

## Papers 2015

- 1) "PEGylation of ORMOSIL nanoparticles differently modulates the in vitro toxicity toward human lung cells"; F. Moret; F. Selvestrel; E. Lubian; M. Mognato; L. Celotti; F. Mancin; E. Reddi; ARCHIVES OF TOXICOLOGY; 89; 607-620; 2015
- 2) "A General Technique to Investigate the Aggregation of Nanoparticles by Transmission Electron Microscopy"; V. Amendola; JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY; 15; 3545-3551; 2015
- 3) "Fe(III) and Mn(II) EPR quantitation in glass fragments from the palaeo-Christian mosaic of St. Prosdocimus (Padova, NE Italy): archaeometric and colour correlations"; Alfonso Zoleo; Marina Brustolon; Antonio Barbon; Alberta Silvestri; Gianmario Molin; Serena Tonietto; JOURNAL OF CULTURAL HERITAGE; 16; 322-328; 2015
- 4) "Summation through stochastic drawing of addends under steered morphing"; Mirco Zerbetto; Diego Frezzato; JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS; 278; 101-109; 2015
- 5) "The influence of used precursors on the properties of high-voltage cathode materials"; Kazda T.; Vondrák J.; Di Noto V.; Straková Fedorková A; Sedlaříková M; Čudek P.; Vyroubal P.; JOURNAL OF SOLID STATE ELECTROCHEMISTRY; 19; 647-653; 2015
- 6) "CCK8 peptide-labeled Pluronic® F127 micelles as a targeted vehicle of gold-based anticancer chemotherapeutics"; Chiara Nardon; Giulia Boscutti; Lisa Dalla Via; Paola Ringhieri; Vito Di Noto; Giancarlo Morelli; Antonella Accardo; Dolores Fregona; MEDCHEMCOMM; 6; 155-163; 2015
- 7) "Pyrolysis mechanism and Electrical Properties of 3D-Hybrid Organic-Inorganic Materials based on Zirconium Oxides-Hydroxides"; S. Lavina; R. Campostrini; F. Girardi; P. B. Aswath; V. Di Noto; R. Di Maggio; JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY; 119; 2305-2319; 2015
- 8) "On the trade-off between processability and opto-electronic properties of single wall carbon nanotube derivatives in thin film heterojunctions"; Patrizio Salice; Camillo Sartorio; Alessandro Burlini; Roberto Improta; Bruno Pignataro; Enzo Menna; JOURNAL OF MATERIALS CHEMISTRY. C; 3; 303-312; 2015
- 9) "Hydrolytic Stability and Hydrogen Peroxide Activation of Zirconium-Based Oxoclusters"; Francesco Faccioli, ; Matthias Bauer, ; Danilo Pedron, ; Antonio Sorarù, ; Mauro Carraro, ; Gross, Silvia; EUROPEAN JOURNAL OF INORGANIC CHEMISTRY; 2015; 210-225; 2015
- 10) "Radical scavenging and antimicrobial activities of Croton zehntneri, Pterodon emarginatus and Schinopsis brasiliensis essential oils and their major constituents: estragole, trans-anethole,  $\beta$ -caryophyllene and myrcene."; Donati, M; Mondin, A; Chen, Z; Miranda, Fm; do Nascimento, BB Jr; Schirato, G; Pastore, P; Frolidi, G; NATURAL PRODUCT RESEARCH; 29; 939-946; 2015
- 11) "A conformational study of the GTPase domain of [FeFe]-hydrogenase maturation protein HydF, by PELDOR spectroscopy."; Maso L; Galazzo L; Vallese F; Di Valentin M; Albertini M; De Rosa E; Giacometti GM; Costantini P; Carbonera D; APPLIED MAGNETIC RESONANCE; 46; 465-479; 2015
- 12) "Influence of Surface Structure on Single or Mixed Component Self-Assembled Monolayers via in Situ Spectroelectrochemical Fluorescence Imaging of the Complete Stereographic Triangle on a Single Crystal Au Bead Electrode"; Zhinan Landis Yu; Jannu Casanova-Moreno; Ivan Guryanov; Flavio Maran; Dan Bizzotto; JOURNAL OF THE AMERICAN CHEMICAL SOCIETY; 137; 276-288; 2015
- 13) "Polyvinyl alcohol electrospun nanofibers containing Ag nanoparticles used as sensors for the detection of biogenic amines"; Carla Marega; Jenny Maculan; Gian Andrea Rizzi; Roberta Saini; Emanuele Cavaliere; Luca Gavioli; Mattia Cattelan; Giuseppe Giallongo; Antonio Marigo; Gaetano Granozzi; NANOTECHNOLOGY; 26; 75501-75509; 2015
- 14) "Label-free fluorescence detection of kinase activity using a gold nanoparticle based indicator displacement assay"; C. Pezzato; D. Zaramella; M. Martinelli; G. Pieters; M. A. Pagano; L. J. Prins; ORGANIC & BIOMOLECULAR CHEMISTRY; 13; 1198-1203; 2015
- 15) "Direct detection of  $^{17}O$  in [Gd(DOTA)]- by NMR Spectroscopy"; L. Fusaro; G. Casella; A. Bagno; CHEMISTRY-A EUROPEAN JOURNAL; 21; 1955-1960; 2015
- 16) "Zero-Field Nuclear Magnetic Resonance Spectroscopy of Viscous Liquids"; Y. Shimizu; J. W. Blanchard; S. Pustelny; G. Saielli; A. Bagno; M. P. Ledbetter; D. Budker; A. Pines; JOURNAL OF MAGNETIC RESONANCE; 250; 1-6; 2015
- 17) "Evaluation of gold nanoparticles toxicity towards human endothelial cells under static and flow conditions"; Fede C; Fortunati I; Weber V; Rossetto N; Bertasi F; Petrelli L; Guidolin D; Signorini R; De Caro R; Albertin G; Ferrante C; MICROVASCULAR RESEARCH; 97; 147-155; 2015

- 18) "Determination of thermo-optical and transport parameters of  $\epsilon$  iron(III) oxide-based nanocomposites by beam deflection spectroscopy"; Dorota Korte; Giorgio Carraro; Chiara Maccato; Mladen Franko; OPTICAL MATERIALS; 42; 370-375; 2015
- 19) "Molecules–oligomers–nanowires–graphene nanoribbons: a bottom-up stepwise on-surface covalent synthesis preserving long-range order"; A. Basagni; F. Sedona; C. A. Pignedoli; M. Cattelan; L. Nicolas; M. Casarin; M. Sambì; JOURNAL OF THE AMERICAN CHEMICAL SOCIETY; 137; 1802-1808; 2015
- 20) "XAS of tetrakis(phenyl)- and tetrakis(pentafluorophenyl)-porphyrin: an experimental and theoretical study"; M. V. Nardi; R. Verucchi; L. Pasquali; A. Giglia; G. Fronzoni; M. Sambì; G. Mangione; M. Casarin; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 2001-2011; 2015
- 21) "An old workhorse for new applications: Fe(dpm)<sub>3</sub> as a precursor for low-temperature PECVD of iron(III) oxide"; Giorgio Carraro; Chiara Maccato; Alberto Gasparotto; Davide Barreca; Michael Walter; Leonard Mayrhofer; Michael Moseler; Alfonso Venzo; Roberta Seraglia; Carla Marega; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 11174-11181; 2015
- 22) "Vapor Phase Processing of  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Photoelectrodes for Water Splitting: An Insight into the Structure/Property Interplay"; Michael E. A. Warwick; Kimmo Kaunisto; Davide Barreca; Giorgio Carraro; Alberto Gasparotto; Chiara Maccato; Elza Bontempi; Cinzia Sada; Tero-Petri Ruoko; Stuart Turner; Gustaaf Van Tendeloo; ACS APPLIED MATERIALS & INTERFACES; 7; 8667-8676; 2015
- 23) "Analysis of Solder Joint Reliability of High Power LEDs by Transient Thermal Testing and Transient Finite Element Simulations"; G. Elger; S. V. Kandaswamy; E. Liu; A. Hanss; M. Schmidt; R. Derix; F. Conti; MICROELECTRONICS JOURNAL; 46; 1230-1238; 2015
- 24) "Uptake of Protic Electrolytes by Polybenzimidazole Type Polymers: Adsorption Isotherm and Electrolyte/Polymer Interactions"; C. Korte; F. Conti; J. Wackerl; P. Dams; A. Majerus; W. Lehnert; JOURNAL OF APPLIED ELECTROCHEMISTRY; 45; 857-871; 2015
- 25) "Pt-functionalized Fe<sub>2</sub>O<sub>3</sub> photoanodes for solar water splitting: the role of hematite nano-organization and the platinum redox state"; M. E. A. Warwick; D. Barreca; E. Bontempi; G. Carraro; A. Gasparotto; C. Maccato; K. Kaunisto; T.-P. Ruoko; H. Lemmetyinen; C. Sada; Y. Gönüllü; S. Mathur; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 12899-12907; 2015
- 26) "Hot-wire vapor deposition of amorphous MoS<sub>2</sub> thin films"; Georgios Papadimitropoulos; Nikolaos Vourdas; Maria Vasilopoulou; Dimitrios N. Kouvatsos; Nicolas Boukos; Alberto Gasparotto; Davide Barreca; Dimitrios Davazoglou; PHYSICA STATUS SOLIDI. C, CURRENT TOPICS IN SOLID STATE PHYSICS; 12; 969-974; 2015
- 27) "Electrical characteristics of vapor deposited amorphous MoS<sub>2</sub> two-terminal structures and back gate thin film transistors with Al, Au, Cu and Ni-Au contacts"; Dimitrios N. Kouvatsos; George Papadimitropoulos; Thanassis Spiliotis; Maria Vasilopoulou; Davide Barreca; Alberto Gasparotto; Dimitris Davazoglou; PHYSICA STATUS SOLIDI. C, CURRENT TOPICS IN SOLID STATE PHYSICS; 12; 975-979; 2015
- 28) "MODELING THE FIRST ACTIVATION STAGES OF THE Fe(hfa)<sub>2</sub>TMEDA CVD PRECURSOR ON A HEATED GROWTH SURFACE"; Gloria Tabacchi; Ettore Fois; Davide Barreca; Giorgio Carraro; Alberto Gasparotto; Chiara Maccato; Advanced Processing and Manufacturing Technologies for Nanostructured and Multifunctional Materials II: Ceramic Engineering and Science Proceedings; 36; 83-90; 2015
- 29) "A study of Pt-/ $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> nanocomposites by XPS"; Michael E. A. Warwick; Kimmo Kaunisto; Giorgio Carraro; Alberto Gasparotto; Chiara Maccato; Davide Barreca; SURFACE SCIENCE SPECTRA; in press; n/a-n/a; 2015
- 30) "Characterization of the [FeFe]-hydrogenase maturation protein HydF by EPR techniques: insights into the catalytic mechanism."; Albertini M; Galazzo L; Maso L; Vallese F; Berto P; De Rosa E; Di Valentin M; Costantini P; Carbonera D; TOPICS IN CATALYSIS; 58; 708-718; 2015
- 31) "MOCVD of TiO<sub>2</sub> thin films from a modified titanium alkoxide precursor"; Sun Ja Kim; Van-Son Dang; Ke Xu; Davide Barreca; Chiara Maccato; Giorgio Carraro; Raghunandan K. Bhakta; Manuela Winter; Hans-Werner Becker; Detlef Rogalla; Cinzia Sada; Roland A. Fischer; Anjana Devi; PHYSICA STATUS SOLIDI. A, APPLICATIONS AND MATERIALS SCIENCE; 2015
- 32) "Iron speciation in soda-lime-silica glass: a comparison of XANES and UV-vis-NIR spectroscopy"; Andrea Ceglia; Gert Nuyts; Wendy Meulebroeck; Simone Cagno; Alberta Silvestri; Alfonso Zoleo; Karin Nys; Koen Janssens; Hugo Thienpont; Herman Terryn; JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY; 30; 1552-1561; 2015

