

List of publications

Bretislav Friedrich

July 4, 2021

219. B. Friedrich, H. Schmidt-Böcking, and G. Gruber:
One Hundred Years of Alfred Landé's g -Factor
Submitted to *Annalen der Physik* (2021).
218. B. Friedrich, D. Herschbach, and J.P. Toennies:
Obituary for Zdenek Herman
Physics Today (in press 2021).
217. B. Friedrich:
Obituary for Rudolf Zahradnik
Physics Today **74**, 64 (2021).
216. M. Karra, B. Friedrich, and B. Schmidt:
Quantum dynamics of a polar rotor acted upon by an electric rectangular pulse of variable duration
Molecular Physics (submitted 2021). Festschrift for Jürgen Troe. arXiv:2105.00978v1 [quant-ph] 3 May 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!"

Nachrichten aus der Chemie-GDCh **69**, 94 (2021).

204. B. Friedrich and D. Herschbach:

Jan Peter Toennies: An Ebullient Serendipitous Adventurer

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203. B. Friedrich, M. Bronner, V. Yam, and G. Meijer:

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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

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200. B. Friedrich:

Pioneers of X-ray spectroscopy

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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: *Heterogeneous clusters of phthalocyanine and water prepared and probed in superfluid helium nanodroplets*

J. Phys. Chem. A (Javier Aoiz Festschrift) **123**, 1057-1064 (2019).

197. B. Friedrich:

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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:

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193. B. Friedrich and D. Hoffmann:

Clara Haber, nee Immerwahr: In and out of her element

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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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Dynamics of polar polarizable rotors acted upon by unipolar electromagnetic pulses: From the sudden to the adiabatic regime

- J. Chem. Phys. **149**, 174109 (2018).
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Chemische listy **112**, 636 (2018). Festschrift for Rudolf Zahradnik.
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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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Clara Haber, nee Immerwahr (1870-1915): Life, work, and legacy
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162. B. Schmidt and B. Friedrich:

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161. B. Friedrich:

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153. B. Friedrich, D. Hoffmann:
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