List of Publication

Dr. rer. nat. Maik Stuke

4th February 2026

72 publications in the fields of:

- Nuclear Science
- Data Analysis
- Material Science
- Applied Physics
- High Energy Physics
- Astroparticle Physics and Cosmology

Submitted:

1. **Computational Investigation of 2D Nuclide Concentrations at Burnups close to Peak Reactivity in the Context of the LAGER Project**; V. Hannstein, **M. Stuke**; submitted to Nuclear Science and Engineering (NSE); (Dec 2025).

Accepted:

2. **Operational Experience with Transport and Storage Casks for Spent Nuclear Fuel - Comparison of Calculated Dose Rates with Measured Dose Rates**; S. Tittelbach, D. Amian, J. Klingen, M. Nikipelov, R. Schneider-Eickhoff, **M. Stuke**; accepted for publication in Nuclear Science and Engineering (NSE); (Jan 2026).

1. **Inter-comparison Exercise on Bias and Correlated Data - Comparison of Methods**, A. Hoefer, **M. Stuke**; Report on Subgroup 11 of the Working Party on Nuclear Criticality Safety, OECD Nuclear Energy Agency, 90 pp., 2024.

Published:

75. **OBSERVE - Dosisleistungs- und Temperaturmessprogramm**, S. Titelbach, R. Schneider-Eickhoff, **M. Stuke**, J. Becker; BGZ report (in german); https://doi.org/10.69152/OBSERVE/2025, (Dec 2025).

74. **Multiple-scattering muography of a thick-walled spent-fuel cask: A high-statistics Geant4 simulation**; J. Niedermeier, **M. Stuke**; J. Appl. Phys. 138, 234901 (2025); Special Collection: Muography: Discoveries, Innovations, and Applications; https://doi.org/10.1063/5.0288368; (Dec 2025).

73. **ESCP International Thermal Modeling Project: Comparison of PCT and External Surface Temperature Values with Varying Sensitivity Parameters**; H. Akkurt, **M. Stuke**; Proceedings of International High Level Radioactive Waste Management (IHLRWM 2025); November 9–12 2025; Washington, DC, USA; (Nov 2025).

72. **Introducing HEPHAESTUS: A Furnace for Dry Storage Testing of Spent Nuclear Fuel at Studsvik's Hot Cells**; F. Boldt, P. Kaufholz, T. Neikes, M. Segerberg, **M. Stuke**, P. Tejland; Proceedings of TopFuel 2025: Nuclear Reactor Fuel Performance Conference; October 5–9 2025; Nashville, TN, USA; (Oct 2025).

71. **Analysis of Axial Hydrogen Diffusion and Hydride Precipitation in Zirconium Alloy Nuclear Fuel Claddings**; S. Niedermeyer, P. Trtik, **M. Stuke**, R. Zubler, M.A. Pouchon, L.I. Duarte, J. Bertsch; Proceedings of TopFuel 2025: Nuclear Reactor Fuel Performance Conference; October 5–9 2025; Nashville, TN, USA; (Oct 2025).

70. **Results on re-verification tests of spent fuel casks with muon tomography - MUTOMCA Project**; P. Andreetto, K. Aymanns, M. Balling, M. Benettoni, N. Bez, G. Bonomi, L. Castellani, P. Checchia, E. Conti, J. Dackner, F. Gonella, A. Jussofie, A. Lorenzon, F. Montecassiano, M. Mosconi, M. Murtezi, J. Niedermeier, I. Niemeyer, J. Pekkarinen, A. Rigoni, D. Scarpa, **M. Stuke**, M. Turcato, and G. Zumerle; Journal of Applied Physics, Special Topic: Muography: Discoveries, Innovations, and Applications, invited article, J. Appl. Phys. 138, 124903 (2025); https://doi.org/10.1063/5.0272975; (Sep 2025).

69. **Computational Investigation of 2D Nuclide Concentrations at Burnups close to Peak Reactivity in the Context of the LAGER Project**; V. Hannstein, **M. Stuke**; Proceedings of Nuclear Criticality Safety Division 2025 Conference (NCSD 2025) September 14–18 2025; Austin, TX, USA; (Sep. 2025).

68. **ESCP International Thermal Modeling Benchmark Project Results**; H. Akkurt, **M. Stuke**; Proceedings of the 21st International Symposium on the Packaging and Transportation of Radioactive Materials; PATRAM25; July 27 - August 1 2025; San Antonio, TX, USA; (Aug 2025).

