# Michael K C Tam

List of Publications by Year
in descending order

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Chemistry and applications of nanocrystalline cellulose and its derivatives: A nanotechnology perspective. Canadian Journal of Chemical Engineering, 2011, 89, 1191-1206. | 0.9 | 717 |
| 2 | A Nitrogen and Sulfur Dualâ€Doped Carbon Derived from Polyrhodanine@Cellulose for Advanced Lithiumâ€“Sulfur Batteries. Advanced Materials, 2015, 27, 6021-6028. | 11.1 | 703 |
| 3 | pH-Responsive polymers: synthesis, properties and applications. Soft Matter, 2008, 4, 435. | 1.2 | 593 |
| 4 | Stimuli-responsive Pickering emulsions: recent advances and potential applications. Soft Matter, 2015, 11, 3512-3529. | 1.2 | 486 |
| 5 | Recent advances in the application of cellulose nanocrystals. Current Opinion in Colloid and Interface Science, 2017, 29, 32-45. | 3.4 | 456 |
| 6 | Functionalization of cellulose nanocrystals for advanced applications. Journal of Colloid and Interface Science, 2017, 494, 397-409. | 5.0 | 351 |
| 7 | Poly(N-isopropylacrylamide) Latices Prepared with Sodium Dodecyl Sulfate. Journal of Colloid and Interface Science, 1993, 156, 24-30. | 5.0 | 314 |
| 8 | A Structural Model of Hydrophobically Modified Urethaneâ˜Ethoxylate (HEUR) Associative Polymers in Shear Flows. Macromolecules, 1998, 31, 4149-4159. | 2.2 | 280 |
| 9 | Dual Responsive Pickering Emulsion Stabilized by Poly[2-(dimethylamino)ethyl methacrylate] Grafted Cellulose Nanocrystals. Biomacromolecules, 2014, 15, 3052-3060. | 2.6 | 275 |
| 10 | Cellulose nanocrystals as promising adsorbents for the removal of cationic dyes. Cellulose, 2014, 21, 1655-1665. | 2.4 | 272 |
| 11 | Cellulose nanocrystalâ€“alginate hydrogel beads as novel adsorbents for organic dyes in aqueous solutions. Cellulose, 2015, 22, 3725-3738. | 2.4 | 240 |
| 12 | Gel Network Structure of Methylcellulose in Water. Langmuir, 2001, 17, 8062-8068. | 1.6 | 226 |
| 13 | Rheology and Dynamics of Associative Polymers in Shear and Extension:Â Theory and Experiments. Macromolecules, 2006, 39, 1981-1999. | 2.2 | 219 |
| 14 | Thermally Induced Association and Dissociation of Methylcellulose in Aqueous Solutions. Langmuir, 2002, 18, 7291-7298. | 1.6 | 209 |
| 15 | Insights on polymer surfactant complex structures during the binding of surfactants to polymers as measured by equilibrium and structural techniques. Chemical Society Reviews, 2006, 35, 693. | 18.7 | 209 |
| 16 | Cellulose nanomaterials: promising sustainable nanomaterials for application in water/wastewater treatment processes. Environmental Science: Nano, 2018, 5, 623-658. | 2.2 | 206 |
| 17 | Polyethylenimine-cross-linked cellulose nanocrystals for highly efficient recovery of rare earth elements from water and a mechanism study. Green Chemistry, 2017, 19, 4816-4828. | 4.6 | 200 |
| 18 | New Insights on the Interaction Mechanism within Oppositely Charged Polymer/Surfactant Systems. Langmuir, 2002, 18, 6484-6490. | 1.6 | 184 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Surface modification of cellulose nanocrystal with chitosan oligosaccharide for drug delivery applications. Cellulose, 2013, 20, 1747-1764. | 2.4 | 181 |
| 20 | Superposition of Oscillations on Steady Shear Flow as a Technique for Investigating the Structure of Associative Polymers. Macromolecules, 1997, 30, 1426-1433. | 2.2 | 177 |
