

Doctorate in Chemistry

Publications of the PhD students in 2020

Cycle 34

- S. Taghavi, E. Ghedini, F. Menegazzo, M. Signoretto, D. Gazzoli, D. Pietrogiacomi, A. Matayeva, A. Fasolini, A. Vaccari, F. Basile, G. Fornasari, MCM-41 Supported Co-Based Bimetallic Catalysts for Aqueous Phase Transformation of Glucose to Biochemicals, *Process*, **2020**, *8*, 843. DOI: 10.3390/pr8070843
- G. Moro, F. Bottari, S. Liberi, S. Covaceuszach, A. Cassetta, A. Angelini, K. De Wael, L. M. Moretto, Covalent immobilization of delipidated human serum albumin on poly(pyrrole-2-carboxylic) acid film for the impedimetric detection of perfluorooctanoic acid, *Bioelectrochemistry*, **2020**, *134*, 107540-107568, DOI: 10.1016/j.bioelechem.2020.107540.
- G. Moro, H. Barich, K. Driesen, N. Felipe Montiel, L. Neven, C. Domingues Mendonça, S. Thiruvottriyur Shanmugam, E. Daems, K. De Wael, Unlocking the full power of electrochemical fingerprinting for on-site sensing applications, *Analytical and Bioanalytical Chemistry*, **2020**, *412*, 5955–5968, DOI: 10.3390/s20236800.
- F. Bottari, G. Moro, N. Slegers, A. Florea, T. Cowen, S. Piletsky, A. L. N. van Nuijs, K. De Wael, Electropolymerized o-Phenylenediamine on Graphite Promoting the Electrochemical Detection of Nafcillin, *Electroanalysis*, **2020**, *32*, 135 –141, DOI:10.1002/elan.201900397.
- A. M. Stortini, M. A. Baldo, G. Moro, F. Polo, L. M. Moretto, Bio- and Biomimetic Receptors for Electrochemical Sensing of Heavy Metal Ions, *Sensors*, **2020**, *20*, 6800- 6825, DOI: 10.3390/s20236800.
- D. Rigo, R. Calmanti, A. Perosa, and M. Selva, A transesterification-acetalization catalytic tandem process for the functionalization of glycerol: the pivotal role of isopropenyl acetate, *Green Chem.* **2020**, *22*, 5487; doi: 10.1039/D0GC01775B.
- M. Bortoluzzi, J. Castro, A. Gobbo, V. Ferraro, L. Pietrobon, S. Antoniutti Tetrahedral photoluminescent manganese(II) halide complexes with 1,3-dimethyl-2-phenyl-1,3-diazaphospholidine-2-oxide as a ligand, *New J. Chem.*, **2020**, *44*, . 571-579, ISSN 1369-9261
- L. Pietrobon; L. Ronchin; C. Sadraoui; R. Pontello; C. Tosetto; A. Vavasori, Pd/C Catalyzed selective hydrogenation of nitrobenzene to cyclohexanone oxime in the presence of NH₂OH·HCl: Influence of the operative variables and insights on the reaction mechanism, *Appl. Catal. A Gen*, **2020**, *598*, 117570, ISSN 0926-860X