- 33) "Conjugation of photosensitisers to antimicrobial peptides increases the efficiency of photodynamic therapy in cancer cells"; Moret, F; Gobbo, M; Reddi, E; PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES; ; -; 2015
- 34) "Enhanced neuronal cell differentiation combining biomimetic peptides and a carbon nanotube-polymer scaffold"; Giorgia Scapin; Patrizio Salice; Simone Tescari; Enzo Menna; Vincenzo De Filippis; Francesco Filippini; NANOMEDICINE; 11; 621-632; 2015
- 35) "Superior plasmon absorption in iron-doped gold nanoparticles"; Vincenzo Amendola; Rosalba Saija; Onofrio M. Maragò; Maria Antonia Iati; NANOSCALE; 7; 8782-8792; 2015
- 36) "Metastable alloy nanoparticles, metal-oxide nanocrescents and nanoshells generated by laser ablation in liquid solution: influence of the chemical environment on structure and composition"; Stefano Scaramuzza; Stefano Agnoli; Vincenzo Amendola; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 28076-28087; 2015
- 37) "Determination of New Radical Species in Ammonium Tartrate Dosimeters by CW- and Pulsed-EPR Techniques"; M. Brustolon; F. Tampieri; M. Marrale; A. Barbon; APPLIED MAGNETIC RESONANCE; 46; 481-488; 2015
- 38) "Vapochromic properties versus metal ion coordination of  $\beta$ -bispyrazolato-copper(ii) coordination polymers: a first-principles investigation"; Maurizio Casarin; Daniel Forrer; Luciano Pandolfo; Claudio Pettinari; Andrea Vittadini; CRYSTENGCOMM; 17; 407-411; 2015
- 39) "An Effective Two-Emulsion Approach to the Synthesis of Doped ZnS Crystalline Nanostructures"; Paolo Dolcet; Chiara Maurizio; Maurizio Casarin; Luciano Pandolfo; Stefano Gialanella; Denis Badocco; Paolo Pastore; Adolfo Speghini; Silvia Gross; EUROPEAN JOURNAL OF INORGANIC CHEMISTRY; 2015; 706-714; 2015
- 40) "Control of the Intermolecular Coupling of Dibromotetracene on Cu(110) by the Sequential Activation of C-Br and C-H Bonds"; Lara Ferrighi; Igor Piš; Thanh Hai Nguyen; Mattia Cattelan; Silvia Nappini; Andrea Basagni; Matteo Parravicini; Antonio Papagni; Francesco Sedona; Elena Magnano; Federica Bondino; Cristiana Di Valentin; Stefano Agnoli; CHEMISTRY-A EUROPEAN JOURNAL; 21; 5826-5835; 2015
- 41) "Single and Multiple Doping in Graphene Quantum Dots: Unraveling the Origin of Selectivity in the Oxygen Reduction Reaction"; Marco Favaro; Lara Ferrighi; Gianluca Fazio; Luciano Colazzo; Cristiana Di Valentin; Christian Durante; Francesco Sedona; Armando Gennaro; Stefano Agnoli; Gaetano Granozzi; ACS CATALYSIS; 5; 129-144; 2015
- 42) "The nature of the Fe-graphene interface at the nanometer level"; M. Cattelan; G. W. Peng; E. Cavaliere; L. Artiglia; A. Barinov; L. T. Røling; M. Favaro; I. Piš; S. Nappini; E. Magnano; F. Bondino; L. Gavioli; S. Agnoli; M. Mavrikakis; G. Granozzi; NANOSCALE; 7; 2450-2460; 2015
- 43) "The dynamics of Fe intercalation on pure and nitrogen doped graphene grown on Pt(111) probed by CO adsorption"; M. Cattelan; E. Cavaliere; L. Artiglia; L. Gavioli; S. Agnoli; G. Granozzi; SURFACE SCIENCE; 634; 49-56; 2015
- 44) "Viral Nanotemplates Armed with Oxygenic Polyoxometalates for Hydrogen Peroxide Detoxification"; Debora Vilona; Antonio Sorarù; Chiara Maccato; Rossella Bortolaso; Livio Trainotti; Federica Valentini; Aldrei Boaretto; Cinzia Cepek; Marcella Bonchio; Mauro Carraro; EUROPEAN JOURNAL OF INORGANIC CHEMISTRY; 2015; n/a-n/a; 2015
- 45) "Dynamic Antifouling of Catalytic Pores Armed with Oxygenic Polyoxometalates"; Andrea Squarcina; Ilaria Fortunati; Omar Saoncella; Francesco Galiano; Camilla Ferrante; Alberto Figoli; Mauro Carraro; Marcella Bonchio; ADVANCED MATERIALS INTERFACES; 2; n/a-n/a; 2015
- 46) "Synthesis and Photochemical Applications of Processable Polymers Enclosing Photoluminescent Carbon Quantum Dots"; Dario Mosconi; Daniela Mazzier; Simone Silvestrini; Alberto Privitera; Carla Marega; Lorenzo Franco; Alessandro Moretto; ACS NANO; 9; 4156-4164; 2015
- 47) "Fenton-like catalytic activity of wet-spun chitosan hollow fibers loaded with Fe<sub>3</sub>O<sub>4</sub> nanoparticles: Batch and continuous flow investigations"; M.S. Seyed Dorraji; A. Mirmohseni; M. Carraro; S. Gross; S. Simone; F. Tasselli; A. Figoli; JOURNAL OF MOLECULAR CATALYSIS. A: CHEMICAL; 398; 353-357; 2015
- 48) "Synergistic effect of dipentaerythritol and montmorillonite in EVOH-based nanocomposites"; Micaela Vannini; Paola Marchese; Annamaria Celli; Carla Marega; Antonio Marigo; Cesare Lorenzetti; JOURNAL OF APPLIED POLYMER SCIENCE; 132; n/a-n/a; 2015
- 49) "Effect of electrospun fibers of polyhydroxybutyrate filled with different organoclays on morphology, biodegradation, and thermal stability of poly( $\epsilon$ -caprolactone)"; Carla Marega; Antonio Marigo; JOURNAL OF APPLIED POLYMER SCIENCE; ; n/a-n/a; 2015

- 50) "EXAFS in situ: The effect of bromide on Pd during the catalytic direct synthesis of hydrogen peroxide"; P. Centomo; C. Meneghini; S. Sterchele; A. Trapananti; G. Aquilanti; M. Zecca; CATALYSIS TODAY; 248; 138-141; 2015
- 51) "Mild fabrication of silica-silver nanocomposites as active platforms for environmental remediation"; A. Mignani; S. Fazzini; B. Ballarin; E. Boanini; M.C. Cassani; C. Maccato; D. Barreca; D. Nanni; RSC ADVANCES; 5; 9600-9606; 2015
- 52) "Enhancement of Nitrite and Nitrate Electrocatalytic Reduction through the Employment of Self-Assembled Layers of Nickel- and Copper-Substituted Crown-Type Heteropolyanions"; S. Imar; C. Maccato; C. Dickinson; F. Laffir; M. Vagin; T. McCormac; LANGMUIR; 31; 2584-2592; 2015
- 53) "In Vitro Production of Fumonisin by *Fusarium verticillioides* under Oxidative Stress Induced by H<sub>2</sub>O<sub>2</sub>"; D. Ferrigo; A. Raiola; S. Bogialli; C. Bortolini; A. Tapparo; R. Causin; JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY; 63; 4879-4885; 2015
- 54) "Au(III)-pyrrolidinedithiocarbamate derivatives as antineoplastic agents."; Nardon C; Chiara F; Brustolin L; Gambalunga A; Ciscato F; Rasola A; Trevisan A; Fregona D; CHEMISTRYOPEN; 4; 183-191; 2015
- 55) "Electrochemical Approach to Copper-Catalyzed Reversed Atom Transfer Radical Cyclization"; Abdirisak A. Isse; Giulia Visonà; Franco Ghelfi; Fabrizio Roncaglia; Armando Gennaro; ADVANCED SYNTHESIS & CATALYSIS; 357; 782-792; 2015
- 56) "Simplified Electrochemically Mediated Atom Transfer Radical Polymerization using a Sacrificial Anode"; Sangwoo Park; Paweł Chmielarz; Armando Gennaro; Krzysztof Matyjaszewski; ANGEWANDTE CHEMIE. INTERNATIONAL EDITION; 54; 2388-2392; 2015
- 57) "RDRP in the presence of Cu(0): The fate of Cu(I) proves the inconsistency of SET-LRP mechanism"; Francesca, Lorandi; Marco, Fantin; Abdirisak, Ahmed Isse; Armando, Gennaro; POLYMER; 72; 238-245; 2015
- 58) "Parallel and Multivalued Logic by the Two-Dimensional Photon-Echo Response of a Rhodamine–DNA Complex"; Barbara Fresch; Marco Cipolloni; Tian-Min Yan; Elisabetta Collini; R. D. Levine; F. Remacle; THE JOURNAL OF PHYSICAL CHEMISTRY LETTERS; 6; 1714-1718; 2015
- 59) "Probing the solvent accessibility of the [4Fe-4S] cluster of the hydrogenase maturation protein HydF from *Thermotoga neapolitana* by HYSCORE and 3p-ESEEM."; Albertini M; Berto P; Vallese F; Di Valentin M; Costantini P; Carbonera D; JOURNAL OF PHYSICAL CHEMISTRY. B, CONDENSED MATTER, MATERIALS, SURFACES, INTERFACES & BIOPHYSICAL; 119; 13680-13689; 2015
- 60) "Towards bulk thermodynamics via non-equilibrium methods: gaseous methane as a case study"; Mirco Zerbetto; Diego Frezzato; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 1966-1979; 2015
- 61) "Probing the conformational energetics of alkyl thiols on gold surfaces by means of a morphing/steering non-equilibrium tool"; Andrea Piserchia; Mirco Zerbetto; Diego Frezzato; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 8038-8052; 2015
- 62) "The peculiar N- and C-termini of trichogin GA IV are needed for membrane interaction and human cell death induction at doses lacking antibiotic activity"; R. Tavano; G. Malachin; M. De Zotti; C. Peggion; B. Biondi; F. Formaggio; E. Papini; BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES; 1848; 134-144; 2015
- 63) "New naphthoquinone derivatives against glioma cells"; Marco Redaelli; Carla Mucignat-Caretta; Abdirisak Ahmed Isse; Armando Gennaro; Raffaele Pezzani; Riccardo Pasquale; Valeria Pavan; Marco Crisma; Giovanni Ribaud; Giuseppe Zagotto; EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY; 96; 458-466; 2015
- 64) "A hybrid polyketone–SiO<sub>2</sub> support for palladium catalysts and their applications in cinnamaldehyde hydrogenation and in 1-phenylethanol oxidation"; Claudia Antonetti; Luigi Toniolo; Gianni Cavinato; Claudia Forte; Chiara Ghignoli; Randa Ishak; Fabrizio Cavani; Anna Maria Raspolli Galletti; APPLIED CATALYSIS A: GENERAL; 496; 40-50; 2015
- 65) "Preliminary Characterization of Monofloral Coffeaspp. Honey: Correlation between Potential Biomarkers and Pollen Content"; Elisabetta Schievano; Claudia Finotello; Stefano Mammì; Anna Illy Belci; Silvia Colomban; Luciano Navarini; JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY; 63; 5858-5863; 2015
- 66) "Nanoparticle-Assisted NMR Detection of Organic Anions: From Chemosensing to Chromatography"; Marie-Virginie Salvia; Federico Ramadori; Sara Springhetti; Marta Diez-Castellnou; Barbara Perrone; Federico Rastrelli; Fabrizio Mancin; JOURNAL OF THE AMERICAN CHEMICAL SOCIETY; 137; 886-892; 2015

