

**Patent Published/Granted, D. Y. Patil Education Society (Deemed to be University), Kolhapur.
(Up to Oct, 2025)**

Sr. No.	Year	Application No.	Status (Published / Granted)	Inventor/s Name	Title	Patent Filed Date	Patent Published / Granted Date
1	2015	2253/MUM/2014	Granted 20/10/2021 379395	Dr. Meghnad Joshi, Ms. Yogita Velankar, Mr. Allauddin Mujawar	Preparation of nano-polymer for the treatment of non-healing and diabetic wounds and tissue engineering application	10/07/2014	Granted 20/10/2021 379395
2	2016	1020160073818	Korean Patent granted	J. H. Kim, A. C. Lokhande, J. H. Moon, I. Y. Kim, C. D. Lokhande, J.Y.Lee,	Gas sensor and method for manufacturing the same,	14/06/2016	Korean Patent granted
3	2018	201821018926	Granted 23/06/2022 399883	Dr. J. L. Gunjekar, Prof. C. D. Lokhande, Dr. Saji Thomas Kochuveedu, Mr. Shrikant V. Sadavar, Mr. Navnath S. Padalkar, Dr. V. V. Bhosale.	A method for producing polyoxovanadate intercalated layered copper hydroxide compound	21/05/2018	Granted 23/06/2022 399883
4	2018	201821018918	Granted 29/06/2021 370584	Dr. Umakant Patil, Mr. Pranav K. Katkar, Ms. Supriya J. Marje, Dr. V. V. Bhosale, Prof. C. D. Lokhande	A chemical synthesis process of cobalt manganese phosphate thin films on conducting substrate	21/05/2018	Granted 29/06/2021 370584
5	2018	201821015970	Granted 22/11/2023 471433	Prof. C. D. Lokhande, Dr. R. B.	A method of ytterbium sulphide	27/04/2018	Granted 22/11/2023 471433

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				Pujari, Dr. V. V. Bhosale, Mr. A. C. Lokhande	thin coating on solid surfaces		3 471433
6	2018	201821021727	Granted 14/03/2024 526729	Prof. C. D. Lokhande, Dr. A. M. Patil, Mr. A. C. Lokhande, Dr. V. V. Bhosale	An Improved solid-state device for energy storage	11/06/2018	Granted 14/03/202 4 526729
7	2018	201821022705	Granted 10/10/2022 408690	Prof. C. D. Lokhande, Dr. R. B. Pujari, Dr. V. V. Bhosale, Mr. V. C. Lokhande, Mr. S. B. Ubale	Chemically deposited large area and nanostructured samarium oxide thin films for energy storage	18/06/2018	Granted 10/10/202 2 408690
8	2018	1020170163491	Korean Patent Granted	J. H. Kim, Jin Hyeok, Mr. A.C. Lokhande, I. Y. Kim, D.S.Lee, Prof. C. D. Lokhande, P. T. Babar, Mr. V. C. Lokhande,	Cathode for water electrolysis and manufacturing method thereof.	30/11/2017	Korean Patent Granted
9	2019	201921004685	Granted 08/03/2024 522630	Dr. Meghnad Joshi, Mr. Shashikant Desai, Mr. Kishor R. Tardalkar, Mr. Nilesh Bhamare	Method of Constructing tissue Engineered Human Ear Pinna Prosthesis.	06/02/2019	Granted 08/03/202 4 522630
10	2019	201921004686	Granted 13/09/2024 550247	Dr. Meghnad Joshi, Mr,	Synthesis Process of Composite Artificial Skin	06/02/2019	Granted 13/09/202

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				Shashikant Desai, Miss. Swapnali Jagadale, Mr. Nilesh Bhamare	Bioink for 3D Bioprinting and Wound Healing Applications.		4 550247
11	2019	201921019463	Granted 23/12/2022 415257	Dr. Arvind Gulbake, Dr. C. D. Lokhande, Dr. V. V. Bhosale, Mr. Satyajeet Harugale, Miss. Tahseen Momin	Process for Embedding Oleic Acid Coated Superparamagnetic Iron Oxide Nanoparticles in Lipidic.	16/05/2019	Granted 23/12/2022 415257
12	2019	201921042840	Granted 08/07/2022 401088	Prof. C. D. Lokhande, Mr. S. B. Ubale, Dr. V. V. Bhosale, and Mr. V. C. Lokhande	Chemically coated ytterbium phosphate film on solid surface and energy storage application thereof.	22/10/2019	Granted 08/07/2022 401088
13	2019	201921046414	Granted 11/01/2024 497991	Prof. C. D. Lokhande, Ms. T. T. Ghogare, Ms. P. P. Bagwade, Mr. V. J. Mane and Dr. V. V. Bhosale,	A method for synthesis of dysprosium sulfide (Dy ₂ S ₃) thin film and supercapacitive application thereof.	14/11/2019	Granted 11/01/2024 497991
14	2019	201921046649	Granted 19/08/2021 374930	Prof. C. D. Lokhande, Mr. D. B. Malavekar, Dr. V. V. Bhosale, and Mr. V. C. Lokhande	Method of synthesizing reduced grapheme oxide-Copper selenide films for energy storage application.	15/11/2019	Granted 19/08/2021 374930
15	2020	202021000458	Granted 02/08/2022 402827	Prof. C. D. Lokhande, Ms. P. P. Bagwade,	Asymmetric solid-state supercapacitor.	06/01/2020	Granted 02/08/2022 402827