67. **The impact of cooling rate and hydrogen concentration on hydride morphology in Zircaloy-4**; P. Kaufholz, **M. Stuke**, T. Neikes, F. Boldt, A-M. Alvarez, M. Segerberg; Proceedings of the 21st International Symposium on the Packaging and Transportation of Radioactive Materials; PATRAM25; July 27 - August 1 2025; San Antonio, TX, USA; (Aug 2025).

66. **Threshold Analysis of Modeling and Measurement Accuracies in Muon Scattering Tomography**; J. Niedermeier, J. Bae, **M. Stuke**; Proceedings of 2025 ANS Annual Conference, June 15–18 2025, Chicago, IL, USA; (Jun 202).

65. **Extending the Scientific Base for Safe Interim Storage: BGZ's Research Programme**; **M. Stuke**, J. Becker, B. Czwikla, R. Schneider-Eickhoff; atw, Vol. 70 (2025); pp. 20-27; (May 2025).

64. **The MUTOMCA Project - An Overview**,J. Niedermeier, **M. Stuke**, et al., Proceeding of KERNTECHNIK2024, June 10 - 13, Leipzig, Germany, (Jun 2024).

    Republished (Best Presentation Award, J. Niedermeier) in International Journal for Nuclear Power, atw 5/2024, eISSN: 2940-6668, (Sep 2024).

63. **Impact of modeling assumptions on muon scattering images of loaded dry storage casks**, J. Niedermeier, **M. Stuke**; Nuclear Science and Engineering, pp. 1–13. doi: 10.1080/00295639.2024.2340142, (Apr 2024).

62. **BGZ's research programme: thinking ahead interim storage**; J. Becker, R. Schneider-Eickhoff, **M. Stuke**; BGZ Company for Interim Storage, link, (Dec 2023).

    German Version: **Forschungsprogramm der BGZ: Zwischenlagerung weitergedacht**; link.

61. **Bias and correlated data, comparison of methods**, A. Hoefer, **M. Stuke**, H. S. Abdel-Khalik, O. Cabellos, M. Chernykh, T. Eisenstecken, F. Fernex, N. Leclaire, F. Havluj, M. Hursin, H. Lee, W. J. Marshall, D. Mennerdahl, I. Nasim, T. Nicol, M. E. Rising, B. Ruprecht, D. Schulze Grachtrup, M. Sikl, A. Shama, P. Smith, F. Sommer, S. Tittelbach, A. Vasiliev, R. Vocka; Proceedigs of the International Conference on Nuclear Criticality Safety, ICNC2023, October 1^{st}-6^{th} 2023, Sendai, Japan, (Oct 2023).

60. **Impact of modeling assumptions on muon scattering images of loaded dry storage casks**, J. Niedermeier, **M. Stuke**; Proceedigs of the International Conference on Mathematics and Computational Methods Applied to Nuclear Science, M&C2023, August 13^{th}-17^{th} 2023, Niagara Falls, Ontario, Canada, (Aug 2023).

59. **Role of Integral Experiment Covariance Data for Criticality Safety Validation – EG UACSA Benchmark Phase IV**; A. Hoefer, **M. Stuke**; NEA/NSC/R (2021)1, OECD-Publishing, Paris, France, (Jan 2020).

58. **Complementary material to "Role of Integral Experiment Covariance Data for Criticality Safety Validation: EG UACSA Benchmark Phase IV"** (NEA/NSC/R (2021)1); A. Hoefer, **M. Stuke**; OECD Publishing, Paris OECD-NEA, (Jan 2023).

57. **International Thermal Modeling Benchmark Project – Phase I Results; An Extended Storage Collaboration Program Activity**; H. Akkurt, D. Richmond, **M. Stuke**, Technical Report 3002023976, EPRI, California, USA 2022, (Nov 2022).

56. **The OECD NEA Working Party on Nuclear Criticality Safety - Recent outcome, work in progress and outlook**; J.-F. Martin, **M. Stuke**, et. al. ; Proceedings of the Nuclear Criticality Safety Division Topical Meeting (NCSD 2022), June 12–16, 2022, Anaheim, CA, USA (June 2022).

55. **Forschung im Bereich der Zwischenlagerung - Das Forschungsprogramm der BGZ**; **M. Stuke**; Proceedings of the Conference KERNTECHNIK 2022, June 20–23, 2022, Leipzig, Germany (June 2022).

