

List of publications

Bretislav Friedrich

October 13, 2021

221. M. Karra, M. T. Cretu, B. Friedrich, S. Truppe, G. Meijer, and J. Pérez-Ríos:
Dynamics of translational and rotational thermalization of AlF molecules via collisions with cryogenic helium
Submitted to Phys. Rev. A (2021)
220. B. Friedrich, G. Meijer, H. Schmidt-Böcking, and G. Gruber:
One Hundred Years of Alfred Landé's g-Factor
Natural Sciences (2021). <https://doi.org/10.1002/ntls.20210068>
219. B. Friedrich:
Rudolf Zahradník (1828-2020): "Dělej to, co se sluší a patří,"
in Jiří Padevět (ed.): *Za Rudolfem a Milenou Zahradníkovými*
Academia, Prague (2021).
218. M. Karra, B. Schmidt, and B. Friedrich:
Quantum dynamics of a polar rotor acted upon by an electric rectangular pulse of variable duration
Molecular Physics e1966111 (2021). Festschrift for Jürgen Troe. doi: 10.1080/00268976.2021.1966111
217. D. Herschbach, J.P. Toennies, and B. Friedrich:
Obituary for Zdenek Herman
Physics Today **74**, 59 (2021).
216. B. Friedrich:
Obituary for Rudolf Zahradník
Physics Today **74**, 64 (2021).
215. M. Mirahmadi, B. Schmidt, and B. Friedrich:
Planar rotor dynamics driven by suddenly switched combined aligning and orienting interactions
New Journal of Physics **23**, 063040 (2021).
214. H.G. Huber, H. Schmidt-Böcking, and B. Friedrich:
Walther Gerlach (1889-1979): Precision Physicist, Educator and Research Organizer, Historian of Science pp. 119-161, in Bretislav Friedrich and Horst Schmidt-Böcking (eds.):
Molecular Beams in Physics and Chemistry: From Otto Stern's Pioneering Exploits to Present-day Feats
Springer, Heidelberg (2021).
213. B. Friedrich and H. Schmidt-Böcking:
Otto Stern's Molecular Beam Method and its Impact on Quantum Physics pp. 37-88, in

Bretislav Friedrich and Horst Schmidt-Böcking (eds.): *Molecular Beams in Physics and Chemistry: From Otto Stern's Pioneering Exploits to Present-day Feats*
Springer, Heidelberg (2021).

212. B. Friedrich and H. Schmidt-Böcking:
Preface to Molecular Beams in Physics and Chemistry: From Otto Stern's Pioneering Exploits to Present-day Feats pp. v-vii, Springer, Heidelberg (2021).

211. B. Friedrich and H. Schmidt-Böcking (eds.):
Molecular Beams in Physics and Chemistry: From Otto Stern's Pioneering Feats to Present-day Accomplishments
Springer, Heidelberg (2021). <https://www.springer.com/gp/book/9783030639624>

210. H. Schwarz and B. Friedrich:
Obituary for Rudolf Zahradnik (1928-2020): "To Do What's Right"
Theoretical Chemistry Accounts 140:28 (2021). <https://doi.org/10.1007/s00214-021-02724-1>

209. B. Friedrich:
Manipulation of Molecules by Combined Permanent and Induced Dipole Forces, in *New Horizons in Chemistry: Electric Fields and Structure-Reactivity Aspects*, Sason Shaik and Thijs Stuyver (eds.)
The Royal Society of Chemistry (2021). ePub eISBN 978-1-83916-305-0

208. H. Schwarz and B. Friedrich:
Rudolf Zahradnik (1928-2020)
Chemistry World, 4 February 2021.

207. B. Friedrich:
A Paramount Problem Solved at Last: Paramagnetic Catalysis of Ortho-Para Hydrogen Conversion
Natural Sciences (2021) Nat. Sci. 2021:e10004 <https://doi.org/10.1002/ntls.10004>

206. T. Bielik and B. Friedrich:
Much out of Nothing: The Relationship between Fritz Haber and Chaim Weizmann
Israel Chemist and Chemical Engineer, Issue 7, 22-29 (2021). <https://doi.org/10.51167/ice00004>