- 67) "Mononuclear Iron(III) Complexes as Functional Models of Catechol Oxidases and Catalases"; Badetti, Elena; Gjoka, Blerina; Nagy, Eszter Márta; Bernardinelli, Gérald; Kündig, Peter E.; Zonta, Cristiano; Licini, Giulia; EUROPEAN JOURNAL OF INORGANIC CHEMISTRY; 2015; 3478-3484; 2015
- 68) "Synthesis of resveratrol sulfates: turning a nightmare into a dream"; A. Mattarei; L. Biasutto; M. Romio; M. Zoratti; C. Paradisi; TETRAHEDRON; 71; 3100-3106; 2015
- 69) "Nanocomposite Membranes based on Polybenzimidazole and ZrO<sub>2</sub> for High-Temperature Proton Exchange Membrane Fuel Cells"; G. Nawn; G. Pace; S. Lavina; K. Vezzù; E. Negro; F. Bertasi; S. Polizzi; VITO DI NOTO; CHEMSUSCHEM; 8; 1381-1393; 2015
- 70) "Structural features, properties, and relaxations of PMMA-ZnO nanocomposite"; Marta Dai Prè; Alessandro Martucci; Darren J. Martin; Sandra Lavina; Vito Di Noto; JOURNAL OF MATERIALS SCIENCE; 50; 2218-2228; 2015
- 71) "Interplay between Composition, Structure, and Properties of New H<sub>3</sub>PO<sub>4</sub>-Doped PBI<sub>4</sub>N-HfO<sub>2</sub> Nanocomposite Membranes for High-Temperature Proton Exchange Membrane Fuel Cells"; Graeme Nawn; Giuseppe Pace; Sandra Lavina; Keti Vezzù; Enrico Negro; Federico Bertasi; Stefano Polizzi; Vito Di Noto; MACROMOLECULES; 48; 15-27; 2015
- 72) "Interaction of iron with a wagon wheel-like ultrathin TiO<sub>x</sub> film grown on Pt(111)"; Artiglia, Luca; Cavaliere, Emanuele; Gavioli, Luca; Rizzi, Gian Andrea; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 18055-18062; 2015
- 73) "Vanadium catalyzed aerobic carbon-carbon cleavage"; Amadio, Emanuele; Di Lorenzo, Rosalia; Zonta, Cristiano; Licini, Giulia; COORDINATION CHEMISTRY REVIEWS; 301-302; 147-162; 2015
- 74) "Iridium-mediated Bond Activation and Water Oxidation as an Exemplary Case of CARISMA, A European Network for the Development of Catalytic Routines for Small Molecule Activation"; Licini, Giulia; Albrecht Martin; CHIMIA; 69; 316-320; 2015
- 75) "Viral nano-hybrids for innovative energy conversion and storage schemes"; Vilona, Debora; Di Lorenzo, Rosalia; Carraro, Mauro; Licini, Giulia; Trainotti, Livio; Bonchio, Marcella; JOURNAL OF MATERIALS CHEMISTRY. B; 3; 6718-6730; 2015
- 76) "The distinct role of the flexible polymer matrix in catalytic conversions over immobilised nanoparticles"; Martinuzzi, Stefano; Cozzula, Daniela; Centomo, Paolo; Zecca, Marco; Müller, Thomas E.; RSC ADVANCES; 5; 56181-56188; 2015
- 77) "The influence of catalyst amount and Pd loading on the H<sub>2</sub>O<sub>2</sub> synthesis from hydrogen and oxygen"; Gemo, Nicola; Sterchele, Stefano; Biasi, Pierdomenico; Centomo, Paolo; Canu, Paolo; Zecca, Marco; Shchukarev, Andrey; Kordás, Krisztián; Salmi, Tapio Olavi; Mikkola, Jyri-Pekka; CATALYSIS SCIENCE & TECHNOLOGY; 5; 3545-3555; 2015
- 78) "A comparison between the oxygen reduction reaction activity of Pd<sub>5</sub>Ce and Pt<sub>5</sub>Ce: the importance of crystal structure"; Tripkovic, Vladimir; Zheng, Jian; Rizzi, Gian Andrea; Marega, Carla; Durante, Christian; Rossmeisl, Jan; Granozzi, Gaetano; ACS CATALYSIS; 5; 6032-6040; 2015
- 79) "Nitrogen and Sulfur Doped Mesoporous Carbon as Metal-Free Electrocatalysts for the in Situ Production of Hydrogen Peroxide"; Perazzolo, Valentina; Durante, Christian; Pilot, Roberto; Paduano, Andrea; Zheng, Jian; Rizzi, Gian Andrea; Martucci, Alessandro; Granozzi, Gaetano; Gennaro, Armando; CARBON; 45; 949-963; 2015
- 80) "A synchrotron-based spectroscopic study of the electronic structure of N-doped HOPG and PdY/N-doped HOPG"; Favaro, M.; Rizzi, G.A.; Nappini, S.; Magnano, E.; Bondino, F.; Agnoli, S.; Granozzi, G.; SURFACE SCIENCE; ; 1-2; 2015
- 81) "Cutting-Edge Nanosystems for Biomedical Applications"; Nardon, Chiara; Fregona, Dolores; JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY; 15; 1-3; 2015
- 82) "Relating hygroscopicity and optical properties to chemical composition and structure of secondary organic aerosol particles generated from the ozonolysis of  $\alpha$ -pinene"; Denjean, C.; Formenti, P.; Picquet-Varrault, B.; Pangui, E.; Zapf, P.; Katrib, Y.; Giorio, C.; Tapparo, A.; Monod, A.; Temime-Roussel, B.; Decorse, P.; Mangeney, C.; Doussin, J.F.; ATMOSPHERIC CHEMISTRY AND PHYSICS; 15; 3339-3358; 2015
- 83) "Multiple doping of graphene oxide foams and quantum dots: New switchable systems for oxygen reduction and water remediation"; Favaro, M.; Carraro, F.; Cattelan, M.; Colazzo, L.; Durante, C.; Sambì, M.; Gennaro, A.; Agnoli, S.; Granozzi, G.; JOURNAL OF MATERIALS CHEMISTRY. A; 3; 14334-14347; 2015
- 84) "New Strategy for the Growth of Complex Heterostructures Based on Different 2D Materials"; Cattelan, Mattia; Markman, Brian; Lucchini, Giacomo; Das, Pranab Kumar; Vobornik, Ivana; Robinson, Joshua Alexander; Agnoli, Stefano; Granozzi, Gaetano; CHEMISTRY OF MATERIALS;

