

PUBBLICAZIONI SCIENTIFICHE DEI DOTTORANDI IN CHIMICA NEL 2018

M. Natali*, **A. Amati**, N. Demitri, E. Iengo*

Formation of a long-lived radical pair in a Sn(IV) porphyrin–di(L-tyrosinato) conjugate driven by proton-coupled electron-transfer.

Chem. Commun., **2018**, 54, 6148 – 6152.

D. Toffoli, A. Guarnaccio*, C. Grazioli, T. Zhang, F. Johansson, M. de Simone, M. Coreno, A. Santagata, M. D'Auria, C. Puglia, **E. Bernes**, M. Stener, G. Fronzoni*

Electronic Structure Characterization of a Thiophene Benzo-Annulated Series of Common Building Blocks for Donor and Acceptor Compounds Studied by Gas Phase Photoelectron and Photoabsorption Synchrotron Spectroscopies

J. Phys. Chem. A, **2018**, 122 (44), 8745-8761

Berton, G.; Borsato, G.; Zangrando, R.; Gambaro, A.; Fabris, F.; Scarso, A. Highly Efficient Synthesis of C3-symmetry O-alkyl Substituted Triphenylene and Related Mannich Derivatives

Org. Chem. Front., **2018**, 2458-2462

Bonazza, Gregorio; Tartaglia, Stefano; Toffoli, Giuseppe; Polo, Federico; Daniele, Salvatore Voltammetric Behaviour of the Anticancer Drug Irinotecan and its Metabolites in Acetonitrile. Implications for Electrochemical Therapeutic Drug Monitoring

ELECTROCHIMICA ACTA, vol. **289**, pp. 483-493

F. Guida, A. Battisti, I. Gladich, **M. Buzzo**, E. Marangon, L. Giodini, G. Toffoli, A. Laio, F. Berti: Peptide biosensors for anticancer drugs: Design in silico to work in denaturing environment.

Biosensors Bioelectronics **2018**, 100, 298-303

L. Đorđević*, F. Arcudi*, A. D'Urso, **M. Cacioppo**, N. Micali, T. Bürgi, R. Purrello, M. Prato*

Design principles of chiral carbon nanodots help convey chirality from molecular to nanoscale level Nature Commun., **2018**, 9, 3442.

I.J. Gomez, B. Arnaiz, **M. Cacioppo**, F. Arcudi, **M. Prato***

Nitrogen-doped carbon nanodots for bioimaging and delivery of paclitaxel

J. Mater. Chem. B, **2018**, 6, 5540-5548.

Cailotto, Simone; Amadio, Emanuele; Facchin, Manuela; Selva, Maurizio; Pontoglio, Enrico; Rizzolio, Flavio; Riello, Pietro; Toffoli, Giuseppe; Benedetti, Alvise; Perosa, Alvise

Carbon-dots from sugars and ascorbic acid: Role of the precursors on morphology, properties, toxicity and drug uptake

ACS Med. Chem. Lett. **2018**, 832-837

Cailotto, Simone; Mazzaro, Raffaello; Enrichi, Francesco; Vomiero, Alberto; Selva, Maurizio; Cattaruzza, Elti; Cristofori, Davide; Amadio, Emanuele; Perosa, Alvise

Design of Carbon Dots for Metal-free Photoredox Catalysis

ACS App. Mat. Interf. vol. **10**, 40560-40567

Tabanelli, Tommaso; **Cailotto, Simone;** Strachan, Jyah; Masters, Anthony F.; Maschmeyer, Thomas; Perosa, Alvise; Cavani, Fabrizio Process systems for the carbonate interchange reactions of DMC and alcohols: Efficient synthesis of catechol carbonate

Cat. Sci. Technol. **vol. 8**, 1971-1980

Calmanti, Roberto; Galvan, Manuele; Amadio, Emanuele; Perosa, Alvise; Selva, Maurizio
High-Temperature Batch and Continuous-Flow Transesterification of Alkyl and Enol Esters with
Glycerol and Its Acetal Derivatives
ACS Sust. Chem. Eng. **vol. 6**, 3964-3973

Cespugli, Marco; Lotteria, Simone; Navarini, Luciano; Lonzarich, Valentina; DEL TERRA,
Lorenzo; Vita, Francesca; Zweyer, Marina; Baldini, Giovanna; Ferrario, Valerio; Ebert, Cynthia;
Gardossi, Lucia
Rice husk as inexpensive renewable immobilization carrier for biocatalysts employed in the food,
cosmetic and polymer sectors.
Catalysts **2018**, 8, 10.

