

PERSONAL  
INFORMATION


Silvia Prati

Via Romeo Galli, 15, 47121 Forlì

0039/347/8403721

s.prati@unibo.it

<https://www.unibo.it/sitoweb/s.prati>

Sex Female | Date of birth 03/11/1975 | Nationality Italian

 ACTUAL WORKING  
POSITION

Associate Professor CHIM12 (Environmental Chemistry and Cultural Heritage) at University of Bologna, Campus of Ravenna

 EDUCATION, TRAINING,  
ABILITATION

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| 10/2020 -05/2021           | Master on Learning Coaching recognized CCE (Continuing Coach Education) by ICF (International Coach Federation)   |
| 09/2018                    | National abilitation as full professor 03/A1 ANALYTICAL CHEMISTRY   |
| 24/08/2015 -30 / 08/2015   | Neuro Science Linguistic Coaching, course recognized by the International Coach Federation as Approved Coach Specific Training, teacher: Dr. Roberto Ferrario   |
| 06/06/2010 - 09/06/2010    | Chemometry School, University of Genoa  |
| A.Y. 2009-2010             | Executive Master in Business Administration, ALMA GRADUATE SCHOOL, Bologna  |
| A.Y. 2001-02               | PhD in Environmental Sciences: protection and management of natural resources - Faculty of Mathematics, Physics and Natural Sciences - University of Bologna, Experimental thesis in Environmental Chemistry: "Environment interaction - work of art: investigation techniques of complex matrices of interest artistic and archaeological ", supervisor Prof. G. Chiavari      |
| 10/03 / 2002- / 15/03/2002 | Mass Spectrometry School for PhD students, Siena  |
| 12/1999                    | Licence to practice the profession of chemist obtained at the University of Bologna   |
| 24/06/1999                 | Degree in Chemistry, Department of Chemistry "G. Ciamician "- Faculty of Mathematical Physics and Natural Sciences - University of Bologna, Experimental Thesis in Analytical Chemistry:" Characterization of standard pictorial layers and natural dyes through analytical pyrolysis. Application to real samples ", supervisor prof. G. Chiavari, Vote: 110/110 with laudatio |
| S.Y. 1994                  | Scientific High School, Liceo Scientifico 'Fulcieri Paolucci de Calboli', Forlì   |

## RESERCH ACTIVITY

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My research activity is related to the development of advanced analytical methods for the investigation of artistic and historical objects and of innovative materials for restoration. In particular my main research field is related to the setting up of methods based on the integration between hyperspectral spectroscopic techniques and advanced data processing elaboration.

## RESERCH EXPERIENCES

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- 05/12/2016 Associate Professor CHIM12 (Environmental Chemistry and Cultural Heritage) at University of Bologna, Campus of Ravenna
- 01/11/2006 –04/12/2016 Researcher CHIM12 ( Environmental Chemistry and Cultural Heritage) at the University of Bologna, Campus of Ravenna
- 11/2006 – Participation in national and international projects with participation and coordination roles (Annex 1)  
Member of organizing and scientific committees of more than 10 national and international congresses  
Author of more than 60 publications in journals with IF (Annex 2)  
Participation in more than 80 conferences of national and international interest  
Publication in book chapters
- 2011 Guest editor of the Special Issue Analytical Chemistry in Cultural Heritage, Anal. Bioanal. Chem. (2011) 399, 9.
- 01/01/2000 – 31/10/2006 Research grant: "Interactions environment- work of art: investigations of artistic and archaeological objects", scientific responsible prof. G. Chiavari, biennial grant renewed three times
- 03/2003 Collaboration with ICCROM within the CURRIC project
- 17/09/2001–15/11/2001 Short mobility grant funded by the CNR for the project "Application of thermal desorption to the artistic field", Kings College of London (Division of Life Science) from 17 September to 15 November 2001 under the supervision of prof. S. Smith.
- 01/07/1999 – 31/12/1999 Internship at the environmental chemistry laboratory of the University of Bologna

## OTHER PROFESSIONAL EXPERIENCES

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- 04/1999 – 09 /1999 Consultant, Quality Assurance Office, soc.coop a r.l. Agrifrut Romagna, Via della Rotaia 5, Gambettola FC

