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Patents

Sr. No	Title	Applicants	Application No.
1	4-Amino-2-oxy disubstituted Pyrimidine Derivatives, A Process and Uses thereof	H.M. Patel R.H. Pawara C.R. Patil S.J. Surana	201821027707
2	2,4-diamino substituted and 4-amino, 2-oxy disubstituted Pyrimidine Derivatives, A Process and Uses thereof	H.M. Patel R.H. Pawara C.R. Patil S.J. Surana	201821027708
3	Acrylamide bearing Quinazoline-4(3H)-one Derivatives A Process and Uses thereof	H.M. Patel R.H. Pawara C.R. Patil S.J. Surana	201821027709

Research Publications

Sr. No.	Name(s) of Author(s)	Title	Journal, vol. Year, page no.	IF	Page no.
1.	S. B. Ganorkar, Y. V. Heyden, A.A. Shirkhedkar, D. K. Lokwani, D. M. Dhumal, P. S. Bobade	Pharmaceutical Analysis Combined with <i>In-Silico</i> Therapeutic and Toxicological Profiling on Zileuton and its Impurities to Assist in Modern Drug Discovery	Journal of Pharmaceutical and Biomedical Analysis, 2019 Article in press	2.983	1
2.	J. P. Gokhale, H. S. Mahajan, S. J. Surana	Quercetin Loaded Nanoemulsion-based Gel for Rheumatoid Arthritis: <i>In vivo</i> and <i>In vitro</i> Studies	Biomedicine & Pharmacotherapy, 2019 , Vol. 112, pp. 108622	3.743	7
3.	A. S. Patil, A. D. Singh, U. B. Mahajan, C. R. Patil, S. N. Goyal	Protective effect of omeprazole and lansoprazole on β -receptor stimulated myocardial infarction in Wistar rats	Molecular and Cellular Biochemistry, 2019 Published online, https://doi.org/10.1007/s11010-019-03494-y	2.884	13
4.	P.V. Dangre, R. D. Phad, S. J. Surana, S. S. Chalikwar	Quality by Design (QbD) Assisted Fabrication of Fast Dissolving Buccal Film for Clonidine Hydrochloride: Exploring the Quality Attributes	Advances in Polymer Technology Volume 2019 , Article ID 3682402, https://doi.org/10.1155/2019/3682402	2.663	18
5.	S. S. Patil, U. B. Mahajan, S. N. Goyal, S. Belemkar, C. R. Patil	Homoeopathic drug dilutions of <i>Thuja occidentalis</i> attenuate complete Freund's adjuvant-induced arthritis in Wistar rats	Indian Journal of Research in Homoeopathy, 2018 , Vol.12, pp. 202-11.	-	25

