Jukka V Seppälä

List of Publications by Year in descending order

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Ιιικκλ V Seddãæãæ

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A Fast Method to Produce Strong NFC Films as a Platform for Barrier and Functional Materials. ACS Applied Materials & Interfaces, 2013, 5, 4640-4647. | 4.0 | 270 |
| 2 | Preparation of poly(ε-caprolactone)-based tissue engineering scaffolds by stereolithography. Acta Biomaterialia, 2011, 7, 3850-3856. | 4.1 | 263 |
| 3 | Stable, self-healing hydrogels from nanofibrillated cellulose, poly(vinyl alcohol) and borax via reversible crosslinking. European Polymer Journal, 2014, 56, 105-117. | 2.6 | 250 |
| 4 | Graphene/cellulose nanocomposite paper with high electrical and mechanical performances. Journal of Materials Chemistry, 2011, 21, 13991. | 6.7 | 240 |
| 5 | Enhanced mechanical and electrical properties of polyimide film by graphene sheets via in situ polymerization. Polymer, 2011, 52, 5237-5242. | 1.8 | 213 |
| 6 | Biodegradable and bioactive porous scaffold structures prepared using fused deposition modeling. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 610-619. | 1.6 | 198 |
| 7 | Free radical graft copolymerization of nanofibrillated cellulose with acrylic monomers. Carbohydrate Polymers, 2011, 84, 1039-1047. | 5.1 | 161 |
| 8 | Synthesis of polylactides in the presence of co-initiators with different numbers of hydroxyl groups. Polymer, 2001, 42, 7541-7549. | 1.8 | 146 |
| 9 | Flocculation of microfibrillated cellulose in shear flow. Cellulose, 2012, 19, 1807-1819. | 2.4 | 144 |
| 10 | Effect of Moisture on Electrospun Nanofiber Composites of Poly(vinyl alcohol) and Cellulose Nanocrystals. Biomacromolecules, 2010, 11, 2471-2477. | 2.6 | 138 |
| 11 | Development of nanocellulose scaffolds with tunable structures to support 3D cell culture. Carbohydrate Polymers, 2016, 148, 259-271. | 5.1 | 116 |
| 12 | Processable polyaniline suspensions through in situ polymerization onto nanocellulose. European Polymer Journal, 2013, 49, 335-344. | 2.6 | 107 |
| 13 | Flocculated flow of microfibrillated cellulose water suspensions: an imaging approach for characterisation of rheological behaviour. Cellulose, 2012, 19, 647-659. | 2.4 | 103 |
| 14 | Three-dimensional fabrication of cell-laden biodegradable poly(ethylene glycol-co-depsipeptide) hydrogels by visible light stereolithography. Journal of Materials Chemistry B, 2015, 3, 8348-8358. | 2.9 | 99 |
| 15 | Cross-Linked Poly(-caprolactone/D,L-lactide) Copolymers with Elastic Properties. Macromolecular Chemistry and Physics, 2002, 203, 2630-2639. | 1.1 | 89 |
| 16 | Polymeric drug delivery systems by additive manufacturing. Advanced Drug Delivery Reviews, 2021, 173, 349-373. | 6.6 | 86 |
| 17 | Porous 3D modeled scaffolds of bioactive glass and photocrosslinkable poly(Îμ-caprolactone) by stereolithography. Composites Science and Technology, 2013, 74, 99-106. | 3.8 | 85 |
| 18 | Surface functionalization of nanofibrillated cellulose using click-chemistry approach in aqueous media. Cellulose, 2011, 18, 1201. | 2.4 | 83 |

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|----|--|-----|-----------|
| 19 | Nanofibrillated cellulose/carboxymethyl cellulose composite with improved wet strength. Cellulose, 2013, 20, 1459-1468. | 2.4 | 71 |
| 20 | Aligned Chitosan-Gelatin Cryogel-Filled Polyurethane Nerve Guidance Channel for Neural Tissue Engineering: Fabrication, Characterization, and In Vitro Evaluation. Biomacromolecules, 2019, 20, 662-673. | 2.6 | 69 |
