List of Publications

Journal Publication

I. **Naresh K. Sethy**, Zeenat Arif, P. K. Mishra, Pradeep Kumar Green synthesis of TiO_2 nanoparticles from *Syzygium cumini* extract for photo-catalytic removal of lead (Pb) in explosive industrial wastewater. Green Processing and Synthesis (2020) 171-181.

II. **Naresh K. Sethy**, Zeenat Arif, P. K. Mishra, Pradeep Kumar, Nanocomposite film with green synthesized TiO_2 nanoparticles and hydrophobic polydimethylsiloxane polymer: synthesis, characterization, and antibacterial test. Journal of Polymer Engineering (2020) 211-220.

III. **Naresh K. Sethy**, Zeenat Arif, P. K. Mishra, Pradeep Kumar, Synthesis of SiO_2 nanoparticle from bamboo leaf and incorporated in PDMS membrane to enhance its separation properties. Journal of Polymer Engineering 39(7) (2019) 679-687

IV. 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

V. 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

VI. 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

VII. Zeenat Arif, **Naresh K. Sethy**, Lata Kumari, P. K. Mishra, B. Verma, Green Synthesis of TiO_2 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

VIII. 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)

IX. Zeenat Arif**, Naresh K. Sethy**, Lata Kumari, P. K. Mishra, B. Verma, Antifouling Behaviour of PVDF/TiO_2 Composite Membrane: A Quantitative and Qualitative Assessment. Iranian Polymer Journal (2019) 28:301-312.

X. 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

XI. Zeenat Arif, **Naresh K. Sethy**, P. K. Mishra, S. N. Upadhayay, B. Verma, " Investigating the influence of sol gel derived PVA/SiO_2 nano composite membrane on pervaporation separation of azeotropic mixture I. Effect of operating condition". Journal of Porous Materials (2018) 25: 1203-1211

Book Chapter Publication

I. **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).

II. **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).

III. 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).

IV. 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).

V. 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.