

Curriculum Vitae

Prof. Scalarone Dominique

Personal information

Full Name: Scalarone, Dominique Maria

Date of birth: 03/02/1974

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Education and current position

1998 - Master Science Degree in Chemistry cum laude

Faculty of Science, Dep. of Inorganic, Physical and Material Chemistry, University of Torino, Italy.

2001 - PhD in Chemical Sciences

Faculty of Science, Dep. of Inorganic, Physical and Material Chemistry, University of Torino, Italy. Final dissertation: "Caratterizzazione e studi di invecchiamento di materiali pittorici organici naturali e sintetici/ Characterisation and ageing behaviour of natural and synthetic organic painting materials"

2005-2018 - Ricercatore Universitario a Tempo Indeterminato RTI (Assistant Professor), Department of Chemistry, University of Torino, Italy (Academic Discipline – SSD CHIM/04 – Industrial Chemistry).

Since 2018 - Associate Professor, Department of Chemistry, University of Torino, Italy (Academic Discipline – SSD CHIM/12 – Chemistry for the Environment and for Cultural Heritage).

Research activity

Dominique Scalarone has addressed her scientific activity to the study of organic materials for applications in the Cultural Heritage field, and to the synthesis and characterization of nanostructured systems for the controlled delivery or separation of substances such as drugs or pollutants.

The research lines that have been developed over the years are:

- i. study of the ageing behaviour and mechanisms of natural and synthetic organic painting materials;
- ii. identification and characterization of structure, properties and durability of polymeric

materials in artworks;
iii. development and characterization of polymer coatings for the protection of surfaces;
iv. formulation and study of gels for the cleaning of artworks;
v. synthesis and characterization of nanostructured materials for environmental applications;
vi. synthesis and characterization of heat-responsive nanoparticles for the controlled release of active molecules.

She authored and co-authored more than 70 refereed publications including: i) research articles on international journals in the field of Chemistry (Analytical and multidisciplinary), Polymer Science, Materials Science, Heritage Science; ii) 4 book chapters published by Wiley-Scrivener, John Wiley & Sons, Siegl Publisher; iii) conference proceedings. These works have received about 1625 citations, resulting in a h-index of 25 (Scopus Source).

Scientific collaborations

Dominique Scalarone has collaborated and still collaborates with many Italian and foreign institutes and research groups, as also demonstrated by her publications and the projects in which she has participated.

Current collaborations on the identification and chemical characterization of constituent materials of works of art, and the implementation of conservation projects on cultural heritage assets: Centro Conservazione e Restauro “La Venaria Reale”, Centro per lo Studio dei Materiali per il Restauro CESMAR 7, Museo Nazionale della Scienza e della Tecnologia Leonardo da Vinci (Milano).

Current collaborations on the development and testing of materials for conservation: University of Vigo, University of Pisa, University of Bologna, Politecnico di Milano, CNR-SCITEC (Perugia), CNR-ISPC (Milano, Firenze), CNR-IAS (Genova).

Current collaborations on the development of conservation related educational tools: University of Split, Centro Conservazione e Restauro “La Venaria Reale”.

International and national projects

2022-2025 - Participation in the national project PRIN2020 “Sustainable Preservation Strategies for Street Art – SuPerStAr”. Role: coordinator of research unit.

2018-2021 - Coordination of the project “Conservation of Art in Public Spaces (CAPuS)”, Programme Erasmus Plus - Key Action 2: Cooperation for innovation and the exchange of good practices – Knowledge Alliances (Call EAC/A03/2016), Project N° 588082-EPP-A-2017-1-IT-EPPKA2-KA. Role: project coordinator.

2017-2020 - Participation in the project “Studio preliminare e sviluppo di soluzioni innovative di materiali d’attrito in ambito Automotive (N.G.P. – Nano Green Pad)”, L.R. 34/2004–Programma pluriennale Attività Produttive 2011/2015 Mis. INT2 “Contratto di insediamento” Sezione “Attrazione di investimenti in Piemonte - Grandi Imprese”. Role: researcher.