- 85) "In-Situ Carbon Doping of TiO<sub>2</sub> Nanotubes Via Anodization in Graphene Oxide Quantum Dot Containing Electrolyte and Carburization to TiO<sub>x</sub>C<sub>y</sub> Nanotubes"; Favaro, Marco; Leonardi, Silvia; Valero-Vidal, Carlos; Nappini, Silvia; Hanzlik, Marianne; Agnoli, Stefano; Kunze-Liebhäuser, Julia; Granozzi, Gaetano; ADVANCED MATERIALS INTERFACES; 2; n/a-n/a; 2015
- 86) "Intermediates Arising from the Water–Gas Shift Reaction over Cu Surfaces: From UHV to Near Atmospheric Pressures"; Mudiyansele, K.; Senanayake, S. D.; Ramirez, P. J.; Kundu, S.; Baber, A.; Yang, F.; Agnoli, S.; Axnanda, S.; Liu, Z.; Hrbek, J.; Evans, J.; Rodriguez, J. A.; Stacchiola, D.; TOPICS IN CATALYSIS; 58; 271-280; 2015
- 87) "Interplay between water uptake, ion interactions, and conductivity in an e-beam grafted poly(ethylene-co-tetrafluoroethylene) anion exchange membrane"; Pandey, Tara P; Maes, Ashley M; Sarode, Himanshu N; Peters, Bethanne D; Lavina, Sandra; Vezzù, Ketì; Yang, Yuan; Poynton, Simon D; Varcoe, John R; Seifert, Soenke; Liberatore, Matthew W; Di Noto, Vito; Herring, Andrew M; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 4367-4378; 2015
- 88) "Pyrolysis mechanism and electrical properties of 3D-hybrid organic-inorganic materials based on zirconium oxides-hydroxides, 3-butenates and vinyltrimethoxysilane"; Lavina, S; Campostrini, R.; Girardi, F.; Aswath, P.B.; Di Noto, V.; Di Maggio, R.; JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY; 119; 2305-2319; 2015
- 89) "Polymers: Opening doors to future batteries"; Muldoon, John; Bucur, Claudiu B.; Boaretto, Nicola; Gregory, Thomas; Di Noto, Vito; POLYMER REVIEWS; 55; 208-246; 2015
- 90) "Study of electrochemical properties and thermal stability of the high-voltage spinel cathode material for lithium-ion accumulators"; Kazda, T; Vondrák, J.; Di Noto, V.; Sedlářková, M.; Čudek, P.; Omelka, L.; Šafaříková, L.; Kašpárek, V.; JOURNAL OF SOLID STATE ELECTROCHEMISTRY; 19; 1579-1590; 2015
- 91) "High-Performance Olivine for Lithium Batteries: Effects of Ni/Co Doping on the Properties of LiFe<sub>0.9</sub>Ni<sub>0.1</sub>Co<sub>y</sub>PO<sub>4</sub> Cathodes"; Pagot, Gioele; Bertasi, Federico; Nawn, Graeme; Negro, Enrico; Carraro, Giorgio; Barreca, Davide; Maccato, Chiara; Polizzi, Stefano; Di Noto, Vito; ADVANCED FUNCTIONAL MATERIALS; 25; 4032-4037; 2015
- 92) "The structure of water-methanol mixtures under an electric field: Ab initio molecular dynamics simulations"; He, Jun; Di Noto, Vito; Paddison, Stephen J.; CHEMICAL PHYSICS LETTERS; 635; 99-106; 2015
- 93) "Single-Ion-Conducting Nanocomposite Polymer Electrolytes for Lithium Batteries Based on Lithiated-Fluorinated-Iron Oxide and Poly(ethylene glycol) 400"; Bertasi, Federico; Negro, Enrico; Vezzù, Ketì; Nawn, Graeme; Pagot, Gioele; Di Noto, Vito; ELECTROCHIMICA ACTA; 175; 113-123; 2015
- 94) "A Key concept in Magnesium Secondary Battery Electrolytes"; Bertasi, Federico; Hettige, Chaminda; Seppehr, Fatemeh; Bogle, Xavier; Pagot, Gioele; Vezzù, Ketì; Negro, Enrico; Paddison, Stephen J.; Greenbaum, Steve G.; Vittadello, Michele; Di Noto, Vito; CHEMSUSCHEM; 8; 3069-3076; 2015
- 95) "Inside Back Cover: A Key concept in Magnesium Secondary Battery Electrolytes (ChemSusChem 18/2015)"; Bertasi, Federico; Hettige, Chaminda; Seppehr, Fatemeh; Bogle, Xavier; Pagot, Gioele; Vezzù, Ketì; Negro, Enrico; Paddison, Stephen J.; Greenbaum, Steve G.; Vittadello, Michele; Di noto, Vito; CHEMSUSCHEM; 8; 3176-3176; 2015
- 96) "A Key concept in Magnesium Secondary Battery Electrolytes"; Bertasi, Federico; Hettige, Chaminda; Seppehr, Fatemeh; Bogle, Xavier; Pagot, Gioele; Vezzù, Ketì; Negro, Enrico; Paddison, Stephen J.; Greenbaum, Steve G.; Vittadello, Michele; Di Noto, Vito; CHEMSUSCHEM; 8; 3069-3076; 2015
- 97) "Graphene-based technologies for energy applications, challenges and perspectives"; Quesnel, Etienne; Roux, Frédéric; Emieux, Fabrice; Faucherand, Pascal; Kymakis, Emmanuel; Volonakis, George; Giustino, Feliciano; Martín-García, Beatriz; Moreels, Iwan; Gürsel, Selmiye Alkan; Yurtcan, Ayşe Bayrakçeken; Di Noto, Vito; Talyzin, Alexandr; Baburin, Igor; Tranca, Diana; Seifert, Gotthard; Crema, Luigi; Speranza, Giorgio; Tozzini, Valentina; Bondavalli, Paolo; Pognon, Grégory; Botas, Cristina; Carriazo, Daniel; Singh, Gurpreet; Rojo, Teófilo; Kim, Gunwoo; Yu, Wanjing; Grey, Clare P; Pellegrini, Vittorio; 2D MATERIALS; 2; -; 2015

- 98) "Interplay between solid state transitions, conductivity mechanism, and electrical relaxations in a [PVBTMA] [Br] -b-PMB diblock copolymer membrane for electrochemical applications"; Di Noto, Vito; Giffin, Guinevere A; Vezzù, Ketì; Nawn, Graeme; Bertasi, Federico; Tsai, Tsung-han; Maes, Ashley; Seifert, Sönke; Coughlin, Bryan; Herring, Andrew; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 31125-31139; 2015
- 99) "Peptide  $\delta$ -Turn: Literature Survey and Recent Progress"; Toniolo, Claudio; Crisma, Marco; Moretto, Alessandro; Peggion, Cristina; Formaggio, Fernando; Alemán, Carlos; Cativiela, Carlos; Ramakrishnan, C.; Balaram, Padbramian; CHEMISTRY-A EUROPEAN JOURNAL; 21; 13866-13877; 2015
- 100) "Handedness preference and switching of peptide helices. Part II: Helices based on noncoded  $\alpha$ -amino acids"; Crisma, M; De Zotti, M; Formaggio, F; Peggion, C; Moretto, A; Toniolo, C; JOURNAL OF PEPTIDE SCIENCE; 21; 148-177; 2015
- 101) "Single and multiple peptide  $\gamma$ -turns: literature survey and recent progress"; Crisma, Marco; Marta De Zotti, ; Moretto, Alessandro; Peggion, Cristina; Drouillat, Bruno; Wright, Karen; Couty, François; Toniolo, Claudio; Formaggio, Fernando; NEW JOURNAL OF CHEMISTRY; 39; 3208-3216; 2015
- 102) "Peptide flatlandia: A new-concept peptide for positioning of electroactive probes in proximity to a metal surface"; Longo, E.; Wright, K.; Caruso, M.; Gatto, E.; Palleschi, A.; Scarselli, M.; De Crescenzi, M.; Crisma, M.; Formaggio, F.; Toniolo, C.; Venanzi, M.; NANOSCALE; 7; 15495-15506; 2015
- 103) "Synthesis, Characterization, and Biological Evaluation of a Dual-Action Ligand Targeting  $\alpha\beta 3$  Integrin and VEGF Receptors"; Zanella, S.; Mingozi, M.; DalCorso, A.; Fanelli, R.; Arosio, D.; Cosentino, M.; Schembri, L.; Marino, F.; De Zotti, M.; Formaggio, F.; Pignataro, L.; Belvisi, L.; Piarulli, U.; Gennari, C.; CHEMISTRYOPEN; 4; 633-641; 2015
- 104) "4-Cyano- $\alpha$ -methyl- L- phenylalanine as a spectroscopic marker for the investigation of peptaibiotic-membrane interactions"; De Zotti, M.; Bobone, S.; Bortolotti, A.; Longo, E.; Biondi, B.; Peggion, C.; Formaggio, F.; Toniolo, C.; Dalla Bona, A.; Kaptein, B.; Stella, L.; CHEMISTRY & BIODIVERSITY; 12; 513-527; 2015
- 105) "Correction: Fluctuations and the rate-limiting step in peptide-induced membrane leakage (Biophysical Journal (2010) 99 (1791-1800))"; Mazzuca, C. and Orioni; Coletta, B. and; Formaggio, M. and; Toniolo, F. and; Maulucci, C. and; Spirito, G. and De; Pispisa, M. and; Venanzi, B. and; Stella, M. and; BIOPHYSICAL JOURNAL; 109; -; 2015
- 106) "The fluorescence and infrared absorption probe para-cyanophenylalanine: Effect of labeling on the behavior of different membrane-interacting peptides"; Bobone, Sara; De Zotti, Marta; Bortolotti, Annalisa; Biondi, Barbara; Ballano, Gema; Palleschi, Antonio; Toniolo, Claudio; Formaggio, Fernando; Stella, Lorenzo; BIOPOLYMERS; 104; 521-532; 2015
- 107) "Time-frequency methods for coherent spectroscopy"; Volpato, Andrea; Collini, Elisabetta; OPTICS EXPRESS; 23; 20040-20050; 2015
- 108) "Palladium Nanoparticles Supported on Highly Oriented Pyrolytic Graphite: Preparation, Reactivity and Stability"; Ju, Wenbo; Brülle, Tine; Favaro, Marco; Perini, Lorenzo; Durante, Christian; Schneider, Oliver; Stimming, Ulrich; CHEMELECTROCHEM; 2; 547-558; 2015
- 109) "Electrochemical deposition of silica sol-gel films on stainless steel: preliminary analysis of key variables"; Giordano, Gianmarco; Durante, Christian; Gennaro, Armando; Guglielmi, Massimo; JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY; 76; 233-240; 2015
- 110) "Interplay of thickness and photoelectrochemical properties in nanostructured  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> thin films"; Warwick, Michael E. A; Carraro, Giorgio; Gasparotto, Alberto; Maccato, Chiara; Barreca, Davide; Sada, Cinzia; Bontempi, Elza; Gönüllü, Yakup; Mathur, Sanjay; PHYSICA STATUS SOLIDI. A, APPLICATIONS AND MATERIALS SCIENCE; 212; 1501-1507; 2015
- 111) "Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties"; Barreca, Davide; Carraro, Giorgio; Warwick, Michael E. A.; Kaunisto, Kimmo; Gasparotto, Alberto; Gombac, Valentina; Sada, Cinzia; Turner, Stuart; Van Tendeloo, Gustaaf; Maccato, Chiara; Fornasiero, Paolo; CRYSTENGCOMM; 17; 6219-6226; 2015
- 112) "Metal-support interaction in platinum and palladium nanoparticles loaded on nitrogen-doped mesoporous carbon for oxygen reduction reaction"; Perini, Lorenzo; Durante, Christian; Favaro, Marco; Perazzolo, Valentina; Agnoli, Stefano; Schneider, Oliver; Granozzi, Gaetano; Gennaro, Armando; ACS APPLIED MATERIALS & INTERFACES; 7; 1170-1179; 2015

