

# FILIPPO PARISI

## Curriculum Vitae

### General Information

Full Name	Filippo Parisi
Phone Number	040 558 2223
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Spoken Languages	Italian - English - German

### Education

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation	2008	University of Palermo	Chemistry Degree - Defended thesis: "Effects of Microstructured systems on pH oscillators"
PhD	2012	University of Trieste	Ph.D Degree in Geophysics of the Lithosphere and Geodynamics - Defended thesis: "A Bader's topological approach for the characterization of pressure induced phase transitions"
National Scientific Habilitation	2022	MIUR (Ministero dell'Istruzione e del Merito)	National Scientific Habilitation to the role of Associate Professor in the scientific field 04/A1- Geochimica, Mineralogia, Petrologia, Vulcanologia, Georisorse ed Applicazioni

### Appointments

#### Academic Appointments

Start	End	Institution	Position
2012	2014	Department of Physics and Chemistry University of Palermo (Italy)	Post Doctoral Fellow (24 months) in Analytical chemistry (Assegno di ricerca). Project title "Environmental decontamination processes. Analytical, thermodynamic and kinetic aspects"
2014	2015	Department of Physics and Chemistry University of Palermo (Italy).	Post Doctoral Fellow (12 months) in Physical Chemistry (Assegno di ricerca). Project title "Green nanomaterials for restoration and

2015	2017	Department of Physics and Chemistry University of Palermo (Italy).	conservation of Cultural Heritage” Post Doctoral Fellow (15 months) in Physical Chemistry (Assegno di ricerca). Project title “Consolidation and protection of archaeological wood by means of nanocomposites.”
2017	2018	Department of Physics and Chemistry University of Palermo (Italy).	Post Doctoral Fellow (12 months) in Physical Chemistry (Borsa di studio). Project title “Investigation and characterization of new nanomaterials for restoration and conservation of archaeological wood and paper”
2018	2019	Department of Physics and Chemistry University of Palermo (Italy).	Post Doctoral Fellow (12 months) in Physical Chemistry (Borsa di studio). Project title “Preparation and Characterization of Smart Nanomaterials”.
2020	2021	Department of Physics and Chemistry University of Palermo (Italy).	Post Doctoral Fellow (13 months) in Physical Chemistry (Borsa di studio). Project title “Characterization of Clay- based Materials for the Protection of Historical and Artistic Stone Artifacts”.
2021	2022	Department of Geosciences, University of Trieste (Italy)	Post Doctoral Fellow (12 months) in Mineralogy (Assegno di ricerca ). Project title “ The provenance in geology and archaeometry: an integrated approach between Machine Learning, mineralogy, and geochemistry.”
2022	2023	Department of Geosciences, University of Trieste (Italy)	Post Doctoral Fellow (12 months) in Mineralogy (Borsa di studio ). Project title “Characterization of phyllosilicate-based materials for environmental decontamination and drug delivery.”
2025		Department of Geosciences, University of Trieste (Italy)	Tenure Tracked Research Professor (RTT) in Mineralogy

#### Scientific stages

Start	End	Institution	Position
October 2004	November 2004	Otto-Von-Guericke University, Magdeburg (Germany).	Research stage (European Science Foundation, ESF Grant): Nonlinear chemistry in Complex Reactors: Models and experiments-Liesegang

			phenomenon in AOT-microemulsion based gel.
November 2005	December 2005	Otto-Von-Guericke University, Magdeburg (Germany).	Research stage (Vigoni Grant) : Effect of a zwitterionic surfactant on the dynamics of a pH oscillator
November 2006	December 2006	Otto-Von-Guericke University, Magdeburg (Germany).	Research stage (Vigoni Grant) : Effect of a zwitterionic surfactant on the dynamics of a pH oscillator
October 2010	March 2011	GFZ – Helmholtz Zentrum “, Potsdam (Germany)	Research stage : Synthesis and structural characterization of ringwoodite of different compositions
22 September 2016	27 September 2016	Helmholtz-Zentrum” Berlin (Germany)	Research stage : Small Angle Neutron Scattering measurements.
29 May 2017	2 June 2017	Helmholtz-Zentrum” Berlin (Germany)	Research stage : Small Angle Neutron Scattering measurements.
3 April 2018	18 April 2018	Department of Horticulture and Food Science, Faculty of Horticulture, Università di Craiova (Romania).	Invited Researcher and Lectures

