

COMPLETE LIST OF PUBLICATIONS

Peer-reviewed journal articles

- [1] J. Dannhäuser, W. Donaubaue, F. Hampel, M. Reiher, B. Le Guennic, B. Corzilius, K.-P. Dinse, and A. Hirsch: [\$\sigma\$ -Donor und \$\pi\$ -Acceptor Stacking Interactions in a trans-2-Linked C₆₀-Cobalt\(II\) Tetraphenylporphyrin Diad](#), *Angew. Chem. Int. Ed.* **45**, 3368–3372 (2006).
- [2] A. Gembus, B. Corzilius, R.-A. Eichel, K.-P. Dinse, S. Immel, D. Stumm, M. Flauaus, and H. Plenio: [Electron Paramagnetic Resonance Structure Investigation of Copper Complexation in a Hemicarcerand](#), *J. Phys. Chem. B* **110**, 15012–15020 (2006).
- [3] B. Corzilius*, A. Gembus, N. Weiden, K.-P. Dinse, and K. Hata: [EPR Characterization of Catalyst-free SWNT and N@C₆₀-based Peapods](#), *Phys. Status Solidi B* **243**, 3273–3276 (2006).
- [4] B. Corzilius, E. Ramić, and K.-P. Dinse: [HYSCORE Analysis of Nitrogen Hyperfine Interactions](#), *Appl. Magn. Res.* **30**, 499–512 (2006).
- [5] B. Corzilius, K.-P. Dinse, J. van Slageren, and K. Hata: [Low-temperature Anomaly of Microwave Absorption and AC Susceptibility of Single-Wall Carbon Nanotubes: Bulk Superconductivity and Weak Ferromagnetism](#), *Phys. Rev. B* **75**, 235416:1–7 (2007).
- [6] B. Corzilius, K.-P. Dinse, and K. Hata: [Single-Wall Carbon Nanotubes and Peapods Investigated by EPR](#), *Phys. Chem. Chem. Phys.* **9**, 6063–6072 (2007).
- [7] B. Corzilius*, S. Agarwal, K.-P. Dinse, and K. Hata: [Electron Paramagnetic Resonance and Non-resonant Microwave Absorption of Single Wall Carbon Nanotubes](#), *Phys. Status Solidi B* **244**, 3890–3895 (2007).
- [8] B. Corzilius, P. Jakes, N. Weiden, S. Agarwal, and K.-P. Dinse: [EPR Investigation of N@C₇₀ in Polycrystalline C₇₀ and Single Wall Carbon Nanotubes](#), *Mol. Phys.* **105**, 2161–2168 (2007).
- [9] B. Corzilius*, K.-P. Dinse, and K. Hata: [Probing the Electronic Properties of Single-Walled Carbon Nanotubes with Resonant and Non-resonant Microwave Absorption](#), *Physica E* **40**, 2327–2332 (2008).
- [10] B. Corzilius*, K.-P. Dinse, K. Hata, M. Haluška, V. Skákalová, and S. Roth: [SWNT Probed by Multi-frequency EPR and Nonresonant Microwave Absorption](#), *Phys. Status Solidi B* **245**, 2251–2254 (2008).
- [11] K.-P. Dinse, J. van Tol, A. Ozarowski, and B. Corzilius: [Multi-frequency EPR and DC Conductivity of Itinerant Spins in Single-Wall Carbon Nanotubes](#), *Appl. Magn. Reson.* **37**, 595–603 (2010).
- [12] A. B. Barnes, B. Corzilius, M. L. Mak-Jurkauskas, L. B. Andreas, V. S. Bajaj, Y. Matsuki, M. L. Belenky, J. Lugtenburg, J. R. Sirigiri, R. J. Temkin, J. Herzfeld, and R. G. Griffin: [Resolution and Polarization Distribution in Cryogenic DNP/MAS Experiments](#), *Phys. Chem. Chem. Phys.* **12**, 5861–5867 (2010).
- [13] M. Pashchanka, R. C. Hoffmann, O. Burghaus, B. Corzilius, G. Cherkashinin, and J. J. Schneider: [Polycrystalline ZnO and Mn-doped ZnO Nanorod Arrays with Variable Dopant Content via a Template Based Synthesis from Zn\(II\) and Mn\(II\) Schiff Base Type Single Source Molecular Precursors](#), *Solid State Sci.* **13**, 224–231 (2011).
- [14] E. Nanni, A. B. Barnes, Y. Matsuki, P. P. Woskov, B. Corzilius, R. G. Griffin, and R. J. Temkin: [Microwave Field Distribution in a Magic Angle Spinning Dynamic Nuclear Polarization NMR Probe](#), *J. Magn. Reson.* **210**, 16–23 (2011).
- [15] B. Corzilius, A. A. Smith, A. B. Barnes, C. Luchinat, I. Bertini, and R. G. Griffin: [High-Field Dynamic Nuclear Polarization with High-Spin Transition Metal Ions](#), *J. Am. Chem. Soc.* **133**, 5648–5651 (2011).
- [16] K. Yokoyama, A. A. Smith, B. Corzilius, R. G. Griffin, and J. Stubbe: [Equilibration of Tyrosyl Radicals \(Y₃₅₆•, Y₇₃₁•, Y₇₃₀•\) in the Radical Propagation Pathway of the Escherichia coli Class Ia Ribonucleotide Reductase](#), *J. Am. Chem. Soc.* **133**, 18420–18432 (2011).
- [17] A. A. Smith, B. Corzilius, A. B. Barnes, T. Maly, and R. G. Griffin: [Solid Effect Dynamic Nuclear Polarization and Polarization Pathways](#), *J. Chem. Phys.* **136**, 015101:1–16 (2012).