- 113) "Reductive cleavage of carbon-chlorine bonds at catalytic and non-catalytic electrodes in 1-butyl-3-methylimidazolium tetrafluoroborate"; Ahmed Isse, Abdirisak; Scarpa, Ludovico; Durante, Christian; Gennaro, Armando; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 31228-31236; 2015
- 114) "'egg of Columbus': Single-step complete removal of chloride impurities from ionic liquids by AgCl deposition on silver electrode"; Arnaboldi, Serena; Magni, Mirco; Mussini, Patrizia R.; Gennaro, Armando; Ahmed Isse, Abdirisak; ELECTROCHEMISTRY COMMUNICATIONS; 51; 46-49; 2015
- 115) "The solvent effect on the electrocatalytic cleavage of carbon-halogen bonds on Ag and Au"; Arnaboldi, Serena; Gennaro, Armando; Ahmed Isse, Abdirisak; Mussini, Patrizia Romana; ELECTROCHIMICA ACTA; 158; 427-436; 2015
- 116) "Electrochemistry and Chirality in Bibenzimidazole Systems"; Arnaboldi, Serena; Cirilli, Roberto; Forni, Alessandra; Gennaro, Armando; Ahmed Isse, Abdirisak; Mihali, Voichita; Mussini, Patrizia R.; Pierini, Marco; Rizzo, Simona; Sannicolò, Francesco; ELECTROCHIMICA ACTA; 179; 250-262; 2015
- 117) "Understanding the Fundamentals of Aqueous ATRP and Defining Conditions for Better Control"; Fantin, Marco; Ahmed Isse, Abdirisak; Gennaro, Armando; Matyjaszewski, Krzysztof; MACROMOLECULES; 48; 6862-6875; 2015
- 118) "Structural and Antimicrobial Features of Peptides Related to Myticin C, a Special Defense Molecule from the Mediterranean Mussel *Mytilus galloprovincialis*"; Domeneghetti, Stefania; Franzoi, Marco; Damiano, Nunzio; Norante, Rosa; Nancy, M. El Halfawy; Mammi, Stefano; Marin, Oriano; Bellanda, Massimo; Venier, Paola; JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY; 63; 9251-9259; 2015
- 119) "A Bioinspired System for Light-Driven Water Oxidation with a Porphyrin Sensitizer and a Tetrametallic Molecular Catalyst"; Natali, Mirco; Deponti, Elisa; Vilona, Debora; Sartorel, Andrea; Bonchio, Marcella; Scandola, Franco; EUROPEAN JOURNAL OF INORGANIC CHEMISTRY; 2015; 3467-3477; 2015
- 120) "Working the other way around: Photocatalytic water oxidation triggered by reductive quenching of the photoexcited chromophore"; Natali, Mirco; Puntoriero, Fausto; Chiorboli, Claudio; La Ganga, Giuseppina; Sartorel, Andrea; Bonchio, Marcella; Campagna, Sebastiano; Scandola, Franco; JOURNAL OF PHYSICAL CHEMISTRY. C, NANOMATERIALS AND INTERFACES; 119; 2371-2379; 2015
- 121) "Photoinduced intercomponent excited-state decays in a molecular dyad made of a dinuclear rhenium(I) chromophore and a fullerene electron acceptor unit"; Nastasi, Francesco; Puntoriero, Fausto; Natali, Mirco; Mba, Miriam; Maggini, Michele; Mussini, Patrizia; Panigati, Monica; Campagna, Sebastiano; PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES; 14; 909-918; 2015
- 122) "Ultrastable suspensions of polyoxazoline-functionalized ZnO single nanocrystals"; Morgese, Giulia; Causin, Valerio; Maggini, Michele; Corrà, Stefano; Gross, Silvia; Benetti, Edmondo M.; CHEMISTRY OF MATERIALS; 27; 2957-2964; 2015
- 123) "Continuous-flow stereoselective synthesis in microreactors: Nucleophilic additions to nitrostyrenes organocatalyzed by a chiral bifunctional catalyst"; Rossi, Sergio; Benaglia, Maurizio; Puglisi, Alessandra; Filippo, Christian; Maggini, Michele; JOURNAL OF FLOW CHEMISTRY; 5; 17-21; 2015
- 124) "Energy transfer induced by carbon quantum dots in porous zinc oxide nanocomposite films"; Suzuki, Kazumasa; Malfatti, Luca; Carboni, Davide; Loche, Danilo; Casula, Maria; Moretto, Alessandro; Maggini, Michele; Takahashi, Masahide; Innocenzi, Plinio; JOURNAL OF PHYSICAL CHEMISTRY. C, NANOMATERIALS AND INTERFACES; 119; 2837-2843; 2015
- 125) "The functional dissection of the plasma corona of SiO<sub>2</sub>-NPs spots histidine rich glycoprotein as a major player able to hamper nanoparticle capture by macrophages"; Fedeli, Chiara; Segat, Daniela; Tavano, Regina; Bubacco, Luigi; De Franceschi, Giorgia; Polverino de Laureto, Patrizia; Lubian, Elisa; Selvestrel, Francesco; Mancin, Fabrizio; Papini, Emanuele; NANOSCALE; 7; 17710-17728; 2015
- 126) "Chiral Gold Nanoparticles Decorated with Pseudopeptides"; Fanelli, Rossana; Milli, Lorenzo; Cornia, Andrea; Moretto, Alessandro; Castellucci, Nicola; Zanna, Nicola; Malachin, Giulia; Tavano, Regina; Tomasini, Claudia; EUROPEAN JOURNAL OF ORGANIC CHEMISTRY; 2015; 6243-6248; 2015
- 127) "Group 11 Metal Complexes with Electron-poor, 4,5-Disubstituted Diimidazol-2-ylidene Ligands"; Canteri, Sara; Baron, Marco; Tubaro, Cristina; Biffis, Andrea; Graiff, Claudia; ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE; 641; 2272-2276; 2015
- 128) "Palladium(II) complexes with electron-poor, 4,5-disubstituted diimidazol-2-ylidene ligands: Synthesis, characterization and catalytic activity"; Pinter, Piermaria; Biffis, Andrea; Tubaro, Cristina; Tenne, Mario; Kaliner, Maria; Strassner, Thomas; DALTON TRANSACTIONS; 44; 9391-9399; 2015

- 129) "InSitu X-ray Absorption Fine Structure Spectroscopy of a Palladium Catalyst for the Direct Synthesis of Hydrogen Peroxide: Leaching and Reduction of the Metal Phase in the Presence of Bromide Ions"; Centomo, Paolo; Meneghini, Carlo; Sterchele, Stefano; Trapananti, Angela; Aquilanti, Giuliana; Zecca, Marco; CHEMCATCHEM; 7; 3712-3718; 2015
- 130) "Two-photon absorption properties and  $O_2$  generation ability of Ir complexes: An unexpected large cross section of  $[Ir(CO)_2Cl(4-(para-di-n-butylaminostyryl)pyridine)]$ "; Colombo, Alessia; Dragonetti, Claudia; Roberto, Dominique; Valore, Adriana; Ferrante, Camilla; Fortunati, Ilaria; Picone, A. Lorena; Todescato, Francesco; Williams, J. A. Gareth; DALTON TRANSACTIONS; 44; 15712-15720; 2015
- 131) "Largely Cu-doped  $LaCo_{1-x}Cu_xO_3$  perovskites for TWC: Toward new PGM-free catalysts"; Glisenti, A; Pacella, M.; Guiotto, M.; Natile, M.M.; Canu, P.; APPLIED CATALYSIS. B, ENVIRONMENTAL; 180; 94-105; 2015
- 132) "Washcoating vs. direct synthesis of  $LaCoO_3$  on monoliths for environmental applications"; Guiotto, Matteo; Pacella, Michael; Perin, Giovanni; Iovino, Alessandro; Michelon, Nicola; Natile, Marta Maria; Glisenti, Antonella; Canu, Paolo; APPLIED CATALYSIS A: GENERAL; 499; 146-157; 2015
- 133) "Potash-lime-silica glass: Protection from weathering"; De Bardi, Monica; Hutter, Herbert; Schreiner, Manfred; Bertonecello, Renzo; HERITAGE SCIENCE; 3; -; 2015
- 134) "Transient signal generation in a self-assembled nanosystem fueled by ATP"; Pezzato, Cristian; Prins, Leonard J.; NATURE COMMUNICATIONS; 6; 7790-; 2015
- 135) "Limit of detection in the presence of instrumental and non-instrumental errors: Study of the possible sources of error and application to the analysis of 41 elements at trace levels by ICP-MS technique"; Badocco, Denis; Lavagnini, Irma; Mondin, Andrea; Tapparo, Andrea; Pastore, Paolo; SPECTROCHIMICA ACTA, PART B: ATOMIC SPECTROSCOPY; 107; 178-184; 2015
- 136) "Emergence of Complex Chemistry on an Organic Monolayer"; Prins, Leonard J.\*; ACCOUNTS OF CHEMICAL RESEARCH; 48; 1920-1928; 2015
- 137) "Monolayer protected gold nanoparticles with metal-ion binding sites: Functional systems for chemosensing applications"; Pezzato, C; Maiti, S.; Chen, J.L.-Y.; Cazzolaro, A.; Gobbo, C.; Prins, L.J.; CHEMICAL COMMUNICATIONS; 51; 9922-9931; 2015
- 138) "Dynamic combinatorial chemistry on a monolayer protected gold nanoparticle"; Maiti, Subhabrata; Prins, Leonard J.; CHEMICAL COMMUNICATIONS; 51; 5714-5716; 2015
- 139) "'One-shot' analysis of PDE-5 inhibitors and analogues in counterfeit herbal natural products using an LC-DAD-QTOF system"; Bortolini, Claudio; Pivato, Antonio; Bogialli, Sara; Pastore, Paolo; ANALYTICAL AND BIOANALYTICAL CHEMISTRY; 407; 6207-6216; 2015
- 140) "Non-target screening with high-resolution mass spectrometry: critical review using a collaborative trial on water analysis"; Schymanski, Emma L; Singer, Heinz P; Slobodnik, Jaroslav; Ipolyi, Ildiko M; Oswald, Peter; Krauss, Martin; Schulze, Tobias; Haglund, Peter; Letzel, Thomas; Grosse, Sylvia; Thomaidis, Nikolaos S; Bletsou, Anna; Zwiener, Christian; Ibáñez, María; Portolés, Tania; de Boer, Ronald; Reid, Malcolm J; Onghena, Matthias; Kunkel, Uwe; Schulz, Wolfgang; Guillon, Amélie; Noyon, Naïke; Leroy, Gaëla; Bados, Philippe; Bogialli, Sara; Stipančičev, Draženka; Rostkowski, Pawel; Hollender, Juliane; ANALYTICAL AND BIOANALYTICAL CHEMISTRY; 407; 6237-6255; 2015
- 141) "Effect of multiple error sources on the calibration uncertainty"; Badocco, Denis; Lavagnini, Irma; Mondin, Andrea; Pastore, Paolo; FOOD CHEMISTRY; 177; 147-151; 2015
- 142) "Definition of the limit of quantification in the presence of instrumental and non-instrumental errors. Comparison among various definitions applied to the calibration of zinc by inductively coupled plasma-mass spectrometry"; Badocco, Denis; Lavagnini, Irma; Mondin, Andrea; Favaro, Gabriella; Pastore, Paolo; SPECTROCHIMICA ACTA, PART B: ATOMIC SPECTROSCOPY; 114; 81-86; 2015
- 143) "Cyclic voltammetry as a new approach for the determination of solubility of aliphatic amines in water"; Badocco, Denis; Di Marco, Valerio; Mondin, Andrea; Pastore, Paolo; JOURNAL OF CHEMICAL AND ENGINEERING DATA; 60; 895-901; 2015
- 144) "Parallel optical read-out of micromechanical pillars applied to prostate specific membrane antigen detection"; Tardivo, Martina; Toffoli, Valeria; Fracasso, Giulio; Borin, Daniele; Dal Zilio, Simone; Colusso, Andrea; Carrato, Sergio; Scoles, Giacinto; Meneghetti, Moreno; Colombatti, Marco; Lazzarino, Marco; BIOSENSORS & BIOELECTRONICS; 72; 393-399; 2015

