

Prashant S Kharkar

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,334
citations

361296

20
h-index

395590

33
g-index

72
all docs

72
docs citations

72
times ranked

2142
citing authors

#	ARTICLE	IF	CITATIONS
1	Reverse docking: a powerful tool for drug repositioning and drug rescue. <i>Future Medicinal Chemistry</i> , 2014, 6, 333-342.	1.1	106
2	Three-Dimensional Quantitative Structure-Activity Relationship of 1,4-Dihydropyridines As Antitubercular Agents. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 4858-4867.	2.9	99
3	Interaction of cocaine, benztropine, and GBR12909-like compounds with wild-type and mutant human dopamine transporters: molecular features that differentially determine antagonist-binding properties. <i>Journal of Neurochemistry</i> , 2008, 107, 928-940.	2.1	67
4	Biomass and waste materials as potential sources of nanocrystalline cellulose: Comparative review of preparation methods (2016 – Till date). <i>Carbohydrate Polymers</i> , 2019, 207, 418-427.	5.1	66
5	Development of (S)-N-(2-(4-(Isoquinolin-1-yl)piperazin-1-yl)ethyl)-N-propyl-4,5,6,7-tetrahydrobenzo[<i>c</i>] and Its Analogue as a D3 Receptor Preferring Agonist: Potent in Vivo Activity in Parkinson's Disease Animal Models. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 1023-1037.	2.9	58
6	A coumarin based chemosensor for selective determination of Cu (II) ions based on fluorescence quenching. <i>Journal of Luminescence</i> , 2018, 199, 407-415.	1.5	47
7	Novel chalcone and flavone derivatives as selective and dual inhibitors of the transport proteins ABCB1 and ABCG2. <i>European Journal of Medicinal Chemistry</i> , 2019, 164, 193-213.	2.6	39
8	Design, synthesis, antifungal activity, and ADME prediction of functional analogues of terbinafine. <i>Medicinal Chemistry Research</i> , 2009, 18, 421-432.	1.1	38
9	In-situ 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. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2015, 20, 1388-1409.	2.2	37
10	Design, synthesis and biological evaluation of novel azaspiro analogs of linezolid as antibacterial and antitubercular agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 122, 475-487.	2.6	35
11	Two-Dimensional (2D) In Silico Models for Absorption, Distribution, Metabolism, Excretion and Toxicity (ADME/T) in Drug Discovery. <i>Current Topics in Medicinal Chemistry</i> , 2010, 10, 116-126.	1.0	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. <i>Drug Delivery and Translational Research</i> , 2021, 11, 1056-1083.	3.0	33
13	Highly selective on-off fluorescence recognition of Fe ³⁺ based on a coumarin derivative and its application in live-cell imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 188, 659-665.	2.0	30
14	Inosine 5'-monophosphate dehydrogenase inhibitors as antimicrobial agents: recent progress and future perspectives. <i>Future Medicinal Chemistry</i> , 2015, 7, 1415-1429.	1.1	28
15	Design, synthesis, biological evaluation, molecular docking and QSAR studies of 2,4-dimethylacridones as anticancer agents. <i>European Journal of Medicinal Chemistry</i> , 2017, 130, 154-170.	2.6	26
16	Encapsulation of boswellic acid with β - and hydroxypropyl- β -cyclodextrin: Synthesis, characterization, in-vitro drug release and molecular modelling studies. <i>Journal of Molecular Structure</i> , 2018, 1154, 504-510.	1.8	26
17	Molecular docking prediction and in vitro studies elucidate anti-cancer activity of phytoestrogens. <i>Life Sciences</i> , 2017, 185, 73-84.	2.0	25
18	Hit discovery of Mycobacterium tuberculosis inosine 5'-monophosphate dehydrogenase, GuaB2, inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 1714-1718.	1.0	25