- M. Bortoluzzi, J. Castro, A. Gobbo, V. Ferraro, L. Pietrobon, Light harvesting indolyl-substituted phosphoramidate ligand for the enhancement of Mn(II) luminescence *Dalton Trans.*, **2020**, *49*, 7525-7534, ISSN 1477-9234
- A. Artesani, F. D. Turo, M. Zucchelli, A. Traviglia, Recent advances in protective coatings for cultural heritage - an overview, *Coatings*, **2020**, *10*, 1-36, DOI:10.3390/coatings10030217.
- M. C. Cringoli, O. Bellotto, R. De Zorzi, A. V. Vargiu, S. Marchesan. Self-assembling L-D-L tripeptides dance the twist", *Synlett*, **2020**, *31*, 434-438. *Published as part of the Special Section 11th EuCheMS Organic Division Young Investigator Workshop.*
- A. M. Garcia, R. Lavendomme, S. Kralj, M. Kurbasic, O. Bellotto, M. C. Cringoli, S. Semeraro, A. Bandiera, R. De Zorzi, S. Marchesan Self-assembly of an amino acid derivative into an antimicrobial hydrogel biomaterial *Chem. Eur. J.*, **2020**, *26*, 1880-1886.
- O. Bellotto, S. Kralj, R. De Zorzi, S. Geremia, S. Marchesan. Supramolecular Hydrogels from Unprotected Dipeptides: A Comparative Study on Stereoisomers and Structural Isomers *Soft Matter*, **2020**, *16*, 10151-10157.
- S. Kralj, O. Bellotto, E. Parisi, A. M. Garcia, D. Iglesias, S. Semeraro, C. Deganutti, P. D'Andrea, A. V. Vargiu, S. Geremia, R. De Zorzi, S. Marchesan. Heterochirality and Halogenation Control Phe-Phe Hierarchical Assembly" *ACS Nano*, **2020**, *14*, 16951-16961.
- E. Marangon, M. Buzzo, B. Posocco, S. Gagno, M. Zanchetta, V. Iacuzzi, A.S. Poetto, M. Guardascione, L. Giodini, G. Toffoli. A new high-performance liquid chromatography-tandem mass spectrometry method for the determination of sunitinib and N-desethyl sunitinib in human plasma: Light-induced isomerism overtaking towards therapeutic drug monitoring in clinical routine, *J. Pharm. Biomed. Anal.*, **2020**, *179*, 112949, DOI: 10.1016/j.jpba.2019.112949.
- B. Posocco, M. Buzzo, A.S. Poetto, M. Orleni, S. Gagno, M. Zanchetta, V. Iacuzzi, M. Guardascione, F. Puglisi, D. Basile, G. Pelizzari, E. Marangon, G. Toffoli. Simultaneous quantification of palbociclib, ribociclib and letrozole in human plasma by a new LCMS/MS method for clinical application *PLoS One*, **2020**, *15*, e0228822, DOI:10.1371/journal.pone.0228822.
- M. Zanchetta, V. Iacuzzi, S. Gagno, A.S. Poetto, M. Orleni, E. Marangon, M. Guardascione, L. Foltran, B. Posocco, G. Toffoli. A LC-MS/MS method for therapeutic drug monitoring of sorafenib, regorafenib and their active metabolites in patients with hepatocellular carcinoma, *J. Pharm. Biomed. Anal.*, **2020**, *187*, 113358, DOI: 10.1016/j.jpba.2020.113358.

Cycle 35

- E. Amadio, S. Cailotto, C. Campalani, L. Branzi, C. Raviola, D. Ravelli, E. Cattaruzza, E. Trave, A. Benedetti, M. Selva, A. Perosa, Precursor-Dependent Photocatalytic activity of Carbon Dots, *Molecules*, **2020**, 25, 101, DOI: 10.3390/molecules25010101.
- C. Campalani, F. Chioggia, E. Amadio, M. Gallo, F. Rizzolio, M. Selva, A. Perosa, *J. CO2 util.*, **2020**, 40, 101198, DOI: 10.1016/j.jcou.2020.101198.
- C. Campalani, E. Amadio, S. Zanini, S. Dall'Acqua, M. Panozzo, S. Ferrari, G. DeNadai, S. Francescato, M. Selva, A. Perosa, *J. CO2 util.*, **2020**, 41, 101259, DOI: 10.1016/j.jcou.2020.101259.
- M. Bortoluzzi, J. Castro, A. Gobbo, V. Ferraro, L. Pietrobon, S. Antoniutti, Tetrahedral photoluminescent manganese(II) halide complexes with 1,3-dimethyl-2-phenyl-1,3-diazaphospholidine-2-oxide as a ligand, *New J. Chem.* **2020**, 44, 571-579. DOI: 10.1039/c9nj05083c
- V. Ferraro, M. Bortoluzzi, J. Castro, A. Vomiero, S. You, Luminescent Cu(I) complex with bis(indazol-1-yl)phenylmethane as chelating ligand, *Inorg. Chem. Commun.* **2020**, 116, 107894. DOI: 10.1016/j.inoche.2020.107894
- M. Bortoluzzi, J. Castro, A. Gobbo, V. Ferraro, L. Pietrobon, Light harvesting indolyl-substituted phosphoramidate ligand for the enhancement of Mn(II) luminescence, *Dalton Trans.* **2020**, 49, 7525-7534. DOI: 10.1039/d0dt01659d
- M. Bortoluzzi, V. Ferraro, 138La as a useful isotope for gamma spectroscopy without radioactive sources, *Spectroscopy Europe* **2020**, 32, 14-19. ISSN: 0966-0941
- Barroso-Martin, I., Alberoni, C., Rodriguez-Castellon, E., Infantes-Molina, A., Moretti, E. Recent advances in photo-assisted preferential CO oxidation in H₂-rich stream. *Current Opinion in green and sustainable chemistry*, **2020**, 21, 9.
- E. Cescon, G. Bolcato, S. Federico, M. Bissaro, A. Valentini, M.G. Ferlin, G. Spalluto, M. Sturlese, S. Moro, Scaffold Repurposing of in-House Chemical Library toward the Identification of New Casein Kinase 1 δ Inhibitors, *ACS. Med. Chem. Lett.* **2020**, 11, 6, 1168-1174, <https://doi.org/10.1021/acsmchemlett.0c00028>