Name : **Dr. Dinesh M. Patil** (MSc, PhD)

Designation : **Lecturer**

Qualification : **M.Sc., Ph.D.**

Contact No. : **8951692114**

Email id : **Institutional ID**

Date of joining the Institution : **24/06/2024**

Experience :

Teaching	Research
1.5 YEARS	8 YEARS

No. of papers published in Conferences :

International	National	State
07	04	00

No. of papers published in Journals :

International	National	State
08	00	00

Responsibilities Shared in the College:

Awards: 1) Best student award in BSc.
2) Best Poster Award". *Int. Conf. on Nano Engineering Science & Research advances* @ Chikkaballapur, Karnataka India (Sept. 9, 2019).

Grants received for Research:

- **UGC/DST : Completed/Ongoing**
  Title:.
  Grant No.:
  Total Grant:
  Duration:

Memberships of Academic Bodies:

CONFERENCES:

International

Sr No.	Title of the Paper with name of the Conference	Year
1.	**Dinesh Patil**, M. B. Sridhara*, & Jayappa Manjanna*, Resource recycling through urban mining for sustained development: Hydrometallurgical approach. Int. Conf. on Climate Change, Water Resource, Agriculture and Sustainable Development @ Belagavi, Karnataka, India (Dec. 19-21, 2022).	**2022**
2	**Dinesh Patil**, M. B. Sridhara*, & Jayappa Manjanna*, Dissolution of soft magnetic FeSiAl alloy cores from spent printed circuit boards and synthesis of α-Fe_2O_3 nanoparticles for methylene blue dye degradation. Int. Conf. on Frontier Areas of Science and Technology, (ICFAST–2022) @ Hyderabad, Telangana, India (Sept. 9-10, 2022).	**2022**
3	Santosh Chikkamath, **Dinesh Patil**, Anand Kabadagi & Jayappa Manjanna*, Adsorption of Mo and Li on organo-modified Fe-montmorillonite in aqueous medium. *Int. Conf. on Nano Engineering Science & Research Advances* @ Chikkaballapur, Karnataka, India (Sept. 9, **2019**).	**2019**
4	**Dinesh Patil**, Santosh Chikkamath, Anand Kabadagi & Jayappa Manjanna*, Synthesis of PANI/ pTSA-MWCNT nanocomposites and its application in the removal of methylene blue dye from waste water. "**Best Poster Award**". *Int. Conf. on Nano Engineering Science & Research Advances* @ Chikkaballapur, Karnataka India (Sept. 9, **2019).**	**2019**
5	Jayappa Manjanna*, **Dinesh Patil**& G.P. Nayaka, Environmentally benign hydrometallurgical process to recover Co & Li from spent Li-ion batteries. *Int. Conf. on Nano Engineering Science & Research Advances* @ Chikkaballapur, Karnataka India (Sept. 9, **2019**).	**2019**
6	Santosh Chikkamath, **Dinesh Patil**, Anand Kabadagi, Vaidehi Tripathi & Jayappa Manjanna*, Mo separation from simulated high level liquid waste using organic solvents.♠*Int. Conf. on Advancement in Science & Technology,* @ Visva-Bharati, Santiniketan, Kolkata, India (Sept. 3-4, **2018**).	**2018**

7	**Dinesh Patil**, Manjula Karidemannavar, Pooja Gurav, Shweta Kesappanatti, Anand Kabadagi & Jayappa Manjanna***,** Oxidative leaching of Li from cathode material of spent Li-ion batteries and adsorption of Li on different nanomaterials.*Int. Conf. on Crystal Ball Vision on Science & Engineering for Societal Upliftment@* CSIR, Goa, India (Aug. 7-8, **2017**).	**2017**

