# Blaise L Tardy

List of Publications by Year
in descending order



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|---|---|---|---|
| 67 papers | 2,961 citations | 33 h-index (126907) | 53 g-index (168389) |
| 77 all docs | 77 docs citations | 77 times ranked | 3853 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Bacterial nanocellulose enables auxetic supporting implants. Carbohydrate Polymers, 2022, 284, 119198. | 10.2 | 12 |
| 2 | Rapid assembly of colorless antimicrobial and anti-odor coatings from polyphenols and silver. Scientific Reports, 2022, 12, 2071. | 3.3 | 9 |
| 3 | Nanochitin: Chemistry, Structure, Assembly, and Applications. Chemical Reviews, 2022, 122, 11604-11674. | 47.7 | 102 |
| 4 | Benchmarking supramolecular adhesive behavior of nanocelluloses, cellulose derivatives and proteins. Carbohydrate Polymers, 2022, 292, 119681. | 10.2 | 10 |
| 5 | Highly regioselective surface acetylation of cellulose and shaped cellulose constructs in the gas-phase. Green Chemistry, 2022, 24, 5604-5613. | 9.0 | 12 |
| 6 | Plant Nanomaterials and Inspiration from Nature: Water Interactions and Hierarchically Structured Hydrogels. Advanced Materials, 2021, 33, e2001085. | 21.0 | 117 |
| 7 | Impact of incubation conditions and post-treatment on the properties of bacterial cellulose membranes for pressure-driven filtration. Carbohydrate Polymers, 2021, 251, 117073. | 10.2 | 15 |
| 8 | Infiltration of Proteins in Cholesteric Cellulose Structures. Biomacromolecules, 2021, 22, 2067-2080. | 5.4 | 19 |
| 9 | Hybrid Living Capsules Autonomously Produced by Engineered Bacteria. Advanced Science, 2021, 8, 2004699. | 11.2 | 17 |
| 10 | Plantâ€Derived Hydrogels: Plant Nanomaterials and Inspiration from Nature: Water Interactions and Hierarchically Structured Hydrogels (Adv. Mater. 28/2021). Advanced Materials, 2021, 33, 2170218. | 21.0 | 2 |
| 11 | Deconstruction and Reassembly of Renewable Polymers and Biocolloids into Next Generation Structured Materials. Chemical Reviews, 2021, 121, 14088-14188. | 47.7 | 113 |
| 12 | Superstructured mesocrystals through multiple inherent molecular interactions for highly reversible sodium ion batteries. Science Advances, 2021, 7, eabh3482. | 10.3 | 74 |
| 13 | Biofilms in plant-based fermented foods: Formation mechanisms, benefits and drawbacks on quality and safety, and functionalization strategies. Trends in Food Science and Technology, 2021, 116, 940-953. | 15.1 | 15 |
| 14 | Chitinâ€"amyloid synergism and their use as sustainable structural adhesives. Journal of Materials Chemistry A, 2021, 9, 19741-19753. | 10.3 | 11 |
| 15 | Multifunctional lignin-based nanocomposites and nanohybrids. Green Chemistry, 2021, 23, 6698-6760. | 9.0 | 93 |
| 16 | Assembling Native Elementary Cellulose Nanofibrils via a Reversible and Regioselective Surface Functionalization. Journal of the American Chemical Society, 2021, 143, 17040-17046. | 13.7 | 41 |
| 17 | Superstable Wet Foams and Lightweight Solid Composites from Nanocellulose and Hydrophobic Particles. ACS Nano, 2021, 15, 19712-19721. | 14.6 | 14 |
| 18 | Guiding Bacterial Activity for Biofabrication of Complex Materials <i>via</i> Controlled Wetting of Superhydrophobic Surfaces. ACS Nano, 2020, 14, 12929-12937. | 14.6 | 23 |