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19	Molecular Insights into Coumarin Analogues as Antimicrobial Agents: Recent Developments in Drug Discovery. <i>Antibiotics</i> , 2022, 11, 566.	1.5	25
20	Novel analogs of sulfasalazine as system x _c ⁺ antiporter inhibitors: Insights from the molecular modeling studies. <i>Drug Development Research</i> , 2019, 80, 758-777.	1.4	23
21	Cancer Stem Cell (CSC) Inhibitors in Oncology—A Promise for a Better Therapeutic Outcome: State of the Art and Future Perspectives. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 15279-15307.	2.9	23
22	Structurally Constrained Hybrid Derivatives Containing Octahydrobenzo[<i>g</i>] or [<i>f</i>]quinoline Moieties for Dopamine D2 and D3 Receptors: Binding Characterization at D2/D3 Receptors and Elucidation of a Pharmacophore Model. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 7806-7819.	2.9	21
23	Carbonic Anhydrase Inhibitors: Design, Synthesis, and Biological Evaluation of Novel Sulfonyl Semicarbazide Derivatives. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 793-796.	1.3	21
24	Investigation of HSA as a biocompatible coating material for arsenic trioxide nanoparticles. <i>Nanoscale</i> , 2018, 10, 8031-8041.	2.8	20
25	Cancer stem cell (CSC) inhibitors: a review of recent patents (2012-2015). <i>Expert Opinion on Therapeutic Patents</i> , 2017, 27, 753-761.	2.4	19
26	Discovery of novel human inosine 5 α -monophosphate dehydrogenase 2 (hIMPDH2) inhibitors as potential anticancer agents. <i>European Journal of Medicinal Chemistry</i> , 2018, 158, 286-301.	2.6	18
27	Attenuation of quorum sensing-regulated behaviour by <i>Tinospora cordifolia</i> extract & identification of its active constituents. <i>Indian Journal of Medical Research</i> , 2016, 144, 92.	0.4	17
28	Discovery of thiazolyl-phthalazinone acetamides as potent glucose uptake activators via high-throughput screening. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5740-5743.	1.0	16
29	Use of combined nanocarrier system based on chitosan nanoparticles and phospholipids complex for improved delivery of ferulic acid. <i>International Journal of Biological Macromolecules</i> , 2021, 171, 288-307.	3.6	16
30	Virtual and experimental high-throughput screening (HTS) in search of novel inosine 5 α -monophosphate dehydrogenase II (IMPDH II) inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , 2012, 26, 1277-1292.	1.3	15
31	Crocetin and related oxygen \rightarrow diffusion-enhancing \leftarrow compounds: Review of chemical synthesis, pharmacology, clinical development, and novel therapeutic applications. <i>Drug Development Research</i> , 2021, 82, 883-895.	1.4	15
32	Computational Drug Repositioning: A Lateral Approach to Traditional Drug Discovery?. <i>Current Topics in Medicinal Chemistry</i> , 2016, 16, 2069-2077.	1.0	15
33	Three-dimensional quantitative structure-activity relationship (3D QSAR) and pharmacophore elucidation of tetrahydropyran derivatives as serotonin and norepinephrine transporter inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , 2008, 22, 1-17.	1.3	14
34	Newer human inosine 5 α -monophosphate dehydrogenase 2 (hIMPDH2) inhibitors as potential anticancer agents. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2018, 33, 972-977.	2.5	14
35	Inhibition of carbonic anhydrase isoforms I, II, IX and XII with Schiff \rightarrow bases incorporating iminoureido moieties. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 901-907.	2.5	13
36	Design, synthesis, and biological evaluation of <i>Helicobacter pylori</i> inosine 5 α -monophosphate dehydrogenase (hIMPDH) inhibitors. <i>Drug Development Research</i> , 2019, 80, 125-132.	1.4	12