- [18] E. L. Dane, B. Corzilius, E. Rizzato, P. Stocker, T. Maly, A. A. Smith, R. G. Griffin, O. Ouari, P. Tordo, and T. M. Swager: [Rigid Orthogonal bis-TEMPO Biradicals with Improved Solubility for Dynamic Nuclear Polarization](#), *J. Org. Chem.* **77**, 1789–1797 (2012).
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- [21] A. A. Smith, B. Corzilius, J. A. Bryant, R. DeRocher, P. Woskov, R. J. Temkin, and R. G. Griffin: [A 140 GHz Pulsed EPR/212 MHz NMR Spectrometer for DNP Studies](#), *J. Magn. Reson.* **223**, 170–179 (2012).
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- [23] E. Ravera, B. Corzilius, V. K. Michaelis, C. Rosa, R. G. Griffin, C. Luchinat, and I. Bertini: [Dynamic Nuclear Polarization of Sedimented Solutes](#), *J. Am. Chem. Soc.* **135**, 1641–1644 (2013).
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- [26] L. B. Andreas, A. B. Barnes, B. Corzilius, J. J. Chou, E. A. Miller, M. A. Caporini, M. M. Rosay, and R. G. Griffin: [Dynamic Nuclear Polarization Study of Inhibitor Binding to the M2₁₈₋₂₀ Proton Transporter from Influenza A](#), *Biochemistry* **52**, 2774–2782 (2013).
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- [32] T. V. Can, M. A. Caporini, F. Mentink-Vigier, B. Corzilius, J. J. Walish, M. Rosay, W. E. Maas, M. Baldus, S. Vega, T. M. Swager and R. G. Griffin: [Overhauser effects in insulating solids](#), *J. Chem. Phys.* **141**, 064202:1–8 (2014).
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- [34] P. Wenk, M. Kaushik, D. Richter, M. Vogel, B. Suess, and B. Corzilius*: [Dynamic Nuclear Polarization of Nucleic Acid with Endogenously Bound Manganese](#), *J. Biomol. NMR* **63**, 97–109 (2015).
- [35] K. K. Frederick, V. K. Michaelis, B. Corzilius, T.-C. Ong, A. C. Jacavone, R. G. Griffin, and S. Lindquist: [Sensitivity Enhanced NMR Reveals Alterations in Protein Structure by Cellular Milieus](#), *Cell* **163**, 620–628 (2015).
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- [37] M. Kaushik, T. Bahrenberg, T. V. Can, M. A. Caporini, R. Silvers, J. Heiliger, A. A. Smith, H. Schwalbe, R. G. Griffin, and B. Corzilius*: [Gd\(III\) and Mn\(II\) complexes for dynamic nuclear polarization: small molecular](#)

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- [38] D. Daube, V. Aladin, J. Heiliger, J.J. Wittmann, D. Barthelmes, C. Bengs, H. Schwalbe, and B. Corzilius*: [Heteronuclear Cross-relaxation under Solid-state Dynamic Nuclear Polarization](#), *J. Am. Chem. Soc.* **138**, 16572–16575 (2016).
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- [46] V. Aladin, M. Vogel, R. Binder, I. Burghardt, B. Suess, and B. Corzilius*: [Complex formation of the tetracycline-binding aptamer investigated by specific cross-relaxation under DNP](#), *Angew. Chem.* **131**, 4917–4922 (2019); *Angew. Chem. Int. Ed.* **58**, 4863–4868 (2019).
- [47] V. Aladin and B. Corzilius*: [Methyl dynamics in amino acids modulate heteronuclear cross relaxation in the solid state under MAS DNP](#), *Solid State Nucl. Magn. Reson.* **99**, 27–35 (2019).
- [48] D. Daube, M. Vogel, B. Suess, and B. Corzilius*: [Dynamic nuclear polarization on a hybridized hammerhead ribozyme: An explorative study of RNA folding and direct DNP with a paramagnetic metal ion cofactor](#), *Solid State Nucl. Magn. Reson.* **101**, 21–30 (2019).

