

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 <http://dx.doi.org/10.1074/jbc.M115.660282>

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 <http://dx.doi.org/10.1021/jacs.7b03875>

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 <http://dx.doi.org/10.1002/anie.201405730>

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 <http://dx.doi.org/10.1155/2015/908204>

¹H 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-SiO₂ system and its influence on the interface properties

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-SiO₂ system and its influence on the properties of the interface

Kropman, Daniel; Mellikov, Enn; Öpik, Andres; Lott, Kalju; Kämer, 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 <https://www.sciencedirect.com/science/article/abs/pii/S0040609009014564>

Interaction of point defects with impurities in the Si-SiO₂ system and its influence on the properties of the interface

Kropman, Daniel; Mellikov, Enn; Lott, Kalju; Kämer, T.; Heinmaa, I.; Laas, Tõnu; Medvid, A.; Skroupa, W.; Prucnal, S.; Zvyagin, S.; Cizmar, E.; Ozerov, M.; Wosnitsa, J. Solid state phenomena 2010 / p. 145-148 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0040609009014564>

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

Isomers and conformers of complexes of Ti(OiPr)₄ 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

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 <http://dx.doi.org/10.1194/jlr.M054072>

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-ps-distribution_with_a_coil-library_prior_The_backbone_conformation_of_the_peptide_hormone_motilin_in_aqueous_solution_from_phi_and_ps-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 <http://dx.doi.org/10.1007/s10858-015-9983-y>

New homologues of chiral cyclohexylhemicucurbit[n]urils

Fomitšenko, Maria; Shmatova, Elena; Öeren, Mario; Järving, Ivar; Aav, Riina *Supramolecular chemistry* 2014 / p. 698-703 : ill

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

Paluch, Piotr; Auguszyński, Rafał; 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

Siimer, Kadri; Oja, Holger; Laht, Aare *Kemia-kemi* = [Finnish chemistry] 1991 / p. 984-985 https://www.ester.ee/record=b1201067*est

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

Sternberg, Ulrich; Witter, Raiker *Magnetic resonance in chemistry* 2023 <https://doi.org/10.1002/mrc.5403>

Solid-state ¹³C NMR study of cured resorcinol-formaldehyde resins

Lippmaa, Helle; Samoson, Ago *Nihon Setchaku Kyōkai shi* = Adhesion : journal of the Adhesion Society of Japan 1988 / p. 300-305

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

Penzel, Susanne; Oss, Andres; Org, Mai-Liis; Samoson, Ago; Böckmann, Anja; Ernst, Matthias; Meier, Beat H. *Journal of biomolecular NMR* 2019 / p. 19-29 <https://doi.org/10.1007/s10858-018-0219-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Khanduri, Himani; Chandra, Mukesh; Kooskora, Helgi; Heinmaa, Ivo; Krustok, Jüri; Stern, Raivo *ECerS XII : the 12th Conference of the European Ceramic Society* : Stockholm, Sweden, June 19-23, 2011 2011

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

Pöder, Reio 2015 https://www.ester.ee/record=b4494538*est

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

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](#)