6.	V. P. Sonar, B. Fois, S. Distinto, E. Maccioni, D. Colombo	Ferulic Acid Esters and Withanolides: In Search of Withaniasomnifera GABA _A Receptor Modulators	Journal of Natural Products, 2019 , Vol. 82, pp. 1250–1257	4.257	30
7.	S. M. Espinoza, H. I. Patil, E. S.M. Martinez, R. C. Pimentel, P. P. Ige	Poly-ε-caprolactone (PCL), a promising polymer for pharmaceutical and biomedical applications: Focus on nanomedicine in cancer	International Journal of Polymeric Materials and Polymeric Biomaterials, 2019 , https://doi.org/10.1080/00914037.2018.1539990	2.263	34
8.	K.A. Wadile, P.P. Ige, R.O. Sonawane	Preparation of Itraconazole Nanoparticles and its Topical Nanogel: Physicochemical Properties and Stability Studies	International Journal of Pharmaceutical Science and Developmental Research, 2019 , Vol. 5(1), pp. 1-8	-	56
9.	D. S. Bodas, P.P. Ige	Central Composite Rotatable Design for Optimization of Budesonide-Loaded Crosslinked Chitosan–dextran sulfate Nanodispersion: Characterization, <i>in vitro</i> Diffusion and Aerodynamic study	Drug Development and Industrial Pharmacy, 2019 , Vol. 45(7), pp. 1193-1204	2.295	60
10.	K. D. Mali, H. S. Raotole, K. P. Rathod, A. A. Shukla	Formulation and Evaluation of Herbal Lip Rouge	International Journal of Pharmaceutical Sciences Review and Research, 2019 , Vol. 55(1), pp. 13-17	-	67
11.	Y.O. Agrawal, D. C. Waghe, V. V. Agnihotri, H.S. Mahajan	Analytical Method Development and Validation of Olmesartan Medoxomil by Chromatographic and Spectrophotometric Techniques	The Pharma Review, 2019 , pp. 101-106	-	70
12.	R. Bhaskar, M. Ola, R. Patel, S.S. Chalikwar	Cyclodextrin in Drug Delivery Application: A Review	Journal of Drug Discovery and Therapeutics, 2019 , 7(4), pp. 01-10	-	73
13.	P.S. Jain S, V. A. Patil, C. T. Pawara, S.J. Surana	Nicardipine: Concise Review on Analytical Techniques	Archives of Nanomedicine, 2019 , Vol. 1(5), pp. 114-129	-	78
14.	P. S Jain, J. B Salunke, A.A. Navghare, S. J. Surana	Gatifloxacin: A Comprehensive Review on Analytical Method	Acta Scientific Pharmaceutical Sciences, 2019 , Vol. 3(6), pp. 13-27	-	86

15.	S. Shah, R. Bodhe, A.Gorle	Formulation Development of Porous Mannitol carrier: Improving the dissolution of poorly soluble drugs	Journal of Drug Delivery & Therapeutics, 2019 , Vol. 9(6) , pp. 143-154	-	94
16.	R. Bodhe, R. Deshmukh, A.Gorale, R. Shinde, P. Bodhe	Formulation, Development and Evaluation of Carbamazepine Extended Release Tablet: Dissolution Apparatus USP IV	World Journal of Pharmaceutical Research, 2019 , Vol. 8(9), pp. 1484-1504	-	100
17.	P. G. Jain, P. G. Nayse, D. J. Patil, S. J. Surana	A Comprehensive Review on Plant derived Natural products for Diabetes and its complication as nephropathy	Journal of Drug Delivery & Therapeutics, 2019 , Vol. 9(2S), pp. 625-633	-	111
18.	V. Badjuar, P.Nerkar, P.Ige, H. Mahajan, S. Ansari	Development and Validation of Stability-indicating Reverse Phase HPLC Assay for Tramadol in Bulk and Tablet Formulations	International Journal of Pharmaceutical Sciences and Nanotechnology, 2019 , Vol. 12(3), pp. 4557-4564	-	116
19.	H. Mahajan, S. Savale, P. Nerkar	Simultaneous Estimation of Curcumin and Gefitinib in Bulk and Tissue samples (Plasma and Brain homogenate) by RP-HPLC: Application to a Distribution Study	Indian Drugs, 2019 , Vol. 56(7), pp. 59-67	-	120
20.	P. Wadhwa, P. Jain, A. Patel, S. Shinde, H. R. Jadhav	Synthesis and Evaluation of 3-(1,3-dioxoisindolin-2-yl)-N-substituted Phenyl Benzamide Analogues as HIV Integrase Strand Transfer Inhibitors	Anti-Infective Agents, 2019 , Vol. 17, pp. 105-114	-	125
21.	P. Wadhwa, P. Jain, H.R. Jadhav, S.Rudrawar	4-Substituted Benzylideneisoquinoline-1,3(2H, 4H)-dione Derivatives: Synthesis and Biological Evaluation as Potential HIV-1 Integrase Inhibitors	Der Pharmacia Lettre, 2018 , Vol. 10 (7), pp. 18-31	-	130
22.	A. B. Tayade, A. S. Patil, P. Jain, S. J. Surana, A. A. Shirkhedkar	Inclusive Review on Analytical and Bioanalytical Profile of Nifedipine	Asian Journal of Pharmaceutical Analysis, 2019 , Vol. 9(3), pp. 177-190	-	137
23.	Md. F. Deshmukh S. Firke, Md. M.G. Khan, A. Shirkhedkar, S. Surana	Development and Validation of New HighPerformance Thin Layer Chromatography Method for Determination of Aripiprazole in Bulk and Tablet Formulation	Analytical Chemistry Letters, 2019 , Vol. 9(2), pp248 – 257	-	144
24.	Md. M.G. Khan, P. I. Pawara,	Development and Validation of Zero and First-Order Derivative	Asian Journal of Research Chemistry,	-	150

