

### **Amplitude-modulated low-power decoupling sequences for fast magic-angle spinning NMR**

Agarwal, Vipin; **Tuherm, Tiit; Reinhold, Andres; Past, Jaan; Samoson, Ago**; Ernst, Matthias; Meier, Beat H. Chemical Physics Letters 2013 / p. 1-7 <https://doi.org/10.1016/j.cplett.2013.07.073> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A catalase-related hemoprotein in coral is specialized for synthesis of short-chain aldehydes : discovery of P450-type hydroperoxide lyase activity in a catalase**

**Teder, Tarvi; Lõhela, Helike**; Boeglin, William E.; Calcutt, Wade M.; Brash, Alan R.; **Samel, Nigulas** Journal of biological chemistry 2015 / p. 19823-19832 : ill <https://doi.org/10.1074/jbc.M115.660282> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Characterization of protein-protein interfaces in large complexes by solid-state NMR solvent paramagnetic relaxation enhancements**

Öster, Carl; Kosol, Simone; Hartmüller, Christoph; Lamley, Jonathan M.; Iuga, Dinu; **Oss, Andres; Org, Mai-Liis; Vanatalu, Kalju; Samoson, Ago**; Madl, Tobias; Lewandowski, Jozef R. Journal of the American Chemical Society 2017 / p. 12165-12174 : ill <https://doi.org/10.1021/jacs.7b03875> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Co-condensates of resorcinols and methylol compounds for adhesive resins**

**Christjanson, Peep; Köösel, Arne-Enn; Siimer, Kadri; Suurpere, Aime** Polymer engineering and science 1997 / 6, p. 928-939 <https://4spepublications.onlinelibrary.wiley.com/doi/abs/10.1002/pen.11736>

### **De novo 3D structure determination from sub-milligram protein samples by solid-state 100 kHz MAS NMR spectroscopy**

Agarwal, Vipin; Penzel, Susanne; Szekely, Kathrin; Cadalbert, Riccardo; Testori, Emilie; **Oss, Andres; Past, Jaan; Samoson, Ago**; Ernst, Matthias; Böckmann, Anja; Meier, Beat H. Angewandte Chemie international edition 2014 / p. 12253-12256 : ill <https://doi.org/10.1002/anie.201405730> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effects of the polarity of the environment to the EIZ conformational equilibria of N-arylamides**

Leis, J.; Karelson, Mati; Klika, K.D. 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 69

### **Fast atomic charge calculation for implementation into a polarizable force field and application to an ion channel protein**

**Witter, Raiker**; Möllhoff, Margit; Koch, Frank-Thomas; **Sternberg, Ulrich** Journal of chemistry 2015 / p. 1-14 : ill <https://doi.org/10.1155/2015/908204> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **High fraction of penta-coordinated aluminum and gallium in lanthanum–aluminum–gallium borates**

Turcu, Romulus Valeriu Flaviu; **Samoson, Ago**; Maier, Maria; Trandafir, Diana Louisa; Simon, Simion Journal of the American Ceramic Society 2016 / p. 2795 - 2800 <https://doi.org/10.1111/jace.14265> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Hydrogen interaction with point defects in the Si-SiO<sub>2</sub> structures and its influence on the interface properties**

**Kropman, Daniel; Mellikov, Enn**; Kämer, T.; Ugaste, Ülo; Laas, Tõnu; Heinmaa, I.; Abru, Uno; Medvid, A. Solid state phenomena 2008 / p. 345-350 <https://www.scientific.net/SSP.131-133.345>

### **<sup>1</sup>H line width dependence on MAS speed in solid state NMR - comparison of experiment and simulation**

Sternberg, Ulrich; **Witter, Raiker**; Kuprov, Ilya; Lamley, Jonathan M.; **Oss, Andres**; Lewandowski, Jozef R.; **Samoson, Ago** Journal of magnetic resonance 2018 / p. 32-39 : ill <https://doi.org/10.1016/j.jmr.2018.04.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Interaction of point defects with impurities in the Si-SiO<sub>2</sub> system and its influence on the interface properties**

**Kropman, Daniel; Mellikov, Enn**; Kämer, Tiit; Heinmaa, Ivo; Laas, Tõnu; Londos, Charalampos; Misiuk, Andrzej Solid state phenomena 2011 / p. 263-266 <https://www.sciencedirect.com/science/article/pii/S0040609009014564>

### **Interaction of point defects with impurities in the Si-SiO<sub>2</sub> system and its influence on the interface properties**

