

### Personal information

Name	Vito	Surname Rizzi
Address	1, via Ulisse, 74014, Laterza, TA, Italy	
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Nationality	Italian	
Date of birth	26 /05/1986	

### Work experience

**2016-2017.** Research Fellowship in: “Caratterizzazione chimico-fisica e photocatalitica di nanomateriali per applicazioni in edilizia ed automotive” Project: “NANOAPULIA – NANO photocatalizzatori per un’atmosfera più pulita CUP: B38C14000510008” Sector: CHIM/02. University of Bari, Dep. of Chemistry under the supervision of Prof. Pinalysa Cosma

**2016 – 2017.** Tutor for the “Piano Lauree Scientifiche” (PLS-Chemistry, Puglia- MIUR Project), 2013-2014 edition, at University of Bari “Aldo Moro”, Dept. of Chemistry for the activity: “Chimicamente” ( admission test preparation for scientific degrees for last year high school students)

**2015 – 2016.** Tutor for the “Piano Lauree Scientifiche” (PLS-Chemistry, Puglia- MIUR Project), 2015-2016 edition, at University of Bari “Aldo Moro”, Dept. of Chemistry for Analytical, Physical, Inorganic and Organic chemistry activities having the followings objects:

-“Assistenza alla realizzazione delle attività laboratoriali previste per il corso di formazione docenti coadiuvando il responsabile nella preparazione del laboratorio e nell’assistenza in laboratorio durante le attività pratiche “ for the following SSD CHIM/01, CHIM/02, CHIM/03 e CHIM/06

**July 2016.** Member of a supervisory board (5-6-7<sup>th</sup> of July) at University of Bari “Aldo Moro”, Dept. of Chemistry, Via Orabona,4 Bari, for the following activity: "prova pratica relativa ai concorsi ordinari, per esami e titoli, indetti con DD.DD.GG. nn.105, 106 e 107 del 23.2.2016 per la classe di concorso A034 – Scienze e Tecnologie Chimiche nella scuola secondaria di II grado“.

Additionally, the technical assistance service for disabled people has been carried out.

**2014 – 2015.** Tutor for the “Piano Lauree Scientifiche” (PLS-Chemistry, Puglia- MIUR Project), 2013-2014 edition, at University of Bari “Aldo Moro”, Dept. of Chemistry for two activities: “Chimicamente” ( admission test preparation for scientific degrees for last year high school students ) and “RES Chimica” ( laboratory course for high school teachers for Analytical, Physical, Inorganic and Organic chemistry sectors).

**2013 – 2014** Tutor for the “Attività di Tutorato” at University of Bari “Aldo Moro”, Dept. of

Chemistry for students (first degree courses in Chemistry).

**2013 - 2014.** Tutor for the “Piano Lauree Scientifiche” (PLS-Chemistry, Puglia- MIUR Project), 2013-2014 edition, at University of Bari “Aldo Moro”, Dept. of Chemistry for the activity: “Chimicamente” (admission test preparation for scientific degrees for last year high school students)

**2012 - 2013.** Tutor for the “Piano Lauree Scientifiche” (PLS-Chemistry, Puglia- MIUR Project), 2012-2013 edition, at University of Bari “Aldo Moro”, Dept. of Chemistry for two activities: “Chimicamente” (admission test preparation for scientific degrees for last year high school students) and “RES Chimica” (laboratory course for high school teachers).

**2012 – 2013.** Tutor for the “Attività di Tutorato” at University of Bari “Aldo Moro”, Dept. of Chemistry for students (first degree courses in Chemistry).

#### **Education and training**

**21 April 2016.** PhD in Chemistry of Innovative Materials (*Doctor Europaeus*): studies related to chitosan films, for biomedicine and green chemistry applications, at University of Bari “Aldo Moro”, Dept. of Chemistry. Title of thesis “MULTIFUNCTIONAL MOLECULES AND MATERIALS: CHALLENGES AND PROMISES FOR FUTURE BIOMEDICINE AND FOR GREEN-CHEMISTRY” (SSD CHIM/02).

