

PERSONAL INFORMATION

Armida Sodo



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Sex F | Date of birth 10/06/1974 | Nationality Italian

WORK EXPERIENCE

2018 November - now

Researcher - RTDB

Dipartimento di Scienze, Università Roma Tre, Via della Vasca Navale 84, Rome, Italy

- Responsible of Raman Spectroscopy Laboratory
- Application of Raman Spectroscopy to Thyroid cancer diagnosis
- Raman investigation of geological materials (Mn oxides)
- Raman spectroscopy applications to Cultural Heritage (management of in situ measurements, design of dedicated instrumentation, study of original art objects – drawing of Vasari, pictorial fragments from Villa della Piscina etc, - authenticity investigations of fakes from Laboratorio del Falso).
- SERS investigations on dyes
- study of nanoparticles based coatings for stone conservation

Sector University - Research

2016 January –2018 October

Post-doctoral fellow

Dipartimento di Scienze, Università Roma Tre, Via della Vasca Navale 84, Rome, Italy

- Raman spectroscopy applications to Cultural Heritage (in particular plasters, ceramic fragments, yarns and glazes); study of high temperature geological systems; design of sample holders for SERS measurements.

Sector University - Research

2010 January – 2015 December

Researcher - RTDB

Dipartimento di Scienze, Università Roma Tre, Via della Vasca Navale 84, Rome, Italy

- Research on ancient supports (parchment, paper, dyes, pigments, parchment) and on graphic media (inks, pigments, dyes): materials characterization and study of their degradation processes, by Raman, FTIR and XRF, in collaboration with the Chemistry Laboratory of Istituto centrale per il restauro e la conservazione del patrimonio archivistico e librario,
- Research on the interactions between writers and graphic media, also exploring the possibility of using other types of spectroscopic techniques (XPS - DRIFT) besides those historically used in the laboratory.
- Research on original ceramic finds (Mesoamerican estucado ceramics, ceramics from Sudan, etc.) and on laboratory standards through the use of neutron sources, Raman spectroscopy, XRD and SEM / EDS.
- Research on biological degradation processes of historical-artistic interest material, in particular study of endoliths and patinas by Raman, XRD and SEM / EDS spectroscopy.
- Characterization of mineralogical phases and gems for studies of their origin (in particular biotites and opals) by Raman spectroscopy, IR absorption, XRD and SEM / EDS.
- Responsible for Raman spectroscopy both in situ measurements and on fragments on objects of historical and artistic interest in collaboration with the ISCR (among others: preparatory drawing of the School of Athens by Raphael, bronze statues of De Chirico and Manzù, frescoes of the Domus Aurea , etc)
- Applications of Raman spectroscopy to aqueous solutions of strong acids and bases, to studies of catalytic processes, semiconductors and graphene.
- Applications of Raman spectroscopy to the study of hydration of soft contact lenses
- Didactics and scientific dissemination (university courses and thesis tutor)

Sector University - Research

In this same period I got a position, detailed in the box below, by Istituto centrale per il restauro e la conservazione del patrimonio archivistico e librario (ICRPAL).

In addition, from October 2012 to March 2013 I was on compulsory maternity leave.