	P. J. Chaudhari, A.A. Shirkhedkar	Area under Curve Spectrophotometric Methods for the Determination of Pirfenidone in Bulk Material and Pharmaceutical Formulation	2019, Vol. 12(3), pp. 129-135		
25.	Md. M.G. Khan, A.A. Shirkhedkar, S. J. Surana	Development of a Novel Separation Technique by High Performance Liquid Chromatography for the Determination of Bivalirudin	Journal of Analytical Chemistry, 2019, Vol. 74(10), pp. 1035–1038.	0.894	154
26.	S. R. Marathe, A. S. Patil, S. B. Ganorkar, S. Chaudhari, A.A. Shirkhedkar	A Brief Review on Analytical Methods for Estimation of Isradipine in Pharmaceutical Formulation and Biological Matrices	Journal of Chilean Chemical Society, 2019, Vol. 64(3), pp. 4565-4570	0.463	156
27.	A. B Tayade, A. S Patil, A. A Shirkhedkar	Development and Validation of Zero Order UV-Spectrophotometric Method by Area Under Curve Technique and High Performance Thin Layer Chromatography for the Estimation of Remogliflozin Etabonate in Bulk and In-House Tablets	Pharma Analysis and Quality assurance, 2019, Vol. 2019(3), pp. 1-5	-	159
28.	A. Malik, S. Firke, R. Patil, A. Shirkhedkar, M.Kalaskar	Development and Validation of Zero and First-Order Derivative Area under Curve Spectrophotometric Methods for the Determination of Deferiprone in Bulk Material and Capsules	Asian Journal of Pharmaceutical Analysis, 2019, Vol. 9(2), pp. 49-54	-	162
29.	K. A. Patil, S. D. Firke	Determination and Development of UV-Spectrophotometric method for the Amodiquine Hydrochloride by using Quality by Design (QBD) Approach	Asian Journal of Pharmaceutical Analysis, 2019, Vol. 9(3), pp. 1-5	-	165
30.	P. Rajput, S.D. Firke	Analytical Techniques for Estimation of Rosiglitazone	Asian Journal of Pharmaceutical Analysis, 2019, Vol. 9(3), pp. 1-10	-	168
31.	S. D. Firke, R.R. Patil, M.G. Kalaskar, S. B. Bari, S. J. Surana	Simultaneous Determination of Domperidone and Paraben Preservative in Oral Formulation: Reversed-Phase Liquid Chromatographic Method	Indian Drugs, 2019, Vol. 56 (08), pp. 90-92	-	173
32.	M. S. Patil, R. R. Patil, S. S. Chalikwar, S. J. Surana, S. D. Firke	Analytical Method Development and Validation: A Review	International Journal of Pharmaceutical and Biological Science Archive, 2019, Vol. 7 (3), pp.70-81	-	175