| 21 | Hydroxyapatite nanostructure material derived using cationic surfactant as a template. Journal of Materials Chemistry, 2003, 13, 3053. | 6.7 | 169 |
| 22 | Compressible cellulose nanofibril (CNF) based aerogels produced via a bio-inspired strategy for heavy metal ion and dye removal. Carbohydrate Polymers, 2019, 208, 404-412. | 5.1 | 168 |
| 23 | Mussel-Inspired Green Metallization of Silver Nanoparticles on Cellulose Nanocrystals and Their Enhanced Catalytic Reduction of 4-Nitrophenol in the Presence of Î²-Cyclodextrin. Industrial & Engineering Chemistry Research, 2015, 54, 3299-3308. | 1.8 | 164 |
| 24 | Cellulose-based materials in wastewater treatment of petroleum industry. Green Energy and Environment, 2020, 5, 37-49. | 4.7 | 159 |
| 25 | Continuous flow adsorption of methylene blue by cellulose nanocrystal-alginate hydrogel beads in fixed bed columns. Carbohydrate Polymers, 2016, 136, 1194-1202. | 5.1 | 158 |
| 26 | Organic Solvent-Free Fabrication of Durable and Multifunctional Superhydrophobic Paper from Waterborne Fluorinated Cellulose Nanofiber Building Blocks. ACS Nano, 2017, 11, 11091-11099. | 7.3 | 154 |
| 27 | 3D bioprinting of liver-mimetic construct with alginate/cellulose nanocrystal hybrid bioink. Bioprinting, 2018, 9, 1-6. | 2.9 | 154 |
| 28 | Rheological Properties of Model Alkali-Soluble Associative (HASE) Polymers:â€‰ Effect of Varying Hydrophobe Chain Length. Macromolecules, 1997, 30, 3271-3282. | 2.2 | 153 |
| 29 | Complexation and release of doxorubicin from its complexes with pluronic P85-b-poly(acrylic acid) block copolymers. Journal of Controlled Release, 2007, 121, 137-145. | 4.8 | 148 |
| 30 | Constructing stimuli-free self-healing, robust and ultrasensitive biocompatible hydrogel sensors with conductive cellulose nanocrystals. Chemical Engineering Journal, 2020, 398, 125547. | 6.6 | 148 |
| 31 | Enhanced colloidal stability and antibacterial performance of silver nanoparticles/cellulose nanocrystal hybrids. Journal of Materials Chemistry B, 2015, 3, 603-611. | 2.9 | 142 |
| 32 | Strengthening acrylonitrile-butadiene-styrene (ABS) with nano-sized and micron-sized calcium carbonate. Polymer, 2005, 46, 243-252. | 1.8 | 138 |
| 33 | Isothermal Titration Calorimetry Studies of Binding Interactions between Polyethylene Glycol and Ionic Surfactants. Journal of Physical Chemistry B, 2001, 105, 10759-10763. | 1.2 | 134 |
| 34 | Salt-Assisted and Salt-Suppressed Solâˆ’Gel Transitions of Methylcellulose in Water. Langmuir, 2004, 20, 646-652. | 1.6 | 133 |
| 35 | Cellulose nanocrystal (CNC)â€“inorganic hybrid systems: synthesis, properties and applications. Journal of Materials Chemistry B, 2018, 6, 864-883. | 2.9 | 127 |
| 36 | Synthesis of Î²-Cyclodextrin-Modified Cellulose Nanocrystals (CNCs)@Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> Superparamagnetic Nanorods. ACS Sustainable Chemistry and Engineering, 2014, 2, 951-958. | 3.2 | 124 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | CO<sub>2</sub>-Responsive Cellulose Nanofibers Aerogels for Switchable Oilâ€“Water Separation. ACS Applied Materials & Interfaces, 2019, 11, 9367-9373. | 4.0 | 123 |
| 38 | Supramolecular Self-Assembly of 3D Conductive Cellulose Nanofiber Aerogels for Flexible Supercapacitors and Ultrasensitive Sensors. ACS Applied Materials & Interfaces, 2019, 11, 24435-24446. | 4.0 | 120 |
| 39 | Selective adsorption and separation of organic dyes using functionalized cellulose nanocrystals. Chemical Engineering Journal, 2021, 417, 129237. | 6.6 | 116 |