**April-July 2015.** Visiting *PhD student* at Institut de Science et d'Ingénierie Supramoléculaires (ISIS), Strasbourg (France) in Prof. Luisa De Cola's group: Development of novel materials for wastewater treatment.

**2013-2016.** Dr. Vito Rizzi was involved in the activities related to the European project: “DYES4EVER” (Demonstration of cyclodextrin techniques in treatment of waste water in textile industry to recover and reuse textile dyes), [LIFE12 ENV/ES/000309] within the LIFE+2012 program “Environment Policy and Governance project application”

**October 2010-6 December 2012.** Degree in Chemical science (2 year course), score 110/110, with honors at University of Bari (Italy), Faculty of Mathematical, Physical and Natural Sciences, Degree Course in Chemistry, by debating the experimental thesis entitled “Chemical and physical characterization of Chitosan/ 2-HP- $\beta$ -CD/Chl  $\alpha$  for application in antimicrobial PDT ” (SSD CHIM/02).

**October 2005 - 16 December 2010.** Degree in Chemistry (3 year course), score 108/110, at University of Bari (Italy), Faculty of Mathematical, Physical and Natural Sciences, Degree Course in Chemistry, by debating the experimental thesis entitled “Chemical and physical characterization of 4-Thiotymidine/CD inclusion complexes for application in PDT” (SSD CHIM/02).

**Secondary school.** School leaving certificate, score 100/100, obtained at Liceo Scientifico Statale

“G.B. Vico ” in Laterza (TA), attending from September 2000 to July 2005

#### **Advanced Courses followed during the PhD years**

- “Nanostructured materials”, Dept. of Chemistry, Bari (Italy).
- “Tandem, sequential and single mass spectrometry advanced data collection and elaboration”. Dept. of Chemistry, Bari (Italy).
- “SEM and TEM advanced data collection and elaboration” course, Dept. of Chemistry, Bari (Italy).

#### **Attendance to National and International congresses or schools:**

1. 4<sup>th</sup> National Conference CD.TEC. 2013 Giardni Naxos (Messina)
2. Second International Summer School on Cyclodextrins 2013, Giardni Naxos (Messina)
3. XIII international Krutyn summer school. ADVANCED PHOTO-AND ELETRICALLY ACTIVE MOLECULAR AND NANO-MATERIALS AT THE INTERFACE WITH LIVING SYSTEM. CHALLANGES AND PROMISES FOR THE FUTURE BIO-MEDICINE. Krutyn (Poland). 2013
4. Congresso di Chimica Fisica 2013, XLI Congresso Nazionale di chimica Fisica Alessandria (TO)
5. IX Convegno Nazionale sulla Scienza e Tecnologia dei Materiali, 2013, IX Edizione. Bari
6. XXV Congresso della Società chimica Italiana. SCI-2014. Arcavacata di Rende (CS).
7. Italian Photochemistry Meeting 2014, Cascina Caremma - Abbazia di Morimondo.
8. International Conference on Applied Mineralogy and Advanced Materials, 2015, Castellaneta Marina (TA)
9. Società Italiana di Foto Biologia – Congresso 2015 - Photomedicine, 2015,Bari
10. The International Symposium on Macroyclic and Supramolecular Chemistry, 2015, Strasbourg
11. Advanced Materials World Congress 2015. Viking Line, Stockholm, Sweden.
12. School of Nanomedicine 2015, INSTM, Bari, Italy
13. Joint Congress of the French and Italian Photochemists and Photobiologists 2016 – Bari (Italy).
14. XXVI Congresso Nazionale della Società Chimica Italiana, Paestum (SA),10-14 Settembre 2017
15. School of Nanomedicine 2017 – Bari, 11st -13th October 2017

#### **Personal skills and competences**

Dr. Vito Rizzi, after his first and second degree in chemistry (110/110 with honour), gained a PhD grant within the Doctorate in Chemistry of Advanced Materials (XXVIII Cycle), attaining his PhD title (*Doctor Europaeus*) in the April 2016 at University of Bari “Aldo Moro”, Dept. of Chemistry, with studies related to chitosan films, for biomedicine and green chemistry applications. The title of thesis was “MULTIFUNCTIONAL MOLECULES AND