- 2012 April – 2013 November **Collaboration contract on the project “Realization and Elaboration of a Raman Database of Dyes used during XX century”**
 Istituto centrale per il restauro e la conservazione del patrimonio archivistico e librario, via Milano 76 00184 Roma – Italy
- Raman spectroscopy measurements and data analyses on originals and laboratory standards
- Sector Ministero per i Beni e le Attività culturali - Research
- 2009 April – 2009 December **Collaboration Contract**
 Istituto centrale per il restauro e la conservazione del patrimonio archivistico e librario, via Milano 76 00184 Roma – Italy
- Raman spectroscopy measurements and data analyses on originals and laboratory standards
- Sector Ministero per i Beni e le Attività culturali – Research
- DURING THE SAME PERIOD I get a position- details above- that allowed me to increase competences in industrial and management field**
- 2009 April – 2009 December **Product Manager**
 EXALL Srl - Via Dante Alighieri,5 04011 Aprilia (LT)
- Development and design of Raman instrumentation dedicated to ophthalmology
- Sector PMI – consultancy and development of instruments in the field of pharmaceuticals
- 2009 March **Researcher B.T.D.A**
 Dipartimento di Scienze, Università del Piemonte Orientale, Via della Vasca Navale 84, 00146 Roma – Italia
- Replace with main activities and responsibilities
 - Maintenance of the Liquids Group website
- Sector University – Research
- 2007 March – 2009 February **Post-doctoral fellow**
 Università degli Studi Roma Tre, Dipartimento di Fisica “E. Amaldi”, via della Vasca Navale 84, 00146 Roma – Italy and Istituto Centrale per il Restauro e la Conservazione del Patrimonio Archivistico e Librario, via Milano 76 00184 Roma – Italy
- Research on writing supports (paper, papyrus, parchment): characterization of materials and study of degradation processes, collaborating in national and international projects of dell’Istituto Centrale per il Restauro e la Conservazione del Patrimonio Archivistico e Librario
 - Responsible of a new research line on contemporary art materials, in particular on acrylics and marker inks
 - Responsible for in situ Raman measurements on objects of historical and artistic interest in collaboration with ICR
 - Responsible for the design and coordinator of a technology transfer project between a company and Roma Tre University for the construction of an industrial demonstrator based on Raman spectroscopy applied to the ophthalmological field (funding obtained € 100,000)
 - Didactics and scientific dissemination (university courses and thesis tutor)
- Sector University – Research
- 2005 March – 2007 February **Post-doctoral fellow**
 Università degli Studi Roma Tre, Dipartimento di Fisica “E. Amaldi”, via della Vasca Navale 84, 00146 Roma – Italy and Istituto Centrale per il Restauro e la Conservazione del Patrimonio Archivistico e Librario, via Milano 76 00184 Roma – Italy

- Research on early medieval fictile samples through the use of neutron sources (in England, France and Hungary)
- Research on inks (China, tannic iron, logwood): characterization of materials and study of degradation processes, collaborating on national and international projects of Istituto Centrale per il Restauro e la Conservazione del Patrimonio Archivistico e Librario
- Responsible of a new research line on contemporary art materials: in particular on the Klein blue
- Didactics and scientific dissemination (university courses and thesis tutor)

Sector University – Research

2003 May – 2004 November

Post-doctoral fellow

ESRF (European Synchrotron Radiation Facility), Polygone Scientifique Louis Néel 6, rue Jules Horowitz 38000 Grenoble France

- Optimization of the instrumental performance of the ID26 beamline for applications to Cultural Heritage
- Commissioning phases for the calibration and characterization of new optical components
- Study of systems of historical and artistic interest. In particular paper foxing; Blue Maya composition; manufacturing processes of the welding of ancient jewels; study of the effectiveness of specific restoration products

Sector Research Institute

2003 March – 2003 April

Collaboration Contract

INFN – Istituto Nazionale di Fisica della Materia – UdR di Roma Tre

- Design and implementation of specific software for the control of the optical components of the portable Raman system previously created and for the acquisition and treatment of data on the Labview platform

Sector Research Institute

2001 January – 2002 December

Contract fellow

INFN – Istituto Nazionale di Fisica della Materia – UdR di Roma Tre and Istituto Centrale per il Restauro e la Conservazione del Patrimonio Archivistico e Librario, Rome, Italy

- Integrated research and study on paper degradation processes
- Design, implementation and optimization of a portable Raman system specific for applications to Cultural Heritage
- Applications of the portable Raman system to cases of historical and artistic interest (in situ measurements on codexes, frescoes, etc.)
- Collaborations have been formally stipulated with various superintendencies and research bodies that I personally carried out and of which I was the direct manager
- Responsible for Raman measurements in the international integrated study project on the Red Convent (Sohag- Upper Egypt)