## INSTITUTIONALS ROLES

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- 02/05/2020-... Delegate for the Didactic Activity, Department of Chemistry, University of Bologna
- 2017-.... Member of the didactic commission and of the council of the Department of Chemistry, University of Bologna
- 2019-.... Board member of the Italian Chemical Society, Division of Environmental Chemistry

and Cultural Heritage

- 01/2018-. Member of the Council of the International PhD Curriculum on Science and Technology for Cultural Heritage, University of Bologna
- 01/10/2016- Coordinator of the International Master Degree Course S.Co.Re (Science for Conservation and Restoration of Cultural Heritage), University of Bologna
- A.Y 2015/16 - Member of the Ravenna Campus Council
- Member of the management council for the agreement between the Nanjing University and the University of Bologna
- A.Y 2014/15 - Member of the Didactic Commission for the master degree course S.Co.Re, University of Bologna  
Member of the Quality Assurance Commission for the Master Degree S.Co.Re, University of Bologna  
Member of Quality Assurance Commission for Master Degree in Restoration, University of Bologna
- 2010-2013 Board member of the Italian Chemical Society , Division of Environmental Chemistry and Cultural Heritage

#### ACTUAL DIDACTIC ACTIVITIES

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Chemistry for Cultural Heritage, Master Degree in Restoration (6 CFU) ,  
Chemical methods of examining cultural property (6 CFU), International Master Degree on Science for the conservation -restoration of cultural heritage  
Advanced diagnostic applied to cultural heritage (4 CFU), Master Degree in Chemistry.

#### DISSEMINATION ACTIVITIES

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- 09/09/2021 Invited Lecture at the Summer School: Diagnosis in Heritage Science: 3. Focus on painting, 7-10 September 2021
- 23/11/2021 Key note at the Lorentz Workshop titled “ Green Conservation Materials for European Heritage” 22-26 November 2021

#### TRAINING ACTIVITIES

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- 01/21 Laboratory for university teachers on “Strumenti di didattica disciplinare per analizzare il coinvolgimento degli studenti in insegnamenti di servizio in ambito STEM”, two editions of 6 hours each
- 02-05/21 Training of high school teachers belonging to the STEM area on the topic “Problem Solving between Mathematics and Chemistry”

#### PERSONAL SKILL

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Mother Tongue	Italian				
Other languages	UNDEANDING		SPEAKING		WRITING
	LISTENING	READING	SPOKEN INTERACTION	SPOKEN INTERACTION	
English	C1	C1	C1	C1	C1
June 1999: 5 level diploma obtained at the British School, Bologna					
French	A2	B1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Organisational / managerial skills: Excellent skills in organizing research activities.

Social skills: Excellent skills in working in international teams

Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient	Proficient	Proficient	Proficient	Proficient

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Ravenna 07/02/2022



**ANNEX 1: LIST OF NATIONAL AND INTERNATIONAL PROJECTS**

TITLE	TYPE OF FUNDING	ROLE	PERIOD
Sustainable Preservation Strategies for Street Art - SuPerStAr	MIUR	Local coordinator	2021-
Sostenibilita' e beni culturali: green gels per la pulitura di opere d'arte".	National Funding, Fondazione Del Monte	Coordinator	2019-2020
Advanced imaging technologies for the study of works of art	Scientific and Technological Cooperation between the Ministry of Foreign Affairs and International Cooperation of the Italian Republic and the Ministry of Education, Science and Sport of the Republic of Slovenia 2018 - 2020	Coordinator	2018-2020
Erish-IT	MIUR	Vice-representative for UNIBO	2015-
IPERION: Integrated Platform for the European Research Infrastructure ON Culture Heritage, Horizon 2020	EUROPEAN, HORIZON 2020, INFRAIA-2014-2015, N. 654028	One partner-level responsible for communication (PCR), one partner-level quality officer (PQO) di UNIBO, Task leader nel WP10.3 "PhD Summer Schools"	2015-2019
CHARISMA: Cultural Heritage Advanced Research Infrastructures: Synergy for a Multidisciplinary Approach to Conservation/Restoration,	EUROPEAN, FP7 INFRASTRUCTURE n.228330	2nd Representative di UNIBO	2009-2014
EU-CHIC, Cultural Heritage Identity Card	EUROPEAN, FP7-ENV-2008-1	2nd Representative di UNIBO	2009-2012
Episcon, European PhD in science for conservation	EUROPEAN, FP6-MOB	Lectures, co-supervisor	2007-2010
Setting up of diagnostic methodologies for the stratigraphical characterisation and spatial location of the organic components in artistic and archaeological polychrome works of art	NATIONAL, PRIN 2008	Vice representative	2010-2012