| 21 | Functional Graphene by Thiolâ€ene Click Chemistry. Chemistry - A European Journal, 2015, 21, 3183-3186. | 1.7 | 66 |
| 22 | Electrically conductive nanocellulose/graphene composites exhibiting improved mechanical properties in high-moisture condition. Cellulose, 2015, 22, 1799-1812. | 2.4 | 64 |
| 23 | Biomimetic Photocurable Three-Dimensional Printed Nerve Guidance Channels with Aligned Cryomatrix Lumen for Peripheral Nerve Regeneration. ACS Applied Materials & Interfaces, 2018, 10, 43327-43342. | 4.0 | 62 |
| 24 | The effect of wall depletion on the rheology of microfibrillated cellulose water suspensions by optical coherence tomography. Cellulose, 2014, 21, 1261-1275. | 2.4 | 61 |
| 25 | Effect of cationic polymethacrylates on the rheology and flocculation of microfibrillated cellulose. Cellulose, 2011, 18, 1381-1390. | 2.4 | 59 |
| 26 | Synthesis and characterization of castor oil-segmented thermoplastic polyurethane with controlled mechanical properties. European Polymer Journal, 2016, 81, 129-137. | 2.6 | 59 |
| 27 | Synthesis, characterization and crosslinking of functional star-shaped poly(ε-caprolactone). Polymer International, 2002, 51, 92-100. | 1.6 | 58 |
| 28 | Network formation of nanofibrillated cellulose in solution blended poly(methyl methacrylate) composites. Carbohydrate Polymers, 2013, 91, 183-190. | 5.1 | 56 |
| 29 | Structure modification and crosslinking of methacrylated polylactide oligomers. Journal of Applied Polymer Science, 2002, 86, 3616-3624. | 1.3 | 52 |
| 30 | Degradable Polyesters through Chain Linking for Packaging and Biomedical Applications. Macromolecular Bioscience, 2004, 4, 208-217. | 2.1 | 52 |
| 31 | Crosslinked nanofibrillated cellulose: poly(acrylic acid) nanocomposite films; enhanced mechanical performance in aqueous environments. Cellulose, 2013, 20, 2991-3005. | 2.4 | 52 |
| 32 | Crosslinked poly(ester anhydride)s based on poly(ε-caprolactone) and polylactide oligomers. Journal of Polymer Science Part A, 2003, 41, 3788-3797. | 2.5 | 50 |
| 33 | Direct ink writing of aloe vera/cellulose nanofibrils bio-hydrogels. Carbohydrate Polymers, 2021, 266, 118114. | 5.1 | 50 |
| 34 | Effect of interfibrillar PVA bridging on water stability and mechanical properties of TEMPO/NaClO2 oxidized cellulosic nanofibril films. Carbohydrate Polymers, 2015, 126, 78-82. | 5.1 | 48 |
| 35 | Modification of dextran using click-chemistry approach in aqueous media. Carbohydrate Polymers, 2010, 82, 78-82. | 5.1 | 45 |
| 36 | Synthesis and evaluation of partly fluorinated polyelectrolytes as components in 19F MRI-detectable nanoparticles. Polymer Chemistry, 2010, 1, 1039. | 1.9 | 45 |

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|----|---|-----|-----------|
| 37 | Fabrication of graphene-based 3D structures by stereolithography. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 982-985. | 0.8 | 45 |
| 38 | Low surface area graphene/cellulose composite as a host matrix for lithium sulphur batteries. Journal of Power Sources, 2014, 254, 55-61. | 4.0 | 44 |
| 39 | Selfâ€Assembly of Amphiphilic Janus Dendrimers into Mechanically Robust Supramolecular Hydrogels for Sustained Drug Release. Chemistry - A European Journal, 2015, 21, 14433-14439. | 1.7 | 43 |
| 40 | Fabrication of Polylactideâ€Based Biodegradable Thermoset Scaffolds for Tissue Engineering Applications. Macromolecular Materials and Engineering, 2013, 298, 45-52. | 1.7 | 42 |
| 41 | 3D scaffolding of fast photocurable polyurethane for soft tissue engineering by stereolithography: Influence of materials and geometry on growth of fibroblast cells. European Polymer Journal, 2020, 139, 109988. | 2.6 | 39 |