| 40 | Vesicles from Pluronic/poly(lactic acid) block copolymers as new carriers for oral insulin delivery. Journal of Controlled Release, 2007, 120, 11-17. | 4.8 | 115 |
| 41 | Release kinetics of hydrophobic and hydrophilic model drugs from pluronic F127/poly(lactic acid) nanoparticles. Journal of Controlled Release, 2005, 103, 73-82. | 4.8 | 114 |
| 42 | Review on the dynamics and micro-structure of pH-responsive nano-colloidal systems. Advances in Colloid and Interface Science, 2008, 136, 25-44. | 7.0 | 114 |
| 43 | Photochemical and Thermal Isomerizations of Azobenzene-Containing Amphiphilic Diblock Copolymers in Aqueous Micellar Aggregates and in Film. Macromolecules, 2005, 38, 3943-3948. | 2.2 | 110 |
| 44 | Novel highly biodegradable biphasic tricalcium phosphates composed of Î±-tricalcium phosphate and Î²-tricalcium phosphate. Acta Biomaterialia, 2007, 3, 251-254. | 4.1 | 109 |
| 45 | Sustained Drug Release in Nanomedicine: A Long-Acting Nanocarrier-Based Formulation for Glaucoma. ACS Nano, 2014, 8, 419-429. | 7.3 | 108 |
| 46 | Amphiphilic Cellulose Nanocrystals for Enhanced Pickering Emulsion Stabilization. Langmuir, 2018, 34, 12897-12905. | 1.6 | 107 |
| 47 | Shape recoverable and mechanically robust cellulose aerogel beads for efficient removal of copper ions. Chemical Engineering Journal, 2020, 392, 124821. | 6.6 | 107 |
| 48 | Synthesis and Aggregation Behavior of Pluronic F127/Poly(lactic acid) Block Copolymers in Aqueous Solutions. Macromolecules, 2003, 36, 9979-9985. | 2.2 | 105 |
| 49 | Interaction between Polyelectrolyte and Oppositely Charged Surfactant:Â Effect of Charge Density. Journal of Physical Chemistry B, 2004, 108, 8976-8982. | 1.2 | 104 |
| 50 | Interaction of Surfactants with Poly(N-isopropylacrylamide) Microgel Latexes. Langmuir, 1994, 10, 418-422. | 1.6 | 102 |
| 51 | Isothermal Titration Calorimetric Studies on the Temperature Dependence of Binding Interactions between Poly(propylene glycol)s and Sodium Dodecyl Sulfate. Langmuir, 2004, 20, 2177-2183. | 1.6 | 101 |
| 52 | Novel pH-Responsive Amphiphilic Diblock Copolymers with Reversible Micellization Properties. Langmuir, 2003, 19, 5175-5177. | 1.6 | 100 |
| 53 | Use of CdS quantum dot-functionalized cellulose nanocrystal films for anti-counterfeiting applications. Nanoscale, 2016, 8, 13288-13296. | 2.8 | 98 |
| 54 | Aggregation Behavior of C60-End-Capped Poly(ethylene oxide)s. Langmuir, 2003, 19, 4798-4803. | 1.6 | 97 |

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| 55 | Green acid-free hydrolysis of wasted pomelo peel to produce carboxylated cellulose nanofibers with super absorption/flocculation ability for environmental remediation materials. Chemical Engineering Journal, 2020, 395, 125070. | 6.6 | 97 |
| 56 | Simple Process To Produce High-Yield Cellulose Nanocrystals Using Recyclable Citric/Hydrochloric Acids. ACS Sustainable Chemistry and Engineering, 2019, 7, 4912-4923. | 3.2 | 96 |
| 57 | Cyclodextrin-assisted assembly of stimuli-responsive polymers in aqueous media. Soft Matter, 2010, 6, 4613. | 1.2 | 95 |
| 58 | New water soluble azobenzene-containing diblock copolymers: synthesis and aggregation behavior. Polymer, 2005, 46, 137-146. | 1.8 | 94 |
| 59 | Stimuli-Responsive Cellulose Nanocrystals for Surfactant-Free Oil Harvesting. Biomacromolecules, 2016, 17, 1748-1756. | 2.6 | 93 |
| 60 | Fluorescence Studies of an Alkaline Swellable Associative Polymer in Aqueous Solution. Langmuir, 1997, 13, 182-186. | 1.6 | 90 |