## MATERIALS: CHALLENGES AND PROMISES FOR FUTURE BIOMEDICINE AND FOR GREEN-CHEMISTRY”.

During his three years of research activity, Dr. Rizzi focused on the development of chitosan-based advanced biomaterials for applications in various fields ranging from biomedicine to environmental application. More specifically, dr. Rizzi carefully studied and successfully modified Chitosan films in order (i) to obtain antimicrobial chitosan-based films for application in antibacterial photodynamic therapy, APDT, (in the field of active food packaging, using photosynthetic pigments, as active agents), (ii) to remove textile dyes from wastewater and (iii) to develop a solid state hybrid biodevice chitosan/thiothymidine-based for the detection of Reactive Oxygen Species, ROS, in turn generated during the photodynamic action of appropriate photosensitizers.

Dr. Rizzi also spent part of his final year of research (from April to July) in the Prof. Luisa De Cola’s laboratories, at the Institut de Science et d’Ingénierie Supramoléculaires (ISIS) of Strasbourg University (France), under the direct supervision of Prof. De Cola and Dr. Eko Adi Prasetyanto, being involved in the characterization and application of a particular type of material in the removal of pollutants (textile dyes and emerging contaminants). These materials have shown high efficiency in the pollutant removal from wastewater and the activity was submitted for publication. After the doctoral research activity, Dr. Rizzi continued his research focusing in environmental studies, winning a research grant within the research program “Caratterizzazione chimico-fisica e photocatalitica di nanomateriali per applicazioni in edilizia ed automotive” Project: “NANOAPULIA – NANO photocatalizzatori per un’atmosfera più pulita CUP: B38C14000510008” Sector: CHIM/02, at University of Bari, Dep. of Chemistry under the supervision of Prof. Pinalysa Cosma. The investigation was focused both on the use of chitosan supported nanostructured photocatalyst for photodegradation of aqueous pollutant, and on the utilization of food waste materials (such as olive pomace, pistachio shell powder, and so on) or synthetic hydrogel as adsorption materials for contaminant removal.

During his research activity, Dr. Rizzi has demonstrated remarkable versatility in the complementary and integrated use of a number of experimental techniques for microscopic, morphological, spectroscopic, chemical and structural characterization of materials. Moreover, Dr. Rizzi has shown a great talent and independence in research activity, besides a great ability in group work, being able to follow as tutor young students during their thesis work and also in teaching labs.

On the basis of the interesting and original results of his studies, several works were published in major international journals and presented in various congresses of national and international

importance. In particular, Dr. Vito Rizzi was authors of several publications related to the dye removal from wastewater presenting innovation and novel strategies for green environmental applications. This activity was supported by the European "DYES4EVER" project (Demonstration of cyclodextrin techniques in treatment of waste water in textile industry to recover and reuse textile dyes), [LIFE12 ENV/ES/000309] within the LIFE+2012 program "Environment Policy and Governance project application". In this context Dr. Rizzi was involved in several activities writing report for this project.

**Languages:** Mother language: Italian

Other languages: English – very good reading; very good writing; very good verbal skills.  
French – very good reading; very good writing; very good verbal skills.

**Social and organisational skills and competences**

- Great propensity to team work
- Relational skills and inclination towards multi-ethnic and multi-cultural exchanges
- Resolution in achievement of fixed targets

**Informatic skills and competences**

- Operating Systems: Windows 7, XP, 2000
- Applications: Office, Origin, Sigma Plot, Matlab, Fortran, Kaledagraph.
- Internet: Explorer, Mozilla Firefox, Google Chrome.