54. **Benchmark on Thermomechanical Fuel Rod Behaviour - Phase I Report**, F. Boldt, **M. Stuke**, M. Péridis, Report, 127pp., GRS-671, ISBN 978-3-949088-62-9, (May 2022).

53. **Storage and Transport**; **M. Stuke**, M. Häring, J. Becker; book chapter in *Nuclear Waste – Management, disposal and governance*, K.J. Röhlig (Ed.); IOP Publishing, Bristol, UK; online ISBN: 978-0-7503-3095-4; print ISBN: 978-0-7503-3093-0 (Apr 2022).

52. **Zwischenlagerung weitergedacht – Forschungsprogramm der BGZ**, J. Becker, R. Schneider-Eickhoff, **M. Stuke**; BGZ Gesellschaft für Zwischenlagerung mbH; https://bgz.de/wp-content/uploads/2022/04/Das-Forschungsprogramm-der-BGZ-2.pdf, (March 2022).

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49. **Comparison of numerical and semi-analytical analysis of temperature fields of loaded dry casks**;M. Péridis, **M. Stuke**; Kerntechnik, 85, No. 6, pp. 444-451, DOI:10.3139/124.200074; (Dec 2020).

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45. **Workshop on the Safety of Extended Dry Storage of Spent Nuclear Fuel – SEDS 2019**; F. Rowold, K. Hummelsheim, **M. Stuke**; atw 02/2020; (Feb 2020).

44. **UACSA Benchmark Phase IV: Role of Integral Experiment Covariance Data for Criticality Safety Validation, Summary of Results**; A. Hoefer, **M. Stuke**; Proc. International Conference on Nuclear Criticality Safety, ICNC2019, Sept. 15 -20 2019, Paris, France; (Sep 2019).

43. **Correlation of HST-001 due to uncertain technical parameters – Comparison of results from DICE, SAMPLER and SUnCISTT**; W. J. Marshall, F. Sommer, **M. Stuke**; Proc. International Conference on Nuclear Criticality Safety, ICNC2019, Sept. 15 -20 2019, Paris, France; (Sep 2019).

42. **Status of the NEA international activities on nuclear criticality safety**; S. Tsuda, F. Michel-Sendis, T. Ivanova , E. Stéphane, J. Bess, G. Ilas, **M. Stuke**, C. Carmouze, S. Gan, Y. Yamane, I. Duhamel, F. Brown, L. Jutier; Proc. International Conference on Nuclear Criticality Safety, ICNC2019, Sept. 15 -20 2019, Paris, France; (Sep 2019).

41. **Analysis of 3-dimensional Temperature Fields of Loaded Dry Storage Casks**; M. Péridis, N.-F. Sentuc, M. Sonnenkalb, J. Stewering, **M. Stuke**; Proceedings of the 19th International Symposium on the Packaging and Transportation of Radioactive Materials, PATRAM 2019, August 4-9, 2019, New Orleans, LA, USA (Aug 2019).

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38. **Proposal of a Benchmark Describing the Thermo-Mechanical Behaviour During Dry Storage**; F. Boldt, **M. Stuke**; Proceedings of 3rd Workshop on Safety of Extended Dry Storage of Spent Nuclear Fuel, SEDS 2019, June 6-8 2019, Garching, Germany, (Jun 2019).

37. **Zwischenbericht: Langzeitverhalten zwischengelagerter Brennelemente bei deutlich längerer Zwischenlagerung**; **M. Stuke**, F. Boldt, V. Hannstein, P. Kaufholz, M. Péridis, F. Sommer, H.-G. Sonnenburg; GRS - 534, ISBN 978-3-947685-19-6;(Dec 2018).

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35. **Research activities at GRS on fuel rod behaviour during extended dry storage**; F. Boldt, P. Kaufholz, M. Péridis, H.-G. Sonnenburg, **M. Stuke**; Proc. Safety Ext. Dry Storage of SNF; Kerntechnik **83**,6, pp.476-483, 12/2018; (Dec 2018).

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16. **Sensitivities and correlations of critical experiments due to uncertainties of system parameters and nuclear data** E. Peters, F. Sommer, **M. Stuke**, Proc. of International Collaboration of Nuclear Criticality Safety, ICNC 2015, Charlotte, North Carolina, USA,Sept.13-17,2015, (Sep 2015).

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