Since 2017 - Participation in the project “Interdisciplinary cross-sectoral approach to effectively address the removal of contaminants of emerging concern from water (AQUALITY)”, MSCA-ITN-2017 Grant Agreement no: 765860, funding agency: European Commission H2020-MSCA-ITN-2017. Role: training and dissemination activities.

2016-2017 - Coordination of the project “Polymer gels for cultural heritage”, Project Torino_call2014_L2_181, funding agency: CSP and University of Torino. Role: coordinator (Principal Investigator).

2014-2018 - Participation in the project “Enhancing water quality by developing novel materials for organic pollutant removal in tertiary water treatment (MAT4TREAT)”, MSCA-RISE-2014 Grant Agreement no: 645551, funding agency: European Commission H2020-MSCA-RISE-2014. Role: experienced researcher, member of the Management Team.

2015-2016 - Participation in the project “An integrated approach for the treatment of micropollutants: oxidation, membrane technologies and new adsorbing materials”, Project Torino_call2014_L2_126, funding agency: CSP and University of Torino. Role: WP leader.

2012-2014 - Participation in the project “Development of oxidic and polymeric materials for stimuli responsive applications”, project ID: ORTO114XNH, funding agency: CSP and University of Torino. Role: researcher.

2005-2008 - Participation in the Regional Project for Applied Scientific Research, Project ID: D34 - “Nanostructured polymer materials for the fabrication of membranes and functional coatings”. Role: researcher.

2003-2005 - Participation in the National Project COFIN-MIUR 2003 “New polymers and innovative methodologies for the consolidation and protection of stone materials”. Role: researcher.

Recent institutional responsibilities

Since 2021 - Member of the Department Performance Evaluation Commission, Department of Chemistry, University of Torino.

Since 2018 - Member of the Scientific Executive Board of the doctoral programme “PhD Technology Driven Sciences: Technologies for Cultural Heritage (T4C)”, which is funded under the H2020-MSCA-COFUND scheme.

2016-2018 - Member of the Department Junta, Department of Chemistry, University of Torino.

Member of various state examination commissions qualifying for the profession of restorer of cultural heritage/Esame di Stato abilitante alla professione di Restauratore di Beni Culturali.

Teaching activity

2021-today – Lecturer – Materials and Methods for Cultural Heritage (Bachelor Degree in Chemistry, University of Torino)

2019-today – Lecturer – Chemistry for Restoration (MSc Degree in Conservation and Restoration of Cultural Heritage, SUSCOR School, University of Torino)

2017-today – Lecturer – Materials for Conservation (MSc Degree in Conservation and Restoration of Cultural Heritage, SUSCOR School, University of Torino)

2011-2018 Lecturer – Polymeric Materials with Laboratory (in English) (MSc Degree in Materials Science and MaMaSELF - European Master in Materials Science, University of Torino)

2011-2018 - Lecturer – Polymer Chemistry (Bachelor Degree in Chemistry, University of Torino)

2008-2010 - Lecturer – Polymer Chemistry (Bachelor Degree in Materials Science)

2004-2009 - Lecturer – Polymers for Conservation (MSc in Science and Technology for Cultural Heritage, University of Torino)

2004-2009 - Lecturer – Degradation of Materials (MSc in Environmental Chemistry and Chemistry for Cultural Heritage, University of Torino)

Bibliometric indexes

h-index = 25 (Scopus); 25 (WoS)
 Publications: 66 (Scopus); 66 (WoS)
 Citations: 1625 (Scopus); 1515 (WoS)

Publications

Refereed articles (ISI Journals)

