

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

Distribution of polyelectrolytes and counterions upon polyelectrolyte complexation

Allegri, G., Huskens, J., Martinho, R. P. & Lindhoud, S., 15 Oct 2024, In: Journal of colloid and interface science. 672, p. 654-663 10 p.

Biocatalytic PEI-PSS membranes through aqueous phase separation: influence of casting solution pH and operational temperature

Li, L., Baig, M. I., de Vos, W. M. & Lindhoud, S., 21 Jun 2024, In: Soft matter. 20, 27, p. 5425-5434 10 p.

Sequestration of Small Ions and Weak Acids and Bases by a Polyelectrolyte Complex Studied by Simulation and Experiment

Staño, R., van Lente, J. J., Lindhoud, S. & Košován, P., 13 Feb 2024, In: Macromolecules. 57, 3, p. 1383-1398 16 p.

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. (Corresponding Author), 23 Oct 2018, In: Advanced materials interfaces. 5, 20, 1800651.

Biocompatible single-chain polymer nanoparticles for drug delivery: a dual approach

Kröger, A. P. P., Hamelmann, N. M., Juan, A., Lindhoud, S. & Paulusse, J. M. J. (Corresponding Author), 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. (Corresponding Author), 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. (Corresponding Author), 23 May 2018, In: Chemistry : a European journal. 24, 29, p. 7456-7463 8 p.

Hydrophobic-Interaction-Induced Stiffening of α -Synuclein Fibril Networks

Semerdzhev, S. A., Lindhoud, S., Stefanovic, A., Subramaniam, V., van der Schoot, P. & Claessens, M. M. A. E. (Corresponding Author), 17 May 2018, In: Physical review letters. 120, 20, 6 p., 208102.

Accumulation of small protein molecules in a macroscopic complex coacervate

Lindhoud, S. (Corresponding Author) & 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. (Corresponding Author) & Subramaniam, V. (Corresponding Author), 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. (Corresponding Author), Leermakers, F. A. M., Lindhoud, S. & Prescott, S. W., 2011, In: Macromolecules. 44, 7, p. 2334-2342

Prizes

Dave Blank Outreach Award 2019

Lindhoud, S. (Recipient), 30 Nov 2019

Teacher of the Year Award, Chemical Science and Engineering

Lindhoud, S. (Recipient), 28 Jan 2020

VENI Grant and UT Incentive Fund

Lindhoud, S. (Recipient), 2013

Press/Media

DE GROTE VRAAG | HELPT SCHEIKUNDE ONS AF VAN OLIE?

Lindhoud, S.

31/12/19

1 Media contribution

Een cv zonder gat is geen garantie voor kwaliteit

Lindhoud, S.

1/04/19

1 Media contribution

Oersoep en Afvalwater

Lindhoud, S.

15/04/19

1 Media contribution

Radio interview "de optimist"

Lindhoud, S.

27/03/19

1 Media contribution

Wetenschappelijke carrière moeders is gebaat bij slimmere selectiecriteria

Lindhoud, S.

29/03/19

1 Media contribution

Awards

NWO VENI Grant

Lindhoud, S. (PI)

Netherlands Organisation for Scientific Research : €250,000.00

Projects