# AIMMS publication report for: 2022-07-21

### New papers: 2022-6/7

Melsen, P. R., Yoshisada, R., Jongkees, S. A. **Opportunities for Expanding Encoded Chemical Diversification and Improving Hit Enrichment in m** (ChemBioChem, 20 Jun 2022)[https://doi.org/10.1002/cbic.202100685]

Padilla, S., Hill, B. N., Legradi, J., Klüver, N. **Using zebrafish to assess developmental neurotoxicity** (None, Jun 2022)[https://doi.org/10.1016/B978-0-323-89773-0.00013-8]

Nieuwland, C., Fonseca Guerra, C. **How the Chalcogen Atom Size Dictates the Hydrogen-Bond Donor Capability of Carboxamides, Thioamides, and Selenoamides** (Chemistry - A European Journal, 1 Jun 2022)[https://doi.org/10.1002/chem.202200755]

Schmerling, C., Kouril, T., Snoep, J., Bräsen, C., Siebers, B. **Enhanced underground metabolism challenges life at high temperature–metabolic thermoadaptation in hyperthermophilic Archaea** (Current Opinion in Systems Biology, Jun 2022)[https://doi.org/10.1016/j.coisb.2022.100423]

Groeneveld, I., Pirok, B. W., Molenaar, S. R., Schoenmakers, P. J., van Bommel, M. R. **The development of a generic analysis method for natural and synthetic dyes by ultra-high-pressure liquid chromatography with photo-diode-array detection and triethylamine as an ion-pairing agent** (Journal of Chromatography A, 21 Jun 2022)[https://doi.org/10.1016/j.chroma.2022.463038]

Badkobeh, G., Charalampopoulos, P., Kosolobov, D., Pissis, S. P. **Internal shortest absent word queries in constant time and linear space** (Theoretical Computer Science, 24 Jun 2022)[https://doi.org/10.1016/j.tcs.2022.04.029]

Nguyen, T. L. A., Dao, A. T. N., Dang, H. T. C., Koekkoek, J., Brouwer, A., de Boer, T. E., van Spanning, R. J. **Degradation of 2,4-dichlorophenoxyacetic acid (2,4-D) and 2,4,5-trichlorophenoxyacetic acid (2,4,5-T) by fungi originating from Vietnam** (Biodegradation, Jun 2022)[https://doi.org/10.1007/s10532-022-09982-1]

Bernardini, G., Gawrychowski, P., Pisanti, N., Pissis, S. P., Rosone, G. **ELASTIC-DEGENERATE STRING MATCHING VIA FAST MATRIX MULTIPLICATION** (SIAM Journal on Computing, Jun 2022)[https://doi.org/10.1137/20M1368033]

Nugroho, A. D. W., van Olst, B., Bachtiar, S. A., Boeren, S., Kleerebezem, M., Bachmann, H. **Manganese Modulates Metabolic Activity and Redox Homeostasis in Translationally Blocked Lactococcus cremoris, Impacting Metabolic Persistence, Cell Culturability, and Flavor Formation** (Microbiology spectrum, Jun 2022)[https://doi.org/10.1128/spectrum.02708-21]

He, B., Di, X., Guled, F., Harder, A. V., van den Maagdenberg, A. M., Terwindt, G. M., Krekels, E. H., Kohler, I., Harms, A., Ramautar, R., Hankemeier, T. **Quantification of endocannabinoids in human cerebrospinal fluid using a novel micro-flow liquid chromatography-mass spectrometry method** (Analytica Chimica Acta, 1 Jun 2022)[https://doi.org/10.1016/j.aca.2022.339888]

Baerends, E. J. **Chemical potential, derivative discontinuity, fractional electrons, jump of the Kohn-Sham potential, atoms as thermodynamic open systems, and other (mis)conceptions of the density functional theory of electrons in molecules** (Physical Chemistry Chemical Physics, 7 Jun 2022)[https://doi.org/10.1039/d2cp01585d]

Mu, Y., Bossink, B., Vinig, T. **Developing a classification scheme of service innovation: Synthesizing degree and type of change in service innovation** (Annals of Tourism Research, Jul 2022)[https://doi.org/10.1016/j.annals.2022.103411]

