Saskia Lindhoud
Associate Professor
Molecular Nanofabrication
MESA+ Institute

Qualifications

PhD, Polyelectrolyte Complex Micelles as Wrapping for Enzymes, Wageningen University & Research
1 Oct 2005 → 30 Sept 2009
Award Date: 16 Sept 2019

Master, Wageningen University & Research
1 Apr 2003 → 14 Aug 2005
Award Date: 14 Aug 2005

Bachelor, Wageningen University & Research
1 Sept 2000 → 31 Mar 2003
Award Date: 2 Apr 2003

Employment

Associate Professor
Molecular Nanofabrication
University of Twente
1 Jul 2022 → present

Associate Professor
MESA+ Institute
University of Twente
1 Jan 2018 → present

Post-doc
University of Bath
Bath, United Kingdom
1 Oct 2009 → 30 Nov 2011

Research outputs

Conceptual Modeling Enables Systems Thinking in Sustainable Chemistry and Chemical Engineering
Krab - Hüsken, L. E., Pei, L., de Vries, P. G., Lindhoud, S., Paulusse, J. M. J., Jonkheijm, P. & Wong, A. S. Y., 12 Dec 2023, In: Journal of chemical education. 100, 12, p. 4577-4584 8 p.

Control over Charge Density by Tuning the Polyelectrolyte Type and Monomer Ratio in Saloplastic-Based Ion-Exchange Membranes
Krishna B, A., de Vos, W. M. & Lindhoud, S., 16 May 2023, In: Langmuir. 39, 19, p. 6874-6884 11 p.

Preparation of Sodium Carboxymethyl Cellulose-Chitosan Complex Membranes through Sustainable Aqueous Phase Separation
Li, L., Baig, M. I., de Vos, W. M. & Lindhoud, S., 10 Mar 2023, In: ACS Applied Polymer Materials. 5, 3, p. 1810-1818 9 p.

Biomolecular condensates can both accelerate and suppress aggregation of α-synuclein
Lipiński, W. P., Visser, B. S., Robu, I., Fakhree, M. A. A., Lindhoud, S., Claessens, M. M. A. E. & Spruijt, E., 2 Dec 2022, In: Science advances. 8, 48, eabq6495.

Biocatalytic membranes through aqueous phase separation
van Lente, J. J., Baig, M. I., de Vos, W. M. & Lindhoud, S., 15 Jun 2022, In: Journal of colloid and interface science. 616, p. 903-910 8 p.

Sustainable K^+/Na^+ monovalent-selective membranes with hot-pressed PSS-PVA saloplastics
Krishna B, A., Zwijnenberg, H. J., Lindhoud, S. & de Vos, W. M., 15 Jun 2022, In: Journal of membrane science. 652, 120463.

Hot-pressing polyelectrolyte complexes into tunable dense saloplastics
Krishna B, A., Willott, J. D., Lindhoud, S. & de Vos, W. M., 1 Mar 2022, In: Polymer. 242, 124583.

Extraction of Lysozyme from Chicken Albumen Using Polyelectrolyte Complexes
van Lente, J. J. & Lindhoud, S., 10 Feb 2022, In: Small. 18, 6, 2105147.

Complex coacervates as extraction media
van Lente, J., Pazos Urrea, M., Brouwer, T., Schuur, B. & Lindhoud, S., 21 Aug 2021, In: Green chemistry. 23, 16, p. 5812-5824 13 p.

Hot-pressed polyelectrolyte complexes as novel alkaline stable monovalent-ion selective anion exchange membranes
Krishna B, A., Lindhoud, S. & de Vos, W. M., Jul 2021, In: Journal of colloid and interface science. 593, p. 11-20 10 p.

Charge-Based Separation of Proteins Using Polyelectrolyte Complexes as Models for Membraneless Organelles
van Lente, J. J., Claessens, M. M. A. E. & Lindhoud, S., 14 Oct 2019, In: Biomacromolecules. 20, 10, p. 3696-3703 8 p.

Annealing of Polyelectrolyte Multilayers for Control over Ion Permeation
Reurink, D. M., Haven, J. P., Achterhuis, I., Lindhoud, S., Roesink, H. D. W. & de Vos, W. M., 23 Oct 2018, In: Advanced materials interfaces. 5, 20, 1800651.

Biocompatible single-chain polymer nanoparticles for drug deliverya dual approach
Kröger, A. P. P., Hamelmann, N. M., Juan, A., Lindhoud, S. & Paulusse, J. M. J., 19 Sept 2018, In: ACS Applied Materials and Interfaces. 10, 37, p. 30946-30951 6 p.

TEMPO-oxidised cellulose nanofibrils; Probing the mechanisms of gelation: Via small angle X-ray scattering
Schmitt, J., Calabrese, V., Da Silva, M. A., Lindhoud, S., Alfredsson, V., Scott, J. L. & Edler, K. J., 21 Jun 2018, In: Physical chemistry chemical physics. 20, 23, p. 16012-16020 9 p.

Oligonucleotide Length-Dependent Formation of Virus-Like Particles
Maassen, S. J., de Ruiter, M. V., Lindhoud, S. & Cornelissen, J. J. L. M., 23 May 2018, In: Chemistry : a European journal. 24, 29, p. 7456-7463 8 p.

Hydrophobic-Interaction-Induced Stiffening of α-Synuclein Fibril Networks
Semerdzhiev, S. A., Lindhoud, S., Stefanovic, A., Subramaniam, V., van der Schoot, P. & Claessens, M. M. A. E., 17 May 2018, In: Physical review letters. 120, 20, 6 p., 208102.

Accumulation of small protein molecules in a macroscopic complex coacervate
Lindhoud, S. & Claessens, M. M. A. E., 2016, In: Soft matter. 12, p. 408-413 6 p.

Oligomers of Parkinson's Disease-Related α-Synuclein Mutants have Similar Structures but Distinctive Membrane Permeabilization Properties
Stefanovic, A. N. D., Lindhoud, S., Semerdzhiev, S. A., Claessens, M. M. A. E. & Subramaniam, V., 2015, In: Biochemistry (USA). 54, p. 3142-3150 9 p.

Modeling the Structure and Antifouling Properties of a Polymer Brush of Grafted Comb-Polymers
de Vos, W. M., Leermakers, F. A. M., Lindhoud, S. & Prescott, S. W., 2011, In: Macromolecules. 44, 7, p. 2334-2342

Prizes

Dave Blank Outreach Award 2019
Lindhoud, Saskia (Recipient), 30 Nov 2019

Teacher of the Year Award, Chemical Science and Engineering
Lindhoud, Saskia (Recipient), 28 Jan 2020

VENI Grant and UT Incentive Fund
Lindhoud, Saskia (Recipient), 2013

Press/Media

DE GROTE VRAAG | HELPT SCHEIKUNDE ONS AF VAN OLIE?
Saskia Lindhoud
31/12/19
1 Media contribution

Een cv zonder gat is geen garantie voor kwaliteit
Saskia Lindhoud
1/04/19
1 Media contribution

Oersoep en Afvalwater
Saskia Lindhoud
15/04/19
1 Media contribution

Radio interview "de optimist"
Saskia Lindhoud
27/03/19
1 Media contribution

Wetenschappelijke carrière moeders is gebaat bij slimmere selectiecriteria
Saskia Lindhoud
29/03/19
1 Media contribution

Awards

Projects