

Masaryk University	
Faculty	Faculty of Science
Procedure field	Physical Chemistry
Applicant	doc. Mgr. Dominik Heger, Ph.D.
Applicant's home unit, institution	Faculty of Science, Masaryk University
<u>Board members</u>	
Chair	prof. RNDr. Jan Hrbáč, Ph.D. <i>Faculty of Science, Masaryk University</i>
Members	prof. Ing. Martin Weiter, Ph.D. <i>VUT Brno</i> prof. RNDr. Jiří Kolafa, CSc. <i>University of Chemistry and Technology, Prague, UCT Prague</i> prof. RNDr. Libor Kvítek, CSc. <i>Faculty of Science, Palacký University in Olomouc</i> Ido Braslavsky <i>Hebrew University of Jerusalem, Israel</i>

Evaluation of the applicant's scholarly/artistic qualifications

The applicant has a broad and solid background in physical chemistry, including the chemistry and physics of atmospheric ice, surface chemistry, UV–VIS diffuse reflectance spectroscopy, fluorescence, actinometry, lyophilization, protein stabilization, transient spectroscopy, and femtosecond pump–probe spectroscopy. His scientific productivity demonstrates continuity, consistent output, and high quality. He has contributed as author or co-author to numerous scientific publications of various types (his Web of Science record contains 64 papers and 2 reviews in impacted journals, with 2420 citations; yielded the H-index of 29. Moreover, he contributed to 2 book chapters and received 1 patent (valid in the Czech Republic). His research is of a high standard and has received considerable attention within the scientific community.

The overall evaluation of the candidate is that he is a broad-minded, dedicated, and highly capable physical chemist whose research has made a significant impact in his field. He is an expert in physical chemistry and photochemistry, particularly in the chemistry and physics of atmospheric ice, surface chemistry, UV–VIS diffuse reflectance spectroscopy, fluorescence, actinometry, lyophilization, and protein stabilization. There is therefore no doubt that he meets the requirements for appointment as a professor.

Conclusion: The applicant's scholarly/artistic capabilities **meet** the requirements expected of applicants participating in a professor appointment procedure in the field of Physical Chemistry.

Evaluation of the applicant's pedagogical experience

The applicant regularly teaches courses in Masaryk University. His teaching activities include Physical chemistry (C3420, C4660, C3150)1, Chemistry for Physicists (C1800), Photophysical Spectroscopic Methods (C8785), Optical Spectroscopic Methods (C8785), Statistical Methods in Chemistry (C2170), General chemistry (C1040), Interdisciplinary Scientific English Course (JA003). He is an active popularizer of science for high school students. His teaching skills are evidenced by high number of supervised theses (24 Bachelor's, 15 Master's, and 9 Ph.D. theses). The excellent pedagogical approach to students, the scope, content and assessment of Dominik Heger's teaching activities fully correspond to the requirements for the award of the title of professor.

Conclusion: The applicant's pedagogical capabilities **meet** the requirements expected of applicants participating in a professor appointment procedure in the field of Physical Chemistry.

Evaluation of the applicant as a respected and recognized scholarly or artistic figure in a given field

The applicant is a well-known and highly respected researcher whose substantial scientific contributions have had a significant impact. He is an internationally recognized figure in the field of surface chemistry and atmospheric ice physics, enriching the field with new insights.

He consistently publishes high-quality articles in leading scientific journals. The results of his research are of professional quality and are internationally acknowledged, as evidenced by their strong citation record. His scholarly standing is further demonstrated by his active participation in international research projects and scientific committees, such as participating in the scientific board of Central European Photochemical Conference and in executive committee of European Photochemical Association. He maintains a number of active international collaborations.

Conclusion: The applicant **is** a respected and recognized scholarly figure in his/her field. The applicant **has** made a significant contribution to the development of his/her field. The applicant **constitutes** a leading figure in his/her field of scholarship or research.

Secret vote results

Voting took place: electronically

Number of board members		5
Number of votes cast		5
of which	in favour	5
	against	0

Board decision

Based on the outcome of the secret vote and following an evaluation of the applicant's scholarly or artistic qualifications, pedagogical experience and role as a respected and recognized scholarly or artistic figure, the board hereby submits a proposal to the Scientific Board of the Faculty of Science of Masaryk University to **appoint the applicant professor** of Physical Chemistry.

In Brno on 14.10.2025

prof. RNDr. Jan Hrbáč, Ph.D.