**Kropman, Daniel**; Kämer, Tiit; Dolgov, Sergei; Heinmaa, Ivo; Laas, Tõnu; Londos, Charalampos Physica status solidi (c) 2011 / p. 694-696 : ill <https://www.sciencedirect.com/science/article/pii/S0040609009014564>

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**Kropman, Daniel**; Kämer, Tiit; Dolgov, Sergei; Heinmaa, Ivo; Laas, Tõnu; Londos, C. A. The 9th International Conference on Global Research and Education : August 9-12, 2010, Riga : digest 2010 / p. 231-233 <https://www.sciencedirect.com/science/article/abs/pii/S0040609009014564>

### **Interaction of point defects with impurities in the Si-SiO<sub>2</sub> system and its influence on the properties of the interface**

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### **Interaction of point defects with impurities in the Si-SiO<sub>2</sub> system and its influence on the properties of the interface**

**Kropman, Daniel; Mellikov, Enn; Öpik, Andres; Lott, Kalju;** Kärner, T.; Heinmaa, I.; Laas, Tõnu; Medvid, A.; Skroupa, W.; Prucnal, S.; Rebohle, L.; Zvyagin, S.; Cizmar, E.; Ozerov, M.; Wosnitsa, J. Thin solid films 2010 / 9, p. 2374-2376  
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**Investigation of kukersite structure using NMR and oxidative cleavage : on the nature of phenolic precursors in the kerogen of Estonian kukersite**

**Lille, Ülo;** Heinmaa, I.; **Müürisepp, Aleksander-Mati; Pehk, Tõnis** Oil shale 2002 / 2, p. 101-116 : ill  
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**Isomers and conformers of complexes of Ti(OiPr)<sub>4</sub> with cuclopentane-1,2-dione : NMR study and DFT calculations**

**Osadchuk, Irina; Pehk, Tõnis; Paju, Anne; Lopp, Margus; Öeren, Mario; Tamm, Toomas** International journal of quantum chemistry 2014 / p. 1012-1018 : ill <https://doi.org/10.1002/qua.24619> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Keskkonna polaarsuse mõju EIZ konformatsioonilisele tasakaalule N-arüülamiidides**

Leis, J.; Karelson, Mati; Klika, K.D. XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 63

**Lipoxygenase-catalyzed transformation of epoxy fatty acids to hydroxy-endoperoxides : a potential P450 and lipoxygenase interaction**

**Teder, Tarvi;** Boeglin, William E.; Brash, Alan R. Journal of lipid research 2014 / p. 2587-2596 : ill <https://doi.org/10.1194/jlr.M054072> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Maximum entropy reconstruction of joint [phi], [psi]-distribution with a coil-library prior : the backbone conformation of the peptide hormone motilin in aqueous solution from [phi] and [psi]-dependent J-couplings**

Massad, Tariq; Jarvet, Jüri; Tanner, Risto; **Tomson, Katrin; Smirnova, Julia; Palumaa, Peep;** Sugai, Mariko; Kohno, Toshiyuki; **Vanatalu, Kalju;** Damberg, Peter Journal of biomolecular NMR 2007 / 2, p. 107-123  
[https://www.researchgate.net/publication/6369716\\_Maximum\\_entropy\\_reconstruction\\_of\\_joint\\_phi-psi-distribution\\_with\\_a\\_coil-library\\_prior\\_The\\_backbone\\_conformation\\_of\\_the\\_peptide\\_hormone\\_motilin\\_in\\_aqueous\\_solution\\_from\\_phi\\_and\\_psi-dependent\\_J-couplings](https://www.researchgate.net/publication/6369716_Maximum_entropy_reconstruction_of_joint_phi-psi-distribution_with_a_coil-library_prior_The_backbone_conformation_of_the_peptide_hormone_motilin_in_aqueous_solution_from_phi_and_psi-dependent_J-couplings)

**Molecular dynamics simulations on PGLa using NMR orientational constraints**

**Sternberg, Ulrich; Witter, Raiker** Journal of biomolecular NMR 2015 / p. 265-274 : ill <https://doi.org/10.1007/s10858-015-9983-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Multilayered core-shell structure of polyol-stabilized calcium fluoride nanoparticles characterized by NMR**

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**New homologues of chiral cyclohexylhemicucurbit[n]urils**

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**NMR assignment of methyl groups in immobilized proteins using multiple-bond <sup>13</sup>C homonuclear transfers, proton detection, and very fast MAS**