| 42 | Nanofibrillated cellulose, poly(vinyl alcohol), montmorillonite clay hybrid nanocomposites with superior barrier and thermomechanical properties. Polymer Composites, 2014, 35, 1117-1131. | 2.3 | 38 |
| 43 | Composite films of nanofibrillated cellulose and O-acetyl galactoglucomannan (GGM) coated with succinic esters of GGM showing potential as barrier material in food packaging. Journal of Materials Science, 2015, 50, 3189-3199. | 1.7 | 38 |
| 44 | Selective Laser Sintering of Lignin-Based Composites. ACS Sustainable Chemistry and Engineering, 2021, 9, 2727-2735. | 3.2 | 36 |
| 45 | Ascorbic acid-loaded polyvinyl alcohol/cellulose nanofibril hydrogels as precursors for 3D printed materials. Materials Science and Engineering C, 2021, 130, 112424. | 3.8 | 35 |
| 46 | Thermoresponsive xylan hydrogels via copper-catalyzed azide-alkyne cycloaddition. Carbohydrate Polymers, 2014, 102, 637-644. | 5.1 | 34 |
| 47 | Biodegradable photocrosslinkable poly(depsipeptideâ€ <i>co</i> â€Îµâ€caprolactone) for tissue engineering: Synthesis, characterization, and <i>In vitro</i> evaluation. Journal of Polymer Science Part A, 2014, 52, 3307-3315. | 2.5 | 33 |
| 48 | Ductile nanocellulose-based films with high stretchability and tear resistance. European Polymer Journal, 2015, 69, 328-340. | 2.6 | 32 |
| 49 | Exfoliated clay nanocomposites of renewable long-chain aliphatic polyamide through in-situ polymerization. Composites Part B: Engineering, 2021, 211, 108655. | 5.9 | 31 |
| 50 | Highly active platinum nanoparticles supported by nitrogen/sulfur functionalized graphene composite for ethanol electro-oxidation. Electrochimica Acta, 2017, 242, 315-326. | 2.6 | 30 |
| 51 | Additive Manufacturing of Bioactive Poly(trimethylene carbonate)/β-Tricalcium Phosphate Composites for Bone Regeneration. Biomacromolecules, 2020, 21, 366-375. | 2.6 | 30 |
| 52 | Photocrosslinkable Polyesters and Poly(ester anhydride)s for Biomedical Applications. Macromolecular Bioscience, 2011, 11, 1647-1652. | 2.1 | 29 |
| 53 | Redefining polyamide property profiles via renewable long-chain aliphatic segments: Towards impact resistance and low water absorption. European Polymer Journal, 2018, 109, 16-25. | 2.6 | 28 |
| 54 | 3D printing and properties of cellulose nanofibrils-reinforced quince seed mucilage bio-inks. International Journal of Biological Macromolecules, 2021, 192, 1098-1107. | 3.6 | 27 |

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|----|---|-----|-----------|
| 55 | Photo-Cross-Linked Biodegradable Poly(Ester Anhydride) Networks Prepared from Alkenylsuccinic Anhydride Functionalized Poly(ε-caprolactone) Precursors. Biomacromolecules, 2011, 12, 2806-2814. | 2.6 | 26 |
| 56 | High-resolution 3D printing of xanthan gum/nanocellulose bio-inks. International Journal of Biological Macromolecules, 2022, 209, 2020-2031. | 3.6 | 26 |
| 57 | Novel thiol- amine- and amino acid functional xylan derivatives synthesized by thiol–ene reaction. Carbohydrate Polymers, 2015, 131, 392-398. | 5.1 | 25 |
| 58 | Continuous propionic acid production with Propionibacterium acidipropionici immobilized in a novel xylan hydrogel matrix. Bioresource Technology, 2015, 197, 1-6. | 4.8 | 24 |
| 59 | Modifying the flocculation of microfibrillated cellulose suspensions by soluble polysaccharides under conditions unfavorable to adsorption. Carbohydrate Polymers, 2014, 106, 283-292. | 5.1 | 23 |
| 60 | The vane method and kinetic modeling: shear rheology of nanofibrillated cellulose suspensions. Cellulose, 2014, 21, 3913-3925. | 2.4 | 23 |