33.	T. R. Deshmukh, A. P. Sarkate, D. K. Lokwani, S. V. Tiwari, R. Azad, B. B. Shingate	New Amide Linked dimeric 1,2,3-triazoles Bearing aryloxy Scaffolds as a Potent Antiproliferative Agents and EGFR Tyrosine Kinase Phosphorylation Inhibitors	Bioorganic & Medicinal Chemistry Letters, 2019 , Vol. 29, pp. 126618	2.448	181
34.	A. V. Chate, A. A. Redlawar, A. P. Sarkate, S. V. Tiwari, D. K. Lokwani	A New Efficient Domino Approach for the Synthesis of Coumarin-pyrazolines as Antimicrobial Agents Targeting Bacterial D-alanine-D-alanine ligase	New Journal of Chemistry, 2019 , Vol. 43, pp. 9002-9011	3.069	185
35.	N. S. Sakle, D. Lokwani, S. N. Mokale	Caesalpinia pulcherrima Arrests Cell Cycle and Triggers Reactive Oxygen Species-Induced Mitochondrial-Mediated apoptosis and Necroptosis via Modulating Estrogen and Estrogen Receptors	Pharmacognosy Magazine, 2019, Vol. 15(64) pp. S288-S297	1.26	190
36.	P. Keshari, Y. Sonar, H. Mahajan	Curcumin Loaded TPGS Micelles for Nose to Brain Drug Delivery: <i>In Vitro</i> and <i>In Vivo</i> Studies	Materials Technology Advanced Performance Materials, 2019 , Vol. 34(7), pp. 423-432	1.820	196
37.	Y. A. Sonar, H. S. Mahajan	Development of Glucosamine Functionalized Micelles As A Potential Drug Delivery System for Targeting to Brain	Materials Technology Advanced Performance Materials, 2019 https://doi.org/10.1080/10667857.2019.1659534	1.820	202
38.	Y. A. Sonar, H. S. Mahajan	Esterification of Pea Starch with Octenyl Succinic Anhydride using Conventional and Microwave Irradiation Method: Synthesis and Characterization	Journal of Polymer Research, 2019 , Vol. 26(247), pp. 1-10	1.530	207
39.	H. Patel, H. Jadhav, I. Ansari, R. Pawara, S. Surana	Pyridine and nitro-phenyl linked 1,3,4-thiadiazoles as MDR-TB Inhibitors	European Journal of Medicinal Chemistry, 2019 , Vol. 167 pp. 1-9	4.816	212
40.	H. Patel, R. Pawara, F. Ahmed, A. Shirkhedkar, S. Surana	A Structural Insight of Bedaquiline for the Cardiotoxicity and Hepatotoxicity	Tuberculosis, 2019 , Vol. 117 pp. 79-84	2.790	217
41.	A. Gorle, J. Mahajan, P. Bhawe	Development and Validation of RP-HPLC Method for Desoximetasone in Bulk and Cream Formulation	Journal of Drug Delivery and Therapeutics, 2019, Vol. 9(3), pp. 154-	-	220

