CHEMISTRY UPDATE 12 April 2023

C1	Ahsan, Syaiful	Camphoric acid-derived biobased (co)polyesters: Synthesis and enzymatic degradation (RuG)
C2	Alves Freitas, Walber	Reuse of lignin and cellulose as a biobased alternative for synthetic composites (RuG)
C3	Andrade, Roberto	Inhibiting shuttle effect with polyelectrolyte complex modified membrane in Li-S batteries (RuG)
C4	Azhdari, Suna	Fully biodegradable cubosome (UT)
C5	Benninga, Joël	Enzymatic depolymerization of polyester blends (RuG)
C6	Burhani, Dian	Preparation and characterization of PVA/nanocellulose composite membrane for microplastic removal (RuG)
C7	Chen, Mokun	Construction of glycoassemblies by preparing duplex-responsive triblock glycopolymers (RuG)
C8	Darikwa, Tinashe	Exploring polymer architecture control for improved inhibitor release (TUD)
C9	Gao, Kai	Lignin nanoparticles as highly efficient, recyclable emulsifiers for enhanced oil recovery (UT)
C10	Germain, Lieke	Thiourea hydrogen bonded self-healing solid polymer electrolytes for Li-S batteries (RuG)
C11	Guo, Yunfei	A mechanistic study of aromatic imide formation for high-performance poly(urethane imide)s (TU/e)
C12	Guzik, Aleksander	Hydrophobically modified block copolymer gelators based on electrostatically-driven self assembly (RuG)
C13	Jongstra, Jesse	Novel bio-based polyester(amides) synthesized from waste sugar beet pulp (RuG)
C14	Kaymazlar, Elif	Recyclable and self-healable reversible underwater adhesive PDMS (TUD)
C15	Lemos de Morais, Ana	Characterization of compounds based on biopolymer matrix with triethyl citrate (TEC) and lauric acid (LA) (RuG)
C16	Moreira Grilo, Luan	Diels-Alder polymers based on renewable furanic cyclobutanes (RuG)
C17	Pelras, Théophile	Enzymatic synthesis of peptide oligomers from amino acids with hydrophobic side-groups (RuG)

C18	Poniatowska, Jadwiga	Solvent separations with cholesteric liquid crystalline polymer membranes (TU/e)
C19	Post, Cornelis	Biobased 2,5-bis(hydroxymethyl)furan as a building block for sustainable polyesters (RuG)
C20	Qiu, Xia	Dextrin-based thermo-responsive hydrogels (RuG)
C21	Silvianti, Fitrilia	Enzymatic synthesis of furanic-aliphatic polyesters: Isomeric substitution effects (RuG)
C22	Sun, Siwen	Engineering transient dynamics of artificial cells by stochastic distribution of enzymes (TU/e)
C23	Thomou, Eleni	Evaluation of additives' effect on PET recycling (RuG)
C24	Türel, Tankut	Chemically recyclable epoxy resins derived from biorenewable resources (TU/e)
C25	Wang, Changlin	Closed-loop recyclable high performance polyimine aerogels derived from bio-based resources (TU/e)
C26	Wink, Roy	Increased stability for phosphate ester dynamic covalent networks (TU/e)
C27	Yesil Gur, Isil	Development of nanoreactors for polyolefin recycling (TU/e)
C28	Zhang, Tao	Recyclable polyurethane-based photoresin for 3D printing based on dynamic covalent bonds (RuG)
C29	Zhang, Yuxuan	Single-ion conducting electrolytes for safe and efficient lithium batteries using poly(allyl-glycidyl-ether) (RuG)

BIOMEDICAL UPDATE 12 April 2023

B1	Brock, Kimberly	Thiol-mediated coupling chemistry as a crosslinking method to prepare dynamic, self-healing hydrogels (UT)
B2	Guo, Yunqi	Preparation of Hybrid Nanomotors for Efficient Tumor Therapy (TU/e)
B3	Li, Rui	Contact killing by covalently immobilized cationic hydrophilic antibacterial coatings on titanium due to electrostatic stress (RuG)
B4	Li, Yudong	Facile Preparation of Rapamycin-loaded PEG-PLA Nanoparticles for Immunotherapy (TU/e)
B5	Wu, Xixi	Melt electro-written scaffolds enriched in fluorescent nanodiamonds for improved mechanical properties and degradation monitoring (RuG)

PHYSICS & THEORY UPDATE 12 April 2023

P1	Raja, Anand	Trends in the Consistency Index of Screened and Unscreened Concentrated Biopolymer Systems (TUD)
P2	Ritsema van Eck, Guido	Anomalous vapor swelling in polymer brushes (UT)
P3	Veldscholte, Lars	Vapour sorption in polydisperse polymer brushes (UT)

TECHNOLOGY UPDATE 12 April 2023

T1	Bahçeci, Ekrem	Leveraging morphology for design of complex materials for 4D printing: Towards resolving two interacting ellipsoids using AI (TU/e)
T2	Berlo van, Frank	Focused ultrasound 3D printing (TU/e)
T3	Broek van, Sten	Crack growth in isotactic Polypropylene: Effect of molecular weight and temperature (TU/e)
T4	Geveling, Rosa	PEEK: from structure to properties (TU/e)
T5	Gracht van den, Coen	Surface deformation of rheologically complex fluids upon air jet impingement (TU/e)
T6	Heugten van, Paul	Structural performance of reversible dynamic materials (TU/e)
T7	Maaskant, Evelien	Renewable pigments based on carbohydrates and agro residues (WUR)
T8	Milatz, Roland	Designer polydopamines for surface engineering (UT)
T9	Rai, Parajal	Modeling and measuring local rheological properties of soft materials using magnetic microstructures (TU/e)
T10	Safari, Maryam	Shining a light on sustainability: Bio-resourced photonic whitener (WUR)
T11	Tavaststjerna, Miisa	Low-icing surfaces - The effect of patterning on surface freezing mechanisms (TUD)
T12	Vogelzang, Willem	Assessment of the mechanical recycling potential of dynamic covalent thermoset with near-identical matrices (WUR)