| 61 | Cost-effective and Scalable Chemical Synthesis of Conductive Cellulose Nanocrystals for High-performance Supercapacitors. Electrochimica Acta, 2014, 138, 139-147. | 2.6 | 90 |
| 62 | One-pot synthesis of trifunctional chitosan-EDTA-Î²-cyclodextrin polymer for simultaneous removal of metals and organic micropollutants. Scientific Reports, 2017, 7, 15811. | 1.6 | 89 |
| 63 | Conductive cellulose nanocrystals with high cycling stability for supercapacitor applications. Journal of Materials Chemistry A, 2014, 2, 19268-19274. | 5.2 | 88 |
| 64 | Use of isothermal titration calorimetry to study surfactant aggregation in colloidal systems. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 999-1016. | 1.1 | 88 |
| 65 | Enantiomeric glycosylated cationic block co-beta-peptides eradicate Staphylococcus aureus biofilms and antibiotic-tolerant persisters. Nature Communications, 2019, 10, 4792. | 5.8 | 88 |
| 66 | Association Behavior of Poly(methacrylic acid)-block-poly(methyl methacrylate) in Aqueous Medium:Â Potentiometric and Laser Light Scattering Studies. Macromolecules, 2003, 36, 173-179. | 2.2 | 87 |
| 67 | Nitrogen-enriched porous carbon nanorods templated by cellulose nanocrystals as high performance supercapacitor electrodes. Journal of Materials Chemistry A, 2015, 3, 23768-23777. | 5.2 | 87 |
| 68 | Polyethylenimine-modified chitosan materials for the recovery of La(III) from leachates of bauxite residue. Chemical Engineering Journal, 2020, 388, 124307. | 6.6 | 86 |
| 69 | Isothermal Titration Calorimetric Studies on Interactions of Ionic Surfactant and Poly(oxypropylene)â˜’Poly(oxyethylene)â˜’ Poly(oxypropylene) Triblock Copolymers in Aqueous Solutions. Macromolecules, 2001, 34, 7049-7055. | 2.2 | 85 |
| 70 | Natural Biodegradable Poly(3-hydroxybutyrate-<i>co</i>-3-hydroxyvalerate) Nanocomposites with Multifunctional Cellulose Nanocrystals/Graphene Oxide Hybrids for High-Performance Food Packaging. Journal of Agricultural and Food Chemistry, 2019, 67, 10954-10967. | 2.4 | 85 |
| 71 | Microencapsulation of Phase Change Materials with Polystyrene/Cellulose Nanocrystal Hybrid Shell via Pickering Emulsion Polymerization. ACS Sustainable Chemistry and Engineering, 2019, 7, 17756-17767. | 3.2 | 84 |
| 72 | Sustainable Catalysts from Gold-Loaded Polyamidoamine Dendrimer-Cellulose Nanocrystals. ACS Sustainable Chemistry and Engineering, 2015, 3, 978-985. | 3.2 | 83 |

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|---|---|---|---|
| 73 | Construction of functional cellulose aerogels via atmospheric drying chemically cross-linked and solvent exchanged cellulose nanofibrils. Chemical Engineering Journal, 2019, 366, 531-538. | 6.6 | 82 |
| 74 | Steady and Dynamic Shear Properties of Aqueous Polymer Solutions. Journal of Rheology, 1989, 33, 257-280. | 1.3 | 81 |
| 75 | Synthesis and characterization of nanoporous hydroxyapatite using cationic surfactants as templates. Materials Research Bulletin, 2008, 43, 2318-2326. | 2.7 | 80 |
| 76 | A new pathway towards polymer modified cellulose nanocrystals via a â€œgrafting ontoâ€•process for drug delivery. Polymer Chemistry, 2015, 6, 4206-4209. | 1.9 | 80 |
| 77 | Effects of salt on the intrinsic viscosity of model alkali-soluble associative polymers. Macromolecular Chemistry and Physics, 1998, 199, 1175-1184. | 1.1 | 79 |
