

## Publications

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S.No	Publication Details
1	<p><b>Title:</b> Probing visible light induced photochemical stabilization of collagen in green solvent medium</p> <p><b>Author(s):</b> Nagaraj, S (Nagaraj, S.); Easwaramoorthi, S (Easwaramoorthi, S.); Rao, JR (Rao, J. Raghava); <b>Thanikaivelan, P</b> (Thanikaivelan, P.)</p> <p><b>Source:</b> INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES Volume: 131 Pages: 779-786 DOI: 10.1016/j.ijbiomac.2019.03.109 Published: JUN 15 2019</p>
2	<p><b>Title:</b> Prodigiosin-Iron-Oxide-Carbon Matrix for Efficient Antibiotic-Resistant Bacterial Disinfection of Contaminated Water</p> <p><b>Author(s):</b> Arivizhivendhan, KV (Arivizhivendhan, K. V.); Mahesh, M (Mahesh, M.); Murali, R (Murali, R.); Mary, RR (Mary, R. Regina); <b>Thanikaivelan, P</b> (Thanikaivelan, P.); Sekaran, G (Sekaran, G.)</p> <p><b>Source:</b> ACS SUSTAINABLE CHEMISTRY &amp; ENGINEERING Volume: 7 Issue: 3 Pages: 3164-3175 DOI: 10.1021/acssuschemeng.8b05010 Published: FEB 4 2019</p>
3	<p><b>Title:</b> A review on injectable chitosan/beta glycerophosphate hydrogels for bone tissue regeneration</p> <p><b>Author(s):</b> Saravanan, S (Saravanan, Sekaran); Vimalraj, S (Vimalraj, Selvaraj); <b>Thanikaivelan, P</b> (Thanikaivelan, Palanisamy); Banudevi, S (Banudevi, Sivanantham); Manivasagam, G (Manivasagam, Geetha)</p> <p><b>Source:</b> INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES Volume: 121 Pages: 38-54 DOI: 10.1016/j.ijbiomac.2018.10.014 Published: JAN 2019</p>
4	<p><b>Title:</b> Synergy of Organic Nanoclay and Inorganic Phosphates for Fire Retardant Leather Applications</p> <p><b>Author(s):</b> Wegene, JD (Wegene, Jima Demisie); <b>Thanikaivelan, P</b> (Thanikaivelan, Palanisamy)</p> <p><b>Source:</b> JOURNAL OF THE AMERICAN LEATHER CHEMISTS ASSOCIATION Volume: 113 Issue: 11 Pages: 371-379 Published: NOV 2018</p>