**Technical skills and competences**

- Photosynthetic materials (natural pigments)
- probe to detect singlet oxygen and ROS
- UV-Vis, FTIR, Fluorescence Spectroscopy.
- Thin Layer Chromatography (TLC)
- Atomic Force Microscopy (AFM)
- Electro spray ionization mass spectrometry (ESI-MS)
- Cyclic voltammetry (CV)
- Nanomaterials: green synthesis
- Green chemistry: removal of pollutants (emerging pollutants and dyes) from wastewater using low cost and bio-based materials
- Photodynamic and photothermal therapies for cancer cells

**Assistant activity at University of Bari, Dep. Chemistry:** from January 2013, Dr. Vito Rizzi supported the teaching activities of Prof. Pinalysa Cosma (Associate Professor at University of Bari, Dep of Chemistry) as tutor for the following courses: "Laboratorio di Chimica-Fisica 1" and "Laboratorio di metodologie chimico-fisiche per i sistemi complessi" for the Degree in Chemistry (3+2 years)

**2015-2017:** Invited peer reviewer of the following International journals: American Chemical

Science Journal, Journal of Basic and Applied Research international, Journal of Applied Chemical Science International, Journal of Advances in Medical and Pharmaceutical Scienc, British Biotechnology Journal, British Journal of applied Science & Technology, Journal of Global ecology and environment, Journal of physical science, Plasma Processes and Polymers (wiley), Microbiology research journal international, Chemical Science international journal, Asian Journal of chemical science, International research journal of pure and applied chemistry, Current journal of applied science and technologies

**2017.** Certificate of excellence in reviewing awarded to Dr. Vito Rizzi in recognition of an outstanding contribution to the quality of journal: "*Chemical science international and journal*"

**2017.** Certificate of excellence in reviewing awarded to Dr. Vito Rizzi in recognition of an outstanding contribution to the quality of journal: "*Current journal of applied Science and technology*"

#### **Poster Award**

Longo A, **Rizzi V**, Fini P, Semeraro P, Cosma P, Franco E, García R, Ferrández M, Núñez E, Gabaldón JA, Fortea I, Pérez E, Ferrández M (2015). Removal of textile dyes from wastewater using chitosan-based ultrathin membranes. In: Advanced Materials World Congress 2015. Viking Line, Stockholm, Sweden.

**2013-2017:** Laboratory Tutor for undergraduate students at dep. Chemistry (University of Bari)

**2014-2017:** Advisor for undergraduate students (dep. Chemistry, University of Bari)

#### **Publications (2014-2018)**

1. Andrea Petrella, Danilo Spasiano, Pasquale Acquafridda, Nicoletta De Vistro, Ezio Ranieri, Pinalysa Cosma, **Vito Rizzi**, Valentina Petruzzelli, Domenico Petruzzelli. Heavy metals retention (Pb(II), Cd(II), Ni(II)) from single and multimetal solutions by natural biosorbents from the olive oil milling operations. Process Safety and Environmental Protection 114 (2018) 79–90
2. Paola Semeraro, Guglielmina Chimienti, Emiliano Altamura, Paola Fini, **Vito Rizzi**, Pinalysa Cosma. Chlorophyll a in cyclodextrin supramolecular complexes as a natural photosensitizer for photodynamic therapy (PDT) applications. Materials Science & Engineering C 85 (2018) 47–56

