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Patents

Sr. No	Title	Applicants	Application No.
1	Process for Isolation, Characterization and Evaluation of Natural Polymer from Adansonia Digitata Fruit	Mr. V. S. Bagul Dr. A. U. Tatiya Dr. S. J. Surana Dr. S. S. Chalikwar Dr. S. D. Firke	202121018699
2			
3			

Research Publications 2021

Sr. No.	Name(s) of Author(s)	Title	Journal, vol. Year, page no.	IF	Page no.
1.	M. R. Patil, S. B. Ganorkar, A. S. Patil, A. A. Shirkhedkar, S. J. Surana	A Converged Pharmaceutical Analysis Supported with Hydrotropy & DoE with dual HPTLC and Stress Studies for Estimation of Tolvaptan	Microchemical Journal, 2021	4.821	
2.	V. Ugale, A. Dhote, R. Narwade, S. Khadse, A. Shirkhedkar	GluN2B/N-methyl-D-aspartate receptor antagonists: Advances in design, synthesis, and pharmacological evaluation studies	CNS & Neurological Disorders - Drug Targets DOI: 10.2174/1871527320666210309141627	4.388	
3.	P. C. Sharma, D. Sharma, A. Sharma, N. Saini, R. Goyal, M. Ola, R. Chawla, V.K. Thakur	Hydrazone Comprising compounds as promising anti-infective agents: chemistry and structure-property relationship	Materials Today Chemistry, 2021	8.301	
4.	S. R. Chaudhari, A. A. Shirkhedkar	Exploration of 1, 2-naphthoquinone-4-sulfonate derivatizing reagent for determination of chlorthalidone in tablets: a spectrophotometric investigation	Future Journal of Pharmaceutical Sciences, Vol. 7(27), 2021, pp. 1-9	-	
5.	D. Bagal, A. Nagar, A. Joshi,	Development and validation of stabilityindicating RP-HPLC method for estimation	Future Journal of Pharmaceutical Sciences, Vol.	-	

	A. Chachare, A. Shirkhedkar, S. Khadse	of dalfampridine in bulk drug and tablet dosage form	7(87), 2021, pp. 1-7		
6.	V. Malathi, S. Shivani, K Bhaskar, V.G. Ugale, P. N.Reddy	One-pot, catalyst-free synthesis of novel dihydropyrano[2,3- e]indole derivatives	Chemical Data Collections, Vol. 33, 2021 , pp. 100693	-	
7.	C. Divyavani, P. Padmaja, V. G. Ugale, P. N. Reddy	A Review on Thiocyanation of Indoles	Current Organic Synthesis, Vol. 18, 2021 , pp. 1-15	1.975	
8.	A. P. Sarkate, V. S. Dofe, S. V. Tiwari, D. K. Lokwani	One pot synthesis, in silico study and evaluation of some novel flavonoids as potent topoisomerase II inhibitors	Bioorganic & Medicinal Chemistry Letters, Vol. 40, 2021, pp.127916	2.823	
9.	S. D. Firke, A. M. Dhote, R. R. Patil, A. A. Shirkhedkar, S. J. Surana	Natural Antidiabetic Agents: Molecular Docking Study using the Extra Precision Method	Letters in Drug Design & Discovery, Vol.18, 2021, pp. 143-171	1.15	
10.	U. B. Mahajan, S. J. Surana, C. R. Patil, K. R. Patil	Aloin attenuates chronic constriction injury-induced neuropathic pain in rats by inhibiting inflammatory cytokines and oxidative stress	Asian Pacific Journal of Tropical Biomedicine, 2021, Vol. 11(5), pp. 205- 213	1.545	
11.	S. A. Borse, A. P. Gorle, K. Patil	Prefilled syringe: a review of injectable dosage form delivery system	International Journal of Pharma Sciences and Research, 2020, Vol. 11(6), pp. 167- 174	-	
12.	J. P. Ambhore, S. R. Chaudhari, R. S. Cheke, P. S. Kharkar	A Concise Analytical Profile of Efavirenz: Analytical Methodologies	Critical Reviews in Analytical Chemistry https://doi.org/10.1080/10408347.2021.1895711	6.535	
13.	V. S. Adhao, S. R. Chaudhari, J. P. Ambhore, R. S. Cheke, A. S. Patil	Reverse phase-liquid chromatography assisted protocol for simultaneous determination of lamivudine and tenofovir disoproxil fumarate in combined medication used to control HIV infection: an investigative approach	Future Journal of Pharmaceutical Sciences, 2021, Vol. 7(90), pp. 1-11	-	
14.	G. B Shevalkar, K. D Mali, V. P Sonar	Stability Indicating High- Performance Liquid Chromatography (HPLC) Method for Quantification of Ezetimibe:	Inventi Rapid: Pharm Analysis & Quality Assurance, 2021 , Vol. 2021(1), pp. 1-8	-	