1. Pellis G., Bertasa M., Ricci C., Scarcella A., Croveri P., Poli T., Scalarone D., "A multi-analytical approach for precise identification of alkyd spray paints and for a better understanding of their ageing behaviour in graffiti and urban artworks", *Journal of Analytical and Applied Pyrolysis*, 2022, 165, 105576.
2. M. Bertasa, C. Canevali, A. Sansonetti, M. Lazzari, M. Malandrino, R. Simonutti, D. Scalarone, "An in-depth study on the agar gel effectiveness for built heritage cleaning", *Journal of Cultural Heritage*, 2021, 47, 12-20.
3. N. Manfreda, P. Buscaglia, P. Gallo, Paolo, M. Borla, S. Aicardi, G. Poggi, P. Baglioni, M. Nervo, D. Scalarone, A. Borghi, A. Re, L. Guidorzi, A. Lo Giudice, "An Ancient Egyptian Multilayered Polychrome Wooden Sculpture Belonging to the Museo Egizio of Torino: Characterization of Painting Materials and Design of Cleaning Processes by Means of Highly Retentive Hydrogels", *Coatings*, 2021, 11, 1335
4. C. Riedo, G. Rollo, O. Chiantore, D. Scalarone, "Detection and identification of possible gel residues on the surface of paintings after cleaning treatments", *Heritage*, 2021, 4, 304-315.
5. A. Sansonetti, M. Bertasa, C. Corti, L. Rampazzi, D. Monticelli, D. Scalarone, A. Sassella, C. Canevali, "Optimization of copper stain removal from marble through the formation of cu(li) complexes in agar gels", *Gels*, 2021, 7, 111-124.
6. Bertasa M., Ricci C., Scarcella A., Zenucchini F., Pellis G., Croveri P., Scalarone D., Overcoming challenges in street art murals conservation: a comparative study on cleaning approach and methodology, *Coatings* 2020, 10, 1019.
7. Bertasa, M., Canevali, C., Sansonetti, A., Lazzari, M., Malandrino, M., Simonutti, R., Scalarone D., An in-depth study on the agar gel effectiveness for built heritage cleaning, *Journal of Cultural Heritage* 2020 (in press).
8. Anceschi, A.; Caldera, F.; Bertasa, M.; Ceccone, C.; Trotta, F.; Bracco, P.; Zanetti, M.; Malandrino, M.; Mallon, P.E.; Scalarone, D. New Poly(β -Cyclodextrin)/Poly(Vinyl Alcohol) Electrospun Sub-Micrometric Fibers and their Potential Application for Wastewater Treatments. *Nanomaterials* 2020, 10, 482.
9. Sansonetti, A., Bertasa, M., Canevali, C., Rabbolini, A., Anzani, M., Scalarone, D., "A review in using agar gels for cleaning art surfaces", *Journal of Cultural Heritage*, 2020, 4, 285.