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42.	A. Tatiya, S. Bhavsar, H. Mahajan, S. Surana	Experimental Design and Characterization of Nanoemulsion Based Topical Herbal Gel Developed for Site-Specific Activity of Glycyrrhiza Glabra Extract: In vitro and Ex-vivo Studies	Bioscience Biotechnology Research Communication, 2019 , Vol. 12(2), pp. 408-418		223
43.	S. S. Galkar, A. B. Mundada, V. Rathod, S. C. Khadse	RP-HPLC Method Development and Validation for Estimation of Barnidipine HCl in Bulk and In-House Tablets	Saudi Journal of Medical and Pharmaceutical Sciences, 2019 , Vol. 5(3), pp. 248-253		229
44.	S. A. A. Ansari, V. Patil, M. Ghodke, P. Jain	Application of Green Chemistry in Chemical Derivatization of Docosanol for Analytical Method Development and Validation in Bulk and Pharmaceutical Formulation by RP-HPLC and UV/Vis-Spectrophotometry including AUC	Der Chemica Sinica, 2019 , Vol. 10(1), pp. 799-805	-	232
45.	P. Jain	A Concise Review on Analytical Profile of Naproxen	Journal of Comprehensive and Advanced Pharmacology, 2019 , Vol. 4(3), pp. 70-81	-	236
46.	P. Jain, S. A. A. Ansari, C. T. Pawara, S. Surana	A Concise Review Based on Analytical Method Development and Validation of Glimepiride in Bulk and Marketed Dosage Form	Der Chemica Sinica, 2019 , Vol. 10(1), pp. 788-798	-	242
47.	S. Jamadar, K. Shirsath, H. Mahajan	Pellets as Drug Delivery System	Indian Journal of Novel Drug Delivery, 2019 , article in press	-	248
48.	C.V. Pardeshi, A.D. Kulkarni, R. O. Sonawane, V. S. Belgamwar, P. J. Chaudhari, S. J. Surana	Mucoadhesive Nanoparticles: A Roadmap to Encounter the Challenge of Rapid Nasal Mucociliary Clearance	Indian Journal of Pharmaceutical Education and Research, Vol. 53(2), 2019 , pp. 23-33	0.351	256
49.	C. V. Pardeshi, V. S. Belgamwar	Improved brain pharmacokinetics following intranasal administration of N,N,N-trimethyl chitosan tailored mucoadhesive NLCs	Materials Technology, 2019 , DOI: 10.1080/10667857.2019.1674522	1.820	262
50.	P. Dangre, S. Dudhkohar, S. Chalikwar	Development of Alginate-Neusilin US2 (Magnesium aluminometasilicate) Microcomposite Hydrogel Beads for Oral Sustained Release of	Polymer-Plastics Technology And Materials, 2019 https://doi.org/10.1080/25740881.2019.1	1.705	272

		Cilnidipine: a Statistical Optimization	625391		
51.	A.A. Shirkhedkar, M.M. G Khan, P. Chaudhari, P. I. Pawara	Analytical techniques for Pirfenidone and Terizidone: A review	International Journal of Pharmaceutical Chemistry and Analysis, 2019 , Vol. 6(1), pp. 1-5	-	280
52.	K. R. Patil, U. B. Mahajan, S. N. Goyal, S. Belemkar, S. J. Surana, C. R. Patil	Animal Models of Inflammation for Screening of Anti-inflammatory Drugs: Implications for the Discovery and Development of Phytopharmaceuticals	International Journal of Molecular Sciences, 2019 , Vol. 20, pp. 4367	4.183	283
53.	R.H. Rathod, S.R. Chaudhari, A. S. Patil A.A. Shirkhedkar	Ultra-high performance liquid chromatography-MS/MS (UHPLC-MS/MS) in practice: analysis of drugs and pharmaceutical formulations	Future Journal of Pharmaceutical Sciences, 2019 , Vol. 5(6), pp. 1-26	-	302
54.	V.L. Jadhav, A. S. Patil, S.R. Chaudhari, A.A. Shirkhedkar	UV-Spectrophotometry-Multicomponent Mode of Analysis for Simultaneous Estimation of Brinzolamide and Brimonidine Tartarate in Bulk and Ophthalmic Formulation	Journal of Pharmaceutical Technology, Research and Management, 2019 , Vol. 7(1), pp. 31-35	-	315
55.	V. Jadhav, A. Patil, A. Shirkhedkar	Development and Validation of First and Zero-Order Derivative UV-Spectrophotometry Methods using Area under Curve Technique for Determination of Brinzolamide in Bulk and in Ophthalmic Formulation	Pharma Analysis and Quality assurance, 2019 , Vol. 2019(3), pp. 1-4	-	318
56.	S. I. Khairnar, U. B. Mahajan, K. R. Patil, H. M. Patel, S. D. Shinde, S. N. Goyal, C. R. Patil	Disulfiram and Its Copper Chelate Attenuate Cisplatin-Induced Acute Nephrotoxicity in Rats Via Reduction of Oxidative Stress and Inflammation	Biological Trace Element Research, 2019 Published online, https://doi.org/10.1007/s12011-019-01683-w	2.431	320
57.	S.C. Khadse, M. U. Dave, D. K. Lokwani, R. R. Patil, V. G. Ugale,	Quinazolin-4-one Derivatives Lacking Toxicity-Producing Attributes as Glucokinase Activators: Design, Synthesis, Molecular Docking, and in-silico ADMET Prediction	Future Journal of Pharmaceutical Sciences, 2019 , Vol. 5(11), pp. 1-14		326
58.	V.C. Gurumukhi, S.B. Bari	Fabrication of Efavirenz Loaded Nano-Formulation using Quality by Design (QbD) based Approach: Exploring Characterizations and <i>in vivo</i> Safety	Journal of Drug Delivery Science and Technology, 2020 , Vol. 56(A), pp. 101545	2.606	333