Paluch, Piotr; Augusyniak, Rafal; **Org, Mai-Liis; Vanatalu, Kalju; Kaldma, Ats; Samoson, Ago;** Stanek, Jan Frontiers in Molecular Biosciences 2022 / Art. 828785 <https://doi.org/10.3389/fmolb.2022.828785> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**NMR study of urea-formaldehyde-ammonia oligomers**

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**Optimization and degradation studies of cellulose transesterification to palmitate esters in superbase ionic liquid**

**Savale, Nutan Bharat; Tarasova, Elvira; Krasnou, Illia; Kudrjašova, Marina;** Rjabovs, Vitālijs; Reile, Indrek; Heinmaa, I. A.; **Krumme, Andres** Carbohydrate Research 2024 / art. 109047 <https://doi.org/10.1016/j.carres.2024.109047> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Point defects interaction with extended defects and impurities and its influence on the Si-SiO<sub>2</sub> system properties**

**Kropman, Daniel; Arbu, Uno; Kärner, T.; Ugaste, Ülo; Mellikov, Enn; Kauk, Marit;** Heinmaa, I.; **Samoson, Ago;** Medvid, A. Gettering and defect engineering in semiconductor technology. XI 2005 / p. 333-338 : ill  
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### **Satellite Exploration of Earth Resources using nuclear magnetic resonance phenomenon : application for Estonia**

Šogenov, Kazbulat; Šogenova, Alla; Ivanchenko, Pavel; Azykovskyy, Sergiy Kliimast, geoloogias, ringmajandusest ja ajaloost 2024 / p. 52-54 : ill [https://www.ester.ee/record=b5673955\\*est](https://www.ester.ee/record=b5673955*est) <https://kirjandus.geoloogia.info/reference/49159>

### **Simulation of oriented NMR spectra : combining molecular dynamics and chemical shift tensor calculations**

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### **Solid-state <sup>13</sup>C NMR study of cured resorcinol-formaldehyde resins**

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### **Solid-state heteronuclear multiple-quantum spectroscopy under a magic-angle spinning frequency of 150 kHz**

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### **Solid-state NMR backbone chemical shift assignments of α-synuclein amyloid fibrils at fast MAS regime**

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### **Spinning faster: protein NMR at MAS frequencies up to 126kHz**

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### **Structural, magnetic and NMR studies of polycrystalline Y-type Hexaferrites**

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### **Study of oxygen vacancy dynamics in Sc-doped ceria with NMR techniques = Hapniku vakantsi dünaamika uurimine Sc-lisandiga tseeriumdioksiidis TMR abil**

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### **Surface defect-enhanced conductivity of calcium fluoride for electrochemical applications**

Molaiyan, Palanivel; Witter, Raiker Material design & processing communications 2019 / art. e44, 10 p. : ill <https://doi.org/10.1002/mdp2.44>

### **The metabolic pattern could be useful for better understanding of the etiology of cardiovascular diseases**

Titma, Tiina; Shin, Min-Ji; Ludwig, Christian; Günther, Ulrich L.; Pikta, Marika; Zemtsovskaja, Galina; Viigimaa, Margus; Tanner, Risto 1st Nordic Metabolomics Conference, 26-28 August 2018 Örebro, Sweden : abstract book 2018 / p. 92-93 [https://www.oru.se/contentassets/8ce68e72859b49ad9a8bcb96acd612f6/program\\_abstract-book\\_2018.pdf](https://www.oru.se/contentassets/8ce68e72859b49ad9a8bcb96acd612f6/program_abstract-book_2018.pdf)

### **THz gyrotron and BWO designed for operation in DNP-NMR spectrometer magnet**

Bratman, V. L.; Fedotov, A. E.; Kalynov, Yu K.; Makhlov, Petr B.; Samoson, Ago Journal of Infrared, Millimeter, and Terahertz Waves 2013 / p. 837 - 846 <https://doi.org/10.1007/s10762-013-0024-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The transcriptional repressor domain of Gli3 is intrinsically disordered**

Tsanev, Robert; Vanatalu, Kalju; Jarvet, Jüri; Tanner, Risto; Laur, Kristi; Tiigimägi, Piret; Kragelund, Birthe B.; Østerlund, Torben; Kogerman, Priit PLoS ONE 2013 / art. e76972 <https://doi.org/10.1371/journal.pone.0076972> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Unsubstituted oxacalix[n]arenes (n=4 and 8): a conformational study in solution and solid state and interaction studies with aromatic guests**

Peterson, Anna; Kaabel, Sandra; Kahn, Iiris; Pehk, Tõnis; Aav, Riina; Adamson, Jasper ChemistrySelect 2018 / p. 9091 - 9095 <https://doi.org/10.1002/slct.201801590> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)