		Development and Validation			
15.	I. Ahmad, H. Jadhav, Y. Shinde, V. Jagtap, R. Girase, H. Patel	Optimizing Bedaquiline for cardiotoxicity by structure based virtual screening, DFT analysis and molecular dynamic simulation studies to identify selective MDR-TB inhibitors	In Silico Pharmacology, DOI: https://doi.org/10.1007/s40203-021-00086-x	-	
16.	U.V. Deore, H.S. Mahajan	Isolation and structural characterization of mucilaginous polysaccharides obtained from the seeds of Cassia uniflora for industrial application	Food Chemistry, 2021 , Vol. 351, pp. 129262	7.514	
17.	A. V. Patil, H. S. Mahajan	Modified pea starch based ocular films of azelastine hydrochloride: Development and characterization	Carbohydrate Polymer Technologies and Applications, 2021, Vol. 2, pp. 100078	-	
18.	S. Pardeshi, M. More, P. Patil, C. Pardeshi, P. Deshmukh	A Tapentadol overview on drying-based (spray-, freeze-, and spray-freeze) particle engineering approaches for pharmaceutical technologies	Drying Technology https://doi.org/10.1080/07373937.2021.1893330	4.452	
19.	M. P. More, S. R. Pardeshi, C. V. Pardeshi, G. A. Sonawane	Recent advances in phytochemical-based Nano-formulation for drug-resistant Cancer	Medicine in Drug Discovery, 2021, Vol. 10, pp. 100082	-	
20.	P. Bhosale, M. Ola, R. Bhaskar, A. Devshette, A. Surushe	A Review on Concept of Herbal Vs Synthetic Supplements	International Journal of Science and Research, 2021 , Vol. 10(5), pp. 152-157	-	
21.	N. Patil, R. Bhaskar, V. Vyavhare, R. Dhadge, V. Khaire, Y. Patil	Overview on Methods of Synthesis of Nanoparticles	International Journal of Current Pharmaceutical Research, 2021 , Vol. 13(2), pp. 11-16	-	
22.	S. Raysing, M. Patil, A. Patil	Analytical Method Development and Validation: A Concise Review	International Journal of Pharmacy and Biological Sciences, 2021 , Vol. 11 (1), pp. 09-16	-	
23.	S.D. Raysing, V. A. Manore	Development of Nano-structured Lipid Carriers Loaded with Corosolic Acid: An Efficient Carrier for Anti-diabetic Effects	International Journal of PharmaO2, 2021 , Vol.3(2), pp. 80-84		
24.	C. More, H. Chaudhari,	Investigation of Obstructive and Restrictive Lung Distress in The	World Journal Of Pharmacy And	-	

	H. Wagh, S. Patil	Patients Suffering from Sickle Cell Disease	Pharmaceutical Sciences, 2021, Vol. 10(4), pp. 1209-1218		
25.	P. Kakuste, H. Chaudhari, H. Wagh, S. Patil	Investigation of The Hazards Concerning Vitamin D Inadequacy: Follow Up Study	World Journal of Pharmacy and Pharmaceutical Sciences, 2021, Vol. 10(5), pp. 1035-1253	-	
26.	K. K. Moravkar, S. D. Korde, B. A. Bhairav, S. B. Shinde, S. V. Kakulade, S. S. Chalikwar	Traditional and Advanced Flow Characterization Techniques: A Platform Review for Development of Solid Dosage Form	Indian Journal of Pharmaceutical Sciences, 2020, Vol. 82(6), pp. 945-957	0.975	
27.	V.C. Gurumukhi, S.B. Bari	Quantification and Validation of Stability-Indicating RP-HPLC Method for Efavirenz in Bulk and Tablet Dosage Form using Quality by Design (QbD): A Shifting Paradigm	Journal of Chromatographic Science, 2021, pp. 1–14 doi: 10.1093/chromsci/bmab061	1.618	
28.	K. K. Moravkar, S. D. Korde, B. A. Bhairav, S. B. Shinde, S. V. Kakulade, S. S. Chalikwar	Traditional and Advanced Flow Characterization Techniques: A Platform Review for Development of Solid Dosage Form	Indian Journal of Pharmaceutical Sciences, 2020, Vol. 82(6), pp. 945-957	0.975	
29.	A.V. Patil, H. S. Mahajan	Modified Pea Starch based Ocular Films of Azelastine hydrochloride: Development and Characterization	Carbohydrate Polymer Technologies and Applications, 2021, Vol. 2 pp. 100078	-	
30.	M. Rudrapal, A. R. Issahaku, C. Agoni, A. R. Bendale, A. Nagar, D. Lokwani	In silico screening of phytopolyphenolics for the identification of bioactive compounds as novel protease inhibitors effective against SARS-CoV-2	Journal of Biomolecular Structure and Dynamics, 2021 https://doi.org/10.1080/07391102.2021.1944909	3.310	
31.	A.M. Dhote, V.R. Patil, D.K. Lokwani, V.G. Ugale, S.C. Khadse	Strategic analyses to identify key structural features of antiviral/antimalarial compounds for their binding interactions with 3CLpro, PLpro and RdRp of SARS-CoV-2: in silico molecular docking and dynamic simulation studies	Journal of Biomolecular Structure and Dynamics https://doi.org/10.1080/07391102.2021.1965912	3.310	
32.	V. R. Jagatap, I. Ahmad, H. M. Patel	Recent updates in natural terpenoids as potential anti-mycobacterial agents	Indian Journal of Tuberculosis, https://doi.org/10.16/j.ijtb.2021.07.006	-	