| 61 | Renewable polyamides via thiol-ene â€ [~] click' chemistry and long-chain aliphatic segments. Polymer, 2018, 153, 183-192. | 1.8 | 23 |
| 62 | Improved Bone Regeneration in Rabbit Bone Defects Using 3D Printed Composite Scaffolds Functionalized with Osteoinductive Factors. ACS Applied Materials & Interfaces, 2020, 12, 48340-48356. | 4.0 | 23 |
| 63 | Synthesis of poly(ester-anhydride)s based on poly(ϵ-caprolactone) prepolymer. Journal of Applied Polymer Science, 2001, 81, 176-185. | 1.3 | 22 |
| 64 | Synthesis and Hydrolysis Behaviour of Poly(ester anhydrides) from Polylactone Precursors Containing Alkenyl Moieties. Macromolecular Bioscience, 2006, 6, 496-505. | 2.1 | 22 |
| 65 | Drug-releasing biopolymeric structures manufactured via stereolithography. Biomedical Physics and Engineering Express, 2019, 5, 025008. | 0.6 | 22 |
| 66 | On Laccase-Catalyzed Polymerization of Biorefinery Lignin Fractions and Alignment of Lignin Nanoparticles on the Nanocellulose Surface <i>via</i> One-Pot Water-Phase Synthesis. ACS Sustainable Chemistry and Engineering, 2021, 9, 8770-8782. | 3.2 | 22 |
| 67 | The Effect of Pure Component Characteristic Parameters on Sanchez–Lacombe Equationâ€ofâ€State Predictive Capabilities. Macromolecular Reaction Engineering, 2013, 7, 193-204. | 0.9 | 21 |
| 68 | Manipulation of cellulose nanocrystal surface sulfate groups toward biomimetic nanostructures in aqueous media. Carbohydrate Polymers, 2015, 126, 23-31. | 5.1 | 21 |
| 69 | Graphene Family Nanomaterials in Ocular Applications: Physicochemical Properties and Toxicity. Chemical Research in Toxicology, 2021, 34, 1386-1402. | 1.7 | 21 |
| 70 | Synthesis of Poly(ester-anhydrides) Based on Different Polyester Precursors. Macromolecular Chemistry and Physics, 2004, 205, 937-945. | 1.1 | 20 |
| 71 | Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming. Carbohydrate Polymers, 2015, 119, 62-70. | 5.1 | 20 |
| 72 | Injectable thiol-ene hydrogel of galactoglucomannan and cellulose nanocrystals in delivery of therapeutic inorganic ions with embedded bioactive glass nanoparticles. Carbohydrate Polymers, 2022, 276, 118780. | 5.1 | 20 |

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| 73 | Porous Biodegradable Scaffold: Predetermined Porosity by Dissolution of Poly(esterâ€anhydride) Fibers from Polyester Matrix. Macromolecular Bioscience, 2009, 9, 654-660. | 2.1 | 19 |
| 74 | Cyclodextrin-Functionalized Fiber Yarns Spun from Deep Eutectic Cellulose Solutions for Nonspecific Hormone Capture in Aqueous Matrices. Biomacromolecules, 2018, 19, 652-661. | 2.6 | 19 |
| 75 | Hydrophobicities of poly(ε-caprolactone) oligomers functionalized with different succinic anhydrides. European Polymer Journal, 2009, 45, 557-564. | 2.6 | 18 |
| 76 | Liquid crystalline thermosets based on anisotropic phases of cellulose nanocrystals. Cellulose, 2013, 20, 2569-2582. | 2.4 | 18 |
| 77 | Characterization of physical aging by time-resolved rheometry: fundamentals and application to bituminous binders. Rheologica Acta, 2018, 57, 745-756. | 1.1 | 18 |
| 78 | 3D inkjet-printing of photo-crosslinkable resins for microlens fabrication. Additive Manufacturing, 2022, 50, 102534. | 1.7 | 18 |
| 79 | Pancreatin enhanced erosion of and macromolecule release from 2,2-bis(2-oxazoline)-linked poly(Ĩµ-caprolactone). Journal of Controlled Release, 2003, 86, 213-222. | 4.8 | 17 |
| 80 | Osteoblast response to continuous phase macroporous scaffolds under static and dynamic culture conditions. Journal of Biomedical Materials Research - Part A, 2009, 89A, 317-325. | 2.1 | 17 |