F. Milocco, F. de Vries, **A. Dall'Anese**, V. Rosar, E. Zangrando, E. Otten,* B. Milani*
Palladium Alkyl Complexes with a Formazanate Ligand: Synthesis, Structure and Reactivity
Dalton Trans., **2018**, 47, 14445-14451.
La back cover della rivista è dedicata a questa pubblicazione.

D. Dashi,
Burro di Mafura e olio di Marula: Potenzialità cosmetiche di piante africane,
Kosmetika, marzo **2018**, numero 2, pagine 84-87

D. Dashi,
Eurochemicals SpA, Olivello Spinoso: Frutto sacro amico della pelle, Cosmetic Technology,
Marzo-Aprile **2018**, Vol (21)2, pagine 44-46

D. Dashi,
Eurochemicals SpA, Da piante africane nuove potenzialità cosmetiche, Make-Up Technology-
Allegato di Cosmetic Technology, Maggio-giugno **2018**, numero 3, pagine 70-75

D. Dashi,
Block Age: Nuovo attivo antipollution,
Cosmetic Technology, Settembre-Ottobre **2018**, Vol 21(5), 36-39

Author: A. M. Garcia, D. Iglesias, E. Parisi, K. E. Styan, L. J. Waddington, **C. Deganutti**, R. De
Zorzi, , M. Grassi, M. Melchionna, A. V. Vargiu, S. Marchesan.
Chirality Effects on Peptide Self-Assembly Unraveled from Molecules to Materials
Chem **2018**, 4, 1862-1876
***Journal Cover Paper**

R. Farra, F. Musiani, F., Perrone, M., Čemažar, U., Kamenšek, F., Tonon, M., Abrami, A., Ručigaj,
M., Grassi, G., Pozzato, D., Bonazza, F., Zanconati, G., Forte, M., El Boustani, L., Scarabel, M.,
Garziera, C., Russo Spena, **L., De Stefano**, B., Salis, G., Toffoli, F., Rizzolio, G., Grassi*, B.,
Dapas.
Polymer-Mediated Delivery of siRNAs to Hepatocellular Carcinoma: Variables Affecting
Specificity and Effectiveness.
Molecules, **2018**, 23, 777.

D. Iglesias, M. Melle-Franco, M. Kurbasic, M. Melchionna, M. Abrami, M. Grassi, M. Prato, and S. Marchesan*, Oxidized Nanocarbons-Tripeptide Supramolecular Hydrogels: Shape Matters!, ACS Nano, **2018**, 12, 6, 5530-5538.

S. Redenti, I. Marcovich, T. De Vita, C. Pérez, R. De Zorzi, N. Demitri, D. I. Perez, G. Bottegoni, P. Bisignano, M. Bissaro, S. Moro, A. Martinez, P. Storici, G. Spalluto, A. Cavalli*, S. Federico* A Triazolotriazine-Based Dual GSK-3 β /CK-1 δ Ligand as a Potential Neuroprotective Agent Presenting Two Different Mechanisms of Enzymatic Inhibition ChemMedChem, 2019, 14, 310-314.