| 78 | Lifetime and network relaxation time of a HEUR-C20 associative polymer system. Journal of Rheology, 2000, 44, 137-147. | 1.3 | 78 |
| 79 | Pickering emulsions stabilized by hydrophobically modified nanocellulose containing various structural characteristics. Cellulose, 2019, 26, 7753-7767. | 2.4 | 78 |
| 80 | Applications of nanotechnology in oil and gas industry: Progress and perspective. Canadian Journal of Chemical Engineering, 2018, 96, 91-100. | 0.9 | 77 |
| 81 | Gold nanoparticles stabilized by poly(4-vinylpyridine) grafted cellulose nanocrystals as efficient and recyclable catalysts. Carbohydrate Polymers, 2018, 182, 61-68. | 5.1 | 76 |
| 82 | Synthesis and Characterization of Novel pH-Responsive Polyampholyte Microgels. Macromolecular Rapid Communications, 2006, 27, 522-528. | 2.0 | 72 |
| 83 | Cellulose nanocrystals in smart and stimuli-responsive materials: a review. Materials Today Advances, 2020, 5, 100055. | 2.5 | 72 |
| 84 | Microgel Iron Oxide Nanoparticles for Tracking Human Fetal Mesenchymal Stem Cells Through Magnetic Resonance Imaging. Stem Cells, 2009, 27, 1921-1931. | 1.4 | 71 |
| 85 | Rheological properties of hydrophobically modified alkali-soluble polymers?effects of ethylene-oxide chain length. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 2275-2290. | 2.4 | 69 |
| 86 | Rheological properties of methacrylic acid/ethyl acrylate co-polymer: comparison between an unmodified and hydrophobically modified system. Polymer, 2001, 42, 249-259. | 1.8 | 69 |
| 87 | Water treatment technologies for the remediation of naphthenic acids in oil sands process-affected water. Chemical Engineering Journal, 2015, 279, 696-714. | 6.6 | 69 |
| 88 | Multibranch Strategy To Decorate Carboxyl Groups on Cellulose Nanocrystals To Prepare Adsorbent/Flocculants and Pickering Emulsions. ACS Sustainable Chemistry and Engineering, 2019, 7, 6969-6980. | 3.2 | 69 |
| 89 | Aggregation behavior of two-arm fullerene-containing poly(ethylene oxide). Polymer, 2003, 44, 2529-2536. | 1.8 | 68 |
| 90 | Biodegradable and biocompatible polyampholyte microgels derived from chitosan, carboxymethyl cellulose and modified methyl cellulose. Carbohydrate Polymers, 2012, 87, 101-109. | 5.1 | 68 |

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| 91 | Polydopamine microcapsules from cellulose nanocrystal stabilized Pickering emulsions for essential oil and pesticide encapsulation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 570, 403-413. | 2.3 | 68 |
| 92 | Diffusion-Controlled Simultaneous Sensing and Scavenging of Heavy Metal Ions in Water Using Atomically Precise Clusterâ€“Cellulose Nanocrystal Composites. ACS Sustainable Chemistry and Engineering, 2016, 4, 6167-6176. | 3.2 | 67 |
| 93 | Cellulose nanocrystal-poly(oligo(ethylene glycol) methacrylate) brushes with tunable LCSTs. Carbohydrate Polymers, 2016, 144, 215-222. | 5.1 | 67 |
| 94 | Nanoparticles of Short Cationic Peptidopolysaccharide Self-Assembled by Hydrogen Bonding with Antibacterial Effect against Multidrug-Resistant Bacteria. ACS Applied Materials & Interfaces, 2017, 9, 38288-38303. | 4.0 | 67 |
| 95 | Synthesis and thermal responsive properties of P(LA-b-EO-b-PO-b-EO-b-LA) block copolymers with short hydrophobic poly(lactic acid) (PLA) segments. Polymer, 2005, 46, 1841-1850. | 1.8 | 66 |
| 96 | Nanotemplating of Calcium Phosphate Using a Double-Hydrophilic Block Copolymer. Chemistry of Materials, 2005, 17, 4865-4872. | 3.2 | 66 |