National

Sr No.	Title of the Paper with name of the Conference	Year
1.	**Dinesh Patil**, M. B. Sridhara*, & Jayappa Manjanna*, Synthesis of Fe_3O_4 nanoparticles from FeSiAl alloy of spent PCB and its application in dye degradation. Nat. Conf. on Adv. in Ana. Tech. for Mat. and Bio-Med. Appl. (AATMAABIMAAN –2022) @ Belagavi, Karnataka, India (Dec. 15-16, 2022).	**2022**
2	Jayappa Manjanna*, **Dinesh Patil**& G.P. Nayaka, Recovery of Co and Li from cathode materials of spent Li-ion batteries towards the resources recycling. *DAE-BRNS 7th interdisciplinary symposium on material chemistry* @ Mumbai, India (Dec. 4-8, **2018**).	**2018**
3	**Dinesh Patil**, Santosh Chikkamath,& Jayappa Manjanna*, Backend Technology for Li-ion Battery: Recovery of Valuable Metals. *Nat. Conf. on Innovations in Chemical Sciences* (NCICS-2020) @ Mysuru, Karnataka, India (Jan. 30-31, **2020**).	**2020**
4	**Dinesh Patil**, Santosh Chikkamath, Sangita Keny, Vaidehi Tripathi & Jayappa Manjanna*, Microwave-assisted rapid dissolution of spent cathode material $LiCoO_2$ using mild organic acids mixture and precipitation of metal ions. *Nat. Conf. on Adv. Li-ion batteries: Sci. and tech.* @ IISc, Bengaluru, (Dec. 27-28, **2019**).	**2019**

Publications List:

International Journals:

Sr No.	Title and Publication	Year
1.	**Patil, D.,** Chikkamath, S., Keny, S., Tripathi, V., Manjanna, J. Rapid dissolution and recovery of Li and Co from spent $LiCoO_2$ using mild organic acids under microwave irradiation. *Journal of Environmental Management 256 (2020) 109935*	**2020**
2.	**Patil, D.,** Sridhara, M.B., Manjanna, J., Nayaka, G.P., Sabale, S. Synthesis of α-Fe_2O_3 nanoparticles from soft magnetic FeSiAl alloy cores of spent printed circuit boards and their application in visible-light-driven degradation of methylene blue dye. *Ceramics International 48(23) (2022) 35848-35859*	**2022**
3.	**Patil, D.,** Sridhara M.B., Manjanna, J., Sabale, S. Fe_3O_4 nanoparticles from FeSiAl alloy of spent PCB and its application in dye degradation. *Iranian Journal of Catalysis 13 (2), (2023), 157-167*	**2023**
4.	**Patil, D.,** Manjanna, J., Chikkamath, S., Uppar, V., Chougala M. Facile synthesis of stable Cu and CuO particles for 4-nitrophenol reduction, methylene blue photodegradation and antibacterial activity. *Journal of Hazardous Materials Advances 4 (2021) 100032*	**2021**
5	**Patil, D.,** Chandrashekar, K. T., Manjanna, J., Sridhara M.B. Synthesis of Ag-Ag_2O nanoparticles using Ageratum conyzoides leaf extract for the catalytic reduction of nitrobenzene and methylene blue and antibacterial applications *Iranian Journal of Catalysis 13 (1) (2023), 47-56*	**2023**
6	Chikkamath, S., **Patil, D.,** Kabadagi, A., Tripathi, V., Kar, A., Manjanna, J.	**2019**

	Recovery of molybdenum by solvent extraction from simulated high level liquid waste. *Journal of Radioanalytical and Nuclear Chemistry, 321(3) (2019) 1027-1034*	
7	Chikkamath, S., Manjanna, J., Kabadagi, A., **Patil, D.,** Tripathi, V., Kar, A., Tomar, B. Gamma (^{60}Co) irradiation and thermal effect on redox behavior of interlayer iron in montmorillonite. *Applied Clay Science, 200 (2020) 105893*	**2020**
8	Shaila, G.S., **Patil, D**., Monin, N., Manjanna, J. Electrochemical detection of Hydroxychloroquine Sulphate drug using CuO/GO nanocomposites modified carbon paste electrode and its photocatalytic degradation. *Journal of the Korean electrochemical society, 27(1), 15-3, (2023).*	**2023**

National Journals:

Sr No.	Title and Publication	Year
1.		