- 145) "Degradation-by-design: Surface modification with functional substrates that enhance the enzymatic degradation of carbon nanotubes"; Sureshababu, Adukamparai Rajukrishnan; Kurapati, Rajendra; Russier, Julie; Menard-Moyon, Cecilia; Bartolini, Isacco; Meneghetti, Moreno; Kostarelos, Kostas; Bianco, Alberto; BIOMATERIALS; 72; 20-28; 2015
- 146) "Degradation by-products of ancient paper leaves from wash waters"; Bronzato, Maddalena; Calvini, Paolo; Federici, Carlo; Dupont, Anne-Laurence; Meneghetti, Moreno; Di Marco, Valerio; Biondi, Barbara; Zoleo, Alfonso; ANALYTICAL METHODS; 7; 8197-8205; 2015
- 147) "Perylene Derivatives As Useful SERRS Reporters, Including Multiplexing Analysis"; Tenori, Eleonora; Colusso, Andrea; Syrgiannis, Zois; Bonasera, Aurelio; Osella, Silvio; Ostric, Adrian; Lazzaroni, Roberto; Meneghetti, Moreno; Prato, Maurizio; ACS APPLIED MATERIALS & INTERFACES; ; -; 2015
- 148) "Selenocysteine oxidation in glutathione peroxidase catalysis: An MS-supported quantum mechanics study"; Orian, Laura; Mauri, Pierluigi; Roveri, Antonella; Toppo, Stefano; Benazzi, Louise; Bosello-Travain, Valentina; De Palma, Antonella; Maiorino, Matilde; Miotto, Giovanni; Zaccarin, Mattia; Polimeno, Antonino; Flohé, Leopold; Ursini, Fulvio; FREE RADICAL BIOLOGY & MEDICINE; 87; 1-14; 2015
- 149) "Charge Transfer Properties of Benzo[b]thiophene Ferrocenyl Complexes"; Donoli, Alessandro; Bisello, Annalisa; Cardena, Roberta; Crisma, Marco; Orian, Laura; Santi, Saverio; ORGANOMETALLICS; 34; 4451-4463; 2015
- 150) "Peroxidase Activity of Organic Selenides: Mechanistic Insights from Quantum Chemistry"; Lando, P. Wolters; Orian, Laura; CURRENT ORGANIC CHEMISTRY; 20; 189-197; 2015
- 151) "Water oxidation catalysis upon evolution of molecular Co(III) cubanes in aqueous media"; Genoni, Andrea; La Ganga, Giuseppina; Volpe, Andrea; Puntoriero, Fausto; Di Valentin, Marilena; Bonchio, Marcella; Natali, Mirco; Sartorel, Andrea; FARADAY DISCUSSIONS; 185; 121-141; 2015
- 152) "Wavelength dispersion of the local field intensity in silver-gold nanocages"; Pilot, R.; Zoppi, A.; Trigari, S.; Deepak, F. L.; Giorgetti, E.; Bozio, R.; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 7355-7355; 2015
- 153) "Reaction of Copper(II) Chloroacetate with Pyrazole. Synthesis of a One-Dimensional Coordination Polymer and Unexpected Dehydrochlorination Reaction"; Carlotto, Silvia; Casarin, Maurizio; Lanza, Arianna; Nestola, Fabrizio; Pandolfo, Luciano; Pettinari, Claudio; Scatena, Rebecca; CRYSTAL GROWTH & DESIGN; 15; 5910-5918; 2015
- 154) "Pursuing the Crystallization of Mono- and Polymetallic Nanosized Crystalline Inorganic Compounds by Low-Temperature Wet-Chemistry and Colloidal Routes"; Diodati, Stefano; Dolcet, Paolo; Casarin, Maurizio; Gross, Silvia; CHEMICAL REVIEWS; 115; 11449-11502; 2015
- 155) "Thia-bridged triarylamine heterohelicene radical cations as redox-driven molecular switches"; Menichetti, S.; Cecchi, S.; Procacci, P.; Innocenti, M.; Becucci, L.; Franco, L.; Viglianisi, C.; CHEMICAL COMMUNICATIONS; 51; 11452-11454; 2015
- 156) "Entropy-Driven Chiral Order in a System of Achiral Bent Particles"; Greco, Cristina; Ferrarini, Alberta; PHYSICAL REVIEW LETTERS; 115; 147801-; 2015
- 157) "Fast One-Pot Synthesis of MoS<sub>2</sub>/Crumpled Graphene p-n Nanonjunctions for Enhanced Photoelectrochemical Hydrogen Production"; Carraro, Francesco; Calvillo, Laura; Cattelan, Mattia; Favaro, Marco; Righetto, Marcello; Nappini, Silvia; Piš, Igor; Celorrio, Verónica; Fermín, David J.; Martucci, Alessandro; Agnoli, Stefano; Granozzi, Gaetano; ACS APPLIED MATERIALS & INTERFACES; 7; 25685-25692; 2015
- 158) "Imaging agents based on lanthanide doped nanoparticles"; Prodi, L.; Rampazzo, E.; Rastrelli, F.; Speghini, A.; Zaccheroni, N.; CHEMICAL SOCIETY REVIEWS; 44; 4922-4952; 2015
- 159) "Pilot-Wave Quantum Theory with a Single Bohm's Trajectory"; Moro, Giorgio; Avanzini, Francesco; Fresch, Barbara; FOUNDATIONS OF PHYSICS; 46; 1-31; 2015
- 160) "Covalent functionalization enables good dispersion and anisotropic orientation of multi-walled carbon nanotubes in a poly(l-lactic acid) electrospun nanofibrous matrix boosting neuronal differentiation"; Vicentini, Nicola; Gatti, Teresa; Salice, Patrizio; Scapin, Giorgia; Marega, Carla; Filippini, Francesco; Menna, Enzo; CARBON; 95; 725-730; 2015
- 161) "Treatment of methyl orange by nitrogen non-thermal plasma in a corona reactor: The role of reactive nitrogen species"; Cadorin, Bruno Mena; Tralli, Vitor Douglas; Ceriani, Elisa; Benetoli, Luís Otávio de Brito; Marotta, Ester; Ceretta, Claudio; Debacher, Nito Angelo; Paradisi, Cristina; JOURNAL OF HAZARDOUS MATERIALS; 300; 754-764; 2015

- 162) "Synthesis and Evaluation as Prodrugs of Hydrophilic Carbamate Ester Analogues of Resveratrol"; Azzolini, Michele; Mattarei, Andrea; La Spina, Martina; Marotta, Ester; Zoratti, Mario; Paradisi, Cristina; Biasutto, Lucia; MOLECULAR PHARMACEUTICS; 12; 3441-3454; 2015
- 163) "Investigation on plasma-driven methane dry reforming in a self-triggered spark reactor"; Shapoval, Volodymyr; Marotta, Ester; PLASMA PROCESSES AND POLYMERS; 12; 808-816; 2015
- 164) "Co<sub>3</sub>O<sub>4</sub>/TiO<sub>2</sub> heterostructures obtained by hybrid method"; El Habra, N; Visentin, F.; Gerbasi, R.; Favaro, M.; Natile, M.M.; Colazzo, L.; Sambì, M.; PHYSICA STATUS SOLIDI. A, APPLICATIONS AND MATERIALS SCIENCE; 212; 1588-1598; 2015
- 165) "Reversible Fe Magnetic Moment Switching in Catalytic Oxygen Reduction Reaction of Fe-Phthalocyanine Adsorbed on Ag(110)"; Bartolomé, Juan; Bartolomé, Fernando; Brookes, Nicholas B.; Sedona, Francesco; Basagni, Andrea; Forrer, Daniel; Sambì, Mauro; JOURNAL OF PHYSICAL CHEMISTRY. C, NANOMATERIALS AND INTERFACES; 119; 12488-12495; 2015
- 166) "On-surface photo-dissociation of C-Br bonds: Towards room temperature Ullmann coupling"; Basagni, Andrea; Ferrighi, Lara; Cattelan, Mattia; Nicolas, Louis; Handrup, Karsten; Vaghi, Luca; Papagni, Antonio; Sedona, Francesco; Di Valentin, Cristiana; Agnoli, Stefano; Sambì, Mauro; CHEMICAL COMMUNICATIONS; 51; 12593-12596; 2015
- 167) "A novel inhibitor prevents the peripheral neuroparalysis of Botulinum neurotoxins"; Azarnia Tehran, Domenico; Zanetti, Giulia; Leka, Oneda; Lista, Florigio; Fillo, Silvia; Binz, Thomas; Shone, Clifford C.; Rossetto, Ornella; Montecucco, Cesare; Paradisi, Cristina; Mattarei, Andrea; Pirazzini, Marco; SCIENTIFIC REPORTS; 5; 17513-; 2015
- 168) "Amino acid carbamates as prodrugs of resveratrol"; Mattarei, Andrea; Azzolini, Michele; La Spina, Martina; Zoratti, Mario; Paradisi, Cristina; Biasutto, Lucia; SCIENTIFIC REPORTS; 5; 15216-; 2015
- 169) "N-monosubstituted methoxy-oligo(ethylene glycol) carbamate ester prodrugs of resveratrol"; Mattarei, Andrea; Azzolini, Michele; Zoratti, Mario; Biasutto, Lucia; Paradisi, Cristina; MOLECULES; 20; 16085-16102; 2015
- 170) "Role of the Substrate Orientation in the Photoinduced Electron Dynamics at the Porphyrin/Ag Interface"; Tognolini, Silvia; Ponzoni, Stefano; Sedona, Francesco; Sambì, Mauro; Pagliara, Stefania; THE JOURNAL OF PHYSICAL CHEMISTRY LETTERS; 6; 3632-3638; 2015
- 171) "Local and regional components of aerosol in a heavily trafficked street canyon in central London derived from PMF and cluster analysis of single-particle ATOFMS spectra"; Giorio, Chiara; Tapparo, Andrea; Dallosto, Manuel; Beddows, David C. S.; Esser-Gietl, Johanna K.; Healy, Robert M.; Harrison, Roy M.; ENVIRONMENTAL SCIENCE & TECHNOLOGY; 49; 3330-3340; 2015
- 172) "Gaseous products and secondary organic aerosol formation during long term oxidation of isoprene and methacrolein"; Brégonzio-Rozier, L; Siekmann, F.; Giorio, C.; Panguì, E.; Morales, S.B.; Temime-Roussel, B.; Gratien, A.; Michoud, V.; Ravier, S.; Cazaunau, M.; Tapparo, A.; Monod, A.; Doussin, J.-F.; ATMOSPHERIC CHEMISTRY AND PHYSICS; 15; 2953-2968; 2015
- 173) "Aging of secondary organic aerosol generated from the ozonolysis of  $\alpha$ -pinene: Effects of ozone, light and temperature"; Denjean, C.; Formenti, P.; Picquet-Varrault, B.; Camredon, M.; Panguì, E.; Zapf, P.; Katrib, Y.; Giorio, C.; Tapparo, A.; Temime-Roussel, B.; Monod, A.; Aumont, B.; Doussin, J.F.; ATMOSPHERIC CHEMISTRY AND PHYSICS; 15; 883-897; 2015
- 174) "Conclusions of the worldwide integrated assessment on the risks of neonicotinoids and fipronil to biodiversity and ecosystem functioning"; Van Der Sluijs, J.P.; Amaral-Rogers, V.; Belzunces, L.P.; Bijleveld Van Lexmond, M.F.; Bonmatin, J.-M.; Chagnon, M.; Downs, C.A.; Furlan, L.; Gibbons, D.W.; Giorio, C.; Girolami, V.; Goulson, D.; Kreuzweiser, D.P.; Krupke, C.; Liess, M.; Long, E.; Mcfield, M.; Mineau, P.; Mitchell, E.A.; Morrissey, C.A.; Noome, D.A.; Pisa, L.; Settele, J.; Simon-Delso, N.; Stark, J.D.; Tapparo, A.; Van Dyck, H.; Van Praagh, J.; Whitehorn, P.R.; Wiemers, M.; ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH INTERNATIONAL; 22; 148-154; 2015
- 175) "Environmental fate and exposure; neonicotinoids and fipronil"; Bonmatin, J.-M.; Giorio, C.; Girolami, V.; Goulson, D.; Kreuzweiser, D.P.; Krupke, C.; Liess, M.; Long, E.; Marzaro, M.; Mitchell, E.A.; Noome, D.A.; Simon-Delso, N.; Tapparo, A.; ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH INTERNATIONAL; 22; 35-67; 2015
- 176) "Systemic insecticides (Neonicotinoids and fipronil): Trends, uses, mode of action and metabolites"; Simon-Delso, N.; Amaral-Rogers, V.; Belzunces, L.P.; Bonmatin, J.M.; Chagnon, M.; Downs, C.; Furlan, L.; Gibbons, D.W.; Giorio, C.; Girolami, V.; Goulson, D.; Kreuzweiser, D.P.; Krupke, C.H.; Liess, M.; Long, E.; Mcfield, M.; Mineau, P.; Mitchell, E.A.; Morrissey, C.A.; Noome, D.A.; Pisa, L.; Settele, J.; Stark, J.D.; Tapparo, A.; Van Dyck, H.; Van Praagh, J.; Van Der Sluijs, J.P.; Whitehorn, P.R.; Wiemers, M.; ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH INTERNATIONAL; 22; 5-34; 2015