3. **Vito Rizzi**, Davide Vurro, Tiziana Placido, Paola Fini, Andrea Petrella, Paola Semeraro and Pinalysa Cosma. Gold-Chlorophyll *a*-hybrid nanoparticles and Chlorophyll *a*/cetyltrimethylammonium chloride self-assembled-suprastructures as novel carriers for Chlorophyll *a* delivery in water medium: Photoactivity and photostability. *Colloids and Surfaces B: Biointerfaces* 161 (2018) 555–562
4. **Vito Rizzi**, Alessandra Longo, Tiziana Placido, Paola Fini, Jennifer Gubitosa, Teresa Sibillano, Cinzia Giannini, Paola Semeraro, Esther Franco, Marcela Ferrandiz and Pinalysa Cosma: A comprehensive investigation of chitosan/dyes blended films for green chemistry applications. *Journal of Applied Polymer Science*. 2018, 135, 45945.
5. Paola Semeraro, Josè Antonio Gabaldon, Paola Fini, Estrella Nunez, José Antonio Pellicer, **Vito Rizzi** and Pinalysa CosmaRemoval of an azo textile dye from wastewater by cyclodextrin-epichlorohydrin polymers. BOOK EDITOR: Poonam Arora, InTechOpen
6. Ilaria Trizio, **Vito Rizzi**, Roberto Gristina, Eloisa Sardella, Pinalysa Cosma, Edda Franciosi, Thomas von Woedtke, Pietro Favia. Plasma generated RONS in cell culture medium for in vitro studies of eukaryotic cells on Tissue Engineering scaffolds *Plasma Process Polym.* 2017;e1700014
7. **Vito Rizzi**, Francesco D'Agostino, Jennifer Gubitosa, Paola Fini, Andrea Petrella, Angela Agostiano, Paola Semeraro and Pinalysa Cosma. An Alternative Use of Olive Pomace as a Wide-Ranging Bioremediation Strategy to Adsorb and Recover Disperse Orange and Disperse Red Industrial Dyes from Wastewater Separations 2017, 4, 29, doi:10.3390/separations4040029
8. Andrea Petrella, Pinalysa Cosma, **Vito Rizzi** and Nicoletta De Vietro. Porous Alumosilicate Aggregate as Lead Ion Sorbent in Wastewater Treatments. *Separations* 2017, 4, 25; doi:10.3390/separations4030025
9. **Vito Rizzi**, Chiara Mongiovi, Paola Fini, Andrea Petrella, Paola Semeraro, Pinalysa Cosma. Operational parameters affecting the removal and recycling of direct blue industrial dye from wastewater using bleached oil mill waste as alternative adsorbent material. *International Journal of Environment, Agriculture and Biotechnology (IJEAB)* 2(4), 2017, <http://dx.doi.org/10.22161/ijeab/2.4.15> ISSN: 2456-1878
10. **Vito Rizzi**, Francesco D'Agostino, Paola Fini, Paola Semeraro, Pinalysa Cosma. An interesting environmental friendly cleanup: The excellent potential of olive pomace for disperse blue adsorption/desorption from wastewater. *Dyes and Pigments* 140 (2017) 480-490
11. Paola Semeraro, Paola Fini, Marinella D'Addabbo, **Vito Rizzi**, Pinalysa Cosma. Removal from wastewater and recycling of azo textile dyes by alginate-chitosan beads. *International Journal of Environment, Agriculture and Biotechnology(IJEAB)* Vol-2, Issue-4, July-Aug-2017 <http://dx.doi.org/10.22161/ijeab/2.4.15> ISSN: 2456-1878
12. **Vito Rizzi**, Sergio Matera, Paola Semeraro, Paola Fini, Pinalysa Cosma: Interactions between 4-thiotymidine and water-soluble cyclodextrins: Evidence for supramolecular structures in aqueous solutions. *Beilstein J. Org. Chem.* 12(2016) 549-563

