

Kirjallinen toiminta/List of publications

Hanna Vehkamäki (entinen/formerly Arstila)

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Up-to-date information on my citation metrics:

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A Peer-reviewed scientific articles

197. Xuemeng Chen, Juha Kangasluoma, Jakub Kubečka, Ivo Neefjes, Hanna Vehkamäki, Markku Kulmala, Amirreza Tootchi, Farah Mubas Sirah, Leyan Hua, Carlos Larriba-Andaluz and Heikki Junninen: On the Dependence of Electrical Mobility on Temperature, Humidity and Structure of Alkylammonium Ions. *Journal of Aerosol Science*, Vol 179, 106353, 2024.
196. Vitus Besel, Milica Todorović, Theo Kurtén, Hanna Vehkamäki, Patrick Rinke: The search for sparse data in molecular datasets: Application of active learning to identify extremely low volatile organic compounds. *Journal of Aerosol Science*, Vol 179, 106375, 2024.
195. Jakub Kubečka, Vitus Besel, Ivo Neefjes, Yosef Knattrup, Theo Kurtén, Hanna Vehkamäki and Jonas Elm: Computational Tools for Handling Molecular Clusters: Configurational Sampling, Storage, Analysis, and Machine Learning. *ACS Omega* 8, 47, pp. 5115–45128, 2023.
194. Vitus Besel, Milica Todorović, Theo Kurtén, Patrick Rinke and Hanna Vehkamäki: Atomic structures, conformers and thermodynamic properties of 32k atmospheric molecules. *Scientific Data* volume 10, Article number: 450, 2023.
193. Huan Yang, Ivo Neefjes, Valtteri Tikkanen, Jakub Kubečka, Theo Kurtén, Hanna Vehkamäki, and Bernhard Reischl: Collision-sticking rates of acid–base clusters in the gas phase determined from atomistic simulation and a novel analytical interacting hard-sphere model.

- Atmospheric Chemistry and Physics, Vol 23, pp. 5993-6009, 2023.
192. Antti Toropainen, Juha Kangasluoma, Hanna Vehkamäki and Jakub Kubečka: Heterogeneous ion-induced nucleation of water and butanol vapors studied via computational quantum chemistry beyond prenucleation and critical cluster sizes. *Journal of Physical Chemistry A*, Vol 127, pp. 3976-3990, 2023.
191. Anna Lintunen, Juho Aalto, Ari Asmi, Mika Aurela, Jaana Bäck, Mikael Ehn, Ekaterina Ezhova, Hannele Hakola, Kari Hartonen, Jussi Heinonsalo, Heidi Hellén, Teemu Hölttä, Tuija Jokinen, Leena Järvi, Heikki Järvinen, Juha Kangasluoma, Veli-Matti Kerminen, Pasi Kolari, Kajar Köster, Egle Köster, Liisa Kulmala, Theo Kurtén, Ari Laaksonen, Hanna K. Lappalainen, Tuomas Laurila, Katrianne Lehtipalo, Heikki Lihavainen, Annalea Lohila, Annikki Mäkelä, Mari Mäki, Risto Makkonen, Ivan Mammarella¹, Santtu Mikkonen¹¹, Dmitri Moisseev, Anne Ojala, Tuukka Petäjä, Mari Pihlatie, Albert Porcar-Castell, Arnaud P. Praplan, Jouni Pulliainen, Jukka Pumpunen, Pekka Rantala, Marja-Liisa Riekkola, Kaisa Rissanen, Sami Romakkaniemi, José Ruiz-Jimenez, Nina Sarnela, Simon Schallhart, Pauliina Schiestl-Aalto, Janne Rinne, Eeva-Stiina Tuittila, Hanna Vehkamäki, Timo Vesala, Yrjö Viisanen, Annele Virtanen, Ilona Ylivinkka, Pertti Hari and Markku Kulmala: The Center of Excellence in Atmospheric Science (2002-2019) - from molecular and biological processes to the global climate. *Boreal Environmental Research*, Vol 28, pp15-18, 2023.
190. Ivo Neefjes, Roope Halonen, Hanna Vehkamäki and Bernhard Reischl: Modeling approaches for atmospheric ion-dipole collisions: all-atom trajectory simulations and central field methods. *Atmospheric Chemistry and Physics* Vol 22, pp. 11155–11172, 2022.
189. Valtteri Tikkanen, Bernhard Reischl, Hanna Vehkamäki and Roope Halonen Nonisothermal nucleation in the gas phase is driven by cool subcritical clusters. *PNAS (Proceedings of the National Academy of Sciences)*, Vol 119 (28) e2201955119, 2022.
188. Golnaz Roudsari, Olli H. Pakarinen, Bernhard Reischl and Hanna Vehkamäki: Atomistic and coarse-grained simulations reveal increased ice nucleation activity on silver iodide surfaces in slit and wedge geometries. *Atmospheric Chemistry and Physics*, Vol. 22, 10099-10114, 2022.

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179. Fatemeh Keshavarz, Joel Thornton, Hanna Vehkamäki, and Theo Kurtén: Reaction Mechanisms Underlying Unfunctionalized Alkyl Nitrate Hydrolysis in Aqueous Aerosols.
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172. Vitus Besel, Jakub Kubečka, Theo Kurtén and Hanna Vehkamäki: Impact of Quantum Chemistry Parameter Choices and Cluster Distribution Model Settings on Modeled Atmospheric Particle Formation Rates.
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- Arnaud Praplan, Matti P. Rissanen, Taina Ruuskanen, Filipe D. Santos, Simon Schallhart, Ralf Schnitzhofer, Mario Simon, James N. Smith, Jasmin Tröstl, Georgios Tsagkogeorgas, Antonio Tome, Petri Vaattovaara, Hanna Vehkamäki, Aron E. Virtala, Paul E. Wagner, Christina Williamson, Daniela Wimmer, Paul M. Winkler, Annele Virtanen, Neil M. Donahue, Kenneth S. Carslaw, Urs Baltensperger, Ilona Riipinen, Joachim Curtius, Douglas R. Worsnop and Markku Kulmala: The effect of acid-base clustering and ions on the growth of atmospheric nano-particles.
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6. Reply to reader's letter in Helsingin sanomat 'Termofysiikan lait eivät horju' ('Laws of thermodynamics do not waver') with Mai Allo 31.10.2014
5. Contribution to YLE news on the shock wave related to supersonic fighter planes 22.9.2014 'Article title 'Hävittäjä saattaa livahtaa yliaänennopeuteen vahingossa "Havaitsee vain katsoamalla mittaria' .by Jaakko Mannermaa
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