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|---|---|---|---|
| 19 | Nanofibrillar networks enable universal assembly of superstructured particle constructs. Science Advances, 2020, 6, eaaz7328. | 10.3 | 44 |
| 20 | Effect of particle surface corrugation on colloidal interactions. Journal of Colloid and Interface Science, 2020, 579, 794-804. | 9.4 | 8 |
| 21 | Exploiting Supramolecular Interactions from Polymeric Colloids for Strong Anisotropic Adhesion between Solid Surfaces. Advanced Materials, 2020, 32, e1906886. | 21.0 | 64 |
| 22 | Comparative Screening of the Structural and Thermomechanical Properties of FDM Filaments Comprising Thermoplastics Loaded with Cellulose, Carbon and Glass Fibers. Materials, 2020, 13, 422. | 2.9 | 24 |
| 23 | Hierarchical assembly of nanostructured coating for siRNA-based dual therapy of bone regeneration and revascularization. Biomaterials, 2020, 235, 119784. | 11.4 | 45 |
| 24 | Adsorption and Assembly of Cellulosic and Lignin Colloids at Oil/Water Interfaces. Langmuir, 2019, 35, 571-588. | 3.5 | 120 |
| 25 | How Cellulose Nanofibrils Affect Bulk, Surface, and Foam Properties of Anionic Surfactant Solutions. Biomacromolecules, 2019, 20, 4361-4369. | 5.4 | 36 |
| 26 | Morphology-Controlled Synthesis of Colloidal Polyphenol Particles from Aqueous Solutions of Tannic Acid. ACS Sustainable Chemistry and Engineering, 2019, 7, 16985-16990. | 6.7 | 18 |
| 27 | Soft cellulose II nanospheres: solâ€“gel behaviour, swelling and material synthesis. Nanoscale, 2019, 11, 17773-17781. | 5.6 | 30 |
| 28 | Accounting for Substrate Interactions in the Measurement of the Dimensions of Cellulose Nanofibrils. Biomacromolecules, 2019, 20, 2657-2665. | 5.4 | 34 |
| 29 | Biomimetic Templating: Tessellation of Chiralâ€Nematic Cellulose Nanocrystal Films by Microtemplating (Adv. Funct. Mater. 25/2019). Advanced Functional Materials, 2019, 29, 1970169. | 14.9 | 1 |
| 30 | Expanding the upper limits of robustness of cellulose nanocrystal aerogels: outstanding mechanical performance and associated pore compression response of chiral-nematic architectures. Journal of Materials Chemistry A, 2019, 7, 15309-15319. | 10.3 | 35 |
| 31 | Measuring the Interfacial Behavior of Sugar-Based Surfactants to Link Molecular Structure and Uses. , 2019, , 387-412. | | 1 |
| 32 | Surface Activity and Foaming Capacity of Aggregates Formed between an Anionic Surfactant and Non-Cellulosics Leached from Wood Fibers. Biomacromolecules, 2019, 20, 2286-2294. | 5.4 | 15 |
| 33 | Self-Assembly: Targeted Therapy against Metastatic Melanoma Based on Self-Assembled Metal-Phenolic Nanocomplexes Comprised of Green Tea Catechin (Adv. Sci. 5/2019). Advanced Science, 2019, 6, 1970028. | 11.2 | 2 |
| 34 | Protein Adsorption and Coordination-Based End-Tethering of Functional Polymers on Metalâ€“Phenolic Network Films. Biomacromolecules, 2019, 20, 1421-1428. | 5.4 | 35 |
| 35 | Tessellation of Chiralâ€Nematic Cellulose Nanocrystal Films by Microtemplating. Advanced Functional Materials, 2019, 29, 1808518. | 14.9 | 37 |
| 36 | Continuous Metalâ€“Organic Framework Biomineralization on Cellulose Nanocrystals: Extrusion of Functional Composite Filaments. ACS Sustainable Chemistry and Engineering, 2019, 7, 6287-6294. | 6.7 | 49 |