13. **Vito Rizzi**, Paola Fini, Paola Semeraro, Pinalysa Cosma: Detailed Investigation of ROS arisen from Chlorophyll a/Chitosan based-biofilm. *Colloids and Surfaces B: Biointerfaces* 142 (2016) 239-247
14. **Vito Rizzi**, Paola Fini, Fiorenza Fanelli, Tiziana Placido, Paola Semeraro, Teresa Sibillano, Aurore Fraix, Salvatore Sortino, Angela Agostiano, Cinzia Giannini, Pinalysa Cosma: Molecular interactions, characterization and photoactivity of Chlorophyll a/Chitosan/2-HP- $\beta$ -Cyclodextrin composite films as functional and active surfaces for ROS production. *Food Hydrocolloids* 58 (2016) 98-112
15. Ilaria Trizio, Eloisa Sardella, **Vito Rizzi**, Giorgio Dilecce, Pinalysa Cosma, Michael Schmidt, Thomas von Woedtke, Roberto Gristina, Pietro Favia: Characterization of RONS produced in PBS and DMEM by air DBD plasma treatments. *Plasma Medicine* 6(1), (2016) 13-19
16. Miriana Durante, Marcello Salvatore Lenucci, Pier Paolo Marrese, **Vito Rizzi**, Monica De Caroli, Gabriella Piro, Paola Fini, Gian Luigi Russo, Giovanni Mita:  $\alpha$ -Cyclodextrin encapsulation of supercritical CO<sub>2</sub> extracted oleoresins from different plant matrices: A stability study. *Food Chemistry* 199 (2016) 684-693
17. Ilaria Trizio, Eloisa Sardella, **Vito Rizzi**, Giorgio Dilecce, Pinalysa Cosma, Michael Schmidt, Thomas von Woedtke, Roberto Gristina, Pietro Favia. Investigation of air-DBD effects on biological liquids for in vitro studies on eukaryotic cells,. *Clinical PlasmaMedicine* 3(2015)62-71
18. **Vito Rizzi**, Ilario Losito, Andrea Ventrella, Paola Fini, Aurore Fraix, Salvatore Sortino, Angela Agostiano, Francesco Longobardi, Pinalysa Cosma: Rose Bengal-photosensitized oxidation of 4-thiothymidine in aqueous medium: evidence for the reaction of the nucleoside with singlet state oxygen. *Phys.Chem.Chem.Phys.*, 17(2015) 26307-26319
19. Paola Semeraro, **Vito Rizzi**, Paola Fini, Sergio Matera, Pinalysa Cosma, Esther Franco, Rocío García, Marcela Ferrández, Estrella Núñez, José Antonio Gabaldón, Isabel Fortea, Enrique Pérez, Miguel Ferrández: Interaction between industrial textile dyes and cyclodextrins. *Dyes and Pigments* 119 (2015)84-94
20. **Vito Rizzi**, Ilario Losito, Andrea Ventrella, Angela Agostiano, Paola Fini, Francesco Longobardi, Pinalysa Cosma: pH-related features and photostability of 4-thiothymidine in aqueous solution: an investigation by UV-Visible, NMR and FTIR-ATR spectroscopies and by Electrospray Ionization Mass Spectrometry. *RSC Adv.*, 4(2014) 48804-48814
21. **Vito Rizzi**, Alessandra Longo, Paola Fini, Paola Semeraro, Pinalysa Cosma, Esther Franco, Rocío García, Marcela Ferrández, Estrella Núñez, José Antonio Gabaldón, Isabel Fortea, Enrique Pérez, Miguel Ferrández: Applicative Study (Part I): The Excellent Conditions to Remove in Batch Direct Textile Dyes (Direct Red, Direct Blue and Direct Yellow) from Aqueous Solutions by Adsorption Processes on Low-Cost Chitosan Films under Different Conditions. *Advances in Chemical Engineering and Science*, 4(2014) 454-469

### **Oral contributes for National and International congresses**

#### **Year 2017:**

1. J. Gubitosa, **V. Rizzi**, P. Fini, A. Petrella, F. Fanelli, A. Agostiano, M. Perrone, I. Arduino, A. Lopedota, P. Cosma. Green synthesis of gold nanoparticles using Punica Granatum Juice for cosmetic applications. XXVI Congresso Nazionale della Società Chimica Italiana, Paestum (SA), 10-14 Settembre 2017.
2. **V. Rizzi**, M. A. Ricci, E. Altamura, P. Fini, S. Sortino, A. Fraix, P. Semeraro, L. De Cola, E. A. Prasetyanto, P. Cosma. Supramolecular Self-Assembly of Chlorophyll A and Mesoporous Silica Nanoparticles in Water . XXVI Congresso Nazionale della Società Chimica Italiana, Paestum (SA), 10-14 Settembre 2017.
3. P. Semeraro, J. A. Gabaldón, P. Fini, J. A. Pellicer, **V. Rizzi**, A. Longo, E. Núñez, P. Cosma. Removal of an azo textile dye from wastewater using cyclodextrin-epichlorohydrin polymers. XXVI Congresso Nazionale della Società Chimica Italiana, Paestum (SA), 10-14 Settembre 2017.

