



MEDIZINISCHE
FAKULTÄT

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Institut für Molekularbiologie und Medizinische Chemie

1. LEITUNG

Prof. Dr. rer. nat. M. Plaumann (Direktor)

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Assaf, Charbel D.; Gui, Xin; Salnikov, Oleg G.; Brahms, Arne; Čukanov, Nikita Vladimirovič; Skovpin, Ivan V.; Chekmenev, Eduard; Herges, Rainer; Duckett, Simon; Koptug, Igor; Buckenmaier, Kai; Körber, Rainer W.; Plaumann, Markus; Auer, Alexander A.; Hövener, Jan-Bernd; Pravdivtsev, Andrey
Analysis of chemical exchange in iridium N-heterocyclic carbene complexes using heteronuclear parahydrogen-enhanced NMR
Communications chemistry - [London]: Macmillan Publishers Limited, part of Springer Nature, Bd. 7 (2024), Artikel 286, insges. 10 S.
[Imp.fact.: 5.9]

Houben, Till; Mysegaes, Felix; Myers, John Z.; Kempf, Nicolas; Assaf, Charbel D.; Pravdivtsev, Andrey; Buckenmaier, Kai; Körber, Rainer; Plaumann, Markus
Fluorescence quenching for determination of catalyst concentration in the parahydrogen-induced polarization method SABRE
ChemPhotoChem - Weinheim : Wiley-VCH, Bd. 8 (2024), Heft 11, Artikel e202400106, insges. 4 S.
[Imp.fact.: 3.0]

Kempf, Nicolas; Körber, Rainer; Plaumann, Markus; Pravdivtsev, Andrey; Engelmann, Jörn; Boldt, Johannes; Scheffler, Klaus; Theis, Thomas; Buckenmaier, Kai
13C MRI of hyperpolarized pyruvate at 120 μ T
Scientific reports - [London]: Macmillan Publishers Limited, part of Springer Nature, Bd. 14 (2024), Artikel 4468, insges. 7 S.
[Imp.fact.: 3.8]

Laskou, Aikaterini; Znalesniak, Eva B.; Harder, Sönke; Schlüter, Hartmut; Jechorek, Dörthe; Langer, Kathrin; Strecker, Carina; Matthes, Claudia; Nikolayevna Tchaikovski, Svetlana; Hoffmann, Werner
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International journal of molecular sciences - Basel : Molecular Diversity Preservation International, Bd. 25 (2024), Heft 4, Artikel 2287, insges. 21 S.
[Imp.fact.: 4.9]

Myers, John Z.; Bullinger, Friedemann; Kempf, Nicolas; Plaumann, Markus; Ortmeier, Adam; Theis, Thomas; Povolni, Pavel; Romanowski, Jannik; Engelmann, Jörn; Scheffler, Klaus; Hövener, Jan-Bernd; Buckenmaier, Kai; Körber, Rainer; Pravdivtsev, Andrey
Zero to ultralow magnetic field NMR of [1-13C]pyruvate and [2-13C]pyruvate enabled by SQUID sensors and hyperpolarization
Physical review - Woodbury, NY : Inst., Bd. 109 (2024), Heft 18, Artikel 184443, insges. 16 S.
[Imp.fact.: 3.2]

ABSTRACTS

Buckenmaier, Kai; Bullinger, Friedemann; Kempf, Nicolas; Neumann, Richard; Povolni, Pavel; Engelmann, Jörn; Scheffler, Klaus; Mysegaes, Felix; Assaf, Charbel; Myers, John Z.; Ortmeier, Adam; Körber, Rainer W.; Pohlmann, Philipp; Martins, Andre F.; Theis, Thomas; Pravdivtsev, Andrey; Plaumann, Markus

Imaging strategies for hyperpolarized contrast agents within the ultralow-field regime

EUROMAR 2024 - The 20th European Magnetic Resonance Congress , 2024 - Bilbao ; Millet, Oscar, Artikel HYP-029, insges. 1 S.

Kempf, Nicolas; Pravdivtsev, Andrey; Plaumann, Markus; Körber, Rainer W.; Engelmann, Jörn; Neumann, Richard; Bullinger, Friedemann; Scheffler, Klaus; Theis, Thomas; Buckenmaier, Kai

SABRE hyperpolarization ultralow-field MRI platform

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Characterisation of [$1\text{-}^{13}\text{C}$]pyruvate and [$2\text{-}^{13}\text{C}$]pyruvate at zero to ultralow field enabled by SABRE-SHEATH and SQUID sensors

EUROMAR 2024 - The 20th European Magnetic Resonance Congress , 2024 - Bilbao ; Millet, Oscar, Artikel HYP-012, insges. 1 S.

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Solvents effects in SABRE-based nuclear spin hyperpolarization

EUROMAR 2024 - The 20th European Magnetic Resonance Congress , 2024 - Bilbao ; Millet, Oscar, Artikel HYP-033, insges. 1 S.

Plaumann, Markus; Mysegaes, Felix; Myers, John; Kempf, Nicolas; Assaf, Charbel; Bernarding, Johannes; Körber, Rainer W.; Buckenmaier, Kai; Pravdivtsev, Andrey

Investigation of solvent dependence in nuclear spin hyperpolarization using SABRE under two-phase transfer conditions

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