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				Ms. T. T. Ghogare, and Dr. V. V. Bhosale			
16	2020	202021001507	Granted 28/12/2023 491292	Dr. J. L. Gunjekar, Mr. N. S. Padalkar, Mr. S. V. Sadavar, Miss. R. B. Shinde, Prof. C. D. Lokhande, Dr. V. V. Bhosale	A method of preparation of an electrode based on nickel-chromium-layered double hydroxide intercalated with polyoxovanadate for supercapacitor application.	13/01/2020	Granted 28/12/2023 491292
17	2020	202021002802	Granted 11/09/2023 450597	Prof. C. D. Lokhande, Mr. D. B. Malavekar, Dr. V. V. Bhosale, and Mr. V. C. Lokhande, Mr. V. J. Mane	A method for coating of cerium sulfide-carbon based composite.	22/01/2020	Granted 11/09/2023 450597
18	2020	202021003019	Granted 27/08/2021 375746	Dr. Umakant Patil Mr. Pranav Katkar Miss. Supriya Marje Prof. C. D. Lokhande and Dr. V. V. Bhosale	A New Chemical Method to Coat Cobalt Phosphate on to Solid Substrates.	23/01/2020	Granted 27/08/2021 375746
19	2020	202021005460	Granted 24/03/2022 392792	Dr. J. L. Gunjekar, Mr. N. S. Padalkar, Mr. S. V. Sadavar, Miss. R. B. Shinde, Dr. R. N. Bulakhe,	A method of preparation of a supercapacitor electrode based on cobalt-chromium-layered double hydroxide pillared with polyoxovanadate.	07/02/2020	Granted 24/03/2022 392792

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				Prof. C. D. Lokhande, Dr. V. V. Bhosale			
20	2020	202021011232	Deemed to be withdrawn u/s 11B(4)	Prof. C. D. Lokhande, Mr. V. J. Mane, Mr. V. C. Lokhande, Mr. S. B. Ubale, Dr. V. V. Bhosale	Asymmetric solid-state supercapacitor for energy storage.	16/03/2020	17/06/2022
21	2020	202021039044	Granted 04/08/2022 403021	Dr. J. L. Gunjekar, Miss. R. B. Shinde, Mr. N. S. Padalkar, Mr. S. V. Sadavar, Mr. A. S. Patil, Prof. C. D. Lokhande, Dr. V. V. Bhosale	A method of preparation of thin films of zinc chromium layered double hydroxide nanotubes with porous walls.	10/09/2020	Granted 04/08/2022 403021
22	2020	202021041651	Granted 28/04/2023 430650	Dr. Umakant Patil, Mr. Sachin S. Pujari, Prof. C. D. Lokhande, Dr. V. V. Bhosale	A morphous nickel phosphate film electrode by chemical method for supercapacitor application.	25/09/2020	Granted 28/04/2023 430650
23	2021	202121017519	Granted 12/01/2024 498613	Dr. P. N. Pawaskar, Ms. Madhuri Anuje, Mr. Ajay Sivan, Mr. Satish Jadhav, Prof. C. D. Lokhande,	Radiosensitizer Based on Iron Oxide Nanoparticles.	15/04/2021	Granted 12/01/2024 498613

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				Dr. V. V. Bhosale			
24	2021	202121000897	Granted 19/01/2024 501334	Dr. J. L. Gunjekar, Mr. Akash S. Patil, Mr. Vikas V. Magdum, Mr. Yogesh M. Chitare, Ms. Abhaya S. Patil	Liquid Column Based Optical Infrared Filter.	08/01/2021	Granted 19/01/2024 501334
25	2021	202121038049	Application Awaiting Examination	Dr. Arpita Pandey Tiwari, Prof. S. H. Pawar, Dr. V. V. Bhosale	A Method of DNA Isolation from Bacterial/Human Samples by Using Functionalized Magnetic Nanoparticles.	23/08/2021	29/10/2021
26	2021	202121004796	Deemed to be withdrawn u/s 11B(4)	Dr. Meghnad Joshi, Mr. Nilesh Bhamare Mr. Kishor R. Tardalkar	Synthesis Method of Bioink for 3D Printing of Cartilage Mechanical Engineering	04/02/2021	12/02/2021
27	2021	2021105727	Australian Patent Granted 17/11/2021	Patil, Priyanka Popat; Patil, Abhinandan Ravsaheb; Pawar, Shivaji and Mishra, Sujit Kumar.	A method of preparation of Silk Fibroins coated with Hybrid chitosan-ZnO nanoparticles for wound dressing.		Australian Patent Granted 17/11/2021
28	2021	2021106977	Australian Patent Granted 17/11/2021	Mali, Vijay Tukaram; Patil, Abhinandan Ravsaheb; Mali, Snehal Vijay; Patil, Sohili Abhinandan; Mali, Vaibhav and Bagvade, Sanjay	A Smart relaxing platform for babies with artificial intelligence to prevent reflux during feeding or dosing medicine along with behaviour monitoring.		Australian Patent Granted 17/11/2021

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29	2021	2021106840	Australian Patent Granted 15/12/2021	Patil, Abhinandan Ravsaheb; Priyanka Patil, Amit Patil, Amrut Patil Sohili Patil, Pallavi Patil, Sujata and Pawar Shivaji.	Utilization of Lactobacillus rhamnosus ARJD Granules for anti-colon cancer and against different bowel disorders.		Australian Patent Granted 15/12/2021
30	2021	202121062097	Granted 28/11/2023 473475	Prof. C. D. Lokhande, Mr. Ranjit P. Nikam, Mr. Sambhaji D. Khot, Ms. Priti P. Bagwade, Mr. Dilip J. Patil	Chemical Synthesis of Cadmium Selenide/Reduced Graphene Oxide Composite Thin Film and Photoelectrochemical Cell Application.	31/12/2021	Granted 28/11/2023 473475
31	2022	202221004462	Granted 10/04/2023 428615	Dr. P. N. Pawaskar, Mr. S. B. Jadhav, Dr. D. B. Malavekar, Prof. C. D. Lokhande	Method of Synthesizing Nickel Tungsten Oxide Films for Glucose Sensing Application.	27/01/2022	Granted 10/04/2023 428615
32	2022	202221021487	Granted 04/09/2023 449331	Dr. Umakant Mahadev Patil, Mr. Suraj Anandrao Khalate, Mr. Sachin Shivaji Pujari	A Chemical Synthesis Process for cobalt-iron phosphate and use as electrocatalyst thereof.	08/04/2022	Granted 04/09/2023 449331
33	2022	202221021506	Granted 29/05/2023 433033	Prof. C. D. Lokhande, Mr. S. D. Khot, Mr. R. P. Nikam, Ms. P. P. Bagwade, Dr. D. B. Malavekar	Chemical Synthesis of reduced graphene oxide-dysprosium selenide composite thin films for energy storage.	08/04/2022	Granted 29/05/2023 433033