#### **Year 2016:**

1. **Rizzi V**, Fini P, Fanelli F, Placido T, Sibillano T, Fraix A, Sortino S, Agostiano A, Giannini C, Semeraro P, Cosma P (2016), Photoactive chitosan films, Joint Congress of the French and Italian Photochemists and Photobiologists 19 - 22 September, 2016 – Bari (Italy).
2. Trizio I, Gristina R, Sardella E, **Rizzi V**, Cosma P, Von Woedtke T, Favia P. DBD-generated RONS in biological liquids for 2D and 3D in vitro studies on eukaryotic cells, 6th International Conference on plasma medicine, ICPM 6, 4-9 Settembre 2016, Bratislava, Slovakia
3. Miriana Durante, Marcello Salvatore Lenucci, Pier Paolo Marrese, **Vito Rizzi**, Monica De Caroli, Gabriella Piro, Paola Fini, Giovanni Mita, Encapsulation in cyclodextrins of pumpkin and tomato oleoresins extracted by supercritical CO<sub>2</sub>. 8<sup>th</sup> congress, Pigments in food, 28<sup>th</sup> june-1<sup>st</sup> July, 2016, Cluj Napoca, Romania

#### **Year 2015:**

1. Fini P, Semeraro P, **Rizzi V**, Agostiano A, Franco E, García R, Ferrández M, Núñez E, Gabaldón J A, Fortea I, Pérez E, Ferrández M, Cosma P. (2015). DYEST4EVER – Utilizzo

delle ciclodestrine nel trattamento delle acque reflue dell'industria tessile per il recupero e il riutilizzo dei coloranti tessili. In: Istituto per i Processi Chimico Fisici – Congresso 2015- CNR, Sant'Alessio Siculo (Me), 4-6 ottobre 2015

2. **Rizzi V**, Paola Fini P, Fiorenza Fanelli F, Placido T, Sibillano T, Angela Agostiano A, Giannini C, Semeraro P, Cosma P (2015). Insertion of photoactive chlorophyll- $\alpha$  on chitosan-based biofilms opening new horizon in antimicrobial food packaging. In: Advanced Materials World Congress 2015. Viking Line, Stockholm, Sweden.. Stockholm, Sweden., 23-26 Agosto 2015
3. **Rizzi V**, Losito I, Ventrella I, Fini P, Semeraro A, Agostiano A, Longobardi F, Cosma P (2015). Rational Design of a Nucleoside-based Probe for Singlet State Oxygen Detection: Photostability and Mechanism of Reaction. In: Società Italiana di FotoBiologia – Congresso 2015 – Photomedicine. Bari, 11-13 Giugno 2015
4. Semeraro P, Fini P, Chimienti G A, Gargano M F, Altamura E, **Rizzi V**, Agostiano A, Cosma P (2015). In vitro studies of Chl a/CDs systems for PDT applications. In: Società Italiana di FotoBiologia – Congresso 2015 – Photomedicine. Bari, 11-13 giugno 2015
5. **Rizzi V**, losito I, Ventrella A, Fini P, Semeraro P, Agostiano A, Longobardi F, Cosma P. (2015). ADVANCED CHITOSAN/NUCLEOSIDE HYBRID BIODEVICES: CHALLANGES AND PROMISES FOR THE DETECTION OF ROS. In: International Conference on Applied Mineralogy and and Advanced Materials. Castellaneta Marina (Taranto), 7-12 Giugno 2015
6. Semeraro P, Fini P, **Rizzi V**, Agostiano A, Cosma P (2015). DECOLOURATION OF TEXTILE INDUSTRIAL WASTEWATER IN PRESENCE OF ALGINATE CHITOSAN MICROPARTICLES. In: International Conference on Applied Mineralogy and and Advanced Materials. Catellaneta Marina (Taranto), 7-12 Giugno 2015