Sector Research Institute

2003 March – 2003 April

Contract fellow

INFN – Istituto Nazionale di Fisica della Materia – UdR di Roma Tre Istituto Centrale per il Restauro e la Conservazione del Patrimonio Archivistico e Librario, Rome, Italy

- Applications of Raman spectroscopy to Cultural Heritage: in particular identification and study of pigment degradation processes; development of new restoration products - reducing agents for paper; study of inclusions and substitutions in gems
- Spectrochemical characterization of differently degraded papers
- Non-destructive applications for the characterization of ancient documents

Sector Research Institute

EDUCATION

2003 March

PhD in Chemical Physics

Università degli Studi di Roma “Sapienza”

Supervisor: Prof. Mario Barteri

Title: Realizzazione e caratterizzazione di un sistema Raman portatile per le applicazioni ai Beni Culturali”

Quote: Excellent

1993 November-1998 October

Degree in Chemistry

Università degli Studi di Roma "Sapienza"

Supervisor: Prof. Mario Barteri

Title: Reazioni redox indotte da ultrasuoni a bassa frequenza su metallo proteine

Quote: 110/110

1988 September-1993 June

High school graduated

Liceo Classico "Francesco Vivona", Rome

Quote: 60/60

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	B1	B2	B2	B1

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

Organisational / managerial skills

- currently responsible of Raman Spectroscopy Laboratory at Dipartimento di Scienze, section Nanoscience - Università Roma Tre
- President of the association ONLUS "JUMP – Joining University to Market and People" (www.j-u-m-p.net). The association, which has as its purpose the transfer of knowledge with high technological and innovative content between those who do research and those who can bring the product of ideas to the market, has already been the winner of several calls for internal training. of university spin-offs. The association was closed in 2012.
- Coordinator of the project "Ricostruzione dei processi produttivi della ceramica archeologica precolombiana in Cen-troamerica: il caso della ceramica estucado in El Salvador" financed by 8.000 € (PROGETTO DI INTERNAZIONALIZZAZIONE - Università Roma Tre – 2012)
- Scientific Committee of ART 2011- 10th International Conference on non-destructive investigations and microanalysis for the diagnostics and conservation of cultural and environmental heritage, Florence (Italy) – April 13-15, 2011
- coordinator of the technological transfer project " "Sistema Raman Portatile a Doppia Dispersione Ortogonale (DODRAS)" financed by 100.000 € (PROGETTO TECH2EMOTION -2008)
- Organization of exhibitions, conferences and workshop: in particular:
 - Exhibition: Conservare. ... Sì ma con la griffe!, curata da M. Bicchieri e F. Fiorani, Roma, Calco-grafia Nazionale, 24 settembre - 4 ottobre 2007
 - Workshop: La carta e le mediazioni grafiche. Storia, degradazione, metodi di studio e di intervento, Roma, ICPL, 28 giugno 2006
 - workshop RICH- "Research Infrastructures for Cultural Herit-age" Trieste, 12-13 dicembre 2005
 - workshop SR2A 2005 - "Synchrotron Radiation in Art and Archaeology" Grenoble, 9 -12 febbraio 2005
 - Exhibition "La pittura murale antica: materiali, strumenti, tecniche, conser-vazione" durante la "Settimana della Cultura Scientifica" a L'Aquila (6-12 maggio 2002)

