Prashant S Kharkar

List of Publications by Year
in descending order

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70	1,334	361413	395702
papers	citations	20 h-index	33 g-index

72	72	72	2142
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reverse docking: a powerful tool for drug repositioning and drug rescue. Future Medicinal Chemistry, 2014, 6, 333-342.	2.3	106
2	Three-Dimensional Quantitative Structureâ"Activity Relationship of 1,4-Dihydropyridines As Antitubercular Agents. Journal of Medicinal Chemistry, 2002, 45, 4858-4867.	6.4	99
3	Interaction of cocaineâ€, benztropineâ€, and GBR12909â€like compounds with wildâ€type and mutant human dopamine transporters: molecular features that differentially determine antagonistâ€binding properties. Journal of Neurochemistry, 2008, 107, 928-940.	3.9	67
4	Biomass and waste materials as potential sources of nanocrystalline cellulose: Comparative review of preparation methods (2016 â€" Till date). Carbohydrate Polymers, 2019, 207, 418-427.	10.2	66
5	Development of (S)-N⁶-(2-(4-(Isoquinolin-1-yl)piperazin-1-yl)ethyl)-N⁶-propyl-4,5,6,7-tetrahydrobenzo[and Its Analogue as a D3 Receptor Preferring Agonist: Potent in Vivo Activity in Parkinsonâ€™s Disease Animal Models. Journal of Medicinal Chemistry, 2010, 53, 1023-1037.	6.4	58
6	A coumarin based chemosensor for selective determination of Cu (II) ions based on fluorescence quenching. Journal of Luminescence, 2018, 199, 407-415.	3.1	47
7	Novel chalcone and flavone derivatives as selective and dual inhibitors of the transport proteins ABCB1 and ABCG2. European Journal of Medicinal Chemistry, 2019, 164, 193-213.	5.5	39
8	Design, synthesis, antifungal activity, and ADME prediction of functional analogues of terbinafine. Medicinal Chemistry Research, 2009, 18, 421-432.	2.4	38
9	InÂsitu allicin generation using targeted alliinase delivery for inhibition of MIA PaCa-2 cells via epigenetic changes, oxidative stress and cyclin-dependent kinase inhibitor (CDKI) expression. Apoptosis: an International Journal on Programmed Cell Death, 2015, 20, 1388-1409.	4.9	37
10	Design, synthesis and biological evaluation of novel azaspiro analogs of linezolid as antibacterial and antitubercular agents. European Journal of Medicinal Chemistry, 2016, 122, 475-487.	5.5	35
11	Two-Dimensional (2D) In Silico Models for Absorption, Distribution, Metabolism, Excretion and Toxicity (ADME/T) in Drug Discovery. Current Topics in Medicinal Chemistry, 2010, 10, 116-126.	2.1	33
12	Phospholipid complex-loaded self-assembled phytosomal soft nanoparticles: evidence of enhanced solubility, dissolution rate, ex vivo permeability, oral bioavailability, and antioxidant potential of mangiferin. Drug Delivery and Translational Research, 2021, 11, 1056-1083.	5.8	33
13	Highly selective on-off fluorescence recognition of Fe3+ based on a coumarin derivative and its application in live-cell imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 659-665.	3.9	30
14	Inosine 5â€²-monophosphate dehydrogenase inhibitors as antimicrobial agents: recent progress and future perspectives. Future Medicinal Chemistry, 2015, 7, 1415-1429.	2.3	28
15	Design, synthesis, biological evaluation, molecular docking and QSAR studies of 2,4-dimethylacridones as anticancer agents. European Journal of Medicinal Chemistry, 2017, 130, 154-170.	5.5	26
16	Encapsulation of boswellic acid with Î²- and hydroxypropyl-Î²-cyclodextrin: Synthesis, characterization, inÂvitro drug release and molecular modelling studies. Journal of Molecular Structure, 2018, 1154, 504-510.	3.6	26
17	Molecular docking prediction and in vitro studies elucidate anti-cancer activity of phytoestrogens. Life Sciences, 2017, 185, 73-84.	4.3	25
18	Hit discovery of Mycobacterium tuberculosis inosine 5â€²-monophosphate dehydrogenase, GuaB2, inhibitors. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 1714-1718.	2.2	25