33.	Md. M. G. Khan, S. D. Firke, M. G Kalaskar, A. A. Shirkhedkar	Development and validation of pimavanserin tartrate by normal phase- HPTLC method	International Journal of Pharmaceutical Chemistry and Analysis 2021;8(2):75–78	-	
34.	R. A. Kardile, A. P. Sarkate, A. S. Borude, R. S. Mane, D. K. Lokwani, S. V. Tiwari, R Azad	Design and synthesis of novel conformationally constrained 7,12-dihydrodibenzo[b,h][1,6] naphthyridine and 7H-Chromeno[3,2-c] quinoline derivatives as topoisomerase I inhibitors: In vitro screening, molecular docking and ADME predictions	Bioorganic Chemistry, 2021, Vol. 115, pp. 105174	5.275	
35.	K. Danao, Y. Kodape, D. Mahapatra, S. Borikar, N. Karande	Highlights on Synthetic, Natural, and Hybrid Cholinesterase Inhibitors for Effective Treatment of Alzheimer's Disease: A Review	International Journal of Current Research and Review DOI: http://dx.doi.org/10.31782/IJCRR.2021.131107	-	
36.	R. Pawara, I. Ahmad, S. Surana, C. N. Kundu, C. Patil, H. Patel	Novel, selective acrylamide linked quinazolines for the treatment of double mutant EGFR-L858R/T790M Non-Small-Cell lung cancer (NSCLC)	Bioorganic Chemistry, 2021, Vol. 115, pp. 105234	5.275	
37.	G. Gurunani, K. Agrawal, S. Walde, A. Itadwar	Synthesis and in vitro Antibacterial, Antitubercular and Cytotoxicity Evaluation of Lomefloxacin Derivatives	International Journal of Current Research and Review, 2021	-	
38.	M. G. Kalaskar, V. S. Bagul, S. D. Firke, Md. M. G. Khan, K. M. Agrawal, S. J. Surana	Isolation and Evaluation of Tamarind Seed Coat Mucilage as Pharmaceutical Suspending Agent	Journal of University of Shanghai for Science and Technology, 2021, Vol. 23(7), pp. 293-300	-	
39.	G. Gurunani, K. Agrawal, S. Walde, A. Itadwar	Synthesis and Investigation of Antibacterial, Antimycobacterial Activity and Cytotoxicity Study of Sparfloxacin Derivatives	International Journal of Pharmaceutical Research, 2021, Vol. 13(2), pp. 3944-3952	-	
40.	S. S. Chopade, A. P. Gorle	Quality-by-Design based Formulation and in-vitro Evaluation of Liquisolid compacts of Axitinib	International Journal of PharmTech Research, 2021, Vol. 14(1), pp. 133-155.	-	
41.	A. P Mungal, A. P Gorle, S. K Patil	Formulation Development Approaches of Sustained-Release Nanoparticles: Application in Drug Delivery	IJPPR.Human, 2021 Vol.21(2), pp. 227-237	-	