- 177) "Laser generation of iron-doped silver nanotruffles with magnetic and plasmonic properties"; Amendola, Vincenzo; Scaramuzza, Stefano; Agnoli, Stefano; Granozzi, Gaetano; Meneghetti, Moreno; Campo, Giulio; Bonanni, Valentina; Pineider, Francesco; Sangregorio, Claudio; Ghigna, Paolo; Polizzi, Stefano; Riello, Piero; Fiameni, Stefania; Nodari, Luca; NANO RESEARCH; 8; 4007-4023; 2015
- 178) "Laser generated gold nanocorals with broadband plasmon absorption for photothermal applications"; Poletti, Annamaria; Fracasso, Giulio; Conti, Giamaica; Pilot, Roberto; Amendola, Vincenzo; NANOSCALE; 7; 13702-13714; 2015
- 179) "Scaling of optical forces on Au-PEG core-shell nanoparticles"; Spadaro, Donatella; Iati, Maria A.; Donato, Maria G.; Gucciardi, Pietro G.; Saija, Rosalba; Cherlakola, Anurag R.; Scaramuzza, Stefano; Amendola, Vincenzo; Maragò, Onofrio M.; RSC ADVANCES; 5; 93139-93146; 2015
- 180) "Alkali-metal ion coordination in uranyl(VI) poly-peroxo complexes in solution, inorganic analogues to crown-ethers. Part 2. Complex formation in the tetramethyl ammonium-, Li<sup>+</sup>-, Na<sup>+</sup>- and K<sup>+</sup>-uranyl(VI)-peroxide-carbonate systems"; Zanonato, Pier Luigi; DALTON TRANSACTIONS; 44; 16565-16572; 2015
- 181) "Sorption of Uranium and other Metal Ions on Amine-Functionalized Silica Materials"; Sun, Xiaoqi; Zanonato, Pier Luigi; Bernardo, Plinio Di; Zhang, Zhicheng; Rao, Linfeng; SEPARATION SCIENCE AND TECHNOLOGY; 50; 2769-2775; 2015
- 182) "Thermal conductivity and emissivity measurements of uranium carbides"; Corradetti, S; Manzolaro, M.; Andrighetto, A.; Zanonato, P.; Tusseau-Nenez, S.; NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION B, BEAM INTERACTIONS WITH MATERIALS AND ATOMS; 360; 46-53; 2015
- 183) "Alkali-metal ion coordination in uranyl(vi) poly-peroxide complexes in solution. Part 1: The Li<sup>+</sup>, Na<sup>+</sup> and K<sup>+</sup>-peroxide-hydroxide systems"; Zanonato, Pier Luigi; Di Bernardo, Plinio; Vallet, Valerie; Szabó, Zoltán; Grenthe, Ingmar; DALTON TRANSACTIONS; 44; 1549-1556; 2015
- 184) "Vanadium oxide nanostructures on another oxide: The viewpoint from model catalysts studies"; Artiglia, Luca; Agnoli, Stefano; Granozzi, Gaetano; COORDINATION CHEMISTRY REVIEWS; 301-302; 106-122; 2015
- 185) "Thermally induced strains on the catalytic activity and stability of Pt-M<sub>2</sub>O<sub>3</sub>/C (M=Y or Gd) catalysts towards oxygen reduction reaction"; Luo, Yun; Habrioux, Aurélien; Calvillo, Laura; Granozzi, Gaetano; Alonso-Vante, Nicolas; CHEMCATCHEM; 7; 1573-1582; 2015
- 186) "Assembling of TiO<sub>2</sub> nanotube photoelectrodes with enhanced visible properties for a sustainable production of H<sub>2</sub>"; Ampelli, Claudio; Genovese, Chiara; Tavella, Francesco; Favaro, Marco; Agnoli, Stefano; Granozzi, Gaetano; Perathoner, Siglinda; Centi, Gabriele; CHEMICAL ENGINEERING TRANSACTIONS; 43; 667-672; 2015
- 187) "Electronic interaction between platinum nanoparticles and nitrogen-doped reduced graphene oxide: Effect on the oxygen reduction reaction"; Ma, Jiwei; Habrioux, Aurélien; Luo, Yun; Ramos-Sanchez, Guadalupe; Calvillo, Laura; Granozzi, Gaetano; Balbuena, Perla B.; Alonso-Vante, Nicolas; JOURNAL OF MATERIALS CHEMISTRY. A; 3; 11891-11904; 2015
- 188) "Electrospun black titania nanofibers: Influence of hydrogen plasma-induced disorder on the electronic structure and photoelectrochemical performance"; Lepcha, A.; Maccato, C.; Mettenböcker, A.; Andreu, T.; Mayrhofer, L.; Walter, M.; Olthof, S.; Ruoko, T.-P.; Klein, A.; Moseler, M.; Meerholz, K.; Morante, J.R.; Barreca, D.; Mathur, S.; JOURNAL OF PHYSICAL CHEMISTRY. C, NANOMATERIALS AND INTERFACES; 119; 18835-18842; 2015
- 189) "PECVD of hematite nanoblades and nanocolumns: synthesis, characterization and growth model; 2015"; Carraro, G.; Gasparotto, A.; Maccato, C.; Bontempi, E.; Barreca, D.; CHEMICAL VAPOR DEPOSITION; 21; 294-299; 2015
- 190) "Nitrate and Nitrite Electrocatalytic Reduction at Layer-by-Layer Films Composed of Dawson-type Heteropolyanions Mono-substituted with Transitional Metal Ions and Silver Nanoparticles"; Imar, S.; Yaqub, M.; Maccato, C.; Dickinson, C.; Laffir, F.; Vagin, M.; McCormac, T.; ELECTROCHIMICA ACTA; 184; 323-330; 2015
- 191) "Room temperature crystallization of highly luminescent lanthanide-doped CaF<sub>2</sub> nanosized droplets: first example of the synthesis of metal halogenide in miniemulsion with effective doping and size control"; Dolcet, Paolo; Mambrini, Antonin; Pedroni, Marco; Speghini, Adolfo; Gialanella, Stefano; Casarin, Maurizio; Gross, Silvia; RSC ADVANCES; 5; 16302-16310; 2015
- 192) "Fluoroalkylsilanes with Embedded Functional Groups as Building Blocks for Environmentally Safer Self-Assembled Monolayers"; Ballarin, Barbara; Barreca, Davide; Cassani, Maria Cristina; Carraro, Giorgio; Maccato, Chiara; Mignani, Adriana; Lazzari, Dario; Bertola, Maurizio; LANGMUIR; 31; 6988-

