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### Publications

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#### PUBLICATIONS

- **Audiovisual augmentation for coil positioning in transcranial magnetic stimulation** *COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING-IMAGING AND VISUALIZATION*  
Schutz, L., Weber, E., Niu, W., Daniel, B., McNab, J., Navab, N., Leuze, C.  
2022
- **Assessing the Onset of Calcium Phosphate Nucleation by Hyperpolarized Real-Time NMR.** *Analytical chemistry*  
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2020
- **A DNP-hyperpolarized solid-state water NMR MASER: observation and qualitative analysis** *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*  
Weber, E. M., Kurzbach, D., Abergel, D.  
2019; 21 (38): 21278–86
- **Sample Ripening through Nanophase Separation Influences the Performance of Dynamic Nuclear Polarization** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*  
Weber, E. M., Sicoli, G., Vezin, H., Frebourg, G., Abergel, D., Bodenhausen, G., Kurzbach, D.  
2018; 57 (18): 5171–75
- **Rates of Chemical Reactions Embedded in a Metabolic Network by Dissolution Dynamic Nuclear Polarisation NMR** *CHEMISTRY-A EUROPEAN JOURNAL*  
Sadet, A., Weber, E. M., Jhajharia, A., Kurzbach, D., Bodenhausen, G., Miclet, E., Abergel, D.  
2018; 24 (21): 5456–61
- **Anisotropic longitudinal electronic relaxation affects DNP at cryogenic temperatures** *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*  
Weber, E. M., Vezin, H., Kempf, J. G., Bodenhausen, G., Abergel, D., Kurzbach, D.  
2017; 19 (24): 16087–94
- **Communication: Dissolution DNP reveals a long-lived deuterium spin state imbalance in methyl groups** *JOURNAL OF CHEMICAL PHYSICS*  
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2017; 146 (4): 041101
- **Investigation of Intrinsically Disordered Proteins through Exchange with Hyperpolarized Water** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*  
Kurzbach, D., Canet, E., Flamm, A. G., Jhajharia, A., Weber, E. M., Konrat, R., Bodenhausen, G.  
2017; 56 (1): 389–92
- **Dissolution dynamic nuclear polarization of deuterated molecules enhanced by cross-polarization** *JOURNAL OF CHEMICAL PHYSICS*  
Kurzbach, D., Weber, E. M., Jhajharia, A., Cousin, S. F., Sadet, A., Marhabaie, S., Canet, E., Birlirakis, N., Milani, J., Jannin, S., Eshchenko, D., Hassan, A., Melzi, et al  
2016; 145 (19): 194203
- **Cross-Correlated Relaxation of Dipolar Coupling and Chemical-Shift Anisotropy in Magic-Angle Spinning R-1 rho NMR Measurements: Application to Protein Backbone Dynamics Measurements** *JOURNAL OF PHYSICAL CHEMISTRY B*  
Kurauskas, V., Weber, E., Hessel, A., Ayala, I., Marion, D., Schanda, P.  
2016; 120 (34): 8905–13