- Technical skills**
- Strong expertise in design and realisation of dedicated Raman instrumentation. Strong expertise in Raman, FTIR, XRF, SEM-EDS measurements and data analyses. Strong expertise in softwares for data analyses (Wire, LabSpec, Origin, Igor). Good knowledge in programming (MatLab and Labview). Strong expertise in chemistry laboratory
- Invited communications**
- I presented my research as oral communications or poster in more than 50 international conferences. In particular:
- 2020 - invited talk “ Raman spectroscopy and fakes: contributions to artworks authentication” LIMS, Frascati, 22-23 October 2020
 - 2019 – invited talk Keynote lecture “Spectroscopic investigation of Cappadocia proto-Byzantin paintings “ for 10th International Conference on the application of Raman spectroscopy in Art and Archaeology, RAA 2019 Postdam 3-7 September 2019
 - 2018 – invited talk “INDAGINI ARCHEOMETRICHE PER LO STUDIO DI AUTENTICITA’ DI MANUFATTI ANTICHI” - 104° Congresso della Società Italiana di Fisica- Cosenza 20 September 2018
 - 2017 – invited article M. Sbroscia, F. Bruni, A. Sodo, T. Corridoni, and M. A. Ricci OH Stretching Dynamics in Hydroxide Aqueous Solutions. Submitted to J. Chem. Phys. Invited article in Special Topic Issue on Ions in Water (2017)
 - 2015 – invited article A. Sodo, La legatura dell’Evangelario Marciano Lat III, 111: storia di un felice connubio fra arte e scienza Ithaca: Viaggio nella Scienza V, 67-78, 2015. Consultabile al seguente indirizzo: http://ithaca.unisalento.it/nr-5_2015/articolo_llp_07.pdf
 - 2011- La Fisica incontra la città – ciclo di conferenze divulgative del dipartimento di Fisica “E. Amaldi” di Roma Tre, Roma, 11 maggio 2011, Come i fisici vedono le opere d’arte
 - 2009- invited talk “La degradazione degli inchiostri e dei supporti scrittori nei manoscritti originali” XCV Congresso Nazionale Società Italiana di Fisica Bari, 28 Settembre - 3 Ottobre, 2009
- Honour and awards**
- I won the price for the best oral contribution in the followings:
- 101° Congresso Nazionale della Società Italiana di Fisica, Rome 21-25 September 2015.; Oral communication: CARATTERIZZAZIONE DELL’APPARATO PITTORICO DI CERAMICHE ESTUCADO ME-DIANTE SPETTROSCOPIA RAMAN, SEM/EDS e XRD”
 - 4th International Conference Raman in Art and Archaeology , Modena September 2007.; Oral communication: “The colours of Etruscan painting: a study on the Tomba dell’Orco in the necropolis of Tarquinia”
- Prizes:
- 2008: Premio Archimede for “the results obtained in the field of Cultural Heritage Beni Culturali”.
 - 1999: Premio Young Researcher in INFMeeting 1999
- Didactics**
- AA 2017/2018, AA 2018/2019, AA 2019/2020, AA 2020/2021: Università Roma Tre, Dipartimento di Architettura, Corso di Laurea in Scienze dell’Architettura
Course: Fondamenti di Fisica B
 - AA 2015/2016, 2016/2017 e 2017/2018: Università Roma Tre, Corso di Perfezionamento “LA TUTELA DEL PATRIMONIO CULTURALE: CONOSCENZA STORICA E DIAGNOSTICI-CA SCIENTIFICA PER IL CONTRASTO ALLE AGGRESSIONI CRIMINALI” e Master in “ESPERTI NELLA TUTELA DEL PATRIMONIO CULTURALE”
Course : Tecniche di diagnostica scientifica
 - AA 2014/2015 - 2015/2016 – 2016/2017: Università Roma Tre, Dipartimento di Scienze, Master in “BIOLOGY FOR THE KNOWLEDGE AND CONSERVATION OF CULTURAL HER-ITAGE”
Course : Applicazioni di tecniche spettroscopiche ai beni culturali: spettroscopia Raman e l’assorbimento IR
 - Ecis 2016 - Training course “Colloids and Surfaces in Cultural Heritage: Physico-Chemical Methodologies and New Investigative Approaches; Roma 1-3 settembre 2016;
Lecture: “Raman spectroscopy in Cultural Heritage”
 - AA 2015/2016: Università Roma Tre, Dipartimento di Scienze, Corso di Laurea in Ottica e Optometria
Course : Applicazioni dell’ottica