## ANNEX 2: LIST OF PUBLICATION

	TITLE	IF
1.	Piarulli, S., Malegori, C., Grasselli, F., Airoidi, L., Prati, S., Mazzeo, R., Sciutto, G., Oliveri, P., An effective strategy for the monitoring of microplastics in complex aquatic matrices: Exploiting the potential of near infrared hyperspectral imaging (NIR-HSI) (2022) Chemosphere, 286, art. no. 131861.	7.086
2.	Vannucci, G., Cañamares, M.V., Prati, S., Sanchez-Cortes, S., Analysis of the tautomeric equilibrium of two red monoazo dyes by UV-Visible, Raman and SERS spectroscopies (2021) Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 261, art. no. 120007	4.098
3.	Jia, Y., Sciutto, G., Botteon, A., Conti, C., Focarete, M.L., Gualandi, C., Samorì, C., Prati, S., Mazzeo, R., Deep eutectic solvent and agar: a new green gel to remove proteinaceous-based varnishes from paintings (2021) Journal of Cultural Heritage, 51, pp. 138-144.	2.955
4.	Lugli, F., Sciutto, G., Oliveri, P., Malegori, C., Prati, S., Gatti, L., Silvestrini, S., Romandini, M., Catelli, E., Casale, M., Talamo, S., Iacumin, P., Benazzi, S., Mazzeo, R., Near-infrared hyperspectral imaging (NIR-HSI) and normalized difference image (NDI) data processing: An advanced method to map collagen in archaeological bones (2021) Talanta, 226, art. no. 122126.	6.057
5.	Piarulli, S., Sciutto, G., Oliveri, P., Malegori, C., Prati, S., Mazzeo, R., Airoidi, L.; Rapid and direct detection of small microplastics in aquatic samples by a new near infrared hyperspectral imaging (NIR-HSI) method (2020) Chemosphere, 260, art. no. 127655	7.086
6.	Botteon, A., Yiming, J., Prati, S., Sciutto, G., Realini, M., Colombo, C., Castiglioni, C., Matousek, P., Conti, C. Non-invasive characterisation of molecular diffusion of agent into turbid matrix using micro-SORS (2020) Talanta, 218, art. no. 121078	6.057
7.	Catelli, E., Sciutto, G., Prati, S., Chavez Lozano, M.V., Gatti, L., Lugli, F., Silvestrini, S., Benazzi, S., Genorini, E., Mazzeo, R. A new miniaturised short-wave infrared (SWIR) spectrometer for on-site cultural heritage investigations (2020) Talanta, 218, art. no. 121112.	6.057