10. Bertasa, M., Dodero, A., Alloisio, M., Vicini, S., Riedo, C., Sansonetti, A., Scalarone, D., Castellano, M., "Agar gel strength: A correlation study between chemical composition and rheological properties", *European Polymer Journal*, 2020, 123, 109442.
11. Campanella, B., Botti, J., Cavaleri, T., Cicogna, F., Legnaioli, S., Pagnotta, S., Poggialini, F., Poli, T., Scalarone, D., Palleschi, V., "The shining brightness of daylight fluorescent pigments: Raman and SERS study of a modern class of painting materials", *Microchemical Journal*, 2020, 152, 104292.
5. M.E. Peralta, S.A. Jadhav, G. Magnacca, D. Scalarone, D.O. Mártire, M.E. Parolo, L. Carlos, "Synthesis and in vitro testing of thermoresponsive polymer-grafted core-shell magnetic mesoporous silica nanoparticles for efficient controlled and targeted drug delivery", *Journal of Colloid and Interface Science*, 2019, 544, 198-205.
6. S.A. Jadhav, V. Spalletta, D. Scalarone, "Thermally triggered on demand permeability of hybrid silica beds made of packed thermoresponsive organo-silica microparticles", *Express Polymer Letters*, 2019, 13, 84-95.
7. C. Cecone, F. Caldera, A. Anceschi, D. Scalarone, F. Trotta, P. Bracco, M. Zanetti, "One-step facile process to obtain insoluble polysaccharides fibrous mats from electrospinning of water-soluble PMDA/cyclodextrin polymer", *Journal of Applied Polymer Science*, 2018, 135, 46490.
8. Bertasa, F. Bandini, A. Felici, M.R. Lanfranchi, R. Negrotti, C. Riminesi, D. Scalarone, A. Sansonetti, "Soluble salts extraction with different thickeners: monitoring of the effects on plaster", *IOP Conference Series: Materials Science and Engineering*, 2018, 364, 012076.
9. M. Bertasa, T. Poli, C. Riedo, V. Di Tullio, D. Capitani, N. Proietti, C. Canevali, A. Sansonetti, D. Scalarone, "A study on non-bounded/bounded water and water mobility in different agar gels", *Microchemical Journal*, 2018, 139, 306-314.
10. S.A. Jadhav, D. Scalarone, "Thermoresponsive polymer grafted porous silicas as smart nanocarriers", *Australian Journal of Chemistry*, 2018, 72, 477-481.
11. S.A. Jadhav, R. Nisticò, G. Magnacca, D. Scalarone, "Packed hybrid silica nanoparticles as sorbents with thermo-switchable surface chemistry and pore size for fast extraction of environmental pollutants", *RSC Advances*, 2018, 8, 1246-1254.
