

Sonali S Bharate

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,434
citations

236612

25
h-index

344852

36
g-index

51
all docs

51
docs citations

51
times ranked

1783
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-enzymatic browning in citrus juice: chemical markers, their detection and ways to improve product quality. <i>Journal of Food Science and Technology</i> , 2014, 51, 2271-2288.	1.4	101
2	Modulation of Thermoreceptor TRPM8 by Cooling Compounds. <i>ACS Chemical Neuroscience</i> , 2012, 3, 248-267.	1.7	81
3	Critical Analysis of Drug Product Recalls due to Nitrosamine Impurities. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 2923-2936.	2.9	78
4	Why Are the Majority of Active Compounds in the CNS Domain Natural Products? A Critical Analysis. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 10345-10374.	2.9	67
5	Discovery of a marine-derived bis-indole alkaloid fascalysin, as a new class of potent P-glycoprotein inducer and establishment of its structure-activity relationship. <i>European Journal of Medicinal Chemistry</i> , 2016, 107, 1-11.	2.6	66
6	<i>Crocus sativus</i> Extract Tightens the Blood-Brain Barrier, Reduces Amyloid β Load and Related Toxicity in 5XFAD Mice. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1756-1766.	1.7	66
7	Crocetin promotes clearance of amyloid- β by inducing autophagy via the STK11/LKB1-mediated AMPK pathway. <i>Autophagy</i> , 2021, 17, 3813-3832.	4.3	62
8	Recent developments in pharmaceutical salts: FDA approvals from 2015 to 2019. <i>Drug Discovery Today</i> , 2021, 26, 384-398.	3.2	55
9	Determining Partition Coefficient (Log P), Distribution Coefficient (Log D) and Ionization Constant (pKa) in Early Drug Discovery. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2016, 19, 461-469.	0.6	48
10	Discovery and characterization of novel CYP1B1 inhibitors based on heterocyclic chalcones: Overcoming cisplatin resistance in CYP1B1-overexpressing lines. <i>European Journal of Medicinal Chemistry</i> , 2017, 129, 159-174.	2.6	41
11	Pyrano-isochromanones as IL-6 Inhibitors: Synthesis, in Vitro and in Vivo Antiarthritic Activity. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 7085-7097.	2.9	39
12	6-Aryl substituted 4-(4-cyanomethyl) phenylamino quinazolines as a new class of isoform-selective PI3K-alpha inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2016, 122, 731-743.	2.6	39
13	Design of Novel 3-Pyrimidinylazaindole CDK2/9 Inhibitors with Potent In Vitro and In Vivo Antitumor Efficacy in a Triple-Negative Breast Cancer Model. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 9470-9489.	2.9	39
14	Discovery and Preclinical Development of IIM-290, an Orally Active Potent Cyclin-Dependent Kinase Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1664-1687.	2.9	39
15	Analysis of clinical trials on biomaterial and therapeutic applications of chitosan: A review. <i>Carbohydrate Polymers</i> , 2022, 278, 118999.	5.1	39
16	Impact of preformulation on drug development. <i>Expert Opinion on Drug Delivery</i> , 2013, 10, 1239-1257.	2.4	37
17	Thermodynamic equilibrium solubility measurements in simulated fluids by 96-well plate method in early drug discovery. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1561-1567.	1.0	34
18	Nitrofuranyl Methyl Piperazines as New Anti-TB Agents: Identification, Validation, Medicinal Chemistry, and PK Studies. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 1041-1046.	1.3	33

