

List of publications

Bretislav Friedrich

December 14, 2022

227. B. Friedrich, D. Kleppner, and D. Herschbach:

About Roy Glauber

Submitted to Natural Sciences (2022).

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226. M. Mirahmadi, B. Friedrich, B. Schmidt, and J. Perez-Rios:

Mapping atomic trapping in an optical superlattice onto the libration of a planar rotor in electric fields Submitted to New Journal of Physics (2022).

<https://arxiv.org/abs/2208.02096>

225. W. Yue, Qi Wei, S. Kais, B. Friedrich, and D. Herschbach:

Realization of Heisenberg models of spin systems with polar molecules in pendular states

Physical Chemistry Chemical Physics **24**, 25270-25278 (2022).

<https://pubs.rsc.org/en/content/articlelanding/2022/CP/D2CP00380E>

224. B. Friedrich:

An electro-optical trap for molecules Physical Review A **105**, 053126 (2022).

<https://journals.aps.org/prapdf/10.1103/PhysRevA.105.053126>

223. H. Schmidt-Böcking and B. Friedrich:

One hundred years ago Alfred Landé unriddled the Anomalous Zeeman Effect and presaged Electron Spin

Physica Scripta (2022)

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

Editorial: UNESCO issues a strong endorsement of Open Science

Natural Sciences (2022). <https://doi.org/10.1002/ntls.10037>

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

Physical Review A **105**, 022808 (2022).

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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.

<https://doi.org/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 Zahradnik

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*

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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*

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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
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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:
Editorial: Natural Sciences is debuting
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:

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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195. B. Friedrich:

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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:

Microsolvation of porphine molecules in superfluid helium nanodroplets as revealed by optical line shape at the electronic origin

J. Chem. Phys. **149**, 244306 (2018).

191. A. Slenczka and B. Friedrich:

Solvation and cluster formation in helium nanodroplets

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190. M. Mirahmadi, B. Schmidt, M. Karra, and B. Friedrich:

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

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189. B. Friedrich:

Molecules Dressed in Electromagnetic Fields

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Symmetric tops in combined electric fields: Conditional quasisolvability via the quantum Hamilton-Jacobi theory

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Molecules enhanced by electromagnetic fields
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186. S. Fuchs, J. Fischer, A. Slenczka, M. Karra, and B. Friedrich:
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183. 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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European Physical journal D **71**, 149 (2017).
178. J.M. Doyle, B. Friedrich, and E. Narevicius:
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177. Qi Wei, Y. Cao, S. Kais, B. Friedrich, and D. Herschbach:

Quantum computation using arrays of N polar molecules in pendular states
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Angewandte Chemie International Edition **55**, 2 (2016); Angewandte Chemie **128**, 9620 (2016).

174. Lee Yeong Kim, Ju Hyeon Lee, Hye Ah Kim, Sang-Kyu Kwak, Bretislav Friedrich, Bum Suk Zhao:

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172. B. Friedrich and D. Hoffmann:

Clara Haber, nee Immerwahr (1870-1915): Life, work, and legacy
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163. B. Friedrich:
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