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List of Publications

Published

1. “**Kaustubh Naik**, Priyanka Singh, Monika Yadav, Saurabh Kr Srivastava, Shikha Tripathi, Rahul Ranjan, Prodyut Dhar, Anita Kamra Verma, Shilpi Chaudhary, Avanish Singh Parmar (2023) *3D Printable, injectable Amyloid-based composite Hydrogel of Bovine Serum Albumin-Aloe Vera for Rapid Diabetic Wound Healing*. **Journal of Materials Chemistry B (Featured in Cover Page)**
2. **Kaustubh Naik**, Shilpi Chaudhary, Lei Ye, Avanish Singh Parmar (2022) *A Strategic Review on Carbon Quantum Dots for Cancer-Diagnostics and Treatment*. **Frontiers in Bioengineering and Biotechnology**
3. Kshama Rai, Kanchan Yadav, Megha Das, Shilpi Chaudhary, **Kaustubh Naik**, Priya Singh, Ashutosh Kumar Dubey, Sanjeev Kumar Yadav, Shashi Bhushan Agrawal, Avanish Singh Parmar* (2023) *Effect of carbon quantum dots derived from extracts of UV-B-exposed Eclipta alba on alcohol-induced liver cirrhosis in Golden Hamster*. **Photochemical & Photobiological Sciences**
4. Rahul Ranjan, Rohit Rai, **Kaustubh Naik**, Avanish Singh Parmar, Prodyut Dhar (2024) *Scalable phosphorylated cellulose production with improved environmental sustainability, crosslinkability and processability using 3D bioprinting for dye remediation*. **International Journal of Biological Macromolecules**
5. Rahul Ranjan **Kaustubh Naik**, Avanish Singh Parmar Prodyut Dhar *In-situ Growth of MoS₂ on 3D Printed Phosphorylated Cellulose for Simultaneous Dye Degradation and Microbial Inactivation Cellulose* **Cellulose (Under revision)**
6. Gupta Pranshu Kumar, Neeraj; **Naik Kaustubh** Parmar, Avanish Singh RANGANATH, KALLURI *NiO Nanomaterial Functionalized with Organic Gel Molecules for Heterogeneous Asymmetric Catalysis* **ACS Applied Nanomaterials**

Under Review

7. **Kaustubh Naik**, Anastasia S. Vanina , Saurabh Kumar Srivastava , Alexander V. Sychev , Eugene B. Postnikov, Avanish Singh Parmar *Shear rheology of a fish collagen-based hydrogel considered as a brain tissue phantom*. **ACS Langmuir (Under revision)**
8. **Kaustubh Naik**, Shikha Tripathi, Rahul Ranjan, Somesh Agrawal, Saurabh Kr Srivastava, Md Zeyauallah, Prodyut Dhar, Priya Vashisth, Kanhaiya Singh, Vinod Tiwari, Avanish Singh Parmar *Self-Assembled Bioactive Protein-based*

Patents

1. A composite hydrogel composition and a method of preparation thereof

Application File number: 202311009955 Inventors: Kaustubh Naik, Avanish Singh Parmar

2. A composition of wound dressing and a method of preparation thereof

Application File number: 202413001238 Inventors: Kaustubh Naik, Shikha, Avanish Singh Parmar

2.5 Conference/Workshop Attended during PhD.

1. ACS Fall 2024, Denver USA (Oral Presentation)
2. International Conference on Materials for Advanced Technologies (ICMAT) 2023, Singapore
3. Advanced Materials for Better Tomorrow (AMBT), BHU, Varanasi 2023 (Oral Presentation)
4. Nanotechnology for Better Living (NBL) 2023, NIT Srinagar (Oral Presentation)
5. International Conference on Biomaterials, Regenerative Medicine, and Devices (Bio-Remedi) IIT Guwahati 2022, (Oral Presentation)
6. Smart Materials for Sustainable Technology (SMST) 2022 IIT Bombay
7. International conference on Emerging Trends in Science and Technology (ICETST) 2022, PEC Chandigarh (Oral Presentation)