| 97 | Polymeric Nanostructures for Drug Delivery Applications Based on Pluronic Copolymer Systems. Journal of Nanoscience and Nanotechnology, 2006, 6, 2638-2650. | 0.9 | 66 |
| 98 | A comparative study on grafting polymers from cellulose nanocrystals via surface-initiated atom transfer radical polymerization (ATRP) and activator re-generated by electron transfer ATRP. Carbohydrate Polymers, 2019, 205, 322-329. | 5.1 | 66 |
| 99 | Effect of surface modification of cellulose nanocrystal on nonisothermal crystallization of poly(Î²-hydroxybutyrate) composites. Carbohydrate Polymers, 2017, 157, 1821-1829. | 5.1 | 65 |
| 100 | Facile and Green Synthesis of Carboxylated Cellulose Nanocrystals as Efficient Adsorbents in Wastewater Treatments. ACS Sustainable Chemistry and Engineering, 2019, 7, 18067-18075. | 3.2 | 65 |
| 101 | Interactions between Methacrylic Acid/Ethyl Acrylate Copolymers and Dodecyltrimethylammonium Bromide. Journal of Physical Chemistry B, 2003, 107, 4667-4675. | 1.2 | 64 |
| 102 | Photoregulated Sol-Gel Transition of Novel Azobenzene-Functionalized Hydroxypropyl Methylcellulose and Its Î± -Cyclodextrin Complexes. Macromolecular Rapid Communications, 2004, 25, 678-682. | 2.0 | 64 |
| 103 | Enzyme-Degradable Self-Assembled Nanostructures from Polymerâ€“Peptide Hybrids. Biomacromolecules, 2014, 15, 1882-1888. | 2.6 | 63 |
| 104 | Polyrhodanine Coated Cellulose Nanocrystals: A Sustainable Antimicrobial Agent. ACS Sustainable Chemistry and Engineering, 2015, 3, 1801-1809. | 3.2 | 63 |
| 105 | Controlled polymerizations of 2-(dialkylamino)ethyl methacrylates and their block copolymers in protic solvents at ambient temperature via ATRP. Journal of Polymer Science Part A, 2004, 42, 5161-5169. | 2.5 | 62 |
| 106 | Strategy for Synthesizing Porous Cellulose Nanocrystal Supported Metal Nanocatalysts. ACS Sustainable Chemistry and Engineering, 2016, 4, 5929-5935. | 3.2 | 62 |
| 107 | Phosphorylated-CNC/modified-chitosan nanocomplexes for the stabilization of Pickering emulsions. Carbohydrate Polymers, 2019, 206, 520-527. | 5.1 | 61 |
| 108 | Synthesis and Aggregation Behavior of Pluronic F87/Poly(acrylic acid) Block Copolymer in the Presence of Doxorubicin. Langmuir, 2007, 23, 2638-2646. | 1.6 | 60 |

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| 109 | Application of the central composite design to study the flocculation of an anionic azo dye using quaternized cellulose nanofibrils. Carbohydrate Polymers, 2015, 133, 80-89. | 5.1 | 60 |
| 110 | Self-healing stimuli-responsive cellulose nanocrystal hydrogels. Carbohydrate Polymers, 2020, 229, 115486. | 5.1 | 60 |
| 111 | Efficient mixing of viscoelastic fluids in a microchannel at low Reynolds number. Microfluidics and Nanofluidics, 2006, 3, 101-108. | 1.0 | 59 |
| 112 | Biocompatible and acid-cleavable poly(Îµ-caprolactone)-acetal-poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (glycol)-aceta doxorubicin delivery. Journal of Materials Chemistry B, 2013, 1, 6596. | 2.9 | 59 |
| 113 | Inverse Pickering Emulsions Stabilized by Cinnamate Modified Cellulose Nanocrystals as Templates To Prepare Silica Colloidosomes. ACS Sustainable Chemistry and Engineering, 2018, 6, 2583-2590. | 3.2 | 59 |
| 114 | Evaluation of intrinsic viscosity measurements of hydrophobically modified polyelectrolyte solutions. European Polymer Journal, 1999, 35, 1245-1252. | 2.6 | 58 |
| 115 | Synthesis of amorphous calcium phosphate using various types of cyclodextrins. Materials Research Bulletin, 2007, 42, 820-827. | 2.7 | 58 |