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34	2022	202221020670	Granted 16/10/2023 459219	Dr. Umakant M. Patil, Mr. Sambhaji S. Kumbhar, Mrs. Shaddha B. Bhosale, Mr. Vinod V. Patil, Prof. C. D. Lokhande, Dr. Prashant Ravasaheb Deshmukh	Chemical method for growing a cobalt vanadium oxide thin film on solid substrate.	31/03/2022	Granted 16/10/202 3 459219
35	2022	202221020648	Granted 20/03/2024 529322	Dr. Umakant M. Patil, Mr. Sambhaji S. Kumbhar, Mrs. Shaddha B. Bhosale, Mr. Vinod V. Patil, Prof. C. D. Lokhande, Dr. Rahul R. Salunkhe	Cobalt vanadium oxide, preparation method for the same and supercapacitor comprising the same.	31/03/2022	Granted 20/03/202 4 529322
36	2022	202221020652	Granted 12/06/2025 567378	Dr. J. L. Gunjakar, Ms. S. B. Bhosale, Dr. U. M. Patil, Mr. S. S. Kumbhar, Mr. V. V. Patil, Prof. C. D. Lokhande	Nickel vanadate thin film on conducting substrate, preparation method for the same and supercapacitor comprising the same.	31/03/2022	Granted 12/06/202 5 567378
37	2022	202221020644	Granted 19/05/2023 432303	Dr. Umakant M. Patil, Mr. Vinod V. Patil, Mr. Sambhaji S. Kumbhar, Ms. Sharaddha B. Bhosale, Prof. C. D. Lokhande	Nickel cobalt phosphate thin- film electrodes: chemical method for preparation of the same, application for supercapacitor and electrocatalysis using the same.	31/03/2022	Granted 19/05/202 3 432303
38	2022	202221005137	Granted 27/12/2022 415578	Dr. Vinayak S. Jamadade, Mr. Rushiraj	A chemical synthesis process of manganese	31/01/2022	Granted 27/12/202

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				P. Bhosale, Dr. Shivaji B. Ubale, Mr. Sambhaji S. Kumbhar and Prof. C. D. Lokhande	ferrite thin films on conducting substrates for energy storage.		2 415578
39	2022	202221029730	Granted 21/08/2023 445967	Prof. C. D. Lokhande, Ms. P. P. Bagwade, Mr. D. B. Malavekar, Mr. S. D. Khot, Mr. R. P. Nikam	Electrochemical Supercapacitor Device	24/05/2022	Granted 21/08/202 3 445967
40	2022	202221030806	Granted 29/01/2024 504456	Dr. Vinayak S. Jamadade, Mr. Rushiraj P. Bhosale, Dr. N. L. Tarwal, Ms. P. P. Bagwade and Prof. C. D. Lokhande	A electrochemical method of preparation of manganese ferrite thin films on conducting substrates for energy storage.	30/05/2022	Granted 29/01/202 4 504456
41	2022	202241041648	Awaiting Request for Examination	Dr. Shanmugarath inam Alagarsamy, Dr. T. S. Muthukumar, Dr. K. V. Leela, Dr. Gupta Shubham Lalbabuprasa d, Dr. Ashwini Kshirsagar, Mr. Deepadarshan Urs, Mrs. K. Vijaipriya, Dr. Shivam Mahajan, Dr. Manoj Kumar	Asthma-related dyselectrolytemia in stable and acute exacerbation chronic obstructive pulmonary disease COPD patients.	20/07/2022	19/08/202 2

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				Katual, Dr. Gurfateh Singh, Dr. Harikumar Pallathadka			
42	2022	202221039656	Granted 08/12/2023 479403	Prof. C. D. Lokhande, Mr. Dilip J. Patil, Dr. D. B. Malavekar Mr. S. D. Khot, Mr. R. P. Nikam	A Method of Synthesizing Composite of Reduced Graphene Oxide and Nickel Tungstate for Energy Storage.	11/07/2022	Granted 08/12/202 3 479403
43	2022	202221045186	Granted 26/07/2023 440563	Dr. Arpita Pandey Tiwari, Ms. Rutuja Prasant Gambhir	A Method for RNA Isolation from Viral/Human Serum Samples Using Functionalized Magnetic Nanoparticles.	08/08/2022	Granted 26/07/202 3 440563
44	2022	202221046044	Granted 21/11/2023 471088	Prof. Appasaheb P. Torane, Mr. Aniruddh A. Mohite, Mr. Rushiraj P. Bhosale, Dr. Shivaji B. Ubale, Mr. Sambahji S. Kumbhar, Prof. Chandrakant D. Lokhande, Prof. Bharat T. Jadhav	A Method of Preparation of Lanthanum Strontium Tungsten Oxide Composite Electrode for Supercapitor Application.	12/08/2022	Granted 21/11/202 3 471088
45	2022	202221054562	Granted 13/06/2023 434444	Prof. Chandrakant D. Lokhande, Mr. Ranjit P. Nikam, Mr. Sohel B. Shaikh	Electrodeposition of Lanthanum Selenide thin Film and Their Application in Oxygen Evolution Reaction.	23/09/2022	Granted 13/06/202 3 434444