- 193) "Ligand-field strength and symmetry-restricted covalency in Cu<sup>II</sup> complexes - A near-edge X-ray absorption fine structure spectroscopy and time-dependent DFT study"; Mangione, Giulia; Pandolfo, Luciano; Sambì, Mauro; Ligorio, Giovanni; Nardi, Marco Vittorio; Cossaro, Albano; Floreano, Luca; Casarin, Maurizio; EUROPEAN JOURNAL OF INORGANIC CHEMISTRY; 2015; 2707-2713; 2015
- 194) "TiO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub> and Co<sub>3</sub>O<sub>4</sub>-Fe<sub>2</sub>O<sub>3</sub> nanocomposites analyzed by X-ray Photoelectron Spectroscopy"; Warwick, M.E.A.; Carraro, G.; Barreca, D.; Gasparotto, A.; Maccato, C.; SURFACE SCIENCE SPECTRA; 22; 34-46; 2015
- 195) "Fabrication and characterization of Fe<sub>2</sub>O<sub>3</sub>-based nanostructures functionalized with metal particles and oxide overlayers"; Barreca, D.; Carraro, G.; Gasparotto, A.; Maccato, C.; Warwick, M.E.A.; Turner, S.; Van Tendeloo, G.; JOURNAL OF ADVANCED MICROSCOPY RESEARCH; 10; 239-243; 2015
- 196) "Water-gas shift reaction over gold nanoparticles dispersed on nanostructured CeO<sub>x</sub>-TiO<sub>2</sub>(110) surfaces: Effects of high ceria coverage"; Grinter, D.C.; Park, J.B.; Agnoli, S.; Evans, J.; Hrbek, J.; Stacchiola, D.J.; Senanayake, S.D.; Rodriguez, J.A; SURFACE SCIENCE; 650; 34-39; 2015
- 197) "The metallome of the human placenta in gestational diabetes mellitus"; Roverso, Marco; Berté, Chiara; Di Marco, Valerio; Lapolla, Annunziata; Badocco, Denis; Pastore, Paolo; Visentin, Silvia; Cosmi, Erich; METALLOMICS; 7; 1146-1154; 2015
- 198) "Carotenoid triplet states in photosystem II: Coupling with low-energy states of the core complex"; Santabarbara, Stefano; Agostini, Alessandro; Casazza, Anna Paola; Zucchelli, Giuseppe; Carbonera, Donatella; BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS; 1847; 262-275; 2015
- 199) "Adsorption of small molecules at the cobalt-doped SrTiO<sub>3</sub>(001) surface: A first-principles investigation"; Carlotto, Silvia; Natile, Marta Maria; Glisenti, Antonella; Vittadini, Andrea; SURFACE SCIENCE; 633; 68-76; 2015
- 200) "Environmental and traffic-related parameters affecting road dust composition: A multi-technique approach applied to Venice area (Italy)"; Valotto, Gabrio; Rampazzo, Giancarlo; Visin, Flavia; Gonella, Francesco; Cattaruzza, Elti; Glisenti, Antonella; Formenton, Gianni; Tieppo, Paulo; ATMOSPHERIC ENVIRONMENT; 122; 596-608; 2015
- 201) "Surface Chemistry of Amphiphilic Polysiloxane/Triethyleneglycol-Modified Poly(pentafluorostyrene) Block Copolymer Films Before and After Water Immersion"; Martinelli, Elisa; Pelusio, Gabriele; Yasani, Bhaskar R.; Glisenti, Antonella; Galli, Giancarlo; MACROMOLECULAR CHEMISTRY AND PHYSICS; 216; 2086-2094; 2015
- 202) "Multidimensional integration through Markovian sampling under steered function morphing: a physical guise from statistical mechanics"; Zerbetto, Mirco; Frezzato, Diego; COMPUTER PHYSICS COMMUNICATIONS; 195; 129-139; 2015
- 203) "MD simulation of xenon in ionic liquids: disentangling the cationic and anionic cage effects on the structural and dynamic properties"; Frezzato, Diego; Bagno, Alessandro; Castiglione, Franca; Mele, Andrea; Saielli, Giacomo; JOURNAL OF MOLECULAR LIQUIDS; 210; 272-278; 2015
- 204) "Conformational mobility in monolayer-protected nanoparticles: from torsional free energy profiles to NMR relaxation"; Piserchia, Andrea; Zerbetto, Mirco; Salvia, Marie-Virginie; Salassa, Giovanni; Gabrielli, Luca; Mancin, Fabrizio; Rastrelli, Federico; Frezzato, Diego; JOURNAL OF PHYSICAL CHEMISTRY. C, NANOMATERIALS AND INTERFACES; 119; 20100-20110; 2015
- 205) "Features in chemical kinetics. III. attracting subspaces in a hyper-spherical representation of the reactive system"; Ceccato, Alessandro; Nicolini, Paolo; Frezzato, Diego; THE JOURNAL OF CHEMICAL PHYSICS; 143; 224109-; 2015
- 206) "Liponitroxides: EPR study and their efficacy as antioxidants in lipid membranes"; Mobbili, Giovanna; Crucianelli, Emanuela; Barbon, Antonio; Marcaccio, Massimo; Pisani, Michela; Dalzini, Annalisa; Ussano, Eleonora; Bortolus, Marco; Stipa, Pierluigi; Astolfi, Paola; RSC ADVANCES; 5; 98955-98966; 2015
- 207) "Turning Supramolecular Receptors into Chemosensors by Nanoparticle-Assisted "NMR Chemosensing""; Salvia, Marie-Virginie; Salassa, Giovanni; Rastrelli, Federico; Mancin, Fabrizio; JOURNAL OF THE AMERICAN CHEMICAL SOCIETY; 137; 11399-11406; 2015

- 208) "Key multi(ferrocenyl) complexes in the interplay between electronic coupling and electrostatic interaction"; Santi, Saverio; Bisello, Annalisa; Roberta Cardena; Donoli, Alessandro; DALTON TRANSACTIONS; 44; 5234-5257; 2015
- 209) "Design, Synthesis and Optoelectronic Properties of Aminoacid Derivatives of Poly(arylene ethynylene) Platforms: Hybrid Bio-Synthetic Systems for Sensing Applications"; Chiarini, Marco; Ricci, Antonella; Pizzoferrato, Roberto; Santi, Saverio; Sterzo, Claudio Lo; CURRENT ORGANIC CHEMISTRY; 19; 1063-1076; 2015
- 210) "Origins, developments, and perspectives of carbon nitride-based electrocatalysts for application in low-temperature FCs"; Di Noto, V.; Negro, E. ; Vezzú, K. ; Bertasi, F. ; Nawn, G.; THE ELECTROCHEMICAL SOCIETY INTERFACE; Summer 2015; -; 2015
- 211) "Hydrogen capture by porphyrins at the TiO<sub>2</sub>(110) surface"; Lovat, Giacomo; Forrer, Daniel; Abadia, Mikel; Dominguez, Marcos; Casarin, Maurizio; Rogero, Celia; Vittadini, Andrea; Floreano, Luca; PHYSICAL CHEMISTRY CHEMICAL PHYSICS; 17; 30119-30124; 2015
- 212) "Gold(III)-pyrrolidinedithiocarbamate Derivatives as Antineoplastic Agents"; Nardon, Chiara; Chiara, Federica; Brustolin, Leonardo; Gambalunga, Alberto; Ciscato, Francesco; Rasola, Andrea; Trevisan, Andrea; Fregona, Dolores; CHEMISTRYOPEN; 4; 183-191; 2015
- 213) "NMR-Assisted Molecular Docking Methodologies"; Sturlese, Mattia; Bellanda, Massimo; Moro, Stefano; MOLECULAR INFORMATICS; 34; 513-525; 2015
- 214) "Giovanni Giacometti: On the Occasion of His 85th Birthday"; Di Valentin, Marilena; Carbonera, Donatella; APPLIED MAGNETIC RESONANCE; 46; 357-358; 2015
- 215) "HYSCORE on Photoexcited Triplet States"; Tait, Claudia E.; Neuhaus, Patrik; Anderson, Harry L.; Timmel, Christiane R.; Carbonera, Donatella; Di Valentin, Marilena; APPLIED MAGNETIC RESONANCE; 46; 389-409; 2015
- 216) "Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> nano-heretostucture photoanodes for highly efficient solar water oxidation"; Warwick, M. E.A.; Maccato, C.; Gasparotto, A.; Kaunisto, K.; Carraro, G.; Sada, C.; Turner, S.; Gönüllü, Y.; Borgese, L.; Bontempi, E.; Van Tendeloo, G.; Mathur, S.; Barreca, D.; ADVANCED MATERIALS INTERFACES; 2; 1500313-; 2015
- 217) "Solvent-tunable morphology and emission of pyrene-dipeptide organogels"; Bartocci, S.; Morbioli, I.; Maggini, M.; Mba, M; JOURNAL OF PEPTIDE SCIENCE; 21; 871-878; 2015
- 218) "A peptide topological template for the dispersion of [60]fullerene in water"; Bartocci, S.; Mazzier, D.; Moretto, A.; Mba, M.; ORGANIC & BIOMOLECULAR CHEMISTRY; 13; 348-352; 2015
- 219) "Helical peptide-polyamine and -polyether conjugates as synthetic ionophores"; Benincasa, Monica; Francescon, Marco; Fregonese, Massimo; Gennaro, Renato; Pengo, Paolo; Rossi, Paola; Scrimin, Paolo; Tecilla, Paolo; BIOORGANIC & MEDICINAL CHEMISTRY; 23; 7386-7393; 2015
- 220) "Synthesis and structural characterizations of new coordination polymers generated by the interaction between the trinuclear triangular SBU [Cu<sub>3</sub>(μ<sub>3</sub>-OH)(μ-pz)<sub>3</sub>]<sup>2+</sup> and 4,4'-Bipyridine. 3<sup>o</sup>"; Condello, Francesca; Garau, Federica; Lanza, Arianna; Monari, Magda; Nestola, Fabrizio; Pandolfo, Luciano; Pettinari, Claudio; CRYSTAL GROWTH & DESIGN; 15; 4854-4862; 2015
- 221) "Performance Assessment in Fingerprinting and Multi Component Quantitative NMR Analyses"; Vito Gallo, \*; Nicola Intini, Piero Mastroilli, Mario Latronico, Pasquale Scapicchio, ; Maurizio Triggiani; Vitoantonio Bevilacqua; Paolo Fanizzi; Domenico Acquotti; Cristina Airoldi; Fabio Arnesano; Michael Assfalg; Francesca Benevelli; Davide Bertelli; Laura R Cagliani, Laura R. Cagliani; Luca Casadei; Flaminia Cesare Marincola; Giuseppe Colafemmina; Roberto Consonni; Cesare Cosentino; Silvia Davalli; Sandra A. De Pascali; Virginia D'Aiuto, Andrea Faccini, Roberto Gobetto, Raffaele Lamanna, Francesca Liguori, Francesco Longobardi, Domenico Mallamace, Pierluigi Mazzei; Ileana Menegazzo, Salvatore Milone, Adele Mucci, Claudia Napoli, Thelma Pertinhez, Antonino Rizzuti, Luca Rocchigiani, Elisabetta Schievano, Fabio Sciubba, Anatoly Sobolev, Leonardo Tenori, Mariacristina, Valerio; ANALYTICAL CHEMISTRY; 87; 6709-6717; 2015
- 222) "Quantification of caffeine in human saliva by Nuclear Magnetic Resonance as an alternative method for cytochrome CYP1A2 phenotyping"; Elisabetta Schievano, Claudia Finotello, Luciano Navarini, Stefano Mammi; TALANTA; 140; 36-41; 2015
- 223) "Characterization of Paramagnetic Reactive Intermediates: Predicting the NMR Spectra of Iron(IV)-Oxo Complexes by DFT"; Borgogno, Andrea; Rastrelli, Federico; Bagno, Alessandro; CHEMISTRY-A EUROPEAN JOURNAL; 21; 12960-12970; 2015
- 224) "Bioadsorbent Hura Crepitans for the removal of phenol from solution"; Adewuyi, A.; Gennaro, A.; Durante, C.; JOURNAL OF WATER CHEMISTRY AND TECHNOLOGY; 37; 277-282; 2015

- 225) "1H-Azepine-2-oxo-5-amino-5-carboxylic Acid: a 310 Helix Inducer and an Effective Tool for Functionalized Gold-Nanoparticles."; Pellegrino, S.; Bonetti, A.; Clerici, F.; Contini, A.; Moretto, A.; Soave, R.; Gelmi, M.L.; JOURNAL OF ORGANIC CHEMISTRY; 80; 5507-5516; 2015