Scrivanti, A.; Bortoluzzi, M.; Morandini, A.; Dolmella, A.; Enrichi, F.; Mazzaro, R.; Vomiero, A. Luminescent europium(III) complexes containing an electron rich 1,2,3-triazolyl-pyridyl ligand New J. Chem. **vol. 42**, 11064-11072

Garcia, Ana M.; Iglesias Asperilla, Daniel; Parisi, Evelina; Styan, Katie E.; Waddington, Lynne J.; Deganutti, Caterina; DE ZORZI, Rita; Grassi, Mario; Melchionna, Michele; Vargiu, Attilio V.; Marchesan, Silvia.
Chirality Effects on Peptide Self-Assembly Unraveled from Molecules to Materials. CHEM **2018**, 1862-1876

Pavoni, Elena; Covelli, Stefano; Adami, Gianpiero; Baracchini, Elena; Cattelan, Roberto; Crosera, Matteo; Higuera, Pablo; Lenaz, Davide; Petranich, Elisa
Mobility and fate of Thallium and other potentially harmful elements in drainage waters from a decommissioned Zn-Pb mine (North-Eastern Italian Alps).
J. Geochem. Expl. **2018**, 188, 1-10

Pavoni, Elena; Petranich, Elisa; Crosera, Matteo; Klun, Katja; Faganeli, Jadran; Adami, Gianpiero; Covelli, Stefano
Potentially harmful elements (PHEs) distribution in the particulate, colloidal and dissolved fractions of estuarine waters (Gulf of Trieste, Northern Adriatic Sea).
Geophysical Research Abstracts **2018**, 20, 13958

Cerovac, Andrea; Covelli, Stefano; Emili, Andrea; Pavoni, Elena; Petranich, Elisa; Gregoric, Asta; Urbanc, Janko; Zavagno, Enrico; Zini, Luca:
Mercury in the unconfined aquifer of the Isonzo/Soca River alluvial plain downstream from the Idrija mining area
Chemosphere **2018**, 195, 749-761

Petranich, Elisa; Croce, Sara; Crosera, Matteo; Pavoni, Elena; Faganeli, Jadran; Adami, Gianpiero; Covelli, Stefano:
Mobility of metal(loid)s at the sediment-water interface in two tourist port areas of the Gulf of Trieste (northern Adriatic Sea)
Env. Sci. Poll. Res. Int. **2018**, 25, 26887-26902

C. Pizzolitto, F. Menegazzo, E. Ghedini, G. Innocenti, A. di Michele, G. Cruciani, F. Cavani, M. Signoretto* Increase of ceria redox ability by lanthanum addition on Ni based catalysts for hydrogen production
ACS Sust. Che. Eng. **2018**, 6, 13867-13876.

F. Menegazzo, **C. Pizzolitto**, E. Ghedini, A. Di Michele, G. Cruciani, M. Signoretto*
Development of La doped Ni/CeO₂ for CH₄/CO₂ reforming
J. carbon Res. **2018**, 4, 60.

R. Farra, F. Musiani, F., Perrone, M., Čemažar, U., Kamensšek, F., Tonon, M., Abrami, A., Ručigaj, M., Grassi, G., Pozzato, D., Bonazza, F., Zanconati, G., Forte, M., El Boustani, L., Scarabel, M., Garziera, **C., Russo Spena**, L., De Stefano, B., Salis, G., Toffoli, F., Rizzolio, G., Grassi*, B., Dapas.
Polymer-Mediated Delivery of siRNAs to Hepatocellular Carcinoma: Variables Affecting Specificity and Effectiveness.
Molecules, **2018**, 23, 777.

R. Farra, F. Musiani, F., Perrone, M., Čemažar, U., Kamensšek, F., Tonon, M., Abrami, A., Ručigaj, M., Grassi, G., Pozzato, D., Bonazza, F., Zanconati, G., Forte, M., El Boustani, **L., Scarabel**, **M., Garziera**, C., Russo Spena, L., De Stefano, B., Salis, G., Toffoli, F., Rizzolio, G., Grassi*, B., Dapas.
Polymer-Mediated Delivery of siRNAs to Hepatocellular Carcinoma: Variables Affecting Specificity and Effectiveness.
Molecules, **2018**, 23, 777.

E. Dreussi, F. Ecca, **L. Scarabel**, S. Gagno, G. Toffoli
Immunogenetics of prostate cancer: a still unexplored field of study.
Pharmacogenomics, **2018**, 19, 263–283.