12. S.A. Jadhav, G. Berlier, V. Brunella, I. Miletto, D. Scalarone, "Porous Silica Particles: Synthesis, Physicochemical Characterization and Evaluation of Suspension Stability", *Physical Chemistry: An Indian Journal*, 2017; S1:102.
13. M. Bertasa, A. Botteon, L. Brambilla, C. Riedo, O. Chiantore, T. Poli, A. Sansonetti, D. Scalarone, "Cleaning materials: A compositional multi-analytical characterization of commercial agar powders", *Journal of Analytical and Applied Pyrolysis*, 2017, 125, 310-317.
14. R. Nisticò, D. Scalarone, G. Magnacca, "Sol-gel chemistry, templating and spin-coating deposition: A combined approach to control in a simple way the porosity of inorganic thin films/coatings", *Microporous and Mesoporous Materials*, 2017, 248, 18-29.
15. S.A. Jadhav, V. Brunella, D. Scalarone, G. Berlier, "Poly(NIPAM-co-MPS)-grafted multimodal porous silica nanoparticles as reverse thermoresponsive drug delivery system", *Asian Journal of Pharmaceutical Sciences*, 2017, 12(3), 279-284.
16. S. A. Jadhav, D. Scalarone, V. Brunella, E. Ugazio, S. Sapino, G. Berlier, "Thermoresponsive copolymer-grafted SBA-15 porous silica particles for temperature-triggered topical delivery systems", *Express Polymer Letters*, 2017, 11(2), 96-105.
17. R. Nisticò, G. Magnacca, S. A. Jadhav, D. Scalarone, "Polystyrene-block-poly(ethylene oxide) copolymers as templates for stacked spherical large-mesopore silica coatings: dependence of the PS/PEO ratio versus the silica pore size", *Beilstein Journal of Nanotechnology*, 2016, 7, 1454-1460.
18. E. Ugazio, L. Gastaldia, V. Brunella, D. Scalarone, S. A. Jadhav, S. Oliaro-Bosso, D. Zonari, G. Berlier, I. Miletto, S. Sapino, "Thermoresponsive mesoporous silica nanoparticles as a carrier for skin delivery of quercetin", *International Journal of Pharmaceutics*, 2016, 511, 446-454.
19. S. A. Jadhav, V. Brunella, I. Miletto, G. Berlier, D. Scalarone, "Synthesis of poly(N-isopropylacrylamide) by distillation precipitation polymerization and quantitative grafting on mesoporous silica", *Journal of Applied Polymer Science*, 2016, Article ID 44181, 8 pages DOI: 10.1002/APP.44181C.
20. Canevali, M. Fasol, M. Bertasa, A. Botteon, A. Colombo, V. Di Tullio, D. Capitani, N. Proietti, D.