### Tutorial and Teaching experience

Year	Institution	Lecture/Course
2014	Master in “Technologist for the treatment of polluted naval water” PON02_00153-2849085F STI-TAM-CUP:B68J12000290007, Distretto Sicilia Navtec. Department of Physics and Chemistry University of Palermo (Italy).	Course of “Application of clay minerals for pollutants removal”
2015	Department of Physics and Chemistry University of Palermo (Italy).	Tutorial activity in laboratory course for undergraduate chemistry students
2016	Department of Physics and Chemistry University of Palermo (Italy).	Tutorial activity in laboratory course for undergraduate chemistry students
2017	Department of Physics and Chemistry University of Palermo (Italy).	Tutorial activity in laboratory course for undergraduate chemistry students
2018	Faculty of Horticulture, Department of Horticulture and Food Science of the University of Craiova, Craiova (Romania).	Clay Materials for Environmental Applications
2021	Department of Mathematics and Geoscience, University of Trieste (Italy)	4-hour module on "Rietveld Refinement" as part of the course “Metodi spettroscopici di analisi”, Corso di laurea in Geoscienze
2022	Department of Mathematics and Geoscience, University of Trieste	4-hour module on "Clay composites for Remediation and Drug-Delivery” as part of

	(Italy).	the course “Mineralogia ambientale”, Corso di Laurea in geoscienze
2022	Tiraspol State University, Chişinău, Republic of Moldova	Montmorillonite for removal and recovery of metals and dyes
2022	Department of Mathematics and Geoscience, University of Trieste (Italy)	4-hour module on "Rietveld Refinement" as part of the course “Metodi spettroscopici di analisi”, Corso di laurea in Geoscienze.
2023	Department of Mathematics and Geoscience, University of Trieste (Italy)	8-hour module on "Clay composites for Remediation and Drug-Delivery” as part of the course “Mineralogia ambientale”, Corso di Laurea in geoscienze
2023	Faculty of Science and Education, campus Rodoc, Mostar University (Bosna-Hercegovina)	Halloysite and clay-based systems for environmental applications
2024	Department of Mathematics and Geoscience, University of Trieste (Italy)	8-hour module on "Clay composites for Remediation and Drug-Delivery” as part of the course “Mineralogia ambientale”, Corso di Laurea in geoscienze
2024	Department of Mathematics and Geoscience, University of Trieste (Italy)	7-hour module on "Rietveld Refinement" as part of the course “Metodi spettroscopici di analisi”, Corso di laurea in Geoscienze.

### Invited lectures

Date	Institution	Lecture/Course
3-19/04/2018	Department of Horticulture and Food Science, University of Craiova (Romania)	Halloysite-based composite materials for Environmental, Pharmaceutical and Cultural Heritage Applications - Clay Materials for Environmental Applications
12/04/2018	National Institute of Research-development for Laser, Plasma and Radiation Physics, Magurele, Bucharest (Romania)	Environmental Friendly Clay Nanotubes, from Structure to Applications
17/04/2018	Faculty of Horticulture, Department of Horticulture and Food Science of the University of Craiova, Craiova (Romania).	Halloysite-based composite materials for Environmental, Pharmaceutical and Cultural Heritage Applications
7/05/2019	Institute of Physical Chemistry “Ilie Murgulescu”, Romanian Academy, Bucharest (Romania).	Physical chemistry of alumino-silicate clay materials for environmental, pharmaceutical and cultural applications
10/05/2019	International conference “CATCAR28 & MoldTAC2 Conference”, Timisoara (Romania)	Functionalized aluminosilicates for environmental applications
7/6/2022	Faculty of Biology and Chemistry, Department of Chemistry of the Tiraspol State University, Chişinău, (Republic of Moldova).	Montmorillonite for removal and recovery of metals and dyes

26-29/04/2023	First International Conference of the <Croatian Ceramic Society (CRoCerS), Dubrovnik, Croatia	New insight into the oxidation process of normal spinels.
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### Participation in national and international schools

