

Publications 2004

(alphabetically ordered by first author)

- 1 POLAK, Matjaz, SELEY, Katherine L., PLAVEC, Janez Conformational properties of shape modified nucleosides - fleximers. *J. Am. Chem. Soc.*, 2004, vol. 126, no. 26, 8159-8166. [COBISS.SI-ID 3065626]
- 2 SKET, Primoz, CRNUGELJ, Martin, KOZMINSKI, Wiktor, PLAVEC, Janez. presence of smaller Na⁺ ions. *Org. Biomol. Chem.*, 2004, vol. 2, no. 14, 1970-1973. [COBISS.SI-ID 3078426]
- 3 SKET, Primoz, CRNUGELJ, Martin, PLAVEC, Janez. d(G₃T₄G₄) forms unusual dimeric G-quadruplex structure with the same general fold the presence of K⁺, Na⁺ or NH₄ ions. *Bioorg. Med. Chem.*, 2004, vol. 12, no. 22, 5735-5744. [COBISS.SI-ID 3135002]
- 4 OLEJNICZAK, Sebastian, SOBCZAK, Milena, POTRZEBOWSKI, Jarek M., POLAK, Matjaz, PLAVEC, Janez. Assignment of absolute configuration at phosphorus of P-chiral diastereomers of deoxyribonucleoside methanephosphoramidates by means of NMR spectroscopy. *Tetrahedron*, 2004, vol. 60, no. 18, 3979-3986. [COBISS.SI-ID 3037210]
- 5 THIBAudeau, Christophe, STENUTZ, Roland, HERTZ, Brian, KLEPACH, Thomas ZHAO, Shikai, WU, Qingquan, CARMICHAEL, Ian, SERIANNI, Anthony S. Correlated C-C and C-O bond conformations in saccharide hydroxymethyl groups : parametrization and application of redundant ¹H-¹H, ¹³C-¹H, and ¹³C-¹³C NMR J-couplings. *J. Am. Chem. Soc.*, 2004, vol. 126, no. 48, 15668-15685. [COBISS.SI-ID 3148314]
- 6 BALEVICIUS, Vytautas, GACESA, Aleksandar, PLAVEC, Janez. NMR study of heterogeneity in pyridine-N-oxide...HCl crystal. *Cent. Eur. J. Phys.*, 2004, vol. 2, no. 1, 120-131. [COBISS.SI-ID 2966554]
- 7 RADECKI, Jerzy, STENKA, Iwona, DOLUSIC, Eddy, DEHAEN, Wim, PLAVEC, Janez. Potentiometric discrimination of neutral forms of nitrophenol isomers by liquid membrane electrodes incorporated with corroles. *Comb. Chem. High T. Scr.*, 2004, vol. 7, no. 4, 375-381. [COBISS.SI-ID 3100186]
- 8 RADECKI, Jerzy, RADECKA, Hanna, PIOTROWSKI, Tomasz, DEPRAETERE, Stefaan, DEHAEN, Wim, PLAVEC, Janez. Interface host-guest interaction between calix[4]pyrrole and neutral derivatives of phenol as the base for their potentiometric discrimination. *Electroanalysis*, 2004, vol. 16, no. 24, 2073-2081. [COBISS.SI-ID 3167258]
- 9 STEFANIC, Petra, SIMONCIC, Zvone, BREZNIK, Matej, PLAVEC, Janez, ANDERLUH, Marko, ADDICKS, Elisabeth, GIANNIS, Athanassios, KIKELJ, Danijel. Conformationally tailored N-[(2-methyl-3-oxo-3,4-dihydro-2H-1, 4-benzoxazin-2-yl)carbonyl]proline templates as molecular tools for the design of peptidomimetics. Design and synthesis of fibrinogen receptor antagonists. *Org. Biomol. Chem.*, 2004, vol. 2, no. 10, 1511-1517. [COBISS.SI-ID 1498737]

