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List of Publications (Last 5 years)

- 1. Gelatin-carrageenan hydrogels: Role of pore size distribution on drug delivery process J. S. Varghese, C. Nisha, **N. Nishad Fathima** Colloids Surf. B, 2014, **113**, 346–351.
- 2. Elucidation of hydration dynamics of locust bean gum-collagen composites by impedance and thermoporometry Ivy Kanungo, **N. Nishad Fathima**, J.R. Rao, B.U. Nair Carbohydrate Polymers 2014, **103**, 250–260.
- 3. Effect of Ionic liquids on different hierarchical order of type I collagen Ami Mehta, J.R. Rao, **N. Nishad Fathima** Colloids Surf. B, 2014, 117, 376–382.
- 4. Analysis of variations in porosity of metal cross-linked collagen matrix M. Sathish, J.R. Rao, N. Nishad Fathima J. Appl. Polym. Sci. 2014, 131, 40835-40848.
- 5. Can green solvents be alternatives for thermal stabilization of collagen? Ami Mehta, J.R. Rao, **N. Nishad Fathima** Int. J. Biol. Macromol. 2014, 69, 361–368.
- 6. Solving vein marks defects problem through wet end process K. Gowthaman, S. Vikram, **N. Nishad Fathima**, J. Raghava Rao J. Am. Leather Chem. Assoc. 2014, **109**, 278-283.
- 7. Porosity and Dielectric Properties as Tools to Predict Drug Release Trends from Hydrogels Selestin Raja I, **N. Nishad Fathima** SpringerPlus 2014, **3**, 393-403.
- 8. Cool glove leathers made using thermoresponsive syntans A. Jaya Prakash, M. Ragul, J. R. Rao, N. Nishad Fathima J. Am. Leather Chem. Assoc. 2014, 109, 411-417.
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- Microfabrication of Gelatin-Polycaprolactone Composites for Customized Drug Delivery Ivy Kanungo, C. Nisha, N. Nishad Fathima Mat. Sci. Eng. C, 2015, 49, 597-603.
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- 14. A gelatin based antioxidant enriched biomaterial by grafting and saturation: towards sustained drug delivery from antioxidant matrix Selestin Raja I, **N. Nishad Fathima** Colloids Surf. B 2015, **128**, 537–543.
- 15. Ionic liquids: New age materials for eco-friendly leather processing GC Jayakumar, Ami Mehta, JR Rao, **N. Nishad Fathima** RSC Advances 2015, **5**, 31998 32005.
- 16. Development of smart leathers: Incorporating scent through infusion of encapsulated Lemongrass oil V. Punitha, **N. Nishad Fathima**, Geetha Basker, Aruna Dhathathreyan, JR Rao RSC Advances 2015, **5**, 59903-59911.
- 17. Effect of Finishing Auxiliaries on Permeability of Leathers: Part-1 M Sathish, Z Mohammad Jamal Azhar, **N. Nishad Fathima**, JR Rao J. Am. Leather Chem. Assoc. 2015, **110**, 372-378.
- 18. Electrostatic forces mediated by choline dihydrogen phosphate stabilizes collagen Ami Mehta, JR Rao, **N Nishad Fathima** J. Phys. Chem. B 2015, **119**, 12816-12827.
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- 30. Integrated depilation and fiber opening using ionic liquid for leather processing A Jaya Prakash, JR Rao, **N Nishad Fathima** ACS Sustain. Chem. Eng. 2017, **5**, 8610–8618.

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- 32. Complete replacement of carbon black filler in rubber sole with CaO embedded activated carbon derived from tannery solid waste P Yuvaraj, JR Rao, N Nachimuthu, R Mohan, **N. Nishad Fathima** J. Cleaner Prod. 2018, **170**, 446-450.
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- 34. Impact of Ionic Liquids on the Structure and Dynamics of Collagen Aafiya Tarannum, Alina Adams, Bernhard Bluemich, **N. Nishad Fathima** J. Phys. Chem. B 2018, **122**, 1060–1065.
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