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46	2022	202221061157	Granted 18/07/2025 568827	Dr. Manisha R. Phadatare. Prof. C. D. Lokhande, Mr. Sohan S. Thombare, Mr. Rohan A. Patil	Crystalline Cristobalite alpha low silicon dioxide anodes for lithium- ion batteries and lithium-ion capacitors for future zero carbon dioxide electric cars.	27/10/2022	Granted 18/07/202 5 568827
47	2022	202221066956	Application Awaiting Examination	Prof. C. D. Lokhande, Ms. P. P. Bagwade, Mr. S. D. Khot, Mr. R. P. Nikam	A Chemical Synthesis Process for Cobalt Tungstate/Reduced Graphene Oxide Composite Thin Film and use as Electrocatalyst Thereof.	17/11/2022	13/01/202 3
48	2022	202215920	Australian Design Patent Granted 14/11/2022	Dr. Sunetra Arvindrao Deshmukh, Miss Nita Bhauso Pawar, Dr. Abhinandan Ravsaheb Patil, Priya Prasad Dhokarikar	Blood Glucose Meter with Insulin Dispenser.	07/10/2022	Australian Design Patent Granted 14/11/202 2
49	2022	202221062514	Application Awaiting Examination	Dr. Deepak V. Sawant, Prof. C. D. Lokhande, Ms. Siddhi D. Sawant	DNA Nano biosensor for TB Detection	02/11/2022	05/03/202 4
50	2022	367488001	Indian Design Patent Granted 06/04/2023	Dr. Arpita Pansey Tiwari, Prof. C. D. Lokhande	Biosensing Device for Detecting Bio Molecules.	09/07/2022	
51	2023	202321003114	Application Awaiting Examination	Dr. Arpita Pandey Tiwari, Ms. Tejaswini P.	A Method for detection of viral/bacterial nucleic acid using gold nanoparticles.	16/01/2023	03/03/202 3

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				Patil, Prof. C. D. Lokhande			
52	2023	202321016608	Granted 21/06/2024 542485	Prof. C. D. Lokhande, Ms. D. C. Pawar, Mr. A. G. Bagade, Mr. S. R. Sankapal	Method of Synthesizing Reduced Graphene Oxide/Polyaniline Coating for Energy Storage Application Thereof.	13/03/2023	Granted 21/06/2024 542485
53	2023	202321020467	Granted 21/05/2024 538842	Dr. Arpita Pandey Tiwari, Ms. Anuja Vibhute, Prof. C. D. Lokhande	A Method for Detection of Folic Acid from Human Serum/Urine Samples Using Surface Functionalized Carbon Quantum Dots.	23/03/2023	Granted 21/05/2024 538842
54	2023	202321020957	Granted 05/03/2024 519511	Prof. C. D. Lokhande, Mr. S. D. Khot, Dr. V. C. Lokhande	Chemical Synthesis of Dysprosium Sulphide Coating for Energy Storage.	24/03/2023	Granted 05/03/2024 519511
55	2023	202321038532	Granted 26/03/2025 563679	Dr. V. M. Khot, Mr. Satish S. Phalake, Dr. A. B. Salunkhe	Aminated iron oxide nanoparticles for hyperthermia application.	30/05/2023	Granted 26/03/2025 563679
56	2023	202321038527	Granted 29/05/2025 566922	Dr. V. M. Khot, Ms. K. V. kadam, Dr. A. B. Salunkhe	To Synthesis of Highly Porous Zinc Iron Oxide Nanoparticles for Photocatalytic Dye Degradation.	30/05/2023	Granted 29/05/2025 566922
57	2023	202321038525	Granted 07/10/2025 571658	Prof. C. D. Lokhande, Mr. A. G. Bagde, Ms. D. C. Pawar, Mrs. J. P. Thorat, Dr. A. C. Lokhande	Porous reduced graphene oxide/ruthenium oxide coating for energy storage application	30/05/2023	Granted 07/10/2025 571658

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58	2023	202321047985	Granted 04/03/2025 561834	Prof. C. D. Lokhande, Ms. J. P. Thorat, Mr. A. G. Bagde, Ms. D. C. Pawar, Mr. S. D. Khot, Dr. V. C. Lokhande	A Method of Synthesizing Reduced Graphene Oxide-Nickel Cobalt Oxide (Rgo-NiCo2O4) Composite Coating on Solid Surface for Energy Storage Application.	17/07/2023	Granted 04/03/2025 561834
59	2023	202321046260	Granted 03/02/2025 559471	Dr. U. M. Patil, Ms. S. S. Patil, Mr. K. G. Belekar, Prof. C. D. Lokhande	Chemical Method for growing cobalt Hydroxide Ontocoblt Phosphate Coating for Energy Storage and Electrocatalysis Application.	10/07/2023	Granted 03/02/2025 559471
60	2023	202321047466	Application Awaiting Examination	Prof. R. S. Patil, Ms. N. N. Patel, Dr. V. M. Khot, Prof. C. D. Lokhande	A Process for making Magnetite (Fe3O4) Nanoparticals for Hyperthermia Application.	14/07/2023	06/10/2023
61	2023	202321050633	Application Awaiting Examination	Prof. R. S. Patil, Ms. N. N. Patel, Dr. V. M. Khot, Prof. C. D. Lokhande	A Process for making Magnetite (Fe3O4) Nanoparticals for Hyperthermia Application.	20/07/2023	06/10/2023
62	2023	202321053967	Application Redy for Publication	Prof. C. D. Lokhande, Mrs. J. P. Thorat, Mr. S. R. Sankpal, and Dr. A. C. Lokhande	<u>rGO@NiCo2O4 based high energy density asymmetric Electrochemical supercapacitor</u>	07/08/2023	27/10/2023
63	2023	202321054563	Awaiting Request for Examination	Prof. C. D. Lokhande, Ms. S. B. Patil, Mr. R. P. Nikam, Mr. S. B. Shaikh, Prof. R. S. Patil	Method of synthesis of tungsten oxide/reduced graphene oxide composite thin coating for energy storage.	14/08/2023	13/10/2023