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19	Molecular Insights into Coumarin Analogues as Antimicrobial Agents: Recent Developments in Drug Discovery. Antibiotics, 2022, 11, 566.	3.7	25
20	Novel analogs of sulfasalazine as system x_c^{â^'} antiporter inhibitors: Insights from the molecular modeling studies. Drug Development Research, 2019, 80, 758-777.	2.9	23
21	Cancer Stem Cell (CSC) Inhibitors in Oncologyâ€"A Promise for a Better Therapeutic Outcome: State of the Art and Future Perspectives. Journal of Medicinal Chemistry, 2020, 63, 15279-15307.	6.4	23
22	Structurally Constrained Hybrid Derivatives Containing Octahydrobenzo[g or f]quinoline Moieties for Dopamine D2 and D3 Receptors: Binding Characterization at D2/D3 Receptors and Elucidation of a Pharmacophore Model. Journal of Medicinal Chemistry, 2008, 51, 7806-7819.	6.4	21
23	Carbonic Anhydrase Inhibitors: Design, Synthesis, and Biological Evaluation of Novel Sulfonyl Semicarbazide Derivatives. ACS Medicinal Chemistry Letters, 2014, 5, 793-796.	2.8	21
24	Investigation of HSA as a biocompatible coating material for arsenic trioxide nanoparticles. Nanoscale, 2018, 10, 8031-8041.	5.6	20
25	Cancer stem cell (CSC) inhibitors: a review of recent patents (2012-2015). Expert Opinion on Therapeutic Patents, 2017, 27, 753-761.	5.0	19
26	Discovery of novel human inosine 5â€²-monophosphate dehydrogenase 2 (hIMPDH2) inhibitors as potential anticancer agents. European Journal of Medicinal Chemistry, 2018, 158, 286-301.	5.5	18
27	Attenuation of quorum sensing-regulated behaviour by Tinospora cordifolia extract & identification of its active constituents. Indian Journal of Medical Research, 2016, 144, 92.	1.0	17
28	Discovery of thiazolyl-phthalazinone acetamides as potent glucose uptake activators via high-throughput screening. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 5740-5743.	2.2	16
29	Use of combined nanocarrier system based on chitosan nanoparticles and phospholipids complex for improved delivery of ferulic acid. International Journal of Biological Macromolecules, 2021, 171, 288-307.	7.5	16
30	Virtual and experimental high-throughput screening (HTS) in search of novel inosine 5â€²-monophosphate dehydrogenase II (IMPDH II) inhibitors. Journal of Computer-Aided Molecular Design, 2012, 26, 1277-1292.	2.9	15
31	Crocetin and related oxygen <scp>diffusionâ€enhancing</scp> compounds: Review of chemical synthesis, pharmacology, clinical development, and novel therapeutic applications. Drug Development Research, 2021, 82, 883-895.	2.9	15
32	Computational Drug Repositioning: A Lateral Approach to Traditional Drug Discovery?. Current Topics in Medicinal Chemistry, 2016, 16, 2069-2077.	2.1	15
33	Three-dimensional quantitative structure-activity relationship (3D QSAR) and pharmacophore elucidation of tetrahydropyran derivatives as serotonin and norepinephrine transporter inhibitors. Journal of Computer-Aided Molecular Design, 2008, 22, 1-17.	2.9	14
34	Newer human inosine 5â€²-monophosphate dehydrogenase 2 (hIMPDH2) inhibitors as potential anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 972-977.	5.2	14
35	Inhibition of carbonic anhydrase isoforms I, II, IX and XII with Schiffâ€™s bases incorporating iminoureido moieties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 901-907.	5.2	13
36	Design, synthesis, and biological evaluation of Helicobacter pylori inosine 5â€²â€monophosphate dehydrogenase (HpIMPDH) inhibitors. Drug Development Research, 2019, 80, 125-132.	2.9	12

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37	An outlook on procedures of conjugating folate to (co)polymers and drugs for effective cancer targeting. Drug Development Research, 2020, 81, 823-836.	2.9	11
38	Synthesis and Biological Characterization of (3R,4R)-4-(2-(Benzhydryloxy)ethyl)-1-((R)-2-hydroxy-2-phenylethyl)-piperidin-3-ol and Its Stereoisomers for Activity toward Monoamine Transporters. ChemMedChem, 2009, 4, 1075-1085.	3.2	10
39	Design, synthesis and biological evaluation of novel inosine 5â€²-monophosphate dehydrogenase (IMPDH) inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 408-419.	5.2	10
40	Discovery of anti-Ebola drugs: a computational drug repositioning case study. RSC Advances, 2016, 6, 26329-26340.	3.6	10
41	Discovery of tetrahydrocarbazoles as dual pERK and pRb inhibitors. European Journal of Medicinal Chemistry, 2017, 134, 366-378.	5.5	10
42	In vivo pharmacokinetic interaction by ethanolic extract of Gymnema sylvestre with CYP2C9 (Tolbutamide), CYP3A4 (Amlodipine) and CYP1A2 (Phenacetin) in rats. Chemico-Biological Interactions, 2017, 278, 141-151.	4.0	10
43	Targeting Heat Shock Protein 90 for Malaria. Mini-Reviews in Medicinal Chemistry, 2013, 13, 1903-1920.	2.4	10
44	Emerging roles of system antiporter and its inhibition in CNS disorders. Molecular Membrane Biology, 2015, 32, 89-116.	2.0	9
45	Hybrids of Steroid and Nitrogen Mustard as Antiproliferative Agents: Synthesis, In Vitro Evaluation and In Silico Inverse Screening. Drug Research, 2018, 68, 100-103.	1.7	9
46	Potassium 2-methoxy-4-vinylphenolate: a novel hit exhibiting quorum-sensing inhibition inPseudomonas aeruginosa viaLasIR/RhlIR circuitry. RSC Advances, 2019, 9, 40228-40239.	3.6	9
47	Anxiolytic activity of Psidium guajava in mice subjected to chronic restraint stress and effect on neurotransmitters in brain. Phytotherapy Research, 2021, 35, 1399-1415.	5.8	9
48	A proposed model of Mycobacterium avium complex dihydrofolate reductase and its utility for drug designElectronic supplementary information (ESI) available: details of the calculations. See http://www.rsc.org/suppdata/ob/b2/b212211a/. Organic and Biomolecular Chemistry, 2003, 1, 1315-1322.	2.8	8
49	Ligand-Based Virtual Screening using Random Walk Kernel and Empirical Filters. Procedia Computer Science, 2015, 57, 418-427.	2.0	6
50	In search of novel anti-inflammatory agents: Computational repositioning of approved drugs. Journal of Computational Science, 2015, 10, 217-224.	2.9	6
51	Substituted chloroacetamides as potential cancer stem cell inhibitors: Synthesis and biological evaluation. Drug Development Research, 2020, 81, 356-365.	2.9	6
52	Metal Protein Attenuating Compounds (MPACs): An Emerging Approach for the Treatment of Neurodegenerative Disorders. Current Bioactive Compounds, 2008, 4, 57-67.	0.5	5
53	Modification of agonist binding moiety in hybrid derivative 5/7-{[2-(4-aryl-piperazin-1-yl)-ethyl]-propyl-amino}-5,6,7,8-tetrahydro-naphthalen-1-ol/-2-amino versions: Impact on functional activity and selectivity for dopamine D2/D3 receptors. Bioorganic and Medicinal Chemistry, 2013, 21, 3164-3174.	3.0	5
54	Drugs acting on central nervous system (CNS) targets as leads for non-CNS targets. F1000Research, 2014, 3, 40.	1.6	5