| 116 | Evaluation of dialysis membrane process for quantifying the in vitro drug-release from colloidal drug carriers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 389, 299-303. | 2.3 | 58 |
| 117 | Comparative release studies of two cationic model drugs from different cellulose nanocrystal derivatives. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 207-215. | 2.0 | 58 |
| 118 | Synthesis of amine functionalized cellulose nanocrystals: optimization and characterization. Carbohydrate Research, 2015, 409, 48-55. | 1.1 | 58 |
| 119 | Self-Assembly Behavior of a Stimuli-Responsive Water-Soluble [60]Fullerene-Containing Polymer. Langmuir, 2004, 20, 8569-8575. | 1.6 | 57 |
| 120 | Synthesis and Self-Assembly Behavior of Four-Arm Poly(ethylene oxide)-b-poly(2-(diethylamino)ethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.6 | 57 |
| 121 | Viscoelastic properties of hydrophobically modified alkali-soluble emulsion in salt solutions. Polymer, 1999, 40, 6369-6379. | 1.8 | 56 |
| 122 | Microstructure of Dilute Hydrophobically Modified Alkali Soluble Emulsion in Aqueous Salt Solution. Macromolecules, 2000, 33, 404-411. | 2.2 | 56 |
| 123 | Association Behavior of Biotinylated and Non-Biotinylated Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (oxide)-b | 2.6 | 56 |
| 124 | Microstructure and rheological properties of thermo-responsive poly(N-isopropylacrylamide) microgels. Polymer, 2010, 51, 3238-3243. | 1.8 | 56 |
| 125 | UV-Absorbing Cellulose Nanocrystals as Functional Reinforcing Fillers in Poly(vinyl chloride) Films. ACS Applied Nano Materials, 2018, 1, 632-641. | 2.4 | 56 |
| 126 | Self-Assembly of Alkali-Soluble [60]Fullerene Containing Poly(methacrylic acid) in Aqueous Solution. Macromolecules, 2005, 38, 933-939. | 2.2 | 55 |

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|---|---|---|---|
| 127 | Polymeric hollow microcapsules (PHM) via cellulose nanocrystal stabilized Pickering emulsion polymerization. Journal of Colloid and Interface Science, 2019, 555, 489-497. | 5.0 | 55 |
| 128 | Efficient visible-light induced H2 evolution from T-CdxZn1-xS/defective MoS2 nano-hybrid with both bulk twinning homojunctions and interfacial heterostructures. Applied Catalysis B: Environmental, 2020, 267, 118702. | 10.8 | 55 |
| 129 | Poly(N-isopropylacrylamide). II. Effect of polymer concentration, temperature, and surfactant on the viscosity of aqueous solutions. Journal of Polymer Science Part A, 1993, 31, 963-969. | 2.5 | 54 |
| 130 | Calorimetric Studies of Model Hydrophobically Modified Alkali-Soluble Emulsion Polymers with Varying Spacer Chain Length in Ionic Surfactant Solutions. Macromolecules, 2000, 33, 1727-1733. | 2.2 | 54 |
| 131 | Control of burst release from nanogels via layer by layer assembly. Journal of Controlled Release, 2008, 128, 248-254. | 4.8 | 54 |
| 132 | Interactions of nanocrystalline cellulose with an oppositely charged surfactant in aqueous medium. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 415, 310-319. | 2.3 | 54 |
| 133 | Self-Assembly Behavior of Thermoresponsive Oligo(ethylene glycol) Methacrylates Random Copolymer. ACS Macro Letters, 2012, 1, 632-635. | 2.3 | 54 |
| 134 | Thermo and light-responsive phase change nanofibers with high energy storage efficiency for energy storage and thermally regulated onâ€“off drug release devices. Chemical Engineering Journal, 2019, 375, 121979. | 6.6 | 54 |