12/02/2009	"Participation in the course: ' Nuove applicazioni della spettroscopia Raman nei materiali", organized by the National Group of Mineralogy (GNM) , Parma (Italy)	
7/09/2009	Participation in the "Mineral Physics I" and "Mineral Physics II" classes taught by Prof. Ross J. Angel (Virginia Polytechnic Institute and State University) , at the University of Padova.	
27-30/09/2011	Participation at the International School "Minerals and Biosphere", organized by the GMN (Gruppo Nazionale di Mineralogia), Campiglia Marittima (Italia)	
14-16/12/2012	Participation at the "1st Winter School - Renewable Energy Systems and Green Nanotechnologies for a Clean Environment" Drobeta-Turnu Severin (Romania).	
25-28/1/2013	Participation at the Workshop "Vibrational Spectroscopy at high Pressures, organized by the research center GFZ, Potsdam (Germany)	
27/08/2013	Participation at the "Short Summer School on Thermal Analysis and Calorimetry", organized by CEC-TAC, Vilnius (Lithuania).	
26-29/10/2021	Participation at the "Practical School in electronic microscopy " , Practical and Theoretical Training Course on EDX Elemental Analysis in SEM and TEM Electron Microscopy" using: ZEISS GEMINI 300 SEM Microscope equipped with BRUKER EDX, and PHILIPS CM200 TEM Microscope equipped with OXFORD EDX, at the Department of Chemical and Pharmaceutical Sciences, University of Trieste.	
15-18/11/2022	Participation at the "Expert on Site and course for TEM CM200", TEM Electron Microscopy Course" using CM200 TEM Microscope equipped with OXFORD EDX, at the CIMA, University of Trieste.	

### Editorial activity

- Section Board Member of "Molecules" (MDPI)
- Guest Editor of "Nanomaterials" (MDPI)
- Member of the Advisory Editorial Board of "Applied Surface Science Advances" (Elsevier)
- Guest Editor of "Minerals" (MDPI)

### Memberships in organizing committees.

Date	Position
27-30/08/2013	Component of the organizing committee of "The 2nd Central and Eastern European Conference for Thermal Analysis and Calorimetry". Vilnius

	(Lithuania),
22-24/07/ 2014	Component of the organizing committee of the International Summer School “Renewable Energy Systems and Green Nanotechnologies for a Clean Environmen”. Palermo.
25-28/08/ 2015	Component of the organizing committee of “The 3nd Central and Eastern European Conference for Thermal Analysis and Calorimetry”. Lubiana (Slovenia)
13-15/11/2019	Component of the organizing committee of “East-West Chemistry Conference 2019, EWCC 2019”. Palermo

### Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title
2007	Participant (I.investigator) in the project PON03PE_00214_1 Ricerca e Competitività 2007-2013 “Nanotecnologie e nanomateriali per i beni culturali”
2007	Participant (I.investigator) in the project PON02_00153_2849085 Ricerca e competitività 2007-2013, asse 1 “Sviluppo di tecnologie innovative per il trattamento dei rifiuti liquidi della navigazione finalizzate alla tutela dell’ambiente marino”
2008	Participant (I.investigator) in the PRIN project 2008 (2008TTYSTW_003) “Studio dello stato di ossidazione e degli elementi in tracce in spinelli a Fe e Cr: implicazioni petrologiche
2010	Participant (I.investigator) in the PRIN project 2010 (2010329WPF_003) “Sostenibilità nei Beni Culturali: dalla diagnostica allo sviluppo dei sistemi innovativi di consolidamento, pulitura e protezione”
2012	Participant (I.investigator) in the project FIRB Futuro in Ricerca 2012 (codice RBFR12ETL5) “Nanotubi di argilla per la progettazione di materiali intelligenti ecosostenibili”
2018	Principal investigator of the ISCRA (Italian Super Computing Resource Allocation) Class-C project entitled " Bader's topological analysis of Halloysite nanotubes surface (BTAHNS) " approved and funded with 40,000 computing hours from the CINECA-SCAI (SuperComputing Applications and Innovation)

### Patent

Patent filed on 20/12/2017, granted on 06/03/2020. Title: "A composition comprising a cellulose nanofiber and an halloysite nanotube, a film, and a composite comprising the same" (number 102017000147691).

