

Original contributions, review papers, book chapters, [books](#), [book reviews](#)

Accepted manuscripts and online publications:

[Structure, thermal stability and electrical properties of cellulose-6-phosphate: Development of a novel fast Na-ionic conductor](#)

R. Marzouki, A. Brahmia, Q. A. Alsulami, S. M.A.S. Keshk, A.-H. Emwas, M. Jaremko, M. F. Zid, Th. Heinze
Polymer International (2021), DOI: 10.1002/pi.6198

[Upgrading Euphorbia Antisyphilitica fiber compost: A waste material turned into nanocrystalline cellulose](#)

E. U. Pulido-Barragán, A. B.Morales-Cepeda, C. F.Castro-Guerrero, A. Koschella, Th. Heinze
Industrial Crops and Products (2020) DOI: 10.1016/j.indcrop.2020.113111

[Biocompatible sulfated valproic acid-coupled polysaccharide-based nanocarriers with HDAC inhibitory activity](#)

M. Kühne, H. Lindemann, C. Grune, D. Schröder, Z. Cseresnyés, M. Godmann, A. Koschella, M. T. Figge, C. Eggeling, D. Fischer, Th. Heinze, Th. Heinzel
Journal of Controlled Release (2020) DOI: 10.1016/j.jconrel.2020.10.006

[Green fabrication of highly conductive paper electrodes via interface engineering with aminocellulose](#)

Y. Yang, Q. Huang, R. Sun, J. Ren, Th. Heinze, X. Wang
Macromolecular Rapid Communications (2020) DOI: 10.1002/marc.202000499

[Studies about the design of magnetic bionanocomposite](#)

R. Müller, J. Kuchinka, Th. Heinze
Physical Sciences Reviews (2020) PSR.2019.0122.R1

[Recent progress on cellulose-based ionic compounds for biomaterials](#)

Y. Yang, Y.-T. Lu, K. Zeng, Th. Heinze, Th. Groth, K. Zhang
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Printed publications:

513. [Polymer nanoparticles for drug delivery – synthetic vs. biopolymers?](#)

M. Gericke, Th. Heinze
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512. [The role of formamidine groups in dextran based non-viral vectors for gene delivery on their physicochemical and biological characteristics](#)

D. Fischer, N. Dusek, K. Hotzel, Th. Heinze
Macromolecular Bioscience **21** (2021) 2000220.

511. [Protein repellent anti-coagulative mixed-charged cellulose derivative coatings](#)
M. Bračič, T. Mohan, R. Kargl, Th. Grießer, Th. Heinze, K. Stana Kleinschek
Carbohydrate Polymers **254** (2021) 117437.
510. [Carboxymethylation of polysaccharides – A comparative study](#)
L. Gabriel, A. Tied, Th. Heinze
Cellulose Chemistry and Technology **54** (2020) 835-844.
509. [Mechanistic considerations of efficient esterification of starch with propionic anhydride/lauric acid in the green solvent imidazole](#)
S. Blohm, Th. Heinze
Macromolecular Chemistry and Physics **221** (2020) 2000264.
508. [Aminoethyl substitution enhances the self-assembly properties of an aminocellulose as a potential archaeological wood consolidant](#)
J. Wakefield, S. Harding, Th. Heinze
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507. [Perspectives of polysaccharide nanoparticles in advanced biomedical applications: A commentary on emerging technologies in polysaccharide research](#)
M. Gericke, Th. Heinze
International Journal of Biological and Chemical Research **1** (2020) 8-12.
506. [Comparative studies on regioselectivity of \$\alpha\$ - and \$\beta\$ -linked glucan tosylation](#)
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505. [Polysaccharide – Basis für nachhaltige Materialien](#)
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504. [Structure design of polysaccharides - chemoselective sulfoethylation of chitosan](#)
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503. [Meltable fatty acid esters of \$\alpha\$ -1,3-glucan as potential thermoplastics](#)
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501. [Polysaccharide valproates: Structure - property relationships in solution](#)
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499. [Layer-by-layer coating of aminocellulose and quorum quenching acylase on silver nanoparticles synergistically eradicate bacteria and their biofilms](#)
A. Ivanova, K. Ivanova, A. Tied, Th. Heinze, T. Tzanov
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493. [Synthesis and characterization of dicarboxymethyl cellulose](#)
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492. [Synthesis, characterization and ampyrone drug release behavior of magnetite nanoparticle/2,3-dialdehyde cellulose-6-phosphate composite](#)
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484. [Studies about the acylation of starch in dipolar aprotic solvents](#)

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