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64	2023	202321053383	Granted 30/05/2025 567033	Prof. C. D. Lokhande, Dr. U. M. Patil, Mr. K. G. Belekar, Mr. R. P. Nikam, Ms. S. S. Patil	Chemical Synthesis of Manganese Phosphate Thin Coating for Energy Storage Application.	09/08/2023	Granted 30/05/2025 567033
65	2023	393145-001	Indian Design Patent Granted 17/10/2023	Dr. A. P. Tiwari, Ms. R. P. Gambhir, D. Y. Patil Education Society	Electrochemical Biosensor Apparatus for Detecting Stem Cells.	21/08/2023	Indian Design Patent Granted 17/10/2023
66	2023	202321064185	Awaiting Request for Examination	Dr. A. P. Tiwari, Dr. U. M. Patil, Ms. R. P. Gambhir, Ms. S. B. Bhosale, Prof. C. D. Lokhande	Electrochemical Method for Detection of Cancer.	25/09/2023	5/4/2024
67	2023	202321066163	Awaiting Request for Examination	Dr. J. L. Gunjekar, Mr. P. D. Sawant, Ms. S. V. Talekar, Ms. S. A. Pawar, Dr. H. M. Yadav, Prof. R. G. Sonkawade, Prof. C. D. Lokhande	A Method of Synthesis of An Exfoliated Cobalt-Doped Nickel-Iron-Layered Double Hydroxide and Its Electrode for the Oxygen Evolution Reaction.	03/10/2023	24/11/2023
68	2023	202321063189	Awaiting Request for Examination	Prof. C. D. Lokhande, Dr. U. M. Patil, Mr. K. G. Belekar, Mr. R. P. Nikam, Ms. S. S. Patil, Mr. G. D. Jadhav	Chemical Synthesis of Cobalt Phosphate/Polyaniline Composite Coating for Energy Storage Application.	18/09/2023	02/02/2024
69	2023	202321073714	Awaiting Request for	Dr. V. M. Khot, Mr. M. S. Lad, Mr. S.	A Method for the Preparation of Ascorbic Acid	18/10/2023	05/01/2024

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			Examination	S. Phalake, Mr. S. A. Patil, Ms. P. V. Londhe, Prof. C. D. Lokhande	Functionalized Cobalt Iron Oxide Nanoparticles and Application Thereof.		
70	2023	202321082336	Awaiting Request for Examination	Dr. J. L. Gunjekar, Ms. S. V. Talekar, Mr. P. D. Sawant, Ms. S. A. Pawar, Dr. R. B. Shinde, Dr. H. M. Yadav, Prof. C. D. Lokhande	A Method for Zinc-Aluminium- Layered Double Hydroxide Nanosheet Films and Their Application in Gas Sensor.	04/12/2023	3/5/2024
71	2023	202321085686	Awaiting Request for Examination	Dr. J. L. Gunjekar, Ms. S. A. Pawar, Ms. S. V. Talekar, Mr. P. D. Sawant, Ms. S. S. Kulkarni, Dr. H. M. Yadav, Prof. R. G. Sonkawade, Prof. C. D. Lokhande	A Method of Cobalt-Iron- Layered-Double- Hydroxide Nanosheets Thin Film for Electrocatalytic Oxygen Evolution Reaction.	15/12/2023	9/2/2024
72	2023	403477001	Indian Design Patent Granted 12/02/2024	Dr. J. L. Gunjekar, Mr. P. D. Sawant, Ms. S. V. Talekar, Ms. S. A. Pawar, Ms. A. S. Patil and Mr. A. S. Patil	Gas Sensing Apparatus.	29/12/2023	Indian Design Patent Granted 12/02/2024
73	2024	202421002872	Awaiting Request for Examination	Prof. C. D. Lokhande, Ms. D. C. Pawar, Dr. V. C. Lokhande, Mrs. J. P. Thorat, Mr.	A Chemical Method of Reduced Graphene Oxide/Polypyrrole Coating for Energy Storage.	15/01/2024	8/3/2024

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				A. G. Bagde (Applied 2024)			
74	2024	202421004502	Awaiting Request for Examination	Prof. S. Mohan Karuppayil. Dr. Ashwini K. Jadhav, Ms. Sayali A. Chougule, Ms. Susmita S. Patil, Prof. C. D. Lokhande	Indole Impregnated Antimicrobial Urinary Catheter.	23/01/2024	12/7/2024
75	2024	202421017358	Awaiting Request for Examination	Prof. C. D. Lokhande, Mr. S. R. Sankapal, Mr. A. G. Bagde, Ms. D. C. Pawar, Mrs. J. P. Thorat, Dr. V. C. Lokhande	Synthesizing Method of Copper Vanadate Oxide Coating for Energy Storage Application.	11/3/2024	10/5/2024
76	2024	202421022225	Application Awaiting Examination	Dr. V. M. Khot, Ms. M. V. Londhe, Ms. P. V. Londhe, Dr. A. B. Salunkhe, Prof. C. D. Lokhande	Process of chitosan functionalization of cobalt iron oxide nanoparticles and its use thereof.	22/03/2024	14/06/2024
77	2024	202421023825	Application Awaiting Examination	Prof. R. S. Patil, Ms. T. M. Nejkar, Ms. N. R. Mulla, Dr. U. M. Patil, Prof. C. D. Lokhande	Divalent magnesium (Mg ²⁺) ion electrolyte based asymmetric supercapacitor device using α - Fe ₂ O ₃ as anode and MnO ₂ as cathode.	26/03/2024	14/06/2024
78	2024	407337001	Indian Design Patent	Dr. J. L. Gunjekar, Mr. Y. M. Chitare,	Infrared (IR) cut- off water filter assembly.	12/2/2024	Indian Design Patent

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			Granted 10/04/2024	Mr. V. V. Magdum, Ms. S. P. Kulkarni, Mr. A. S. Patil, Ms. A. S. Patil			Granted 10/04/202 4
79	2024	202421009593	Application Awaiting Examination	Dr. J. L. Gunjakar, Ms. S. V. Talekar, Mr. P. D. Sawant, Ms. S. A. Pawar, Dr. H. M. Yadav	A method for magnesium- aluminium-layered double hydroxide thin films and their application in gas sensor.	13/02/2024	22/03/202 4
80	2024	202421031810	Application Awaiting Examination	Dr. A. P. Tiwari, Ms. P. A. Kamble, Prof. C. D. Lokhande	Method for detection of breast cancer biomarker using carbon quantum dots.	22/04/2024	12/7/2024
81	2024	202421035776	Application Awaiting Examination	Dr. J. L. Gunjakar, Mr. V. V. Magdum, Mr. Y. M. Chitare, Ms. S. P. Kulkarni, Prof. C. D. Lokhande	A method for depositing Uniform coating of 2D titanate nanosheets.	6/5/2024	2/8/2024
82	2024	202421035790	Application Awaiting Examination	Dr. S. B. Kashte, Mr. S. S. Mujawar, Ms. N. P. Mungurwade, Prof. C. D. Lokhande	Antibacterial, anti- oxidant, and biodegradable packaging film for perishable produce and its method of preparation.	6/5/2024	12/7/2024
83	2024	202421035804	Application Awaiting Examination	Dr. S. B. Kashte, Mr. S. S. Mujawar, Prof. C. D. Lokhande, Dr. R. K. Sharma	3D-printed polyherbal hydrogel compostion as antibacterial wound healing and a process of preparation thereof.	6/5/2024	12/7/2024