	TITLE	IF
8.	Jia, Y., Sciutto, G., Mazzeo, R., Samorì, C., Focarete, M.L., <u>Prati, S.</u> , Gualandi, C. Organogel Coupled with Microstructured Electrospun Polymeric Nonwovens for the Effective Cleaning of Sensitive Surfaces (2020) ACS Applied Materials and Interfaces, 12 (35), pp. 39620-39629.	9.229
9.	Sciutto, G., Legrand, S., Catelli, E., Prati, S., Malegori, C., Oliveri, P., Janssens, K., Mazzeo, R. Macroscopic mid-FTIR mapping and clustering-based automated data-reduction: An advanced diagnostic tool for in situ investigations of artworks (2020) Talanta, 209, art. no. 120575	6.057
10.	Yiming, J., Sciutto, G., Prati, S., Catelli, E., Galeotti, M., Porcinai, S., Mazzocchetti, L., Samorì, C., Galletti, P., Giorgini, L., Tagliavini, E., Mazzeo, R. A new bio-based organogel for the removal of wax coating from indoor bronze surfaces (2019) Heritage Science, 7 (1), art. no. 34	2.24
11.	Piarulli, S., Scapinello, S., Comandini, P., Magnusson, K., Granberg, M., Wong, J.X.W., Sciutto, G., Prati, S., Mazzeo, R., Booth, A.M., Airoidi, L. Microplastic in wild populations of the omnivorous crab <i>Carcinus aestuarii</i> : A review and a regional-scale test of extraction methods, including microfibres (2019) Environmental Pollution, 251, pp. 117-127.	5.714
12.	Catelli, E., Sciutto, G., Prati, S., Mazzeo, R., Mid-infrared macroscopic mapping and hyperspectral imaging: State-of-the-art and new perspectives for non-invasive in-situ investigation of artworks(2019) Proceedings of SPIE - The International Society for Optical Engineering, 11058, art. no. 110580R, .	0.500
13.	Quintero Balbas, D., Prati, S., Sciutto, G., Catelli, E., Mazzeo, R., Thin-layer chromatography/metal underlayer-ATR FTIR methodology for the study of synthetic dyes extracted from degraded wool fibres (2019) New Journal of Chemistry, 43 (24), pp. 9411-9419.	3.201
14.	<u>Prati, S.</u> , Sciutto, G., Volpi, F., Rehorn, C., Vurro, R., Blümich, B., Mazzocchetti, L., Giorgini, L., Samorì, C., Galletti, P., Tagliavini, E., Mazzeo, R., Cleaning oil paintings: NMR relaxometry and SPME to evaluate the effects of green solvents and innovative green gels (2019) New Journal of Chemistry, 43 (21), pp. 8229-8238.	3.201

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15.	Mazzuca, C., Carbone, M., Cancelliere, R., Prati, S., Sciutto, G., Mazzeo, R., Tositti, L., Regazzi, R., Mostacci, D., Micheli, L. A new analytical approach to characterize the effect of $\gamma$ -ray sterilization on wood (2018) <i>Microchemical Journal</i> , 143, pp. 493-502.	2.746
16.	Stacey, R.J., Dyer, J., Mussell, C., Lluveras-Tenorio, A., Colombini, M.P., Duce, C., La Nasa, J., Cantisani, E., Prati, S., Sciutto, G., Mazzeo, R., Sotiropoulou, S., Rosi, F., Miliani, C., Cartechini, L., Mazurek, J., Schilling, M., Ancient encaustic: An experimental exploration of technology, ageing behaviour and approaches to analytical investigation (2018) <i>Microchemical Journal</i> , 138, pp. 472-487.	2.746
17.	Mazzuca, C., Carbone, M., Cancelliere, R., Prati, S., Sciutto, G., Mazzeo, R., Tositti, L., Regazzi, R., Mostacci, D., Micheli, L. A new analytical approach to characterize the effect of $\gamma$ -ray sterilization on wood (2018) <i>Microchemical Journal</i> , 143, pp. 493-502.	2.746
18.	Di Tullio, V., Sciutto, G., Proietti, N., Prati, S., Mazzeo, R., Colombo, C., Cantisani, E., Romè, V., Rigaglia, D., Capitani, D. 1H NMR depth profiles combined with portable and micro-analytical techniques for evaluating cleaning methods and identifying original, non-original, and degraded materials of a 16th century Italian wall painting (2018) <i>Microchemical Journal</i> , 141, pp. 40-50.	2.746
19.	Catelli, E., Sciutto, G., Prati, S., Jia, Y., Mazzeo, R. Characterization of outdoor bronze monument patinas: the potentialities of near-infrared spectroscopic analysis (2018) <i>Environmental Science and Pollution Research</i> , 25 (24), pp. 24379-24393.	2.800
20.	Sciutto, G., Zangheri, M., Anfossi, L., Guardigli, M., Prati, S., Mirasoli, M., Di Nardo, F., Baggiani, C., Mazzeo, R., Roda, A. Miniaturized Biosensors to Preserve and Monitor Cultural Heritage: from Medical to Conservation Diagnosis (2018) <i>Angewandte Chemie - International Edition</i> , 57 (25), pp. 7385-7389	12.102
21.	Sotiropoulou, S., Sciutto, G., Tenorio, A.L., Mazurek, J., Bonaduce, I., Prati, S., Mazzeo, R., Schilling, M., Colombini, M.P. Advanced analytical investigation on degradation markers in wall paintings (2018) <i>Microchemical Journal</i> , 139, pp. 278-294	2.746