| 81 | Developing Advanced Functional Polymers for Biomedical Applications. Biomacromolecules, 2020, 21, 273-275. | 2.6 | 17 |
| 82 | Mechanical behavior, structure, and reinforcement processes of TEMPOâ€oxidized cellulose reinforced poly(lactic) acid. Polymer Composites, 2013, 34, 173-179. | 2.3 | 16 |
| 83 | An in vitro study of composites of poly(L-lactide-co-ε-caprolactone), β-tricalcium phosphate and ciprofloxacin intended for local treatment of osteomyelitis. Biomatter, 2013, 3, e23162. | 2.6 | 16 |
| 84 | A comprehensive thermodynamic study of heat stable acetic acid salt of monoethanolamine. International Journal of Greenhouse Gas Control, 2014, 22, 313-324. | 2.3 | 16 |
| 85 | Mechanical Properties of Ultraviolet-Assisted Paste Extrusion and Postextrusion Ultraviolet-Curing of Three-Dimensional Printed Biocomposites. 3D Printing and Additive Manufacturing, 2019, 6, 127-137. | 1.4 | 16 |
| 86 | Exosome-Functionalized Ceramic Bone Substitute Promotes Critical-Sized Bone Defect Repair in Rats. ACS Applied Bio Materials, 2021, 4, 3716-3726. | 2.3 | 16 |
| 87 | Ultra-thin films of cationic amphiphilic poly(2-(dimethylamino)ethyl methacrylate) based block copolymers as surface wettability modifiers. Polymer, 2009, 50, 5250-5261. | 1.8 | 14 |
| 88 | Photocrosslinked poly(ester anhydride)s for peptide delivery: Effect of oligomer hydrophobicity on PYY3-36 delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 80, 33-38. | 2.0 | 14 |
| 89 | An empirical constitutive model for complex glass-forming liquids using bitumen as a model material. Rheologica Acta, 2018, 57, 57-70. | 1.1 | 14 |
| 90 | Enhanced mechanical and thermal properties of polyurethane/functionalised graphene oxide composites by <i>in situ</i> polymerisation. Plastics, Rubber and Composites, 2019, 48, 466-476. | 0.9 | 14 |

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|-----|--|------------------|----------------|
| 91 | Multiscale Structural Characterization of Biocompatible Poly(trimethylene carbonate) Photoreticulated Networks. ACS Applied Polymer Materials, 2019, 1, 1811-1820. | 2.0 | 14 |
| 92 | Tailor-made hemicellulose-based hydrogels reinforced with nanofibrillated cellulose. Nordic Pulp and Paper Research Journal, 2015, 30, 373-384. | 0.3 | 13 |
| 93 | Highâ€Performance and Biobased Polyamide/Functionalized Graphene Oxide Nanocomposites through In Situ Polymerization for Engineering Applications. Macromolecular Materials and Engineering, 2021, 306, 2100255. | 1.7 | 12 |
| 94 | Synthesis and solution rheology of poly[(stearyl methacrylate)-stat-([2-(methacryloyloxy)ethyl]) Tj ETQq0 0 0 rg | BT /Overlo 5.0 | ock 10 Tf 50 6 |
| 95 | Characterization of internal structure, polymer erosion and drug release mechanisms of biodegradable poly(ester anhydride)s by X-ray microtomography. European Journal of Pharmaceutical Sciences, 2012, 47, 170-178. | 1.9 | 11 |
| 96 | Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity. European Polymer Journal, 2019, 113, 165-175. | 2.6 | 11 |
| 97 | Multiscale structural characterization of biocompatible poly(trimethylene carbonate) networks photo-cross-linked in a solvent. Polymer Testing, 2020, 90, 106740. | 2.3 | 10 |
| 98 | Effect of Xylan Structure on Reactivity in Graft Copolymerization and Subsequent Binding to Cellulose. Biomacromolecules, 2015, 16, 1102-1111. | 2.6 | 9 |
| 99 | Conductive polyurethane/PEGylated graphene oxide composite for 3D-printed nerve guidance conduits. European Polymer Journal, 2022, 167, 111068. | 2.6 | 9 |