### Research Activities

Keywords                      Brief Description

Applied mineralogy	The research activity is developed in cooperation with researchers from Italian and International Centers and it encompasses: - environmental decontamination processes. Analytical, thermodynamic, and kinetic aspects;
Adsorption process	
Mineral Synthesis	

Single crystal XRD	- thermal analysis and calorimetry; - preparation, characterization, and exploitation of nanocomposite based on natural clay nanotubes; - chemical-physical characterization and development of materials and protocols for the consolidation of degraded Archaeological materials; - ab-initio computational studies of minerals under high pressure and high-temperature conditions; - ab-initio calculations on the interaction of minerals and organic molecules; - high pressure synthesis (diamond anvil cell) and characterization (XRD) of minerals.
Physical-chemistry	

### Summary of Scientific Achievements

Scopus Author Identifier	53880421700
Papers [international]	63
Books chapters [scientific]	4
Total Citations	2863
Hirsch (H) index	33

### Part XIV– List of publications

- 1) Gottuso, A., Parisi, F., Lenaz, D., Parrino, F. Unravelling the role of silver in addressing the nitrate radical induced photocatalytic oxidation of olefins to epoxides or carbonyl compounds (2024) Journal of Photochemistry and Photobiology A: Chemistry, 457, art. no. 115871, DOI: 10.1016/j.jphotochem.2024.115871
- 2) Parisi, F., Sciascia, L., Khlifi, H., Elsellami, L., Lenaz, D., Princivale, F., Parrino, F. Interaction of phenolic compounds with functionalized TiO<sub>2</sub>: Enhanced catechol adsorption and cooperative phenol adsorption (2024) Ceramics International, DOI: 10.1016/j.ceramint.2024.06.381
- 3) Khlifi, H., Callone, E., Parisi, F., Sciascia, L., Palmisano, L., Dirè, S., Parrino, F. Amine-stabilized boronate groups at the surface of modified TiO<sub>2</sub> under circumneutral pH conditions: Application to selective photocatalytic degradations (2023) Journal of Photochemistry and Photobiology A: Chemistry, 444, art. no. 114903, DOI: 10.1016/j.jphotochem.2023.114903
- 4) Barago, N., Mastroianni, C., Pavoni, E., Floreani, F., Parisi, F., Lenaz, D., Covelli, S. Environmental impact of potentially toxic elements on soils, sediments, waters, and air nearby an abandoned Hg-rich fahlrore mine (Mt. Avanza, Carnic Alps, NE Italy) (2023) Environmental Science and Pollution Research, 30 (23), pp. 63754-63775. DOI: 10.1007/s11356-023-26629-7
- 5) Lenaz, D., Giovanoni, S., Parrino, F., Bersani, D., Parisi, F. Maturation stages of glauconites: A combined electron microprobe, Raman, and thermogravimetric study (2023) Ceramics International, 49 (9), pp. 14927-14933. DOI: 10.1016/j.ceramint.2022.09.206
- 6) Sciascia, L., Lenaz, D., Rotaru, A., Princivale, F., Parisi, F. An innovative method for highly-efficient fabrication of carbon fiber precursors via acrylonitrile emulsion copolymerization coupled to a chemical oscillator (2023) Surfaces and Interfaces, 37, art. no. 102686, .DOI: 10.1016/j.surfin.2023.102686
- 7) Popović, B.M., Blagojević, B., Latković, D., Četojević-Simin, D., Kucharska, A.Z., Parisi, F., Lazzara, G. A one step enhanced extraction and encapsulation system of cornelian cherry (Cornus mas L.) polyphenols and iridoids with  $\beta$ -cyclodextrin (2021) LWT, 141, art. no. 110884, DOI: 10.1016/j.lwt.2021.110884