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19	Biphenyl-4-carboxylic Acid [2-(1 <i>H</i> -Indol-3-yl)-ethyl]-methylamide (CA224), a Nonplanar Analogue of Fascaplysin, Inhibits Cdk4 and Tubulin Polymerization: Evaluation of in Vitro and in Vivo Anticancer Activity. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 9658-9672.	2.9	32
20	Anti-inflammatory chromone alkaloids and glycoside from <i>Dysoxylum binectariferum</i> . <i>Tetrahedron Letters</i> , 2017, 58, 3974-3978.	0.7	32
21	A chromatography-free isolation of rohitukine from leaves of <i>Dysoxylum binectariferum</i> : Evaluation for in vitro cytotoxicity, Cdk inhibition and physicochemical properties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 3457-3463.	1.0	31
22	Colchicine derivatives with potent anticancer activity and reduced P-glycoprotein induction liability. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 5674-5689.	1.5	30
23	Synthesis and anti-proliferative activities of new derivatives of embelin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 4865-4870.	1.0	28
24	Preclinical Development of <i>Crocus sativus</i> -Based Botanical Lead IIM-141 for Alzheimer's Disease: Chemical Standardization, Efficacy, Formulation Development, Pharmacokinetics, and Safety Pharmacology. <i>ACS Omega</i> , 2018, 3, 9572-9585.	1.6	26
25	Synthesis, pH dependent, plasma and enzymatic stability of bergenin prodrugs for potential use against rheumatoid arthritis. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5513-5521.	1.4	25
26	Binary and ternary solid dispersions of an anticancer preclinical lead, IIM-290: In vitro and in vivo studies. <i>International Journal of Pharmaceutics</i> , 2019, 570, 118683.	2.6	25
27	Chemical analysis of saffron by HPLC based crocetin estimation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 181, 113094.	1.4	25
28	Discovery of 7-(Prolinol-N-yl)-2-phenylamino-thiazolo[5,4-d]pyrimidines as Novel Non-Nucleoside Partial Agonists for the A2A Adenosine Receptor: Prediction from Molecular Modeling. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 5922-5928.	2.9	23
29	Modulating lipophilicity of rohitukine via prodrug approach: Preparation, characterization, and in vitro enzymatic hydrolysis in biorelevant media. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 92, 203-211.	1.9	19
30	Carboxylic Acid Counterions in FDA-Approved Pharmaceutical Salts. <i>Pharmaceutical Research</i> , 2021, 38, 1307-1326.	1.7	17
31	Quantitative Determination and Characterization of a Kashmir Saffron (<i>Crocus sativus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 and HPTLC Investigations. <i>ACS Omega</i> , 2021, 6, 23460-23474.	1.6	15
32	Synthesis and Biological Evaluation of Polar Functionalities Containing Nitroimidazooxazoles as Anti-TB Agents. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 1059-1064.	1.3	12
33	Selection of a Water-Soluble Salt Form of a Preclinical Candidate, IIM-290: Multiwell-Plate Salt Screening and Characterization. <i>ACS Omega</i> , 2018, 3, 8365-8377.	1.6	12
34	Modulation of biopharmaceutical properties of acidic drugs using cationic counterions: A critical analysis of FDA-approved pharmaceutical salts. <i>International Journal of Pharmaceutics</i> , 2021, 607, 120993.	2.6	12
35	Antidiabetic potential of polyherbal formulation DB14201: Preclinical development, safety and efficacy studies. <i>Journal of Ethnopharmacology</i> , 2017, 197, 218-230.	2.0	11
36	Orally Effective Aminoalkyl 10 <i>H</i> -indolo[3,2- <i>b</i>]quinoline-11-carboxamide Kills the Malaria Parasite by Inhibiting Host Hemoglobin Uptake. <i>ChemMedChem</i> , 2018, 13, 2581-2598.	1.6	11

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37	Discovery and preclinical development of IIM-160, a <i>Bergenia ciliata</i> -based anti-inflammatory and anti-arthritis botanical drug candidate. <i>Journal of Integrative Medicine</i> , 2019, 17, 192-204.	1.4	11
38	Recent developments in the management of Huntington's disease. <i>Bioorganic Chemistry</i> , 2022, 120, 105642.	2.0	11
39	Phosphate moiety in FDA-approved pharmaceutical salts and prodrugs. <i>Drug Development Research</i> , 2022, 83, 1059-1074.	1.4	10
40	Enhancing Biopharmaceutical Attributes of Khellin by Amorphous Binary Solid Dispersions. <i>AAPS PharmSciTech</i> , 2021, 22, 260.	1.5	8
41	Trifluoroacetic acid catalyzed thiophenylmethylation and thioalkylmethylation of lactams and phenols via domino three-component reaction in water. <i>RSC Advances</i> , 2014, 4, 14081-14088.	1.7	6
42	Design, synthesis and P-gp induction activity of aryl phosphonate esters: identification of tetraethyl-2-phenylethene-1,1-diylidiphosphonate as an orally bioavailable P-gp inducer. <i>MedChemComm</i> , 2016, 7, 1910-1915.	3.5	6
43	Impurity profiling of anticancer preclinical candidate, IIM-290. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 166, 1-5.	1.4	6
44	Evaluation of rohitukine-enriched fraction of <i>Dysoxylum binectariferum</i> Hook.f. (leaves) as anti-arthritis phytopharmaceutical candidate: Chemical standardization, in-vivo validation, formulation development and oral pharmacokinetics. <i>Journal of Ethnopharmacology</i> , 2020, 254, 112758.	2.0	6
45	Identification of plant-based multitargeted leads for Alzheimer's disease: In-vitro and in-vivo validation of <i>Woodfordia fruticosa</i> (L.) Kurz. <i>Phytomedicine</i> , 2021, 91, 153659.	2.3	6
46	Engineering solid dispersions of anticancer preclinical lead, IIM-985: Physicochemical characterization and in vivo pharmacokinetics. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 49, 594-602.	1.4	5
47	Thermodynamic solubility determination of khellin in eight mono-solvents at the range of 298.15 to 323.15 K. <i>Journal of Molecular Liquids</i> , 2022, 351, 118637.	2.3	5
48	Modulation of biopharmaceutical properties of drugs using sulfonate counterions: A critical analysis of FDA-approved pharmaceutical salts. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 66, 102913.	1.4	4
49	Analytical Methods for Furanochromone Natural Product, Khellin and Its Inspired Drug Candidates, Amiodarone and Sodium Cromoglycate. <i>Critical Reviews in Analytical Chemistry</i> , 0, , 1-16.	1.8	0