- 10 MALI, Gregor, TAULELLE, Francis. Detecting proximities between quadrupolar nuclei by double-quantum NMR. *Chem. Commun.*, 2004, no. 7, 868-869. [COBISS.SI-ID 3001370]
- 11 MALI, Gregor, FINK, Gerhard, TAULELLE, Francis. Double-quantum homonuclear correlation magic angle sample spinning nuclear magnetic resonance spectroscopy of dipolar coupled quadrupolar nuclei. *J. Chem. Phys.*, 2004, vol. 120, no. 6, 2835-2845. [COBISS.SI-ID 2978842]
- 12 MALI, Gregor, KAUCIC, Venceslav. Enhancing sensitivity or resolution of homonuclear correlation experiment for half-integer quadrupolar nuclei. *J. Magn. Reson.*, 2004, vol. 171, no. 1, 48-56. [COBISS.SI-ID 3136794]
- 13 MAVROMOUSTAKOS, Thomas, ZERVOU, Maria, ZOUMPOULAKIS, Panagiotis, KYRIKOU, Ioanna, BENETIS, Nicolas P., POLEVAYA, Ludmila, ROUMELIOTI, Panagiota, GIATAS, Nektarios, ZOGA, Anastasia, MOUTEVELIS MINAKAKIS, Panayiota, KOLOCOURIS, Antonios, VLAHAKOS, Demetrios, GOLIC GRDADOLNIK, Simona, MATSOUKAS, John. Conformation and bioactivity. Design and discovery of novel antihypertensive drugs. *Curr. Top. Med. Chem.*, 2004, vol. 4, no. 4, 385-401. [COBISS.SI-ID 3031066]
- 14 STERK, Damjan, STEPHAN, Michel, MOHAR, Barbara. Transfer hydrogenation of activated ketones using novel chiral Ru(II)-N- arenesulfonyl-1, 2-diphenylethylenediamine complexes. *Tetrahedron Lett.*, 2004, vol. 45, no. 3, 535-537. [COBISS.SI-ID 2952474]
- 15 PRISTOVSEK, Primoz, KIDRIC, Jurka. The search for molecular determinants of LPS inhibition by proteins and peptides. *Curr. Top. Med. Chem.*, 2004, vol. 4, no. 11, 1185-1201. [COBISS.SI-ID 3071514]
- 16 SIMCIC, Sasa, WRABER-HERZOG, Branka, PRISTOVSEK, Primoz, SOLLNER DOLENC, Marija, GOBEC, Stanislav, URLEB, Uros. Odkrivanje novih imunomodulatorjev in možnosti za posege v imunski sistem-in vitro = In vitro trials for discovering novel immunomodulatory substances and possibilities for immunointerventions. *Med. razgl., Suppl., (Medicinski razgledi)*, 2004, let. 43, suppl. 5, 15-19. [COBISS.SI-ID 1629553]
- 17 JAPELJ, Bostjan, WALTHO, Jonathan P., JERALA, Roman. Comparison of backbone dynamics of monomeric and domain-swapped stefin A. *Proteins - Struct. Funct. Genet.*, 2004, vol. 54, no. 3, 500-512. [COBISS.SI-ID 2968090]
- 18 HUSKIC, Miroslav, ZIGON, Majda. The influence of side-chain and main-chain spacer lengths on the thermal and structural properties of diethanolamine based side-chain polyesters. *Polym. Bull.*, 2004, vol. 53, no. 1, 35-42. [COBISS.SI-ID 3157786]
- 19 STARE, Jernej, JEZIERSKA, Aneta, AMBROZIC, Gabriela, KOSIR, Iztok J., KIDRIC, Jurka, KOLL, Aleksander, MAVRI, Janez, HADZI, Dusan. Density functional calculation of the 2D potential surface and deuterium isotope effect on ^{13}C chemical shifts in piccolinic acid N-oxide: comparison with experiment. *J. Am. Chem. Soc.*, 2004, vol. 126, no. 13, 4437-4443. [COBISS.SI-ID 3008282]