- 8) Reiss, A., Cioateră, N., Dobrițescu, A., Rotaru, M., Carabet, A.C., Parisi, F., Gănescu, A., Dăbuleanu, L., Spînu, C.I., Rotaru, P. Bioactive co(Ii), ni(ii), and cu(ii) complexes containing a tridentate sulfathiazole-based (onn) schiff base (2021) *Molecules*, 26 (10), art. no. 3062, DOI: 10.3390/molecules26103062
- 9) Lughi, V., Lenaz, D., Bonifacio, A., Princivalle, F., Sergo, V., Parisi, F.A Raman spectroscopy study of the oxidation processes in synthetic chromite FeCr<sub>2</sub>O<sub>4</sub> (2020) *Ceramics International*, 46 (18), pp. 29382-29387. DOI: 10.1016/j.ceramint.2020.07.059
- 10) Blagojević, B., Četojević-Simin, D., Parisi, F., Lazzara, G., Popović, B.M. Halloysite nanotubes as a carrier of cornelian cherry (Cornus mas L.) bioactives (2020) *LWT*, 134, art. no. 110247, DOI: 10.1016/j.lwt.2020.110247
- 11) Khelifi, H., Parisi, F., Ellselami, L., Camera-Roda, G., Palmisano, L., Ceccato, R., Parrino, F. Photocatalytic Partial Oxidation of Tyrosol: Improving the Selectivity Towards Hydroxytyrosol by Surface Fluorination of TiO<sub>2</sub> (2020) *Topics in Catalysis*, 63 (11-14), pp. 1350-1360. DOI: 10.1007/s11244-020-01287-y
- 12) Parisi, F., Bernardini, F., Cavallaro, G., Mancini, L., Milioto, S., Prokop, D., Lazzara, G. Halloysite nanotubes/pluronic nanocomposites for waterlogged archeological wood: thermal stability and X-ray microtomography (2020) *Journal of Thermal Analysis and Calorimetry*, 141 (3), pp. 981-989. DOI: 10.1007/s10973-020-09637-4
- 13) Parisi, F. Adsorption and separation of crystal violet, cerium(III) and lead(II) by means of a multi-step strategy based on K10-montmorillonite (2020) *Minerals*, 10 (5), art. no. 466, DOI: 10.3390/min10050466
- 14) Teresi, R., Marullo, S., Gambarotti, C., Parisi, F., Megna, B., Lazzara, G., D'Anna, F., Dintcheva, N.T. Improvement of oxidation resistance of polymer-based nanocomposites through sonication of carbonaceous nanoparticles (2020) *Ultrasonics Sonochemistry*, 61, art. no. 104807, DOI: 10.1016/j.ultsonch.2019.104807
- 15) Berardinelli, A., Parisi, F. TiO<sub>2</sub> in the food industry and cosmetics (2020) *Titanium Dioxide (TiO<sub>2</sub>) and Its Applications*, pp. 353-371. DOI: 10.1016/B978-0-12-819960-2.00008-0
- 16) Lisuzzo, L., Cavallaro, G., Parisi, F., Riela, S., Milioto, S., Lazzara, G. Colloidal stability and self-assembling behavior of nanoclays (2020) *Clay Nanoparticles: Properties and Applications*, pp. 95-116. DOI: 10.1016/B978-0-12-816783-0.00004-9
- 17) Massaro, M., Poma, P., Colletti, C.G., Barattucci, A., Bonaccorsi, P.M., Lazzara, G., Nicotra, G., Parisi, F., Salerno, T.M.G., Spinella, C., Riela, S. Chemical and biological evaluation of cross-linked halloysite-curcumin derivatives (2020) *Applied Clay Science*, 184, art. no. 105400, . DOI: 10.1016/j.clay.2019.105400
- 18) Parisi, F., Lazzara, G., Merli, M., Milioto, S., Princivalle, F., Sciascia, L. Simultaneous removal and recovery of metal ions and dyes from wastewater through montmorillonite clay mineral (2019) *Nanomaterials*, 9 (12), art. no. 1699, DOI: 10.3390/nano9121699
- 19) Fakhrullina, G., Khakimova, E., Akhatova, F., Lazzara, G., Parisi, F., Fakhrullin, R. Selective Antimicrobial Effects of Curcumin@Halloysite Nanoformulation: A Caenorhabditis elegans Study (2019) *ACS Applied Materials and Interfaces*, 11 (26), pp. 23050-23064. DOI: 10.1021/acsami.9b07499
- 20) Rozza, R., Armata, N., Lazzara, G., Parisi, F., Ferrante, F. Halloysite Nanotubes and Metal Corrosion Inhibitors: A Computational and Experimental Study (2019) *Journal of Physical Chemistry C*, 123 (16), pp. 10451-10461. DOI: 10.1021/acs.jpcc.9b01641
- 21) Sciascia, L., Casella, S., Cavallaro, G., Lazzara, G., Milioto, S., Princivalle, F., Parisi, F. Olive mill wastewaters decontamination based on organo-nano-clay composites (2019) *Ceramics International*, 45 (2), pp. 2751-2759. DOI: 10.1016/j.ceramint.2018.08.155
- 22) Lisuzzo, L., Cavallaro, G., Parisi, F., Milioto, S., Lazzara, G. Colloidal stability of halloysite clay nanotubes (2019) *Ceramics International*, 45 (2), pp. 2858-2865. DOI: 10.1016/j.ceramint.2018.07.289
- 23) Parisi, F., Sciascia, L., Princivalle, F., Merli, M. Pressure stability field of Mg-perovskite under deep mantle conditions: A topological approach based on Bader's analysis coupled with catastrophe theory (2019) *Ceramics International*, 45 (2), pp. 2820-2827. DOI: 10.1016/j.ceramint.2018.07.294
- 24) Cavallaro, G., Lazzara, G., Parisi, F., Milioto, S., Riela, S. Nanoclays for Conservation (2019) *Nanotechnologies and Nanomaterials for Diagnostic, Conservation and Restoration of Cultural Heritage*, pp. 149-170. DOI: 10.1016/B978-0-12-813910-3.00008-2