| 100 | Phenylsilane; unreactive group in the metallocene/MAO catalyzed copolymerization of propylene and 7-octenyldimethylphenylsilane, reactive group in melt blending with microsilica filler. European Polymer Journal, 2009, 45, 1179-1189. | 2.6 | 8 |
| 101 | Blending cellulose with polyethylene-co-acrylic acid in alkaline water suspension. Cellulose, 2012, 19, 661-669. | 2.4 | 8 |
| 102 | The effect of MWCNTs on molar mass in in situ polymerization of styrene and methyl methacrylate. European Polymer Journal, 2012, 48, 1516-1524. | 2.6 | 7 |
| 103 | Functional Polyolefins Through Polymerizations by Using Bis(indenyl) Zirconium Catalysts. Advances in Polymer Science, 2013, , 179-232. | 0.4 | 7 |
| 104 | Novel long-chain aliphatic polyamide/surface-modified silicon dioxide nanocomposites: in-situ polymerization and properties. Materials Today Chemistry, 2021, 20, 100450. | 1.7 | 7 |
| 105 | Preparation and properties of cellulose/PE-co-AA blends. European Polymer Journal, 2012, 48, 1439-1445. | 2.6 | 6 |
| 106 | Hydrolysis behaviour of crosslinked poly(ester anhydride) networks prepared from functionalised poly(ε-caprolactone) precursors. Reactive and Functional Polymers, 2013, 73, 11-17. | 2.0 | 6 |
| 107 | Patientâ€Specific Bioimplants and Reconstruction Plates for Mandibular Defects: Production Workflow and In Vivo Large Animal Model Study. Macromolecular Bioscience, 2022, 22, e2100398. | 2.1 | 6 |
| 108 | Cellulose/acrylic acid copolymer blends for films and coating applications. Journal of Applied Polymer Science, 2014, 131, . | 1.3 | 5 |

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|-----|--|-----|-----------|
| 109 | Composite bilayered scaffolds with bio-functionalized ceramics for cranial bone defects: An <i>in vivo</i> evaluation. Multifunctional Materials, 2019, 2, 014002. | 2.4 | 5 |
| 110 | Native Structure of the Plant Cell Wall Utilized for Topâ€Down Assembly of Aligned Cellulose Nanocrystals into Micrometerâ€Sized Nanoporous Particles. Macromolecular Rapid Communications, 2020, 41, 2000201. | 2.0 | 5 |
| 111 | 3D-Printed Thermoset Biocomposites Based on Forest Residues by Delayed Extrusion of Cold Masterbatch (DECMA). ACS Sustainable Chemistry and Engineering, 2021, 9, 13979-13987. | 3.2 | 5 |
| 112 | Photo-crosslinked anhydride-modified polyester and –ethers for pH-sensitive drug release. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 150, 33-42. | 2.0 | 4 |
| 113 | Elastic Ceramic-Polymer Scaffold with Interconnected Pore Structure: Preparation and In Vitro Reactivity. Key Engineering Materials, 2007, 361-363, 395-398. | 0.4 | 3 |
| 114 | Lewis acidic polypropylene for compatibilization of polypropylene/microsilica composites. Polymer Composites, 2011, 32, 1835-1841. | 2.3 | 2 |
| 115 | Preparation and Enzymatic Degradation of Porous Crosslinked Polylactides of Biomass Origin. International Journal of Molecular Sciences, 2014, 15, 9793-9808. | 1.8 | 2 |
| 116 | Enzymatically fibrillated cellulose pulp-based monofilaments spun from water; enhancement of mechanical properties and water stability. Cellulose, 2017, 24, 871-887. | 2.4 | 2 |
| 117 | Reduced graphene oxide integrated poly(ionic liquid) functionalized nano-fibrillated cellulose composite paper with improved toughness, ductility and hydrophobicity. Materials Advances, 2021, 2, 948-952. | 2.6 | 2 |
| 118 | Tailor-made hemicellulose-based hydrogels reinforced with nanofibrillated cellulose for the removal of chromium ions from aqueous solutions. Nordic Pulp and Paper Research Journal, 2015, 30, 369-372. | 0.3 | 1 |