Invited reviews and book chapters

- [49] M. Kaushik, D. Richter, and B. Corzilius*: [Dynamic Nuclear Polarization in Solid-state NMR](#), *G.I.T. Laboratory Journal Europe* 1-2/2016, 20.
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- [53] B. Corzilius: [Paramagnetic metal ions for dynamic nuclear polarization](#), *eMagRes* **7**, 179–194 (2018).

Conference proceedings

- [54] B. Corzilius, A. Gembus, K.-P. Dinse, F. Simon, and H. Kuzmany: [Carbon Nanotubes Investigated by N@C₆₀ and N@C₇₀ Spin Probes](#), in: *Electronic Properties of Novel Nanostructures*, eds. H. Kuzmany, J. Fink, M. Mehring, and S. Roth, AIP Conference Proceedings 786, Melville, New York, 2005, pp. 291-295.
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Patents

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Invited talks

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- [67] B. Corzilius: Solid-State Dynamic Nuclear Polarization at High Magnetic Fields - Past, Present, and Future Aspects, *IPTC Workshop*, Hirschegg, Austria, 2013.
- [68] B. Corzilius: New Methods in Solid-state Dynamic Nuclear Polarization, *IPTC Seminar*, Goethe-Universität, Frankfurt am Main, Germany, 2013.
- [69] B. Corzilius: Dynamic nuclear polarization: The quest for the ideal polarizing agent, Johannes-Gutenberg-Universität, Mainz, Germany, 2013.

- [70] B. Corzilius: Developments in MAS DNP: Towards the investigation of endogenous polarizing agents, *EMBO Workshop: Magnetic resonance for cellular structural biology*, Principina Terra, Italy, 2014.
- [71] B. Corzilius: The importance of polarizing agents and the chemical environment in MAS DNP, *EU COST action in Hyperpolarisation Spin Physics and Methodology in NMR and MRI at EUROMAR 2014*, Zürich, Switzerland, 2014.
- [72] B. Corzilius: Paramagnet-induced signal quenching and relaxation in MAS DNP, *EU COST action in Hyperpolarisation Spin Physics and Methodology in NMR and MRI at EUROMAR 2014*, Zürich, Switzerland, 2014.
- [73] B. Corzilius: Dynamic Nuclear Polarization and Solid-State NMR, plenary session, *EMBO Practical Course: Solution and solid-state NMR of paramagnetic molecules*, Sesto Fiorentino, Italy, 2014.
- [74] B. Corzilius: Exercises on Solid-State NMR, practical session, *EMBO Practical Course: Solution and solid-state NMR of paramagnetic molecules*, Sesto Fiorentino, Italy, 2014.
- [75] B. Corzilius: Dynamic Nuclear Polarization with Endogenous Polarizing Agents, *56th ENC*, Pacific Grove, CA, USA, 2015.
- [76] B. Corzilius: “Endogenous paramagnetic sites as polarizing agents for dynamic nuclear polarization in frozen solids”, *COST WGM on “Paramagnetic relaxation and spin hyperpolarization”*, Paris, France, 2015.
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- [79] B. Corzilius: Dynamic nuclear polarization of proteins and nucleic acid with internal paramagnetic sites, Columbia University, New York, NY, USA, 2015.
- [80] B. Corzilius: Dynamic nuclear polarization using endogenous metal ions for sensitivity-enhanced NMR of biomolecules, Helmholtz Institute for Pharmaceutical Research Saarland (HIPS), Saarbrücken, Germany, 2015.
- [81] B. Corzilius: Theory of Dynamic Nuclear Polarisation, *2nd G-NMR school*, Frankfurt, Germany, 2016.
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- [103] B. Corzilius: Novel mechanisms of polarization propagation under MAS DNP, *TSRC Workshop: Emerging Methodologies for Paramagnetic NMR and Dynamic Nuclear Polarization in Biological and Inorganic Materials*, Telluride, CO, USA, 2017.
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