

CURRICULUM VITAE S. V. LOMOV

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Jain, A., P. Boisse, V. Carvelli, L. Gorbatikh, D. Ivanov, A. Long, M. Zako and I. Verpoest (2020). "Contributions of Stepan V Lomov to the research and development of composite materials." Journal of Composite Materials 24: 4423-4447 <https://doi.org/10.1177/0021998320937066>

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WoS Researcher ID F-4031-2018

Scopus ID 7005067917

1 EDUCATION AND QUALIFICATIONS

- **School:** 30th Physics & Mathematics School, Leningrad - 1972
- **University:** Leningrad Polytechnic Institute (St.-Petersburg State Polytechnical University), Physics & Mechanics Faculty, Chair of Applied Mathematics; Diploma: Dipl. Engineer-Mathematician (magna cum laude), 1978
- **PhD:** Federal Research Institute of Transportation Machinery, St-Petersburg Candidate of Technical Science (equivalent to PhD degree), 1985. Subject: Research into mathematical modelling and practical construction of ballistic and shock protective structures, Federal Research Institute of Transportation Machinery
- **Doctor of Technical Science (Doctor Habille)** in Textiles Material Science, 1995. Thesis: "Mathematical prediction of the structure and mechanical properties of woven fabrics for technical usage", St.-Petersburg State University of Technology and Design
<https://search.rsl.ru/ru/record/01000145410>

2 RESEARCH CAREER

1978 – 1989 Researcher, then Senior Researcher at the Federal Research Institute of Transportation Machinery, St.-Petersburg; subject: research on the mathematical modelling and construction of ballistic protective structures.

1989 – 1999 Senior Researcher, then Professor at the St.-Petersburg State University of Technology and Design, Chair of the Mechanical Technology of Fibrous Materials (Chair head: N.N. Truevtsev)

Research subjects:

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| – modelling of structure and properties of woven fabrics | – experimental studies of structure and mechanical behavior of yarns and fabrics |
| – modelling of textile ballistic protection | |
| – quality control in yarn production | – design and technology of folk art fabrics |

1994 – 1998 (three-four months a year)

Research activities in De Montfort University, Leicester, UK (visiting scientist) on yarn fibrous structure and protective textile structures (School of Design and Manufacture, the TEAM group head: R. Harwood)

1999 – present: Department MTM, Composite Materials Group, KU Leuven.

1999 – 2001: Senior post-doc grantee of the Research Council of K.U.Leuven (two grant terms).

2001 – 2014: Senior Research Fellow (the group leader in 1999 – 2013: I. Verpoest)
 2013 – 2020: the Coordinator of the Composite Materials Group
 2014 – 2020: Research Manager
 2002 – 2020: Part-time Professor, Independent Academic Staff (*Zelfstandig Akademisch Personeel*)
 2015 – 2022: Toray Professor (Toray Chair for Composites Materials at KU Leuven)
 2020 – present: Professor Emeritus

2013 – present: Research activities @ Center for Design, Manufacturing, and Materials, Skolkovo Institute of Science and Technology, Moscow, Russia

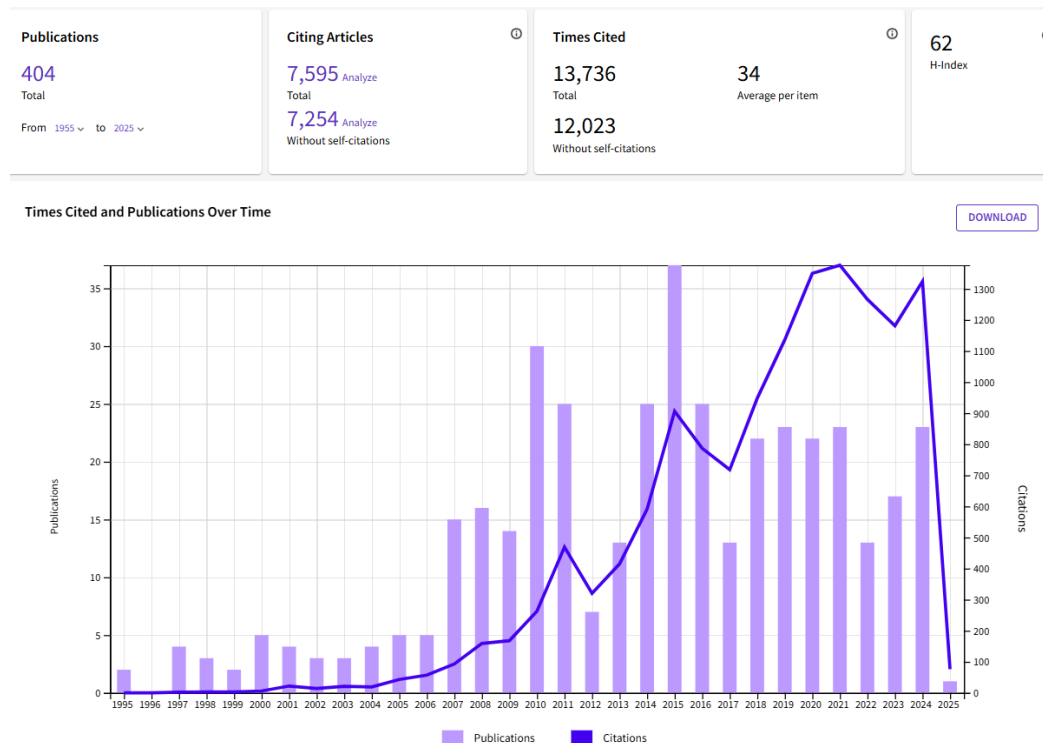
2024 – present: “High-end foreign expert” and other research activities at Harbin Institute of Technology, China

Research fields

- Structural mechanics of textiles, composites and biomaterials
- Multi-level modelling of heterogeneous media
- Internal geometry, mechanical properties, permeability of textiles and composites
- Development of "virtual material" software
- Experimental studies of properties of textiles and composites
- Advanced reinforcements (textile, 3D, nano...)

3 RESEARCH OUTPUT

3.1 Publications (Science Citation Index)



[SCI search, core collection: “Lomov S” OR “Lomov SV” NOT “Lomov SA”, 29.01.2025]

A comment on the publication history: the research carrier of S.V. Lomov has started in 1978, but first publications in international journals appeared in 1995 only due to confidentiality of the work on terminal ballistics and difficulties of publishing abroad from the USSR.