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Qualifications

Physics, PhD, Inner-shell radiationless transitions in atoms studied with synchrotron radiation, University of Oregon
1985 Mar 1 → 1989 Jul 1

Award Date: 1989 Oct 30

Spanish, B.A., Colby College

1979 Sept 1 → 1983 Jun 1

Award Date: 1983 Jun 1

Physics, B. A., Colby College

1979 Sept 1 → 1983 Jun 1

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Employment

Professor

Synchrotron Radiation Research

Lund University

Lund, Sweden

2002 May 15 → present

Director

Pufendorf Institute for Advanced Studies

Lund University

Lund, Sweden

2022 Jan 3 → present

Profile area member

LTH Profile Area: Photon Science and Technology

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2022 Sept 14 → present

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2024 Jan 1 → present

Professor

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2025 Apr 15 → present

Associate Professor

KTH Royal Institute of Technology
Stockholm, Sweden
1992 Jan 1 → 1995 May 1

Postdoctoral fellow

KTH Royal Institute of Technology
Stockholm, Sweden
1990 Jan 1 → 1992 Dec 31

Research outputs

Influence of Selective Carbon 1s Excitation on Auger–Meitner Decay in the ESCA Molecule

Fouda, A., Lindblom, V., Southworth, S. H., Doumy, G., Ho, P., Young, L., Cheng, L. & Sorensen, S. L., 2024 Apr 24, In: Journal of Physical Chemistry Letters. 15, 16, p. 4286-4293 8.

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The origin of enhanced O₂⁺ production from photoionized CO₂ clusters

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Oghbaiee, S., Gisselbrecht, M., Walsh, N., Oostenrijk, B., Laksman, J., Måansson, E. P., Sankari, A., Eland, J. H. D. & Sorensen, S. L., 2022, In: Physical chemistry chemical physics : PCCP. 24, 47, p. 28825-28830 6 p.

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Deepening into the nucleation and fission processes of nano-hydrated ammonia clusters - A combined theoretical and experimental study

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From synchrotrons for XFELs: The soft x-ray near-edge spectrum of the ESCA molecule

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The carbon and oxygen K-edge NEXAFS spectra of CO⁺

Couto, R. C., Kjellsson, L., Ågren, H., Caravetta, V., Sorensen, S. L., Kubin, M., Bülow, C., Timm, M., Zamudio-Bayer, V., Von Issendorff, B., Lau, J. T., Söderström, J., Rubensson, J. E. & Lindblad, R., 2020, In: *Physical Chemistry Chemical Physics*. 22, 28, p. 16215-16223 9 p.

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The role of charge and proton transfer in fragmentation of hydrogen-bonded nanosystems: The breakup of ammonia clusters upon single photon multi-ionization

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Tin Oxides: Insights into Chemical States from a Nanoparticle Study

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Dissociation of cyclopropane in double ionization continuum

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Preparing the MAX IV storage rings for timing-based experiments

Strählman, C., Olsson, T., Leemann, S., Sankari, R. & Ristinmaa Sörensen, S., 2016, *PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON SYNCHROTRON RADIATION INSTRUMENTATION – SRI2015*. Shen, Q. & Nelson, C. (eds.). New York, NY USA: American Institute of Physics (AIP), Vol. 1741. 020043. (AIP conference proceedings; no. 1741).

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Dissociative double-photoionization of butadiene in the 25–45 eV energy range using 3-D multi-coincidence ion momentum imaging spectrometry

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Bringing physics, synchrotron light and probing neutrons to the public: a collaborative outreach

Micklavzina, S., Almqvist, M. & Ristinmaa Sørensen, S., 2014, In: *Physics Education*. 49, 2, p. 221-230

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Eland, J. H. D., Zagorodskikh, S., Squibb, R. J., Mucke, M., Ristinmaa Sørensen, S. & Feifel, R., 2014, In: *Journal of Chemical Physics*. 140, 18, 184305.

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**Investigation of site selectivity in the fragmentation of coreexcited 1,3-butadiene near the central and terminal carbon K
edges**

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Gisselbrecht, M., Grunewald, C., Måansson, E., Laksman, J., Sankari, A., Tchaplyguine, M., Björneholm, O. & Ristinmaa
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Plasmon single- and multi-quantum excitation in free metal clusters as seen by photoelectron spectroscopy.

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**Description and performance of an electron-ion coincidence TOF spectrometer used at the Brazilian synchrotron facility
LNLS**

Burmeister, F., Coutinho, L. H., Marinho, R. R. T., Homem, M. G. P., de Morais, M. A. A., Mocellin, A., Björneholm, O.,
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The O 1s photoelectron spectrum of molecular oxygen revisited

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Activities

SRA workshop series: The professional development workshop - Forming multidisciplinary collaborations and moving them forward

Wittbom, C. (Organiser), Avery, H. (Organiser), Svensson, M. (Host), McKay, C. (Host), Nielsen, C. (Host), Ullner, M. (Host), Davies, M. B. (Host), Blomberg, A. (Host), Ristinmaa Sørensen, S. (Invited speaker), Johansson, M. (Invited speaker) & Wihlborg, A.-K. (Invited speaker)
2022 Apr 7

SRA workshop series: The professional development workshop - Forming multidisciplinary collaborations and moving them forward

Curtis, S. (Contributor), Avery, H. (Organiser), Wittbom, C. (Organiser), Svensson, M. (Host), McKay, C. (Host), Smirnova, O. (Host), Blomberg, A. (Host), Ristinmaa Sørensen, S. (Invited speaker), Johansson, M. (Invited speaker), Wiklander, A. (Invited speaker) & Wihlborg, A.-K. (Invited speaker)
2022 Apr 7

Learn more about collaborative projects in the EU research and innovation framework programme – Horizon Europe

Eksten, R. (Organiser), Parmar, M. (Invited speaker), Mathieu, C. (Invited speaker), Wernersson, L.-E. (Invited speaker), Ristinmaa Sørensen, S. (Host), Phillips, J. (Presenter), Hedlund, K. (Invited speaker), Jönsson, H. (Invited speaker),

Clough, Y. (Invited speaker) & Wiklander, A. (Contributor)
2020 Nov 12 → 2020 Nov 26

FAIR data

Axmon, A. (Organiser), Hellström, M. (Organiser), Johnsson, M. (Organiser), Lassi, M. (Organiser), Spruce, D. (Organiser), Bolmsten, F. (Organiser), Sorensen, S. L. (Invited speaker), Petzold, M. (Invited speaker) & Nilsson, P. (Invited speaker)
2019 Feb 5

League of European Research Universities New Year's Dinner Debate: Man vs Machine
Ristinmaa Sörensen, S. (Role not specified)
2019 Jan 24

Knowledge-driven societal development in university cities
Ristinmaa Sörensen, S. (Invited speaker)
2016 Mar 18

Workshop on timing modes for low-emittance storage rings.
Ristinmaa Sörensen, S. (Role not specified)
2015 Mar 25 → 2015 Mar 27