- 25) Lisuzzo, L., Cavallaro, G., Parisi, F., Milioto, S., Fakhrullin, R., Lazzara, G. Core/shell gel beads with embedded halloysite nanotubes for controlled drug release (2019) *Coatings*, 9 (2), art. no. 70, DOI: 10.3390/COATINGS9020070
- 26) Cavallaro, G., Lazzara, G., Parisi, F., Riela, S., Milioto, S. Nanoclays for Conservation (2018) *Nanotechnologies and Nanomaterials for Diagnostic, Conservation and Restoration of Cultural Heritage*, pp. 149-170. DOI: 10.1016/B978-0-12-813910-3.00008-2
- 27) Cavallaro, G., Lazzara, G., Lisuzzo, L., Milioto, S., Parisi, F. Filling of mater-BI with nanoclays to enhance the biofilm rigidity (2018) *Journal of Functional Biomaterials*, 9 (4), art. no. 60, DOI: 10.3390/jfb9040060
- 28) Bertolino, V., Cavallaro, G., Milioto, S., Parisi, F., Lazzara, G. Thermal properties of multilayer nanocomposites based on halloysite nanotubes and biopolymers (2018) *Journal of Composites Science*, 2 (3), art. no. 41, DOI: 10.3390/jcs2030041
- 29) Lo Dico, G., Semilia, F., Milioto, S., Parisi, F., Cavallaro, G., Inguì, G., Makaremi, M., Pasbakhsh, P., Lazzara, G. Microemulsion encapsulated into halloysite nanotubes and their applications for cleaning of a marble surface (2018) *Applied Sciences (Switzerland)*, 8 (9), art. no. 1455, DOI: 10.3390/app8091455
- 30) Cavallaro, G., Milioto, S., Parisi, F., Lazzara, G. Halloysite Nanotubes Loaded with Calcium Hydroxide: Alkaline Fillers for the Deacidification of Waterlogged Archeological Woods (2018) *ACS Applied Materials and Interfaces*, 10 (32), pp. 27355-27364. DOI: 10.1021/acsami.8b09416
- 31) Cavallaro, G., Lazzara, G., Milioto, S., Parisi, F. Halloysite Nanotubes for Cleaning, Consolidation and Protection (2018) *Chemical Record*, 18 (7), pp. 940-949. DOI: 10.1002/tcr.201700099
- 32) Lisuzzo, L., Cavallaro, G., Lazzara, G., Milioto, S., Parisi, F., Stetsyshyn, Y. Stability of halloysite, imogolite, and boron nitride nanotubes in solvent media (2018) *Applied Sciences (Switzerland)*, 8 (7), art. no. 1068, DOI: 10.3390/app8071068
- 33) Cavallaro, G., Lazzara, G., Lisuzzo, L., Milioto, S., Parisi, F. Selective adsorption of oppositely charged PNIPAAm on halloysite surfaces: A route to thermo-responsive nanocarriers (2018) *Nanotechnology*, 29 (32), art. no. 325702, DOI: 10.1088/1361-6528/aac5c3
- 34) Bertolino, V., Cavallaro, G., Lazzara, G., Milioto, S., Parisi, F. Crystallinity of block copolymer controlled by cyclodextrin (2018) *Journal of Thermal Analysis and Calorimetry*, 132 (1), pp. 191-196. DOI: 10.1007/s10973-018-6982-8
