	19
57	Synthetic routes and structure-activity relationships (SAR) of anti-HIV agents: A key review. European Journal of Medicinal Chemistry, 2019, 181, 111566.	5.5	18
58	But-3-ene-1,3-disulfonyl difluoride (BDF): a highly selective SuFEx clickable hub for the quick assembly of sultam-containing aliphatic sulfonyl fluorides. Chemical Communications, 2020, 56, 8075-8078.	4.1	17
59	Catalytic pyrolysis of ulva lactuca macroalgae: Effects of mono and bimetallic catalysts and reaction parameters on bio-oil up-gradation. Bioresource Technology, 2021, 324, 124594.	9.6	14
60	Copper-catalyzed mild desulfonylation of vinyl sulfonyl molecules. Organic Chemistry Frontiers, 2020, 7, 1696-1702.	4.5	13
61	Synthesis and SAR studies of potent H+/K+-ATPase and anti-inflammatory activities of symmetrical and unsymmetrical urea analogues. Medicinal Chemistry Research, 2017, 26, 1675-1681.	2.4	12
62	SO₂F₂-mediated transformation of 2'-hydroxyacetophenones to benzo-oxetes. Beilstein Journal of Organic Chemistry, 2019, 15, 976-980.	2.2	11
63	Copper-Promoted Conjugate Addition of Carboxylic Acids to Ethenesulfonyl Fluoride (ESF) for Constructing Aliphatic Sulfonyl Fluorides. ACS Omega, 2021, 6, 25972-25981.	3.5	5
64	A general approach to nitrile- and sulfonyl fluoride-substituted cyclopropanes. Organic and Biomolecular Chemistry, 2021, 19, 6021-6024.	2.8	4
65	Synthesis of Dihydrazones as Potential Anticancer and DNA Binding Candidates: A Validation by Molecular Docking Studies. Anti-Cancer Agents in Medicinal Chemistry, 2020, 20, 845-858.	1.7	4