- 20 ZAGAR, Ema, KRZAN, Andrej. SEC-MALS characterization of microbial polyhydroxyalkanoates. *Biomacromolecules*, 2004, vol. 5, no. 2, 628-636. [COBISS.SI-ID 2983194]
- 21 ZAGAR, Ema, ZIGON, Majda. Molar mass distribution of commercial aliphatic hyperbranched polyester based on 2,2-bis(methylol)propionic acid. *J. Chromatogr.*, 2004, vol. A 1034, no. 1/2, 77-83. [COBISS.SI-ID 2983962]
- 22 SPINDLER, Lea, DREVENSEK OLENIK, Irena, COPIC, Martin, CERAR, Janez, SKERJANC, Joze, MARIANI, Paolo. Dynamic light scattering in ¹³P NMR study of the self-assembly of deoxyguanosine 5'-monophosphate: the effect of added salt. *Eur. Phys. J. E*, 2004, vol. 13, no. 1, 27-33. [COBISS.SI-ID 1730148]
- 23 SPINDLER, Lea, DREVENSEK OLENIK, Irena, COPIC, Martin, MARIANI, Paolo. The effect of temperature on the self-assembly of deoxyguanosine 5'-monophosphate in pretransitional region of the I-Ch phase transition: presented at 19th International Liquid Crystal Conference, ILCC2002, June 30- July 5, 2002, Edinburgh, UK. *Mol. Cryst. Liq. Cryst.*, 2004, vol. 409, 43-40. [COBISS.SI-ID 18344487]
- 24 JEREB, Marjan, ZUPAN, Marko, STAVBER, Stojan. Effective and selective iodofunctionalisation of organic molecules in water using iodine-hydrogen peroxide tandem. *Chem. Commun.*, 2004, no. 22, 2614-2615. [COBISS.SI-ID 18616871]
- 25 STAVBER, Gaj, ZUPAN, Marko, JEREB, Marjan, STAVBER, Stojan. Selective and effective fluorination of organic compounds in water using Selectfluor F-TEDA-BF₄. *Org. Lett.*, 2004, vol. 6, 4973-4976. [COBISS.SI-ID 18711079]
- 26 ISKRA, Jernej, STAVBER, Stojan, ZUPAN, Marko. Nonmetal-catalyzed iodination of arenes with iodide and hydrogen peroxide. *Synthesis*, 2004, no. 11, 1868-1873. [COBISS.SI-ID 18356263]
- 27 TUTTLE, Tell, CERKOVNIK, Janez, PLESNICAR, Bozo, CREMER, Dieter. Hemioortho esters and hydrotrioxides as the primary products in the low-temperature ozonation of cyclic acetals: an experimental and theoretical investigation. *J. Am. Chem. Soc.*, 2004, vol. 126, no. 49, 16093-16104. [COBISS.SI-ID 26307333]
- 28 MARINKO, Petra, KRBAVCIC, Ales, MLINSEK, Gregor, SOLMAJER, Tomaz, TRAMPUS-BAKIJA, Alenka, STEGNAR, Mojca, STOJAN, Jure, KIKELJ, Danijel. Novel non-covalent thrombin inhibitors incorporating P1 4,5,6,7- tetrahydrobenzothiazole arginine side chain mimetics. *Eur. J. Med. Chem.*, 2004, vol. 39, no. 3, 257-265. [COBISS.SI-ID 1467761]
- 29 OBLAK, Marko, PREZELJ, Andrej, PECAR, Slavko, SOLMAJER, Tomaz. Thiol-reactive clenbuterol analogues conjugated to bovine serum albumin. *Z. Naturforsch. C*, 2004, vol. 59, no. 11-12, 880-886. [COBISS.SI-ID 3092762]
- 30 KOTNIK, Miha, OBLAK, Marko, HUMLJAN, Jan, GOBEC, Stanislav, URLEB, Uros, SOLMAJER, Tomaz. Quantitative structure-activity relationships of *Streptococcus pneumoniae* MurD transition state analogue inhibitors. *Qsar. Comb. Sci.*, 2004, vol. 23, no. 6, 399-405. [COBISS.SI-ID 3084570]
- 31 ZEGA, Anamarija, MLINSEK, Gregor, SOLMAJER, Tomaz, TRAMPUS-BAKIJA, Alenka, STEGNAR, Mojca, URLEB, Uros. Thrombin inhibitors built on an azaphenylalanine scaffold. *Bioorg. Med. Chem. Lett.*, 2004, vol. 14, no. 6, 1563-1567. [COBISS.SI-ID 1478769]

- 32 KOSIR, Iztok J., LAPORNIK, Brigita, ANDRENSEK, Samo, GOLC-WONDRA, Alenka, VRHOVSEK, Urska, KIDRIC, Jurka. Identification of anthocyanins in wines by liquid chromatography, liquid chromatography-mass spectrometry and nuclear magnetic resonance. *Anal. Chim. Acta.*, 2004, vol. 513, no. 1, 277-282. [COBISS.SI-ID 3032602]
- 33 AVBELJ, Franc, KOCJAN, Darko, BALDWIN, Robert Lesh. Protein chemical shifts arising from α -helices and β -sheets on solvent exposure. *Proc. Natl. Acad. Sci. USA*, 2004, vol. 101, no. 50, 17394-17397. [COBISS.SI-ID 3151898]