	TITLE	IF
22.	Sciutto, G., Frizzi, T., Catelli, E., Aresi, N., Prati, S., Alberti, R., Mazzeo, R. From macro to micro: An advanced macro X-ray fluorescence (MA-XRF) imaging approach for the study of painted surfaces (2018) <i>Microchemical Journal</i> , 137, pp. 277-284.	2.746
23.	Prati, S., Volpi, F., Fontana, R., Galletti, P., Giorgini, L., Mazzeo, R., Mazzocchetti, L., Samorì, C., Sciutto, G., Tagliavini, E. Sustainability in art conservation: A novel bio-based organogel for the cleaning of water sensitive works of art (2018) <i>Pure and Applied Chemistry</i> , 90 (2), pp. 239-251.	5.294
24.	Bonacini, I., Gallazzi, F., Espina, A., Cañamares, M.V., Prati, S., Mazzeo, R., Sanchez-Cortes, S. Sensitive 'on the fiber' detection of synthetic organic dyes by laser photoinduced plasmonic Ag nanoparticles (2017) <i>Journal of Raman Spectroscopy</i> , 48 (7), pp. 925-934.	2.879
25.	Sciutto, G., Oliveri, P., Prati, S., Catelli, E., Bonacini, I., Mazzeo, R. A Multivariate Methodological Workflow for the Analysis of FTIR Chemical Mapping Applied on Historic Paint Stratigraphies (2017) <i>International Journal of Analytical Chemistry</i>	1.479
26.	Pinna, D., Galeotti, M., Rizzo, A., Cantisani, E., Sciutto, G., Zangheri, M., Prati, S., Mazzeo, R., Roda, A. A follow-up on the analytical study of discolouration of the marble statues of Orsanmichele in Florence (2017) <i>Environmental Science and Pollution Research</i> , 24 (1), pp. 334-352.	2.800
27.	Sciutto, G., Prati, S., Bonacini, I., Litti, L., Meneghetti, M., Mazzeo, R. A new integrated TLC/MU-ATR/SERS advanced approach for the identification of trace amounts of dyes in mixtures (2017) <i>Analytica Chimica Acta</i> , 991, pp. 104-112.	5.123
28.	Prati, S., Sciutto, G., Bonacini, I., Mazzeo, R. New Frontiers in Application of FTIR Microscopy for Characterization of Cultural Heritage Materials (2016) <i>Topics in Current Chemistry</i> , 374 (3), 26	6.184

	TITLE	IF
29.	Prati, S., Milosevic, M., Sciutto, G., Bonacini, I., Kazarian, S.G., Mazzeo, R. Analyses of trace amounts of dyes with a new enhanced sensitivity FTIR spectroscopic technique: MU-ATR (metal underlayer ATR spectroscopy)(2016) <i>Analytica Chimica Acta</i> , 941, pp. 67-79.	5.123
30.	Sciutto, G., Zangheri, M., Prati, S., Guardigli, M., Mirasoli, M., Mazzeo, R., Roda, A. Immunochemical Micro Imaging Analyses for the Detection of Proteins in Artworks (2016) <i>Topics in Current Chemistry</i> , 374 (3), 32.	6.184
31.	<u>Prati, S.</u> , Bonacini, I., Sciutto, G., Genty-Vincent, A., Cotte, M., Eveno, M., Menu, M., Mazzeo, R. ATR-FTIR microscopy in mapping mode for the study of verdigris and its secondary products (2016) <i>Applied Physics A: Materials Science and Processing</i> , 122 (1), 10, 1-16	1.604
32.	Foca, G., Ferrari, C., Ulrici, A., Sciutto, G., Prati, S., Morandi, S., Brasca, M., Lavermicocca, P., Lanteri, S., Oliveri, P. The potential of spectral and hyperspectral-imaging techniques for bacterial detection in food: A case study on lactic acid bacteria (2016) <i>Talanta</i> , 153, pp. 111-119.	4.244
33.	Lofrumento, C., <u>Prati, S.</u> , Ricci, M., Bonacini, I., Quaranta, M., Sciutto, G., Ballarin, B., Cassani, M.C., Castellucci, E., Mazzeo, R. Identification of dyes in toned and tinted XX century cinematographic films by surface enhanced Raman spectroscopy (2016) <i>Journal of Raman Spectroscopy</i> , 47 (3), pp. 337-344.	2.879
34.	Zangheri, M., Sciutto, G., Mirasoli, M., Prati, S., Mazzeo, R., Roda, A., Guardigli, M. (2016) A portable device for on site detection of chicken ovalbumin in artworks by chemiluminescent immunochemical contact imaging, <i>Microchemical Journal</i> , 124 (2229), 247-255.	2.746
35.	Trachtenberg, A Malka, O., Kootery, K.P., Beglaryan, S., Malferrari, D., Galletti, P., Prati, S., Mazzeo, R., Tagliavini, E., Jelinek, R. Colorimetric analysis of painting materials using polymer-supported polydiacetylene films (2016) <i>New Journal of Chemistry</i> , 40 (11), pp. 9054-9059.	3.201

