

List of Patents

Sr.No.	Title of Patent	Authors	Patent Number
1	Innovation patent-A method of preparation of silk fibroins coated hybrid chitosan ZnO nanoparticles for wound dressing Australian Government	Patil Priyanka Popat; Patil Abhinandan Ravsaheb; Pawar Shivaji and Mishra Sujit Kumar	2021105727
2	Innovation patent- Utilization of Lactobacillus rhamnosus ARJD granules for anti-colon cancer and against different bowel disorders- Australian Government.	Patil Abhinandan; Patil Ravsaheb; Patil Priyanka; Patil Amit; Patil Amrut; Patil Sohili; Patil Pallavi; Patil Sujata and Pawar Shivaji	2021106840
3	Design patent- Nanotechnology based antimicrobial bandage dispenser. Indian Government	Patil Priyanka P., Pawar Shivaji H.	102926
4	Antiviral Biocompatible Jasad Nanocomposite based " <i>Artemisia pallens wall</i> Nasal oil drop "A patent submitted in collaboration in industry	Dr. Khade Shrikant Tukaram, Dr. C. V. Murumkar, Dr. R. K. Sharma, Prof. Dr. S. H. Pawar	202221027053

Book Publications:

1. Silk Fibroin Advances In Applications And Research. By S. H. Pawar, Nova Science Publisher USA. 2023.
2. Progress and Prospects in Nanoscience Today. By, S. H. Pawar, Nova Science Publisher USA. 2020.
3. New and Emerging Technologies for Water Resources. By, S. H. Pawar, S. D. Nawale and P.P.Tapkire. SPSPM, Sinhgad Institutes, Solapur.
4. Innovative Technologies for Rural Developments. By, S. H. Pawar, S. D. Nawale and R. K. Singh. SPSPM, Sinhgad Institutes, Solapur.

Research Publications with citations during last five years. (2018-23)

1. A Novel Approach of Developing AgI Loaded Silica Aerogels for Possible Application as Cloud Seeding Material 2023
2. A Study of Evaluate the Efficacy of a Structural Teaching Program on Nursing Staff Knowledge of Safety Measures Relating The Handling of Chemotherapeutic Drugs. 2 2022
3. The Impact of A Formal Education Program me on Nurses Awareness of Precautions to Take When Administering Chemotherapeutic Medicines. 2 2022
4. A Study to Assess the Perception of Stress among the Caregiver of Mentally Ill Patients 2022
5. A Survey of Tertiary Hospital Security Guards' Perceptions of their Own Stress Level 2022
6. Prevalence and risk factors for depression in patients with chronic renal disease undergoing hemodialysis at a tertiary hospital, Karad 3 2022
7. A study to determine knowledge of COVID 19 among rural area families 2022
8. Effect of covid 19 situation on stress level of Undergraduate Students: a study from Karad 2022
9. Relationship between Academic Performance and Dysmenorrhea among Adolescent Girls: Study from Karad Maharashtra India 2022
10. Nanoparticle engineered photocatalytic paints: a roadmap to self-sterilizing against the spread of communicable diseases 13 2022
11. Mycobacterium tuberculosis Diagnosis with Conventional, Molecular Probe, and Nanobiosensing Techniques 2021
12. Correction: Self-assembly of bovine serum albumin (BSA)–dextran bio-nanoconjugate: structural, antioxidant and in vitro wound healing studies 2021
13. Wound dressing applications of nano-biofilms 4 2021
14. Self-assembly of bovine serum albumin (BSA)–dextran bio-nanoconjugate: 15 2021

structural, antioxidant and in vitro wound healing studies

15. Probiotics and cancer: boosting the immune system 6 2021
16. An Enhanced Space Vector PWM Technique for Neutral Point Balancing in Three-Level NPC Inverter 1 2020
17. Burden Among the Wives of Alcoholics in Selected Rehabilitation Center. 2020
18. Bacterial Detection with Magnetic Nanoparticles 2020
19. Overview of Different Milk and Milk Products Contaminant Detections by Biosensors 1 2020
20. Rapid and size-controlled biosynthesis of cytocompatible selenium nanoparticles by *Azadirachta indica* leaves extract for antibacterial activity 47 2020
21. Energy monitoring system in electric grids: the role of advanced intelligent and IOT for future electric grid 6 2020
22. Structural, Morphological, Magnetic and Self-Heating Studies of One-Step Polyol Synthesized Manganese Ferrite ($MnFe_2O_4$) Nanoparticles 1 2020
23. Knowledge of Primary School Teachers Regarding Learning Disorders among Children at Schools of Satara District. 2020
24. Complete genome sequence of *Lactobacillus plantarum* strain JDARSH, isolated from sheep milk 25 2020
25. Occurrence and Predicators of Peripheral Intravenous catheter Induced Complications At Tertiary Care Hospital 2020
26. Barriers for early mobilization of patients in critical care unit. 2020
27. The origin of novel Corona virus: COVID-19 5 2020
28. Isolation and characterization of *Lactobacillus* species from sheep milk 8 2020
29. Science of nanomaterials 1 2020

30. APTES (3-aminopropyltriethoxy silane) functionalized $MnFe_2O_4$ nanoparticles: a potential material for magnetic fluid hyperthermia 14 2019
31. Evaluation of *Lactobacillus plantarum* growth in milk of Indian buffalo breeds based on its physico-chemical content No 19 2019
32. Does Maternal Diseases and Treatment Acts as Risk Factors for Birth Defect? No 2019
33. A Simulink Model For Three Switch Single Phase Switched Coupled Inductor Inverter for PV System 2019
34. The application of DC borewell with High Step-Up DC-DC Converter By Using Photovoltaic System No 2019
35. Neutral Voltage Balancing Of Three Level Neutral-Clamped Inverter No 2019
36. Hybrid chitosan-ZnO nanoparticles coated with a sonochemical technique on silk fibroin-PVA composite film: A synergistic antibacterial activity 45 2019
37. Use of Probiotics as a Functional Food against Cancer 6 2019
38. *Lactobacillus rhamnosus* ARJD as a functional food with potential antioxidant and antibacterial abilities 16 2019
39. AJ Csian JOURNAL OF CHEMISTRY AJ Csian JOURNAL OF CHEMISTRY 2019
40. Shelf life stability of encapsulated lactic acid bacteria isolated from sheep milk thrived in different milk as natural media 30 2019
41. "Probiotic potential of *Lactobacillus plantarum* with the cell adhesion properties OK 20 2018
42. Valorization of harmful parthenium weed by its conversion into active charcoal 3 2018
43. Multienzymatic cholesterol nanobiosensor using core-shell nanoparticles incorporated silica nanocomposite 11 2018
44. Structural, spectroscopic and anti-microbial inspection of PEG capped ZnO nanoparticles for biomedical applications 17 2018

- 45. Dynamic Voltage Restorer Based on H Bridge Inverter with Non-Linear load 2 2018
- 46. Granules of unistain lactobacillus as nutraceutical antioxidant agent 19 2018
- 47. Comparison between conventional fly-back and interleaved fly-back converter for standalone PV application 3 2018
- 48. Evolution of nanotech assisted PCR diagnosis of Mycobacterium tuberculosis and its assessment with convential methods 3 2018
- 49. ZnO nanoparticle-embedded silk fibroin–polyvinyl alcohol composite film: A potential dressing material for infected wounds 37 2018
- 50. Detection of Mycobacterium tuberculosis from pulmonary sputum sample using SPION mediated DNA extraction method