- 35) Cavallaro, G., Lazzara, G., Milioto, S., Parisi, F., Evtugyn, V., Rozhina, E., Fakhrullin, R. Nanohydrogel Formation within the Halloysite Lumen for Triggered and Sustained Release (2018) *ACS Applied Materials and Interfaces*, 10 (9), pp. 8265-8273. DOI: 10.1021/acsami.7b19361
- 36) Arrigo, R., Teresi, R., Gambarotti, C., Parisi, F., Lazzara, G., Dintcheva, N.T. Sonication-induced modification of carbon nanotubes: Effect on the rheological and thermo-oxidative behaviour of polymer-based nanocomposites (2018) *Materials*, 11 (3), art. no. 383, DOI: 10.3390/ma11030383
- 37) Massaro, M., Colletti, C.G., Buscemi, G., Cataldo, S., Guernelli, S., Lazzara, G., Liotta, L.F., Parisi, F., Pettignano, A., Riela, S. Palladium nanoparticles immobilized on halloysite nanotubes covered by a multilayer network for catalytic applications (2018) *New Journal of Chemistry*, 42 (16), pp. 13938-13947. DOI: 10.1039/c8nj02932f
- 38) Massaro, M., Colletti, C.G., Guernelli, S., Lazzara, G., Liu, M., Nicotra, G., Noto, R., Parisi, F., Pibiri, I., Spinella, C., Riela, S. Photoluminescent hybrid nanomaterials from modified halloysite nanotubes (2018) *Journal of Materials Chemistry C*, 6 (27), pp. 7377-7384. DOI: 10.1039/c8tc01424h
- 39) Bertolino, V., Cavallaro, G., Lazzara, G., Milioto, S., Parisi, F. Halloysite nanotubes sandwiched between chitosan layers: Novel bionanocomposites with multilayer structures (2018) *New Journal of Chemistry*, 42 (11), pp. 8384-8390. DOI: 10.1039/c8nj01161c
- 40) Cataldo, V.A., Cavallaro, G., Lazzara, G., Milioto, S., Parisi, F. Coffee grounds as filler for pectin: Green composites with competitive performances dependent on the UV irradiation (2017) *Carbohydrate Polymers*, 170, pp. 198-205. DOI: 10.1016/j.carbpol.2017.04.092
- 41) Cavallaro, G., Danilushkina, A.A., Evtugyn, V.G., Lazzara, G., Milioto, S., Parisi, F., Rozhina, E.V., Fakhrullin, R.F. Halloysite nanotubes: Controlled access and release by smart gates (2017) *Nanomaterials*, 7 (8), art. no. 199, DOI: 10.3390/nano7080199
- 42) Cavallaro, G., Lazzara, G., Milioto, S., Parisi, F., Ruisi, F. Nanocomposites based on esterified colophony and halloysite clay nanotubes as consolidants for waterlogged archaeological woods (2017) *Cellulose*, 24 (8), pp. 3367-3376. DOI: 10.1007/s10570-017-1369-8

- 43) Bertolino, V., Cavallaro, G., Lazzara, G., Milioto, S., Parisi, F. Biopolymer-Targeted Adsorption onto Halloysite Nanotubes in Aqueous Media (2017) *Langmuir*, 33 (13), pp. 3317-3323. DOI: 10.1021/acs.langmuir.7b00600
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