5	<p><b>Title:</b> Nitrogen-rich carbon nano-onions for oxygen reduction reaction</p> <p><b>Author(s):</b> Chatterjee, K (Chatterjee, Kuntal); Ashokkumar, M (Ashokkumar, Meiyazhagan); Gullapalli, H (Gullapalli, Hemtej); Gong, YJ (Gong, Yongji); Vajtai, R (Vajtai, Robert); <b>Thanikaivelan, P</b> (Thanikaivelan, Palanisamy); Ajayan, PM (Ajayan, Pulickel M.)</p> <p><b>Source:</b> CARBON Volume: 130 Pages: 645-651 DOI: 10.1016/j.carbon.2018.01.052 Published: APR 2018</p>
6	<p><b>Title:</b> Non-polar Medium Enables Efficient Chrome Tanning</p> <p><b>Author(s):</b> <b>Thanikaivelan, P</b> (Thanikaivelan, Palanisamy); Silambarasan, S (Silambarasan, Selvaraj); Aravindhan, R (Aravindhan, Rathinam); Rao, JR (Rao, Jonnalagadda Raghava)</p> <p><b>Source:</b> JOURNAL OF THE AMERICAN LEATHER CHEMISTS ASSOCIATION Volume: 112 Issue: 10 Pages: 338-346 Published: OCT 2017</p>
7	<p><b>Title:</b> Highly clean and efficient enzymatic dehairing in green solvents</p> <p><b>Author(s):</b> Aravindhan, R (Aravindhan, Rathinam); Monika, V (Monika, Venkatachalam); Balamurugan, K (Balamurugan, Kanagasabai); Subramanian, V (Subramanian, Venkatesan); Rao, JR (Rao, Jonnalagadda Raghava); <b>Thanikaivelan, P</b> (Thanikaivelan, Palanisamy)</p> <p><b>Source:</b> JOURNAL OF CLEANER PRODUCTION Volume: 140 Pages: 1578-1586 DOI: 10.1016/j.jclepro.2016.09.211 Part: 3 Published: JAN 1 2017</p>
8	<p><b>Title:</b> Three-Dimensional Porous Sponges from Collagen Biowastes</p> <p><b>Author(s):</b> Ashokkumar, M (Ashokkumar, Meiyazhagan); Chipara, AC (Chipara, Alin Cristian); Narayanan, NT (Narayanan, Narayanan Tharangattu); Anumary, A (Anumary, Ayyappan); Sruthi, R (Sruthi, Radhakrishnan); <b>Thanikaivelan, P</b> (Thanikaivelan, Palanisamy); Vajtai, R (Vajtai, Robert); Mani, SA (Mani, Sendurai A.); Ajayan, PM (Ajayan, Pulickel M.)</p> <p><b>Source:</b> ACS APPLIED MATERIALS &amp; INTERFACES Volume: 8 Issue: 23 Pages: 14836-14844 DOI: 10.1021/acsami.6b04582 Published: JUN 15 2016</p>
9	<p><b>Title:</b> Highly biocompatible collagen-Delonix regia seed polysaccharide hybrid scaffolds for antimicrobial wound dressing</p> <p><b>Author(s):</b> Cheirmadurai, K (Cheirmadurai, Kalirajan); <b>Thanikaivelan, P</b> (Thanikaivelan, Palanisamy); Murali, R (Murali, Ragothaman)</p> <p><b>Source:</b> CARBOHYDRATE POLYMERS Volume: 137 Pages: 584-593 DOI: 10.1016/j.carbpol.2015.11.015 Published: FEB 10 2016</p>
10	<p><b>Title:</b> Glycine functionalized alumina nanoparticles stabilize collagen in ethanol medium</p> <p><b>Author(s):</b> Prabhu, S (Prabhu, S.); Cheirmadurai, K (Cheirmadurai, K.); Rao, JR (Rao, J. Raghava); <b>Thanikaivelan, P</b> (Thanikaivelan, P.)</p> <p><b>Source:</b> BULLETIN OF MATERIALS SCIENCE Volume: 39 Issue: 1 Pages: 223-228 DOI: 10.1007/s12034-015-1126-2 Published: FEB 2016</p>

11	<p><b>Title:</b> Biomimetic hybrid porous scaffolds immobilized with platelet derived growth factor-BB promote cellularization and vascularization in tissue engineering</p> <p><b>Author(s):</b> Murali, R (Murali, Ragothaman); Ponrasu, T (Ponrasu, Thangavel); Cheirmadurai, K (Cheirmadurai, Kalirajan); <b>Thanikaivelan, P</b> (Thanikaivelan, Palanisamy)</p> <p><b>Source:</b> JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A Volume: 104 Issue: 2 Pages: 388-396 DOI: 10.1002/jbm.a.35574 Published: FEB 2016</p>
12	<p><b>Title:</b> Melatonin in functionalized biomimetic constructs promotes rapid tissue regeneration in Wistar albino rats</p> <p><b>Author(s):</b> Murali, R (Murali, Ragothaman); <b>Thanikaivelan, P</b> (Thanikaivelan, Palanisamy); Cheirmadurai, K (Cheirmadurai, Kalirajan)</p> <p><b>Source:</b> JOURNAL OF MATERIALS CHEMISTRY B Volume: 4 Issue: 35 Pages: 5850-5862 DOI: 10.1039/c6tb01221c Published: 2016</p>
13	<p><b>Title:</b> Bionic, porous, functionalized hybrid scaffolds with vascular endothelial growth factor promote rapid wound healing in Wistar albino rats</p> <p><b>Author(s):</b> Murali, R (Murali, Ragothaman); <b>Thanikaivelan, P</b> (Thanikaivelan, Palanisamy)</p> <p><b>Source:</b> RSC ADVANCES Volume: 6 Issue: 23 Pages: 19252-19264 DOI: 10.1039/c5ra27571g Published: 2016</p>
14	<p><b>Title:</b> Magnetic leathers</p> <p><b>Author(s):</b> <b>Thanikaivelan, P</b> (Thanikaivelan, P.); Murali, R (Murali, R.); Krishnaraj, K (Krishnaraj, K.)</p> <p><b>Source:</b> RSC ADVANCES Volume: 6 Issue: 8 Pages: 6496-6503 DOI: 10.1039/c5ra21909d Published: 2016</p>