- Scalarone, A. Sansonetti, "A multi-analytical approach for the study of copper stain removal by agar gels", *Microchemical Journal*, 2016, 129, 249–258.
21. S. A. Jadhav, V. Brunella, G. Berlier, E. Ugazio, D. Scalarone, "Effect of multimodal pore channels on cargo release from mesoporous silica nanoparticles", *Journal of Nanomaterials*, vol. 2016, Article ID 1325174, 7 pages, 2016. doi:10.1155/2016/1325174.
 22. V. Brunella, S. A. Jadhav, I. Miletto, G. Berlier, E. Ugazio, S. Sapino, D. Scalarone, "Hybrid drug carriers with temperature-controlled on-off release: a simple and reliable synthesis of PNIPAM-functionalized mesoporous silica nanoparticles", *Reactive and Functional Polymers*, 2016, 98, 31–37.
 23. R. Nisticò, P. Avetta, P. Calza, D. Fabbri, G. Magnacca, D. Scalarone, "Selective porous gates made from colloidal silica nanoparticles", *Beilstein Journal of Nanotechnology*, 2015, 6, 2105–2112.
 24. S. A. Jadhav, I. Miletto, V. Brunella, G. Berlier, D. Scalarone, "Controlled post-synthesis grafting of thermoresponsive poly(N-isopropylacrylamide) on mesoporous silica nanoparticles", *Polymers for Advanced Technologies*, 2015, 26, 1070–1075.
 25. S. A. Jadhav, V. Brunella, D. Scalarone, "Polymerizable Ligands as Stabilizers for Nanoparticles", *Particle & Particle Systems Characterization*, 2015, 32, 417–428.
 26. L. Iannarelli, R. Nisticò, P. Avetta, M. Lazzari, G. Magnacca, P. Calza, D. Fabbri, D. Scalarone, "Composite membranes with hydrophilic nanopores derived from the self-assembly of block copolymer supramolecular complexes", *European Polymer Journal*, 2015, 62, 108–115.
 27. F. Trotta, F. Caldera, R. Cavalli, A. Mele, C. Punta, L. Melone, F. Castiglione, B. Rossi, M. Ferro, V. Crupi, D. Majolino, V. Venuti, D. Scalarone, "Synthesis and characterization of a hyper-branched water soluble β -cyclodextrin polymer", *Beilstein Journal of Organic Chemistry*, 2014, 10, 2586–2593.
 28. R. Nisticò, D. Scalarone, G. Magnacca, "Preparation and physico-chemical characterization of large-mesopore silica thin films templated by block copolymers for membrane technology", *Microporous and Mesoporous Materials*, 2014, 190, 208–214.
 29. C. Riedo, D. Scalarone, O. Chiantore, "Multivariate analysis of pyrolysis-GC/MS data for identification of polysaccharide binding media", *Analytical Methods*, 2013, 5 (16), 4060–4067.
 30. D. Scalarone, M. Lazzari, O. Chiantore, "Acrylic protective coatings modified with titanium dioxide nanoparticles: comparative study of stability under irradiation", *Polymer Degradation and Stability*, 2012, 97, 2136–2142.
 31. C. Yang, V. Castelvetro, D. Scalarone, S. Bianchi, Y. Zhang, "Three Different β -Cyclodextrins Direct the Emulsion Copolymerization of a Highly Fluorinated Methacrylate Towards Distinctive Nanostructured Particle Morphologies", *Journal of Polymer Science Part A: Polymer Chemistry*, 2011, 49, 4518–4530.
 32. C. Riedo, D. Scalarone, O. Chiantore, "Pyrolysis-GC/MS for the identification of macromolecular components in historical recipes", *Analytical and Bioanalytical Chemistry*, 2011, 401, 1761–1769.
 33. D. Scalarone, J. Tata, F. Caldera, M. Lazzari, O. Chiantore, "Porous and Worm-like Titanium Dioxide Nanostructures from PS-*b*-PEO Block Copolymer Micellar Solutions", *Materials Chemistry and Physics*, 2011, 128, 166–171.
 34. M. Lazzari, D. Scalarone, G. Malucelli, O. Chiantore, "Durability of acrylic films from commercial aqueous dispersion: glass transition temperature and tensile behaviour as indexes of photooxidative degradation", *Progress in Organic Coatings*, 2011, 70, 116–121.
 35. R. Ploeger, O. Chiantore, D. Scalarone, T. Poli, "Mid-Infrared Fiber-Optic Reflection Spectroscopy (FORS) Analysis of Artists' Alkyd Paints on Different Supports", *Applied Spectroscopy*, 2011, 65(4), 429–435(7).
 36. M. Lazzari, A. Ledo-Suárez, T. López, D. Scalarone, M. A. López-Quintela, "Plastic matters: proposal of an analytical procedure to evaluate the durability of contemporary works of art", *Analytical and Bioanalytical Chemistry*, 2011, 399, 2939–2948.
 37. R. Ploeger, D. Scalarone, O. Chiantore, "Non-invasive characterisation of binding media on painted glass magic lantern plates using mid-infrared fibre-optic reflectance spectroscopy", *Journal of Cultural Heritage*, 2010, 11, 35–41.
 38. C. Riedo, D. Scalarone, O. Chiantore, "Advances in identification of plant gums in cultural heritage by thermally assisted hydrolysis and methylation", *Analytical and Bioanalytical Chemistry*, 2010, 396, 1559–1569.