Bickelhaupt, F. M., Fonseca Guerra, C., Mitoraj, M., Sagan, F., Michalak, A., Pan, S., Frenking, G. **Clarifying notes on the bonding analysis adopted by the energy decomposition analysis** (Physical Chemistry Chemical Physics, 2 Jun 2022)[https://doi.org/10.1039/d2cp02153f]

Seo, S. S., Louros, S. R., Anstey, N., Gonzalez-Lozano, M. A., Harper, C. B., Verity, N. C., Dando, O., Thomson, S. R., Darnell, J. C., Kind, P. C., Li, K. W., Osterweil, E. K. **Excess ribosomal protein production unbalances translation in a model of Fragile X Syndrome** (Nature Communications, 10 Jun 2022)[https://doi.org/10.1038/s41467-022-30979-0]

Pistollato, F., Bal-Price, A., Coecke, S., Parvatam, S., Pamies, D., Czysz, K., Hao, J., Kee, K., Teo, A. K. K., Niu, S., Wilmes, A., Smirnova, L., Freund, C., Mummery, C., Stacey, G. **Quality criteria for in vitro human pluripotent stem cell-derived models of tissue-based cells** (Reproductive Toxicology, Sep 2022)[https://doi.org/10.1016/j.reprotox.2022.06.003]

Yuan, X., Visscher, L., Gomes, A. S. P. **Assessing MP2 frozen natural orbitals in relativistic correlated electronic structure calculations** (Journal of Chemical Physics, 14 Jun 2022)[https://doi.org/10.1063/5.0087243]

Kok, Z. Y., Stoddart, L. A., Mistry, S. J., Mocking, T. A., Vischer, H. F., Leurs, R., Hill, S. J., Mistry, S. N., Kellam, B. **Optimization of Peptide Linker-Based Fluorescent Ligands for the Histamine H1Receptor** (Journal of medicinal chemistry, 23 Jun 2022)[https://doi.org/10.1021/acs.jmedchem.2c00125]

Roose, T. R., Verdoorn, D. S., Mampuys, P., Ruijter, E., Maes, B. U., Orru, R. V. **Transition metal-catalysed carbene- and nitrene transfer to carbon monoxide and isocyanides** (Chemical Society Reviews, 24 Jun 2022)[https://doi.org/10.1039/d1cs00305d]

Boonekamp, F. J., Knibbe, E., Vieira-Lara, M. A., Wijsman, M., Luttik, M. A., van Eunen, K., Ridder, M. D., Bron, R., Almonacid Suarez, A. M., van Rijn, P., Wolters, J. C., Pabst, M., Daran, J. M., Bakker, B. M., Daran-Lapujade, P. **Full humanization of the glycolytic pathway in Saccharomyces cerevisiae** (Cell Reports, 28 Jun 2022)[https://doi.org/10.1016/j.celrep.2022.111010]

Lemmens, A. K., Rap, D. B., Brünken, S., Buma, W. J., Rijs, A. M. **Polycyclic aromatic hydrocarbon growth in a benzene discharge explored by IR-UV action spectroscopy** (Physical Chemistry Chemical Physics, 28 Jun 2022)[https://doi.org/10.1039/d2cp01631a]

Ciarlo, E., Joffraud, M., Hayat, F., Giner, M. P., Giroud‐gerbetant, J., Sanchez‐garcia, J. L., Rumpler, M., Moco, S., Migaud, M. E., Cantó, C. **Nicotinamide Riboside and Dihydronicotinic Acid Riboside Synergistically Increase Intracellular NAD+ by Generating Dihydronicotinamide Riboside** (Nutrients, 1 Jul 2022)[https://doi.org/10.3390/nu14132752]

Huynh, D. T., Jong, W. S., Koningstein, G. M., van Ulsen, P., Luirink, J. **Overexpression of the Bam Complex Improves the Production of Chlamydia trachomatis MOMP in the E. coli Outer Membrane** (International Journal of Molecular Sciences, 1 Jul 2022)[https://doi.org/10.3390/ijms23137393]