| 135 | Supramolecular Complexes of Azocellulose and Î±-Cyclodextrin:Â Isothermal Titration Calorimetric and Spectroscopic Studies. Macromolecules, 2005, 38, 2859-2864. | 2.2 | 53 |
| 136 | Poly(N-isopropylacrylamide). I. Interactions with sodium dodecyl sulfate measured by conductivity. Journal of Polymer Science Part A, 1993, 31, 957-962. | 2.5 | 51 |
| 137 | Preparation, characterization and novel photoregulated rheological properties of azobenzene functionalized cellulose derivatives and their Î±-CD complexes. Polymer, 2004, 45, 6219-6225. | 1.8 | 51 |
| 138 | Self-Assembly of Stimuli-Responsive Water-Soluble [60]Fullerene End-Capped Ampholytic Block Copolymer. Journal of Physical Chemistry B, 2005, 109, 4431-4438. | 1.2 | 51 |
| 139 | Structural and Energetic Studies on the Interaction of Cationic Surfactants and Cellulose Nanocrystals. Langmuir, 2016, 32, 689-698. | 1.6 | 51 |
| 140 | Light Scattering of Dilute Hydrophobically Modified Alkali-Soluble Emulsion Solutions:Â Effects of Hydrophobicity and Spacer Length of Macromonomer. Macromolecules, 2000, 33, 7021-7028. | 2.2 | 50 |
| 141 | Interactions between Poly(acrylic acid) and Sodium Dodecyl Sulfate:â€‰ Isothermal Titration Calorimetric and Surfactant Ion-Selective Electrode Studies. Journal of Physical Chemistry B, 2005, 109, 5156-5161. | 1.2 | 50 |
| 142 | Double stabilization mechanism of O/W Pickering emulsions using cationic nanofibrillated cellulose. Journal of Colloid and Interface Science, 2020, 574, 207-216. | 5.0 | 50 |
| 143 | Effect of fillers on the structure and mechanical properties of LCP/PP/SiO2 in-situ hybrid nanocomposites. Composites Science and Technology, 2003, 63, 339-346. | 3.8 | 49 |
| 144 | Clustering of magnetic nanoparticles using a double hydrophilic block copolymer, poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 | 1.0 | 49 |

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|---|---|---|---|
| 145 | Synthesis of an acid-labile polymeric prodrug DOX-acetal-PEG-acetal-DOX with high drug loading content for pH-triggered intracellular drug release. Polymer Chemistry, 2015, 6, 4809-4818. | 1.9 | 49 |
| 146 | Model Alkali-Soluble Associative (HASE) Polymers and Ionic Surfactant Interactions Examined by Isothermal Titration Calorimetry. Langmuir, 2000, 16, 2151-2156. | 1.6 | 48 |
| 147 | Aggregation Behavior and Thermodynamics of Binding between Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 662 Td (o: | 1.6 | 48 |
| 148 | Synthesis and thermally responsive properties of novel Pluronic F87/polycaprolactone (PCL) block copolymers with short PCL blocks. Journal of Applied Polymer Science, 2006, 100, 4163-4172. | 1.3 | 48 |
| 149 | Convenient characterization of polymers grafted on cellulose nanocrystals via SI-ATRP without chain cleavage. Carbohydrate Polymers, 2018, 199, 603-609. | 5.1 | 48 |
| 150 | Synthesis of hollow spherical calcium phosphate nanoparticles using polymeric nanotemplates. Nanotechnology, 2006, 17, 5988-5994. | 1.3 | 47 |
| 151 | Rheological properties of model alkali-soluble associative (HASE) polymer in ionic and non-ionic surfactant solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 154, 365-382. | 2.3 | 46 |
| 152 | The use of microgel iron oxide nanoparticles in studies of magnetic resonance relaxation and endothelial progenitor cell labelling. Biomaterials, 2010, 31, 3296-3306. | 5.7 | 46 |
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