205. H. Schwarz und B. Friedrich:
Rudolf Zahradnik (1928-2020): "Tue, was richtig ist!"
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204. B. Friedrich and D. Herschbach:
Jan Peter Toennies: An Ebullient Serendipitous Adventurer
Peter Toennies Festschrift (90th Birthday), Physical Chemistry Chemical Physics **23**, 7525-7540 (2021). DOI: 10.1039/d0cp90251a

203. B. Friedrich, M. Bronner, V. Yam, and G. Meijer:
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Natural Sciences (2020) Nat. Sci. 2021:e10001 <https://doi.org/10.1002/ntls.10001>

202. Y. Ding, S.S. Kale, Y. Chen, B. Friedrich, and S. Kais:
Spin-momentum entanglement in a Bose-Einstein condensate
Physical Chemistry Chemical Physics **22**, 25669-25674 (2020).
201. T. Bielik and B. Friedrich:
Far Apart and Close Together: Fritz Haber and Chaim Weizmann
Israel Journal of Chemistry **60**, 1061-1076 (2020).
200. B. Friedrich:
Pioneers of X-ray spectroscopy
Vesmir **99**, 39 (2020).
199. B. Friedrich, D. Herschbach, H. Schmidt-Böcking, and J.P. Toennies: *An international symposium (Wilhelm and Else Heraeus Seminar # 702) marked the centennial of Otto Stern's first molecular beam experiment and the thriving of atomic physics; a European Physical Society Historic Site was inaugurated*
Frontiers in Physics **7**, 208 (2019).
198. J. Fischer, F. Schlaghauser, E.-M. Lottner, A. Slenczka, L. Christiansen, H. Stapelfeldt, M. Karra, B. Friedrich, Th. Mullan, M. Schütz, and D. Usvyat:
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197. B. Friedrich:
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196. B. Friedrich and A.S. Travis:
The life and work of Fritz Haber revisited on the 150th anniversary of his birth, in Berlin, Jerusalem, and Karlsruhe
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Fritz Haber at One Hundred Fifty: Evolving views of and on a German Jewish Patriot
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194. B. Friedrich, M. Popplow, and A.S. Travis:
Berlin, Jerusalem, and Karlsruhe mark Fritz Haber's 150th birthday
Bunsen-Magazin 2/2019, 47-50 (2019).
193. B. Friedrich and D. Hoffmann:
Clara Haber, nee Immerwahr: In and out of her element
in Brigitte Van Tiggelen and Annette Lykknes (eds.): *Women in their Element*
World Scientific, Singapore (2019).
192. J. Fischer, S. Fuchs, A. Slenczka, M. Karra, and B. Friedrich:

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191. A. Slenczka and B. Friedrich:
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Not just a branch but the blossom of the tree of knowledge: The rise – and blossoming – of physical and theoretical chemistry
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183. B. Friedrich, D. Hoffmann, F. Schmaltz, J. Renn, and M. Wolf (Eds.):
One Hundred Years of Chemical Warfare: Research, Deployment, Consequences
Springer-Nature, Heidelberg (2017).
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Clara Immerwahr: A life in the shadow of Fritz Haber
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181. B. Friedrich and J. James:

From Berlin-Dahlem to the Fronts of WWI: The Role of Fritz Haber and his Kaiser Wilhelm Institute in German Chemical Warfare

in *One Hundred Years of Chemical Warfare: Research, Deployment, Consequences*, pp. 25-44. B. Friedrich, D. Hoffmann, F. Schmaltz, J. Renn, and M. Wolf (Eds.).

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Tributes to and Reminiscences of Michael Polanyi (1891-1976)

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176. B. Friedrich:

Michael Polanyi (1891-1976): The life of the mind

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175. G. Ertl and B. Friedrich:

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Angewandte Chemie International Edition **55**, 2 (2016); Angewandte Chemie **128**, 9620 (2016).

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167. B. Schmidt and B. Friedrich:

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162. B. Schmidt and B. Friedrich:

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161. B. Friedrich:

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