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55	Theoretical investigation of the derivatives of favipiravir (T-705) as potential drugs for Ebola virus. Physical Sciences Reviews, 2018, 3, .	0.8	5
56	Study of degradation behavior of besifloxacin, characterization of its degradation products by LCâ€“ESIâ€“QTOFâ€“MS and their in silico toxicity prediction. Biomedical Chromatography, 2019, 33, e4489.	1.7	5
57	Inâ€silico identification of small molecules targeting Hâ€Ras and inâ€vitro cytotoxicity with caspaseâ€mediated apoptosis in carcinoma cells. Journal of Cellular Biochemistry, 2019, 120, 5519-5530.	2.6	5
58	A novel series of substituted 1,2,3â€triazoles as cancer stem cell inhibitors: Synthesis and biological evaluation. Drug Development Research, 2021, 82, 68-85.	2.9	5
59	Fluorescent probes for biomedical applications (2009â€“2014). Pharmaceutical Patent Analyst, 2014, 3, 543-560.	1.1	4
60	Understanding the structural requirements of hybrid (S)-6-((2-(4-phenylpiperazin-1-yl)ethyl)(propyl)amino)-5,6,7,8-tetrahydronaphthalen-1-ol and its analogs as D2/D3 receptor ligands: a 3D QSAR investigation. MedChemComm, 2014, 5, 1384-1399.	3.4	4
61	Design, synthesis and biological evaluation of Helicobacter pylori inosine 5â€²-monophosphate dehydrogenase (HpIMPDH) inhibitors. Further optimization of selectivity towards HpIMPDH over human IMPDH2. Bioorganic Chemistry, 2019, 87, 753-764.	4.1	4
62	Computational Approaches for the Design of (Mutant-)Selective Tyrosine Kinase Inhibitors: State-of-the-Art and Future Prospects. Current Topics in Medicinal Chemistry, 2020, 20, 1564-1575.	2.1	4
63	Drug Repurposing in Search of Anti-Infectives: Need of the Hour in the Multidrug Resistance Era!. , 2019, , 399-426.		3
64	A Concise Analytical Profile of Efavirenz: Analytical Methodologies. Critical Reviews in Analytical Chemistry, 2022, 52, 1583-1592.	3.5	3
65	Egg White Protein Carrier-Assisted Development of Solid Dispersion for Improved Aqueous Solubility and Permeability of Poorly Water Soluble Hydrochlorothiazide. AAPS PharmSciTech, 2021, 22, 94.	3.3	3
66	Inverse Virtual Screening in Drug Repositioning: Detailed Investigation and Case Studies. , 2016, , 71-83.		2
67	Computational prediction of toxicity of small organic molecules: state-of-the-art. Physical Sciences Reviews, 2019, 4, .	0.8	2
68	Greener approach for process intensification of iron haematinics by membrane nanofiltration. Journal of the Indian Chemical Society, 2022, 99, 100510.	2.8	1
69	2. Theoretical investigation of the derivatives of favipiravir (T-705) as potential drugs for Ebola virus. , 2018, , 19-32.		0
70	Chemistry of Iodinated Contrast Media (ICM): A Mini Review. Mini-Reviews in Organic Chemistry, 2021, 18, 885-901.	1.3	0