39. R. Ploeger, D. Scalarone, O. Chiantore, "Thermal analytical study of the oxidative stability of artists' alkyd paints", *Polymer Degradation and Stability*, 2009, 94, 2036-2041.
40. J. Tata, D. Scalarone, M. Lazzari, O. Chiantore, "Control of morphology orientation in thin films of PS-b-PEO diblock copolymers and PS-b-PEO/resorcinol molecular complexes", *European Polymer Journal*, 2009, 45, 2520-2528.
41. O. Chiantore, C. Riedo, D. Scalarone, "Gas chromatography-mass spectrometric analysis of products from on-line pyrolysis/silylation of plant gums used as binding media", *International Journal of Mass Spectrometry*, 2009, 284, 35-41.
42. M. Lazzari, D. Scalarone, C. Riedo, O. Chiantore, "Compositional analysis of fluorinated and unfluorinated acrylic copolymers", *Journal of Analytical and Applied Pyrolysis*, 2009, 85, 321-326.
43. R. Ploeger, D. Scalarone, O. Chiantore, "The characterization of commercial artists' alkyd paints", *Journal of Cultural Heritage*, 2008, 9, 412-419.
44. D. Scalarone, O. Chiantore, C. Riedo, "Gas chromatographic/mass spectrometric analysis of on-line pyrolysis-silylation products of monosaccharides", *Journal of Analytical and Applied Pyrolysis*, 2008, 83, 157-164.
45. M. Lazzari, D. Scalarone, C. Vazquez Vazquez, M.A. Lopez-Quintela, "Cylindrical micelles from the self-assembly of polyacrylonitrile-based diblock copolymers in nonpolar selective solvents", *Macromolecular Rapid Communications*, 2008, 29, 352-357.
46. D. Scalarone, M. Lazzari, V. Castelvetro, O. Chiantore, "Surface monitoring of surfactant phase separation and stability in waterborne acrylic coatings", *Chemistry of Materials*, 2007, 19, 6107-6113.
47. M. Lazzari, D. Scalarone, C. Hoppe, C. Vazquez Vazquez, M.A. Lopez-Quintela, "Tunable polyacrylonitrile-based micellar aggregates as a potential tool for the fabrication of carbon nanofibres", *Chemistry of Materials*, 2007, 19, 5818-5820.
48. D. Scalarone, M.C. Duursma, J.J. Boon, O. Chiantore, "MALDI-TOF mass spectrometry on cellulosic surfaces of fresh and photo-aged di- and triterpenoid varnish resins", *Journal of Mass Spectrometry*, 40 (2005) 1527-1535.
49. A. Piccirillo, D. Scalarone, O. Chiantore, "Comparison between off-line and on-line derivatisation methods in the characterisation of siccative oils in paint media", *Journal of Analytical and Applied Pyrolysis*, 74 (2005) 33-38.
50. O. Chiantore, Massimo Lazzari, D. Scalarone, Valter Castelvetro, Francesca Signori, "Novel partially fluorinated copolymers: evidence of the effect of fluorine on the reactivity of the unfluorinated co-monomer units", *Macromolecular Rapid Communications*, 26(2) (2005) 75-81.
51. V. Castelvetro, C. De Vita, G. Giannini, D. Scalarone, O. Chiantore, "Water-borne organic and hybrid nanostructured polymer particles as film-forming materials for the consolidation and protection of porous substrates", *Science and Technology for Cultural Heritage*, 13(1-2) (2004) 37-46.
52. D. Scalarone, O. Chiantore, "Chromatographic separation techniques in the analysis of synthetic emulsion paints", *Journal of Separation Science*, 27(4) (2004) 263-274.
53. D. Scalarone, M. Lazzari, O. Chiantore, "Ageing behaviour and pyrolytic characterisation of diterpenic resins used as art materials: Manila copal and sandarac", *Journal of Analytical and Applied Pyrolysis*, 68-69 (2003) 115-136.
54. D. Scalarone, J. van der Horst, J.J. Boon, O. Chiantore, "Direct-temperature mass spectrometric detection of volatile terpenoids and natural terpenoid polymers in fresh and artificially aged resins", *Journal of Mass Spectrometry*, 38 (2003) 607-617.
55. O. Chiantore, D. Scalarone, T.J.S. Learner, "Characterization of artists' acrylic emulsion paints", *International Journal of Polymer Analysis and Characterization*, 8(1) (2003) 67-82.
56. D. Scalarone, M. Lazzari, O. Chiantore, "Pyrolytic characterisation and ageing behaviour of diterpenic resins used as art materials: colophony and Venice turpentine", *Journal of Analytical and Applied Pyrolysis*, 64 (2002) 345-361.
57. D. Scalarone, M. Lazzari, O. Chiantore, "Thermally assisted hydrolysis and methylation-pyrolysis-gas chromatography/mass spectrometry of light-aged linseed oil", *Journal of Analytical and Applied Pyrolysis*, 58-59 (2001) 503-512.