		System			
42.	T. Pawar, A. P. Gorle, M. Umbarkar, P. Chavan	Review on Regulatory Requirements for Approval of Biologics	IJPPR.Human, 2021 Vol.21(3), pp. 174-193	-	
43.	A. Gorale, S. Bagal	A Systemic Review on Method of Preparation and Characterization of Amorphous Solid Dispersions	IJPPR.Human, 2021 Vol.21(3), pp. 205-226	-	
44.	A. K. Pawar, L G. Hatmode, V. C. Gurumukhi, S. S. Chalikwar	Solid lipid nanoparticles: Influence of composition, fabrication methods and problems, in vitro drug release and intranasal administration provide to access olfactory bulb pathway for SLNs	GSC Biological and Pharmaceutical Sciences, 2021, Vol. 14(02), pp. 126–142	-	
45.	N. Dawange, V. Gurumukhi, A. Khele	A Review of the Effectiveness and Efficacy for Depression	European Journal of Pharmaceutical and Medical Research, 2021, Vol 8(7), pp. 1-6	-	
46.	V. C. Gurumukhi, S. B. Bari	Quality by design (QbD)–based fabrication of atazanavir-loaded nanostructured lipid carriers for lymph targeting: bioavailability enhancement using chylomicron flow block model and toxicity studies	Drug Delivery and Translational Research https://doi.org/10.1007/s13346-021-01014-4	4.617	
47.	M. D. Pawara, A. S. Patil, M. S. Ghodke	Application of Hydrotropic Solubilization Phenomenon for Estimation of Fenticonazole in Bulk and Vaginal capsules using UV-spectrophotometry Methods	Asian Journal of Pharmaceutical Analysis, 2021, Vol. 11(2), pp. 1-6	-	
48.	M. D. Pawara, S. Pardeshi, A. R. Gaware, A. S. Patil, M. V. Girase	Development of novel HPTLC method for determination of imidazole antifungal drug fenticonazole: Exploring hydrotropy	International Journal of Pharmaceutical Chemistry and Analysis, 2021, Vol. 8(2), pp.79–83	-	
49.	V. P. Sonar, P. V. Dalvi, S. S. Chalikwar	Progress and Development in Treatment of Covid – 19, and Vaccine development: A Review	American Journal of PharmTech Research, 2021, Vol. 11(4), pp. 42-59	-	
50.	H. M. Patel, I. Ahmad, R. Pawara, M. Shaikh, S. Surana	In silico search of triple mutant T790M/C797S allosteric inhibitors to conquer acquired resistance problem in non-small cell lung cancer (NSCLC): a combined approach of structure based virtual screening and molecular dynamics simulation	Journal of Biomolecular Structure and Dynamics, 2021, Vol. 39(4), pp. 1491–1505	3.310	

51.	M. G. Kalaskar, R. E. Mutha, A. U. Tatiya, S. D. Firke, S. J. Surana,	Purification and modification of neem gum for enhancement of its suspending property	Future Journal of Pharmaceutical Sciences, 2021, Vol. 7(114), pp. 1-8	-	
52.	H. M. Patel, M. Shaikh, I. Ahmad , D. Lokwani, S. J. Surana	BREED based de novo hybridization approach: generating novel T790M/C797SEGFR tyrosine kinase inhibitors to overcome the problem of mutation and resistance in non small cell lung cancer (NSCLC)	Journal Of Biomolecular Structure and Dynamics 2021, Vol. 39(8), pp. 2838–2856	3.310	
53.	I. Ahmad, D. Kumar, H. Patel	Computational investigation of phytochemicals from Withania somnifera (Indian ginseng/ ashwagandha) as plausible inhibitors of GluN2Bcontaining NMDA receptors	Journal of Biomolecular Structure and Dynamics, 2021, https://doi.org/10.1080/07391102.2021.1905553	3.310	
54.	R. D. Rathod, L. D. Rathod, A. B. Mundada, H. M. Patel	Validated UV Spectrophotometric Methods for the Determination of Anticancer Drug Erlotinib Hydrochloride in Bulk and Tablet Formulations	Journal of Applied Spectroscopy, 2021, Vol. 88(4), pp. 657-661	0.741	
55.	R. Goyala, A. Sharma, V. K. Thakur, M. Ola, P. C. Sharma	Green chemistry approaches towards the design and synthesis of anti-infective fluoroquinolone derivatives	Current Research in Green and Sustainable Chemistry, 2021		
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**Summary of Number of Research Publications with their Impact Factors
[2011- 2021]**

Year	No of Publications	Cumulative Number of Publications	Total Impact factor	Cumulative Impact factor
2021	53	767	70.488	703.54
2020	85	714	128.73	633.06
2019	66	629	59.90	504.33
2018	65	563	49.82	444.43
2017	63	498	65.79	394.61
2016	62	435	77.81	328.82
2015	70	373	58.92	251.01
2014	56	303	41.82	192.09
2013	80	247	37.09	150.27
2012	84	167	72.81	113.18
2011	83	83	40.37	40.37

Number of Publications (2011- 2021)

Year	No of Publications	Cumulative Number of Publications
2021	29	743
2020	85	714
2019	66	629
2018	65	563
2017	63	498
2016	62	435
2015	70	373
2014	56	303

2013	80	247
2012	84	167
2011	83	83

Impact factor on Research Papers Published (2011-2021)

Year	Total Impact factor	Cumulative Impact factor
2021	38.77	671.83
2020	128.73	633.06
2019	59.90	504.33
2018	49.82	444.43
2017	65.79	394.61
2016	77.81	328.82
2015	58.92	251.01
2014	41.82	192.09
2013	37.09	150.27
2012	72.81	113.18
2011	40.37	40.37