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37	An outlook on procedures of conjugating folate to (co)polymers and drugs for effective cancer targeting. <i>Drug Development Research</i> , 2020, 81, 823-836.	1.4	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. <i>ChemMedChem</i> , 2009, 4, 1075-1085.	1.6	10
39	Design, synthesis and biological evaluation of novel inosine 5 α -monophosphate dehydrogenase (IMPDH) inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014, 29, 408-419.	2.5	10
40	Discovery of anti-Ebola drugs: a computational drug repositioning case study. <i>RSC Advances</i> , 2016, 6, 26329-26340.	1.7	10
41	Discovery of tetrahydrocarbazoles as dual pERK and pRb inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2017, 134, 366-378.	2.6	10
42	In vivo pharmacokinetic interaction by ethanolic extract of <i>Gymnema sylvestre</i> with CYP2C9 (Tolbutamide), CYP3A4 (Amlodipine) and CYP1A2 (Phenacetin) in rats. <i>Chemico-Biological Interactions</i> , 2017, 278, 141-151.	1.7	10
43	Targeting Heat Shock Protein 90 for Malaria. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013, 13, 1903-1920.	1.1	10
44	Emerging roles of system antiporter and its inhibition in CNS disorders. <i>Molecular Membrane Biology</i> , 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. <i>Drug Research</i> , 2018, 68, 100-103.	0.7	9
46	Potassium 2-methoxy-4-vinylphenolate: a novel hit exhibiting quorum-sensing inhibition in <i>Pseudomonas aeruginosa</i> via LasIR/RhlIR circuitry. <i>RSC Advances</i> , 2019, 9, 40228-40239.	1.7	9
47	Anxiolytic activity of <i>Psidium guajava</i> in mice subjected to chronic restraint stress and effect on neurotransmitters in brain. <i>Phytotherapy Research</i> , 2021, 35, 1399-1415.	2.8	9
48	A proposed model of <i>Mycobacterium avium</i> complex dihydrofolate reductase and its utility for drug design. Electronic supplementary information (ESI) available: details of the calculations. See http://www.rsc.org/suppdata/ob/b2/b212211a/ . <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 1315-1322.	1.5	8
49	Ligand-Based Virtual Screening using Random Walk Kernel and Empirical Filters. <i>Procedia Computer Science</i> , 2015, 57, 418-427.	1.2	6
50	In search of novel anti-inflammatory agents: Computational repositioning of approved drugs. <i>Journal of Computational Science</i> , 2015, 10, 217-224.	1.5	6
51	Substituted chloroacetamides as potential cancer stem cell inhibitors: Synthesis and biological evaluation. <i>Drug Development Research</i> , 2020, 81, 356-365.	1.4	6
52	Metal Protein Attenuating Compounds (MPACs): An Emerging Approach for the Treatment of Neurodegenerative Disorders. <i>Current Bioactive Compounds</i> , 2008, 4, 57-67.	0.2	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. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 3164-3174.	1.4	5
54	Drugs acting on central nervous system (CNS) targets as leads for non-CNS targets. <i>F1000Research</i> , 2014, 3, 40.	0.8	5

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55	Theoretical investigation of the derivatives of favipiravir (T-705) as potential drugs for Ebola virus. <i>Physical Sciences Reviews</i> , 2018, 3, .	0.8	5
56	Study of degradation behavior of besifloxacin, characterization of its degradation products by LC-ESI-QTOF-MS and their in silico toxicity prediction. <i>Biomedical Chromatography</i> , 2019, 33, e4489.	0.8	5
57	In silico identification of small molecules targeting H-Ras and in vitro cytotoxicity with caspase-mediated apoptosis in carcinoma cells. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 5519-5530.	1.2	5
58	A novel series of substituted 1,2,3-triazoles as cancer stem cell inhibitors: Synthesis and biological evaluation. <i>Drug Development Research</i> , 2021, 82, 68-85.	1.4	5
59	Fluorescent probes for biomedical applications (2009-2014). <i>Pharmaceutical Patent Analyst</i> , 2014, 3, 543-560.	0.4	4
60	Understanding the structural requirements of hybrid (<i>S</i>)-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. <i>MedChemComm</i> , 2014, 5, 1384-1399.	3.5	4
61	Design, synthesis and biological evaluation of Helicobacter pylori inosine 5'-monophosphate dehydrogenase (HplMPDH) inhibitors. Further optimization of selectivity towards HplMPDH over human IMPDH2. <i>Bioorganic Chemistry</i> , 2019, 87, 753-764.	2.0	4
62	Computational Approaches for the Design of (Mutant-)Selective Tyrosine Kinase Inhibitors: State-of-the-Art and Future Prospects. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 1564-1575.	1.0	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. <i>Critical Reviews in Analytical Chemistry</i> , 2022, 52, 1583-1592.	1.8	3
65	Egg White Protein Carrier-Assisted Development of Solid Dispersion for Improved Aqueous Solubility and Permeability of Poorly Water Soluble Hydrochlorothiazide. <i>AAPS PharmSciTech</i> , 2021, 22, 94.	1.5	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. <i>Physical Sciences Reviews</i> , 2019, 4, .	0.8	2
68	Greener approach for process intensification of iron haematinics by membrane nanofiltration. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100510.	1.3	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. <i>Mini-Reviews in Organic Chemistry</i> , 2021, 18, 885-901.	0.6	0