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|---|---|---|---|
| 37 | Asymmetrical coffee rings from cellulose nanocrystals and prospects in art and design. Cellulose, 2019, 26, 491-506. | 4.9 | 45 |
| 38 | Targeted Therapy against Metastatic Melanoma Based on Selfâ€Assembled Metalâ€Phenolic Nanocomplexes Comprised of Green Tea Catechin. Advanced Science, 2019, 6, 1801688. | 11.2 | 109 |
| 39 | Porous Inorganic and Hybrid Systems for Drug Delivery: Future Promise in Combatting Drug Resistance and Translation to Botanical Applications. Current Medicinal Chemistry, 2019, 26, 6107-6131. | 2.4 | 23 |
| 40 | Lignin nano- and microparticles as template for nanostructured materials: formation of hollow metal-phenolic capsules. Green Chemistry, 2018, 20, 1335-1344. | 9.0 | 64 |
| 41 | Biofabrication of multifunctional nanocellulosic 3D structures: a facile and customizable route. Materials Horizons, 2018, 5, 408-415. | 12.2 | 81 |
| 42 | Thermal Transition of Bimetallic Metalâ€“Phenolic Networks to Biomassâ€Derived Hierarchically Porous Nanofibers. Chemistry - an Asian Journal, 2018, 13, 972-976. | 3.3 | 16 |
| 43 | Controlled biocide release from hierarchically-structured biogenic silica: surface chemistry to tune release rate and responsiveness. Scientific Reports, 2018, 8, 5555. | 3.3 | 35 |
| 44 | Use of Biogenic Silica in Porous Alginate Matrices for Sustainable Fertilization with Tailored Nutrient Delivery. ACS Sustainable Chemistry and Engineering, 2018, 6, 2716-2723. | 6.7 | 22 |
| 45 | Particulate Coatings via Evaporation-Induced Self-Assembly of Polydisperse Colloidal Lignin on Solid Interfaces. Langmuir, 2018, 34, 5759-5771. | 3.5 | 44 |
| 46 | Biobased aerogels with different surface charge as electrolyte carrierÂmembranes in quantum dot-sensitized solar cell. Cellulose, 2018, 25, 3363-3375. | 4.9 | 17 |
| 47 | Effect of Anisotropy of Cellulose Nanocrystal Suspensions on Stratification, Domain Structure Formation, and Structural Colors. Biomacromolecules, 2018, 19, 2931-2943. | 5.4 | 61 |
| 48 | Green Formation of Robust Supraparticles for Cargo Protection and Hazards Control in Natural Environments. Small, 2018, 14, e1801256. | 10.0 | 32 |
| 49 | Nanocelluloseâ€“surfactant interactions. Current Opinion in Colloid and Interface Science, 2017, 29, 57-67. | 7.4 | 134 |
| 50 | Silver metal nano-matrixes as high efficiency and versatile catalytic reactors for environmental remediation. Scientific Reports, 2017, 7, 45112. | 3.3 | 11 |
| 51 | Supramolecular assemblies of lignin into nano- and microparticles. MRS Bulletin, 2017, 42, 371-378. | 3.5 | 70 |
| 52 | Formation of Polyrotaxane Particles via Template Assembly. Biomacromolecules, 2017, 18, 2118-2127. | 5.4 | 9 |
| 53 | Insights into Free Volume Variations across Ion-Exchange Membranes upon Mixed Solvents Uptake by Small and Ultrasmall Angle Neutron Scattering. ACS Applied Materials & Interfaces, 2017, 9, 8704-8713. | 8.0 | 7 |
| 54 | Optical Properties of Selfâ€Assembled Cellulose Nanocrystals Films Suspended at Planarâ€“Symmetrical Interfaces. Small, 2017, 13, 1702084. | 10.0 | 39 |

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| 55 | Influence of Ionic Strength on the Deposition of Metalâ€"Phenolic Networks. Langmuir, 2017, 33, 10616-10622. | 3.5 | 61 |
| 56 | Controlled release for crop and wood protection: Recent progress toward sustainable and safe nanostructured biocidal systems. Journal of Controlled Release, 2017, 262, 139-150. | 9.9 | 123 |
| 57 | Charge tunable thin-film composite membranes by gamma-ray triggered surface polymerization. Scientific Reports, 2017, 7, 4426. | 3.3 | 9 |
| 58 | Modular assembly of superstructures from polyphenol-functionalized building blocks. Nature Nanotechnology, 2016, 11, 1105-1111. | 31.5 | 337 |
| 59 | Nanoparticles assembled via pH-responsive reversible segregation of cyclodextrins in polyrotaxanes. Nanoscale, 2016, 8, 15589-15596. | 5.6 | 22 |
| 60 | Towards Enhanced Performance Thin-film Composite Membranes via Surface Plasma Modification. Scientific Reports, 2016, 6, 29206. | 3.3 | 50 |
| 61 | Thermally Induced Charge Reversal of Layer-by-Layer Assembled Single-Component Polymer Films. ACS Applied Materials & Interfaces, 2016, 8, 7449-7455. | 8.0 | 28 |
| 62 | Temperature dependent mechanical properties of air, oil and water filled microcapsules studied by atomic force microscopy. Polymer, 2016, 102, 333-341. | 3.8 | 18 |
| 63 | Boronateâ€"Phenolic Network Capsules with Dual Response to Acidic pH and <i>cis</i>â€Diols. Advanced Healthcare Materials, 2015, 4, 1796-1801. | 7.6 | 60 |
| 64 | Convective polymer assembly for the deposition of nanostructures and polymer thin films on immobilized particles. Nanoscale, 2014, 6, 13416-13420. | 5.6 | 17 |
| 65 | Self-Assembled Stimuli-Responsive Polyrotaxane Coreâ€"Shell Particles. Biomacromolecules, 2014, 15, 53-59. | 5.4 | 38 |
| 66 | Fabrication of thin film composite poly(amide)-carbon-nanotube supported membranes for enhanced performance in osmotically driven desalination systems. Journal of Membrane Science, 2013, 427, 422-430. | 8.2 | 81 |
| 67 | Microporous Membranes for Ultrafast and Energy-Efficient Removal of Antibiotics Through Polyphenol-Mediated Nanointerfaces. SSRN Electronic Journal, 0, , . | 0.4 | 0 |