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84	2024	202421038823	Application Awaiting Examination	Prof. C. D. Lokhande, Mr. S. R. Sankapal, Prof. B. R. Sankapal, Mr. A. G. Bagade	A method of multiwalled carbon nanotubes/copper vanadate oxide coating for energy storage application.	17/05/2024	12/7/2024
85	2024	202421035244	Awaiting Request for Examination	Dr. T. S. Bhat, Dr. H. M. Yadav, Mr. M. Y. Kulkarni, Dr. J. L. Gunjekar, Prof. C. D. Lokhande	A chemical method for silver doped nickel phosphate hydrate electrodes for electrocatalytic application.	3/5/2024	16/08/2024
86	2024	202421044348	Awaiting Request for Examination	Dr. T. S. Bhat, Dr. H. M. Yadav, Mr. M. Y. Kulkarni, Dr. J. L. Gunjekar, Prof. C. D. Lokhande	Silver Nanoparticles Decorated Nickel Phosphate Hydrate Electrodes for Application in Electrocatalysis.	7/6/2024	16/08/2024
87	2024	202421044313	Awaiting Request for Examination	Dr. V. M. Khot, Dr. S. A. Patil, Ms. P. R. Patil, Mr. M. S. Lad	A Method of Preparation of Polyvinylpyrrolidone Coated Manganese Iron Oxide Nanoparticles and Application thereof.	7/6/2024	16/08/2024
88	2024	202421049682	Application Awaiting Examination	Dr. U. M. Patil, Mr. G. D. Jadhav, Mr. K. G. Belekar, Ms. A. A. Jadhav, Prof. C. D. Lokhande.	Synthesis method of nickel molybdate coating for energy storage and conversion applications.	28/06/2024	6/9/2024
89	2024	202421050556	Application Awaiting	Dr. U. M. Patil, Mr. G. D. Jadhav,	Chemical process for cobalt molybdate thin	2/7/2024	6/9/2024

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			Examination	Ms. A. A. Jadhav, Ms. S. S. Patil, Prof. C. D. Lokhande.	coated electrodes for energy storage and oxygen evolution reaction applications.		
90	2024	202421051339	Awaiting Request for Examination	Dr. S. B. Kashte, Ms. N. A. Shinde, Prof. C. D. Lokhande	Graphene Oxide Bioadhesive Hydrogel as a Tissue and Bone Adhesive and Method Thereof.	4/7/2024	23/08/2024
91	2024	202421051342	Application Awaiting Examination	Prof. R. S. Patil, Ms. N. N. Patel, Ms. N. R. Mulla, Ms. T. M. Nejekar, Dr. V. M. Khot, Prof. C. D. Lokhande	A Process for making Glutathione (GSH) conjugate magnetite (Fe ₃ O ₄) Nanoparticals for Boimeducal Applications.	4/7/2024	6/9/2024
92	2024	202421051568	Application Awaiting Examination	Dr. K. Mayakannan, Ms. P. R. Patil, Dr. V. M. Khot, Mr. S. A. Patil, Dr. M. G. Joshi, Ms. P. P. Kolekar	A method of preparation of polymer functionalized iron oxide nanoparticles and application thereof.	5/7/2024	16/08/2024
93	2024	202421051560	Awaiting Request for Examination	Dr. J. L. Gunjekar, Mr. Y. M. Chitare, Mr. V. V. Magdum, Prof. C. D. Lokhande	A Method for Deposition of Two Dimensional Titanate Nanosheets Thin Films Using Cylindrical Graphite Electrophoretic Cell.	5/7/2024	3/1/2025
94	2024	202421052124	Awaiting Request for Examination	Dr. U. M. Patil, Ms. S. S. Patil, Mr. G. D. Jadhav Dr. R. R. Salunkhe,	Method for Synthesizing Nickel-Cobalt Hydroxide Onto Nickel-Cobalt Phosphate Coating for Energy Storage	8/7/2024	20/09/2024

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				Prof. C. D. Lokhande	and Electrocatalysis Application Thereof.		
95	2024	202421053816	Awaiting Request for Examination	Dr. S. B. Patil, Ms. S. J. Yadav, Ms. N. A. Shinde, Dr. S. B. Kashte, Prof. C. D. Lokhande.	Vanadium oxide-reduced graphene oxide nanohybrids: preparation method and antibacterial activity thereof.	15/07/2024	6/9/2024
96	2024	202421053807	Application Awaiting Examination	Dr. A. P. Tiwari, Ms. M. M. Ghatage, Prof. C. D. Lokhande	An electrochemical method for detection of creatinine from human urine samples using reduced graphene oxide/gold nanoparticles (rGO/AuNPs) nanocomposite.	15/07/2024	6/9/2024
97	2024	202421059263	Application ready for publication	Dr. A. R. Patil, Ms. J. A. Shingade, Prof. J. P. Park, Dr. N. S. Padalkar, Prof. C. D. Lokhande	A method of preparation of lactobacillus plantarum loaded with maghemite nanoparticles for antimicrobial activity.	6/8/2024	23/08/2024
98	2024	202421060889	Application Awaiting Examination	Dr. A. K. Jadhav, Ms. T. C. Gavandi, Ms. S. S. Sherbande, Prof. C. D. Lokhande	Anti-candida hydrogel containing 2-deoxy glucose for oral thrush.	12/8/2024	13/09/2024
99	2024	202421063773	Application Awaiting Examination	Prof. C. D. Lokhande, Mr. S. D. Khot, Mr. A. G. Bagde, Ms. D. C. Pawar, Mr. S. B.	Method of synthesizing reduced graphene oxide/dysprosium sulfide composite coating for energy	23/08/2024	4/10/2024