L. Scarabel, G. Toffoli*
Does PD1/PDL1 immunotherapy require patient tumor subgroup pre-analysis in the era of precision medicine?
J Mol Clin Med., **2018**, 1, 63-67.

Scattolin, T.; Canovese, L.; Visentin, F.; Santo, C.; Demitri, N. Synthesis and characterization of novel olefin complexes of palladium(0) with chelating bis(N-heterocyclic carbenes) as spectator ligands in POLYHEDRON, **vol. 154**, pp. 382-389

Scattolin, Thomas; Canovese, Luciano; Demitri, Nicola; Gambari, Roberto; Lampronti, Ilaria; Santo, Claudio; Visentin, Fabiano; Rizzolio, Flavio; Caligiuri, Isabella Synthesis of new allyl palladium complexes bearing purine-based NHC ligands with antiproliferative and proapoptotic activity on human ovarian cancer cell lines
DALTON TRANSACTIONS, **vol. 47**, pp. 13616-13630

Scattolin, Thomas; Canovese, Luciano; Visentin, Fabiano; Paganelli, Stefano; Canton, Patrizia; Demitri, Nicola Synthesis of novel allyl palladium complexes bearing purine based NHC and a water soluble phosphine and their catalytic activity in the Suzuki-Miyaura coupling in water
App. Organom. Chem., **vol. 32**, pp. e4034

Canovese, L.; Visentin, F.; **Scattolin, T.;** Santo, C.; Bertolasi, V.
Synthesis of novel olefin complexes of palladium(0) bearing monodentate NHC, phosphine and isocyanide spectator ligands in
Polyhedron, **vol. 144**, pp. 131-143

Albertin, Gabriele; Antoniutti, Stefano; Castro, Jesús; Ganz, Verena; **Sibilla, Francesca**
Preparation and reactivity of half-sandwich organic azide complexes of osmium

Dalton Trans. **Vol 47**, 11658-11668

Scrivanti, Alberto; Bortoluzzi, Marco; **Sole, Roberto**; Beghetto, Valentina
Synthesis and characterization of yttrium, europium, terbium and dysprosium complexes containing a novel type of triazolyl–oxazoline ligand
Chem. Papers **vol. 72**, pp. 799-808

Schettini, R.; Costabile, C.; Della Sala, G.; Buirey, J.; **Tosolini, M.**; Tecilla, P.; Vaccaro, M. C.; Bruno, I.; De Riccardis, F.; Izzo, I.
Tuning the biomimetic performances of 4-hydroxyproline-containing cyclic peptoids
Org. Biomol. Chem. **2018**, 16, 36, 6708-6717

Tosolini, Massimo; Pengo, Paolo; Tecilla, Paolo
Biological Activity of Trans-Membrane Anion Carriers.
Curr. Med. Chem. **2018**, 25, 30, 3560-3576

Olivo, Alberto; **Zanardo, Danny**; Ghedini, Elena; Menegazzo, Federica; Signoretto, Michela
Solar Fuels by Heterogeneous Photocatalysis: From Understanding Chemical Bases to Process Development in
CHEMENGINEERING, **vol. 2**,42

D. Zanolla, *B. Perissutti*, N. Passerini, M.R. Chierotti, D. Hasa, D. Voinovich, L. Gigli, N. Demitri, S. Geremia, J. Keiser, P. Cerreia Vioglio, B. Albertini
A new soluble and bioactive polymorph of praziquantel
Eur. J. Pharm. Biopharm., **2018**, 127, 19-28.

D. Zanolla, *B. Perissutti*, N. Passerini, S. Invernizzi, D. Voinovich, S. Bertoni, C. Melegari, G. Millotti, B. Albertini
Milling and comilling Praziquantel at cryogenic and room temperatures: Assessment of the process-induced effects on drug properties
J. Pharm. Biomed. Anal., **2018**, 153, 82-89.

I. Šagud, **D. Zanolla**, B. Perissutti, N. Passerini, *I. Škorić*
Identification of degradation products of praziquantel during the mechanochemical activation
J. Pharm. Biomed. Anal., **2018**, 159, 291-295.