#### Year 2014:

1. **Rizzi V**, Losito I, Ventrella A, Fini P, Semeraro P, Agostiano A, Longobardi F, Cosma P. (2014). A comprehensive investigation of 4-thiothymidine behavior in an aqueous solution by spectroscopic and mass spectrometry techniques. In: Italian Photochemistry Meeting 2014. Cascina Caremma, Abiategrasso (BE), 27/11/2014
2. Semeraro P, Fini P, **Rizzi V**, Agostiano A, Cosma P, Franco E, Gracia R, Ferrández M, Nuñez E, Gabaldón JA, Forte I, Pérez E, Ferrández M (2014). Interaction between cyclodextrins (CDs) and textile dyes. XXV Congresso della Società chimica Italiana. SCI-2014. Arcavacata di Rende, 7-12 Settembre 2014
3. **Rizzi V**, Losito I, Ventrella A, Fini P, Semeraro P, Agostiano A, Longobardi F, Cosma P (2014). pH-related features and photostability of 4-thiothymidine in aqueous solution: an

investigation by UV-Visible, NMR and FTIR-ATR spectroscopies and by Electrospray Ionization Mass Spectrometry. In: XXV Congresso della Società chimica Italiana. SCI-2014. Arcavacata di Rende, 7-12 Settembre 2014

**Poster presentation at National and International congresses/schools**

**Year 2017:**

1. Paola Semeraro, Guglielmina Chimienti, Emiliano Altamura, Paola Finic, **Vito Rizzi**, Pinalysa Cosma. Supramolecular complexes based on Chlorophyll a/Cyclodextrins for Photodynamic Therapy (PDT) applications. XXVI Congresso Nazionale della Società Chimica Italiana, Paestum (SA), 10-14 Settembre 2017.
2. **Jennifer Gubitosa, Vito Rizzi**, Angela Lopedota, Paola Fini, Andrea Petrella, Nunzio Denora, Valentino Laquintana, Pinalysa Cosma. A novel Antioxidant gold nanoparticles to enhance the sun protection factor for cosmetic applications School of Nanomedicine 2017 – Bari, 11st -13th October 2017
3. **Vito Rizzi**, Federica Fiorini, Eko Adi Prasetyanto, Paola Fini, Paola Semeraro, Angela Agostiano, Luisa De Cola, Pinalysa Cosma. An innovative application of polyamidoamine-based hydrogel for removal of blue and red dyes from wastewater. XXVI Congresso Nazionale della Società Chimica Italiana, Paestum (SA), 10-14 Settembre 2017.
4. **Vito Rizzi**, Francesco D'Agostino, Paola Fini, Andrea Petrella, Paola Semeraro, Angela Agostiano, Pinalysa Cosma. Olive pomace as a wide-ranging bioremediation strategy to adsorb and recover dangerous disperse industrial dyes from wastewater. XXVI Congresso Nazionale della Società Chimica Italiana, Paestum (SA), 10-14 Settembre 2017.
5. **Vito Rizzi**, Sonia Scianatico, Andrea Petrella, Paola Semeraro, Paola Fini, Pinalysa Cosma. Novel Approaches To Remove And Recover Tetracycline From Wastewater. XXVI Congresso Nazionale della Società Chimica Italiana, Paestum (SA), 10-14 Settembre 2017.

**Year 2015:**

1. **Rizzi V**, Placido T, Fini P, Semeraro P, Comparelli R, Agostiano A, Cosma P (2015). Gold nanoparticles and chlorophyll a: Suprastructures in aqueous solutions. In: School of Nanomedicine 2015, INSTM, Bari, Italy..School of Nanomedicine 2015, INSTM, Bari, Italy.. Bari, Italy., 2-4 Dicembre, 2015
2. Semeraro P, Fini P, Placido T, **Rizzi V**, Agostiano A, Cosma P (2015). Study and characterization of Chlorophyll a/Alginate microparticles for Photodynamic Therapy

applications. In: School of Nanomedicine 2015, INSTM, Bari, Italy. School of Nanomedicine 2015, INSTM, Bari, Italy. Bari, Italy., 2-4 Dicembre,2015

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