

List of Publications

Journal Publication

- **Zeenat Arif**, Naresh K. Sethy, P. K. Mishra, B. Verma, Study on thermo-kinetic modeling of green route synthesized inorganic loading on PVDF membrane for Cr(VI) removal and its optimization. *Journal of Polymer Research* 27(2020)257
- **Zeenat Arif**, Naresh K. Sethy, P. K. Mishra, B. Verma, Development of Eco-friendly, self-cleaning, antibacterial membrane for the elimination of chromium (VI) from tannery wastewater. *International Journal of Environmental Science and Technology*. 17 (2020) 4265-4280
- **Zeenat Arif**, Naresh K. Sethy, P. K. Mishra, B. Verma, Green approach for the synthesis of ultrafiltration photocatalytic membrane for tannery wastewater: Modeling and optimization. *International Journal of Environmental Science and Technology*. [Accepted, 2020] <https://doi.org/10.1007/s13762-020-02719-8>
- Naresh K. Sethy, **Zeenat Arif**, P. K. Mishra, Pradeep Kumar, Nanocomposite film with green synthesized TiO₂ nanoparticles and hydrophobic polydimethylsiloxane polymer: synthesis, characterization, and antibacterial test. *Journal of Polymer Engineering* (2020) 211-220.
- Naresh K. Sethy, **Zeenat Arif**, P. K. Mishra, Pradeep Kumar Green synthesis of TiO₂ nanoparticles from *Syzygium cumini* extract for photo-catalytic removal of lead (Pb) in explosive industrial wastewater. *Green Processing and Synthesis* (2020) 171-181.
- Naresh K. Sethy, **Zeenat Arif**, P. K. Mishra, Pradeep Kumar, Synthesis of SiO₂ nanoparticle from bamboo leaf and incorporated in PDMS membrane to enhance its separation properties. *Journal of Polymer Engineering* 39(7) (2019) 679-687
- **Zeenat Arif**, Naresh K. Sethy, Lata Kumari, P. K. Mishra, B. Verma, Green Synthesis of TiO₂ nanoparticle using *Cajanus cajan* extract and their Use in Controlling the Fouling of Ultrafiltration PVDF Membranes. *Korean Journal of Chemical Engineering* (2019) 36(7):1148-1156
- **Zeenat Arif**, Naresh K. Sethy, Lata Kumari, P. K. Mishra, B. Verma, Development of antimicrobial and anti-fouling nanocomposite membranes by a phase inversion technique. *Journal of Polymer Engineering* [Accepted 2019] (10.1515/polyeng-2019-0007)

- **Zeenat Arif**, Naresh K. Sethy, Lata Kumari, P. K. Mishra, B. Verma, Antifouling Behaviour of PVDF/TiO₂ Composite Membrane: A Quantitative and Qualitative Assessment. Iranian Polymer Journal (2019) 28:301-312
- **Zeenat Arif**, Naresh K. Sethy, P. K. Mishra, S. N. Upadhayay, B. Verma, Swelling and sorption behavior of PVA and PVA/silica nanocomposite membrane at different silica loadings. Indian Journal of Chemical technology (2019) 26:44-51
- **Zeenat Arif**, Naresh K. Sethy, P. K. Mishra, S. N. Upadhayay, B. Verma, “ Investigating the influence of sol gel derived PVA/SiO₂ nano composite membrane on pervaporation separation of azeotropic mixture I. Effect of operating condition”. Journal of Porous Materials (2018) 25: 1203-1211
- **Zeenat Arif**, “A Concise review on controlled drug release devices: Models, Delivery Devices”. The Pharmstudent 27(2016):79-91

Conference Proceedings

- **Zeenat Arif**, P.K.Mishra, B.Verma. “Correlation Between Silica Loading and Pervaporation Permeability of PVA/Silica Hybrid Membrane For Separation Of An Alcohol-Water Mixture”, International Journal of Research in Science & Engineering, CHEMCON Special Issue: March 2018, e-ISSN: 2394-8299 p-ISSN: 2394-8280.

Book Chapter Publication

- **Zeenat Arif**, Naresh K. Sethy, P. K. Mishra “Impact on groundwater quality resources due to Industrial effluent”. Groundwater Geochemistry: Pollution and Remediation. Wiley (accepted 2020).
- **Zeenat Arif**, Naresh K. Sethy, Swati, P. K. Mishra, B. Verma “Grossly Polluting Industries And Its Effect On Water Resources In India”. Pollutants and Water Management: Resources, Strategies and Scarcity, Wiley (accepted 2020).
- Naresh K. Sethy, **Zeenat Arif**, K S Sista, P. K. Mishra, Avanish K Kushwaha “Advancement in membrane technology used in wastewater treatment process”. Pollutants and Water Management: Resources, Strategies and Scarcity, Wiley (accepted 2020).
- Naresh K. Sethy, **Zeenat Arif**, K S Sista, Pradeep Kumar, P. K. Mishra, Rajesh Saha “Zero Valent Iron (ZVI) for groundwater remediation”. Groundwater Geochemistry: Pollution and Remediation, Wiley (accepted 2020).
- **Zeenat Arif**, Naresh K. Sethy, Lata Kumari, P. K. Mishra Recent advances in functionalized polymer-based composite photocatalysts for wastewater treatment.

Nano-Materials as Photocatalysts for Degradation of Environmental Pollutants. Elsevier <https://doi.org/10.1016/B978-0-12-818598-8.00003-1>

- **Zeenat Arif**, P.K.Mishra, and S.N.Upadhyay. “Drug Delivery: Polymers and Polymeric Membranes”, Encyclopedia of Polymer Applications, First Edition, Taylor & Francis. (DOI: 10.1201/9781351019422-140000358).
- Shilpa Narang, **Zeenat Arif**, P.K. Mishra, and S.N. Upadhyay, Rajeev Mehta. “Polymers and Polymeric Membranes”. Encyclopedia of Polymer Applications, First Edition, Taylor & Francis (DOI: 10.1201/9781351019422-140000310).