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36.	Samorì, C., Galletti, P., Giorgini, L., Mazzeo, R., Mazzocchetti, L., Prati, S., Sciutto, G., Volpi, F., Tagliavini, E. The Green Attitude in Art Conservation: Polyhydroxybutyrate-based Gels for the Cleaning of Oil Paintings (2016) ChemistrySelect, 1 (15), pp. 4502-4508.	1.505
37.	Rovetta, T., Canevari, C., Festa, L., Licchelli, M., Prati, S., Malagodi, M. The golden age of the Neapolitan lutherie (1750–1800): new insights on the varnishes and decorations of ten historic mandolins(2014) Appl. Phys. A, 118 (1), 7-16.	1.604
38.	Bonacini, I., Prati, S., Mazzeo, R., Falini, G. (2014) Crystallization of CaCO <sub>3</sub> in the presence of ethanolamine reveals transient meso-like crystals, Cryst. Grow. Des., 14 (11), 5922-5928.	3.972
39.	Sciutto, G., Prati, S., Mazzeo, R., Zangheri, M., Roda, A., Bardini, L., Valenti, G., Rapino, S., Marcaccio, M. (2014) Localization of proteins in paint cross-sections by scanning electrochemical microscopy as an alternative immunochemical detection technique, Analytica Chimica Acta, 831, 31-37.	5.123
40.	Quaranta, M., Catelli, E., Prati, S., Sciutto, G., Mazzeo, R. (2014) Chinese archaeological artefacts: Microstructure and corrosion behaviour of high-leaded bronzes, J. Cult. Her., 15 (3), 283-291	1.706
41.	<u>Prati, S.</u> , Fuentes, D., Sciutto, G., Mazzeo, R. (2014) The use of laser pyrolysis-GC-MS for the analysis of paint cross sections, J. Anal. Appl. Pyrol., 105, 327-334.	3.648
42.	<u>Prati, S.</u> , Quaranta, M., Sciutto, G., Bonacini, I., Litti, L., Meneghetti, M., Mazzeo, R. (2014) Use of nano gold obtained by laser ablation for SEIRA analyses of colorants, Her. Sci., 2 (1).	1.580