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				Shaikh, Dr. V. C. Lokhande	storage application thereof.		
100	2024	202421064202	Application Awaiting Examination	Prof. C. D. Lokhande, Mrs. J. P. Thorat, Ms. D. C. Pawar, Mr. S. R. Sankapal	A chemical synthesis method for rGO/NiCo ₂ O ₄ composite thin films electrocatalyst for oxygen evolution reaction.	26/08/2024	8/11/2024
101	2024	202421063351	Awaiting Request for Examination	Dr. P. P. Pawar, Prof. C. D. Lokhande, Prof. R. S. Gedam, Dr. V. Y. Ganvir	A method for the preparation of Tb ₂ O ₃ doped Li ₂ O-Al ₂ O ₃ -B ₂ O ₃ glasses for green light emitting diode application.	22/08/2024	8/11/2024
102	2024	202421063355	Awaiting Request for Examination	Dr. P. P. Pawar, Prof. C. D. Lokhande	A method for synthesis of green luminescent glasses for green light therapy and biomedical application.	22/08/2024	8/11/2024
103	2024	202421063344	Awaiting Request for Examination	Dr. P. P. Pawar, Prof. C. D. Lokhande, Prof. R. S. Gedam	Improvement in the green light luminescence with Tb ³⁺ IN 27Li ₂ O-3Al ₂ O ₃ -(70-Y)B ₂ O ₃ -YTb ₂ O ₃ glasses.	22/08/2024	8/11/2024
104	2024	202421072008	Awaiting Request for Examination	Dr. S. B. Patil Ms. Dhanashri A. More, Prof. C. D. Lokhande	Synthesis of bismuth vanadate-titanoniobate nanohybrids and photocatalytic dye degradation activity of the same.	27/09/2024	8/11/2024
105	2024	202421079222	Awaiting Request for Examination	Prof. C. D. Lokhande, Mr. Ranjit P. Nikam, Ms. Sujata B. Patil, Mr.	Synthesis of reduced graphene oxide/cadmium selenide composite coating and its photoelectrochemi	18/10/2024	6/12/2024

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				Suraj R. Sankapal, Dr. Abhishek C. Lokhande	cal cell application.		
106	2024	202421077722	Awaiting Request for Examination	Prof. Dr. S. M. Karuppayil, Ms. S. B. Patil, Dr. A. K. Jadhav, Dr. A. R. Patil, Prof. Dr. C. D. Lokhande	Allyl isothiocyanate based nail lacquer formulation for the treatment of candidal onychomycosis.	14/10/2024	22/11/2024
107	2024	202421081097	Awaiting Request for Examination	Prof. C. D. Lokhande, Mr. Ranjit P. Nikam, Ms. Sujata B. Patil, Mr. Suraj R. Sankapal, Dr. Vaibhav C. Lokhande	Synthesis of reduced graphene oxide/cadmium selenide composite coating and their photoelectrochemical cell application.	24/10/2024	6/12/2024
108	2024	202421081476	Awaiting Request for Examination	Dr. U. M. Patil, Dr. P. N. Pawaskar, Mr. R. A. Mohite, Mr. G. D. Jadhav, Dr. S. B. Jadhav, Prof. C. D. Lokhande	Method of synthesizing nickel Tungsten thin coatings for non-enzymatic glucose sensing application.	25/10/2024	13/12/2024
109	2024	202421083712	Awaiting Request for Examination	Prof. R. S. Patil, Ms. N. R. Mulla, Ms. N. N. Patel, Ms. T. M. Nejkar, Dr. U. M. Patil, Prof. C. D. Lokhande	Chemical synthesis of iron-doped manganese oxide thin film electrode for energy storage application.	1/11/2024	13/12/2024
110	2024	202421090560	Application Awaiting Examination	Dr. S.B. Kashte, Mrs. M. S. Patil	A method for preparation of montmorillonite containing	21/11/2024	17/01/2025

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					biocompatible bioadhesive hemostatic hydrogel for tissue sealing.		
111	2024	202421090572	Application Awaiting Examination	Dr. S. B. Kashte, Mrs. M. S. Patil, Mr. S. S. Palase, Prof. C. D. Lokhande, Dr. R. K. Sharma	Biocompatible bioadhesive hemostatic patch for tissue sealling and hemostatic applications and thereof.	21/11/2024	17/01/2025
112	2024	202421091761	Application Awaiting Examination	Dr. A. P. Tiwari, Ms. A. N. Kapse, Prof. C. D. Lokhande	Electrochemical Method for Detection of Dengue NS1 Protein in Human Serum Samples.	25/11/2024	17/01/2025
113	2018	201811013592	Granted 07/01/2025 557509	Dr. Sachin S. Kadam, Dr. S. B. Kashte	A Novel Combination Scaffold and Methods of Manufacture Thereof.	10/4/2018	Granted 07/01/2025 557509
114	2025	202521006474	Application Awaiting Examination	Dr. A. P. Tiwari, Ms. V. S. Parkhe, Prof. C. D. Lokhande	An Electrochemical method for detection of <i>Klebsiella pneumoniae</i> DNA using surface functionalized gold nanoparticles/reduced graphene oxide (AuNPs/rGO) nanocomposites.	27/01/2025	28/02/2025
115	2025	202521009029	Application Awaiting Examination	Dr. S. B. Kashte, Ms. N. A. Shinde, Ms. S. Y. Patil, Dr. U. M. Patil	Graphene oxide containing aerogel for bone tissue engineering applications.	4/2/2025	28/02/2025