Other refereed publications

58. Saliu, F., Riedo, C., Scalarone, D., ...Orlandi, M., Chiantore, O, Multi analytical study on Khol residues from the ancient Egyptian city of Assiut, 2020 IMEKO TC-4 International Conference on Metrology for Archaeology and Cultural Heritage, 2020, pp. 343–347.
59. V. Castelvetro, S. Bianchi, G. Giannini, M. Lucchesi, D. Pratelli, D. Scalarone, “Heterogeneous Fluorinated Latex Films With Controlled Internal Topology For Nanostructured Low-Energy Surfaces” in: PMSE Preprints, 236th ACS National Meeting, Division of Polymeric Materials: Science & Engineering, Philadelphia, USA, 2008, Publisher: PMSE Division of ACS, vol. 99, p. 792-793, (ISBN 978-1-605603-97-1).
60. O. Chiantore, D. Scalarone, “The Macro- and Micro- Assesment of Physical and Ageing Properties in Modern Paints” in Modern Paints Uncovered, eds. T. Learner, P. Smithen, J. Krueger and M. Schilling, Getty Trust Publications: J. Paul Getty Museum Los Angeles, 2007, pp. 96-104 (ISBN 978-0-89236-906-5).
61. R. Ploeger, A. Murray, S. Hesp, D. Scalarone, “Morphological changes and rates of leaching of water-soluble material from artists’ acrylic paint films during aqueous immersions” in Modern Paints Uncovered, eds. T. Learner, P. Smithen, J. Krueger and M. Schilling, Getty Trust Publications: J. Paul Getty Museum, Los Angeles, 2007, pp. 199-205, (ISBN 978-0-89236-906-5).
62. D. Scalarone, O. Chiantore, T. Learner, “Ageing studies of acrylic emulsion paints. Part II. Comparing formulations with poly(EA-co-MMA) and poly(nBA-co-MMA) binders”, Preprints ICOM Committee for Conservation 14th Triennial Meeting, The Hague, 2005, James & James/Earthscan, pp. 350-358 (ISBN 1-84407-253-3).
63. R. Ploeger, A. Murray, S. Hesp, D. Scalarone, “An investigation of the chemical changes of artists’ acrylic paint films when exposed to water”, in Materials Issues in Art and Archaeology VII, edited by Pamela B. Vandiver, Jennifer L. Mass, and Alison Murray, Mater. Res. Soc. Symp. Proc. 852, Warrendale, PA, 2005, pp. 49-56 (ISBN 1-55899-800-4).
64. D. Scalarone, O. Chiantore, “Infrared spectroscopy monitoring of surfactant phase-separation and stability in waterborne organic coatings and artists acrylic paints”, Proceedings Volume of the Sixth Infrared and Raman Users Group Conference, Il Prato Publisher, Italy, 2005, pp. 52-57 (ISBN 88-89566-07-8).
65. T. Learner, O. Chiantore, D. Scalarone, “Ageing studies on acrylic emulsion paints”, Preprints ICOM Committee for Conservation 13th Triennial Meeting, Rio de Janeiro, 2002, James & James (Science Publishers), pp. 911-919 (ISBN 1-902916-30-1).
66. O. Chiantore, D. Scalarone, A. Rava, M. Filippi, A. Pellegrino, D. Pesenti Campagnoni “On the analysis of materials, restoration practice, design and control of display conditions at the National Cinema Museum in Torino”, Preprints ICOM Committee for Conservation 13th Triennial Meeting, Rio de Janeiro, 2002, James & James (Science Publishers), pp. 903-910 (ISBN 1-902916-30-1).

Book chapters

67. D. Scalarone, P. Bracco, F. Trotta, “Self-assembled Nanoporous Membranes for Controlled Drug Release and Bioseparation” in Smart Membranes and Sensors: Synthesis, Characterization, and Applications, ed. Annarosa Gugliuzza, Wiley-Scrivener, 2014, pp. 229-254 (ISBN: 978-1-118-42379-0).
68. P. Bracco, D. Scalarone, F. Trotta, “Electrospun Membranes for Sensors Applications” in Smart Membranes and Sensors: Synthesis, Characterization, and Applications, ed. Annarosa Gugliuzza, Wiley-Scrivener, 2014, pp. 303-336 (ISBN: 978-1-118-42379-0).
69. D. Scalarone and O. Chiantore, “Py-GC/MS of Natural and Synthetic Resins” in Organic Mass Spectrometry in Art and Archaeology, eds. Maria Perla Colombini and Francesca Modugno, John Wiley & Sons, Ltd, 2009, pp. 327-361 (ISBN: 978-0-470-51703-1).
70. D. Scalarone, O. Chiantore, “The use of Pyrolysis-GC/MS for identification of the polymeric constituents in artworks, museum and collectible design objects”, in: Thea van Oosten, Yvonne Shashoua, Friederike Waentig (Eds.), Plastics in Art. History, Technology, Preservation. Siegl Publisher, München, Germany, 2002, pp. 90-104 (ISBN 3-935643-05-5).