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43.	G Sciutto, S Prati, I Bonacini, P Oliveri, R Mazzeo, FT-NIR microscopy: An advanced spectroscopic approach for the characterisation of paint cross-sections, (2014) <i>Micr. J.</i> , 112, 87-96	2.746
44.	Amadori, M.L., Barcelli, S., Casoli, A., Mazzeo, R., Prati, S. A scientific approach to the characterization of the painting materials of Fra Mattia della Robbia polychrome terracotta altarpiece (2013) <i>Applied Physics A: Materials Science and Processing</i> , 113 (4), 1055-1064	1.604
45.	Torri, C., Soragni, E., Prati, S., Fabbri, D. Py-SPME-GC-MS with on-fiber derivatization as a new solvent-less technique for the study of polar macromolecules: Application to natural gums (2013) <i>Micr. J.</i> , 110, pp. 719-725.	2.746
46.	Sciutto, G., Dolci, L.S., Guardigli, M., Zangheri, M., Prati, S., Mazzeo, R., Roda, A., Single and multiplexed immunoassays for the chemiluminescent imaging detection of animal glues in historical paint cross-sections, (2013) <i>Anal. Bioanal. Chem.</i> , 405 (2-3), pp. 933-940	3.307
47.	Sciutto, G., Litti, L., Lofrumento, C., Prati, S., Ricci, M., Gobbo, M., Roda, A., Castellucci, E., Meneghetti, M., Mazzeo, R., Alternative SERRS probes for the immunochemical localization of ovalbumin in paintings: An advanced mapping detection approach, (2013) <i>Analyst</i> , 138 (16), pp. 4532-4541	3.864
48.	<u>Prati, S.</u> , Rosi, F., Sciutto, G., Oliveri, P., Catelli, E., Miliani, C., Mazzeo, R., Evaluation of the effect of different paint cross section preparation methods on the performances of Fourier transformed infrared microscopy in total reflection mode, <i>Micr. J.</i> , 110, pp. 314-331	2.746
49.	Sciutto, G., Oliveri, P., Prati, S., Quaranta, M., Lanteri, S., Mazzeo, R., Analysis of paint cross-sections: a combined multivariate approach for the interpretation of $\mu$ ATR-FTIR hyperspectral data arrays, (2013) <i>Anal. Bioanal. Chem.</i> , 405 (2-3), pp. 625-633	3.307
50.	<u>Prati, S.</u> , Sciutto, G., Catelli, E., Ashashina, A., Mazzeo, R. (2013) Development of innovative embedding procedures for the analyses of paint cross sections in ATR FTIR microscopy <i>Anal. Bioanal. Chem.</i> , 405 (2-3), pp. 895-905	3.307
51.	Kovala-Demertzi, D., Papathanasis, L., Mazzeo, R., Demertzis, M.A., Varella, E.A., Prati, S. (2012) Pigment identification in a Greek icon by optical microscopy and infrared microspectroscopy, <i>J. Cult. Herit.</i> 13, 107-113.	1.706

	TITLE	IF
52.	Mazzeo, R., Prati, S., Quaranta, M., Sciutto, G., An overview of analytical techniques and methods for the study and preservation of artistic and archaeological bronzes (2012) ., Med. Arch.12 (2), pp. 261-271.	0.320
53.	Sciutto, G., Oliveri, P., Prati, S., Quaranta, M., Bersani, S., Mazzeo, R. (2012) An advanced multivariate approach for processing X-ray fluorescence spectral and hyperspectral data from non-invasive in situ analyses on painted surfaces , Anal Chim. Acta, 752, 30-38	5.123
54.	<u>Prati, S.</u> , Rosi,F. Sciutto, G. Mazzeo, M., Magrini,D., Sotiropoulou, S., Van Bos M. (2012) Evaluation of the effect of six different paint cross section preparation methods on the performances of Fourier Transformed Infrared microscopy in attenuated total reflection mode, Micr. J. 103, 79-89	2.746
55.	Melucci, D., Chiavari, G., Montalbani, S., Prati, S.(2011) Behaviour of phospholipids in analytical reactive pyrolysis, J. Therm. Anal. Cal., 104 (2), pp. 415-421.	2.209
56.	Mazzeo, R., Roda, A., Prati, S., (2011) Analytical chemistry for cultural heritage: a key discipline in conservation research, . Anal. Bioanal. Chem, vol 399, pp 2885-2887	3.307
57.	Samorì, C., Sciutto, G., Pezzolesi, L., Galletti, P., Guerrini, F., Mazzeo, R., Pistocchi, R., Prati, S., Tagliavini, E. (2011) Effects of imidazolium ionic liquids on growth, photosynthetic efficiency, and cellular components of the diatoms skeletonema marinoi and phaeodactylum tricornutum, Chem. Res. Toxic.,24 (3), pp. 392-401.	3.432
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