59.	M. R. Patil, A.S. Patil, A.A. Shirkhedkar	Novel and ecofriendly UV- Spectrophotometry methods for estimation of Tolvaptan using hydrotropic agent	International Journal of Pharmaceutical Chemistry and Analysis, 2019 , Vol. 6(4), pp.115-119	-	342
60.	A. T. A. Wahab, M. M. G. Khan, A.A. Shirkhedkar	Analytical Studies on Zero Order And First Order Derivative and Area Under Curve UV Spectrophotometric Methods for Estimation of Pimavanserin Tartrate in Bulk and <i>In-House</i> Tablet Formulation	International Journal of Pharmaceutical Chemistry and Analysis, 2019 , Vol. 6(4), pp. 120-126		345
61.	P. S. Sathe, J. D. Rajput, S. S. Gunaga, H. M. Patel, R. S. Bendre	Synthesis, characterization, and antioxidant activity of thymol-based paracetamol analogues	Research on Chemical Intermediates, 2019 , 45, pp. 5487-5498	2.064	349
62.	H. Patel, R. Pawara, S. Surana	Resolving the Mystery of Ring Opening in the Synthesis of Benzo[d][1,3]oxazin-4-one and Quinazolin-4(3H)-one	Letters in Organic Chemistry, 2019 , Vol. 16(11), pp. 898 - 905	0.730	356
63.	H. M. Patel, V. Bhardwaj, P. Sharma, M. N. Noolvi, S. Lohana	Quinoxaline-PABA bipartite hybrid derivatization approach: Design and search for antimicrobial agents	Journal of Molecular Structure, 2019 , Vol. 1184, pp. 562- 568	2.011	361
64.	S. Ansari, P. Nerkar, S. Chalikwar	Development and Validation of Stability Indicating RPHPLC Method for Determination of Enzalutamide	International Journal of Pharmaceutical Sciences and Nanotechnology, 2019 , Vol.12(5), pp. 4635-4643		365
65.	V. P. Sonar, B. V. Bansod, P. N. Desale, S. S. Chalikwar	Ocimum Sanctum- A Traditional Remedy and Ethno Medicinal Uses, A Concise Review	American Journal of Pharmtech Research, 2019, Vol. 9(02), pp. 300-320	-	370
66.	B. V. Bansod, R. B. Khairnar, K. L. Sonawane, S. S. Chalikwar	Microsponge: An Innovative and Novel Strategy for Drug Delivery System	International Journal of ChemTech Research, 2019 , Vol.12(05), pp 299- 321		381

**Summary of Number of Research Publications with their Impact Factors
[2011- 2019]**

Year	No of Publications	Cumulative Number of Publications	Total Impact factor	Cumulative Impact factor
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- 2019)

Year	No of Publications	Cumulative Number of Publications
2011	83	83
2012	84	167
2013	80	247
2014	56	303
2015	70	373
2016	62	435
2017	63	498
2018	65	563
2019	66	629

Impact factor on Research Papers Published (2011-2019)

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