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116	2025	202521013381	Application Awaiting Examination	Dr. P. P. Pawar, Prof. C. D. Lokhande, Prof. R. S. Gedam, Dr. V. Y. Ganvir	Method for the synthesis of Gd ³⁺ doped Li ₂ O-Al ₂ O ₃ -B ₂ O ₃ Glasses for ultraviolet B light emitting diode.	17/02/2025	2/5/2025
117	2025	202521035484	Application ready for publication	Prof. R. S. Patil, Ms. T. M. Nejkar, Ms. S. B. Patil, Ms. N. N. Patel, Dr. U. M. Patil, Prof. C. D. Lokhande	A chemical method for synthesis of binder-free Fe ₂ O ₃ thin film electrode for supercapacitor application	11/4/2025	11/7/2025
118	2025	202521040898	Awaiting Request for Examination	Dr. P. P. Pawar, Prof. C. D. Lohande	Method of producing narrowband ultraviolet B light emitting glass source for the treatment of skin diseases	28/04/2025	6/6/2025
119	2025	202521040882	Awaiting Request for Examination	Dr. P. P. Pawar, MS. G. M. Khot, Mr. V. A. Nimat, Mrs. J. P. Thorat, Prof. C. D. Lohande	A method of synthesizing molybdenum disulfide (MoS ₂) thin film on solid substrate for electrocatalytic hydrogen evolution reaction (HER) thereof	28/04/2025	6/6/2025
120	2025	202521040879	Awaiting Request for Examination	Dr. V. M. Khot, Dr. S. S. Phalake, Mr. M. S. Lad, Ms. S. K. Kurde	Polymer functionalized cubic shaped iron oxide nanoparticles for magnetic hyperthermia application	28/04/2025	30/05/2025
121	2025	202521045954	Application Awaiting Examination	Prof. R. S. Patil, Ms. S. B. Patil, Ms. T. M. Nejkar,	Chemical synthesis of molybdenum oxide/reduced	13/05/2025	4/7/2025

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				Dr. R. P. Nikam, Mr. S. R. Sankapal, Prof. C. D. Lokhande	graphene oxide thin coating for energy storage application		
122	2025	202521051857	Awaiting Request for Examination	Dr. U. M. Patil, Dr. P. N. Pawaskar, Mr. R. A. Mohite, Mr. G. D. Jadhav, Dr. D. B. Malavekar, Prof. C. D. Lokhande	Method of synthesizing nickel cobalt Tungsten thin coated electrodes for energy storage and oxygen evolution reaction applications.	29/05/2025	4/7/2025
123	2025	202521052416	Application not yet published	Dr. A. P. Tiwari, Ms. P. A. Kamble, Prof. C. D. Lokhande	Method for Preparation of carbon quantum dots (CQDs) based fluorescent bioink.	30/05/2025	
124	2025	202521053357	Awaiting Request for Examination	Dr. U. M. Patil, Ms. A. A. Jadhav, Dr. A. M. Patil, Mr. G. D. Jadhav, Prof. C. D. Lokhande	Synthesis of cobalt manganese oxide on metal organic framework derived cobalt phosphide for supercapacitor application.	2/6/2025	25/07/2025
125	2025	202521053326	Application not yet published	Dr. M. G. Joshi, Mr. O. R. Sonkawade, Ms. M. N. Damle	Tissue-engineered biodegradable polymer-collagen hybrid graft for anterior cruciate ligament repair.	2/6/2025	
126	2025	202521053323	Application not yet published	Dr. M. G. Joshi, Mr. O. R. Sonkawade, Ms. M. N. Damle	Bioengineered heart valve using polymeric and collagen-based bioink for valve replacement therapy.	2/6/2025	
127	2025	202521053417	Application Awaiting Examination	Dr. S. B. Kashte, Mr. S. S. Mujawar, Ms. A. A. Yadav, Dr. V.	Nanoparticles based hydrogel for dental caries prevention.	2/6/2025	11/7/2025

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				M. Khot, Dr. S. S. Phalake, Prof. C. D. Lokhande			
128	2025	202521055481	Awaiting Request for Examination	Dr. P. P. Pawar, Prof. C. D. Lokhande, Prof. R. S. Gedam, Dr. V. Y. Ganvir	A method for synthesis of Dy ³⁺ /Pr ³⁺ co- doped Li ₂ O- Al ₂ O ₃ -B ₂ O ₃ glasses useful for yellowish white light emitting diode.	9/6/2025	5/9/2025
129	2025	202521059229	Awaiting Request for Examination	Prof. C. D. Lokhande, Mr. A. G. Bagde, Mr. S. R. Sankapal, Dr. A. C. Lokhande	A method for multiwalled carbon nanotubes/ruthenium oxide coating for energy storage application thereof.	20/06/2025	1/8/2025
130	2025	202521059220	Awaiting Request for Examination	Prof. C. D. Lokhande, Mrs. J. P. Thorat, Ms. G. M, Khot, Dr. A. C. Lokhande	NiCo ₂ O ₄ /PVA- KOH/NiFe ₂ O ₄ based solid state asymmetric supercapacitor device.	20/06/2025	1/8/2025
131	2025	202521065263	Application Awaiting Examination	Dr. M. G. Joshi, Ms. P. P. Kolekar, Dr. M. Damale	A novel bioimplant for breast reconstruction using decellularized placenta and fibrin glue.	9/7/2025	1/8/2025
132	2025	202521065829	Awaiting Request for Examination	Dr. U. M. Patil, Ms. A. A. Jadhav, Dr. A. M. Patil, Mr. G. D. Jadhav, Prof. C. D . Lokhande	Chemical synthesis of zeolite imidazole framework (ZIF) cobalt phosphide/cobalt manganese oxide.	10/7/2025	1/8/2025
133	2025	202521066925	Application Awaiting	Dr. S. B. Patil, Ms. S. J.	Exfoliated titanoniobate	14/07/2025	15/08/2025

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			Examination	Yadav, Ms. N. A. Shinde, Dr. S. B. Kashte, Prof. C. D. Lokhande.	nanosheets for antibacterial activity.		
134	2025	202521086828		Dr. S. B. Patil, Ms. D. A. More, Prof. C. D. Lokhande.	Synthesis of Molybdenum- Substituted Bismuth Vanadate- Titanoniobate Nanocomposites And Photocatalytic Removal of Tetracycline Activity of the same		