- AA 2014/2015 – 2015/2016: Università Roma Tre, Dipartimento di Scienze, Corso di Laurea in Ottica e Optometria
Course : Laboratorio di Calcolo (esercitatrice)
- AA 2013/2014 -2014/2015 - 2015/2016: Università Sapienza di Roma, Dipartimento di Chi-mica, Master in “Sostanze organiche naturali”
Course : Spettroscopia Raman e applicazioni ai Beni Culturali
- AA 2013/2014: Università della Tuscia, Dipartimento di Scienze dei Beni Culturali (Disbec)
Course : Fisica
- AA 2008/2009 - 2009/2010 – 2010/2011 – 2011/2012 - 2013/2014: Ars Labor – Istituto Professionale per il Restauro.
Course : Chimica e Biologia del Restauro
- AA 2008/2009 - 2009/2010 – 2010/2011 - 2011/2012 – 2012/2013 – 2013/2014: Università Roma Tre, Dipartimento di Fisica, Corso di Laurea in Ottica e Optometria
Course : Applicazioni dell’ottica ai Beni Culturali
- AA 2006/ 2007 - 2007/2008: Università Roma Tre, Dipartimento di Fisica, Corso di Laurea in Ottica e Optometria
Course : Esercitazioni di Laboratorio di Calcolo
- AA 2006/2007- 2007/2008: Ars Labor – Istituto Professionale per il Restauro.
Seminars: “Applicazioni della spettroscopia Raman ai beni culturali”.
- 2006: Istituto Centrale per la Patologia del Libro, nel corso della giornata di studio "La carta e le mediazioni grafiche. Storia, degradazione, metodi di studio e di intervento".
Lecture: Applicazioni della spettroscopia Raman ai Beni Librari
- AA 2005/ 2006: Università Roma Tre, Dipartimento di Fisica, Corso di Laurea in Fisica
Course: Esercitazioni di termodinamica
- 2005 Università degli Studi di Udine, sede di Gorizia.
Master Universitario di primo livello per esperto in conservazione e restauro di beni librari (EsCoReAL),
Course: Archeometria dei Beni Librari
- AA 2004/2005 - 2005/2006 - 2006/2007 Università Roma Tre, Dip. di Ingegneria Elettronica. Laurea Magistrale in Ingegneria Elettronica-Misure per la qualità ed i Beni Culturali
Seminar: “La spettroscopia Raman applicata ai beni culturali”.
- AA 1998/1999 - 1999/2000 - 2000/2001 Università Cattolica del Sacro Cuore di Roma, Scuola diretta a fini speciali per tecnici cosmetici
Course : “Controllo di qualità microbiologico e tossicologico”

Tutor of Stages (25), Specialistic thesis (7) and PhD thesis (4)

Publications

Total Number of publications: 113
Peer reviewed publications: 76
h-index: 18; Citation: 1069 (web of science)
Submitted waiting for review: 3
Peer reviewed publications without SCI Factor: 23
Chapter of books and publication without SCI Factor:14

1. M. Zuena, L. Ruggiero, G. Della Ventura, E. Bemporad, M. A. Ricci and A. Sodo, Effectiveness and Compatibility of Nanoparticle Based Multifunctional Coatings on Natural and Man-Made Stones, *Coatings* (2021) 11(4), 480; <https://doi.org/10.3390/coatings11040480>
2. S. A. Barcellos Lins *, M. Manso, P. A. Barcellos Lins, A. Brunetti *, A. Sodo, G. E. Gigante, A. Fabbri, P. Branchini, L. Tortora, S. Ridolfi, Modular MA-XRF scanner development in the multi-analytical characterisation of a 17th century Azulejo from Portugal, *Sensors* (2021), 21, 1913.

- <https://doi.org/10.3390/s21051913>
3. M. Iorio, A. Sodo, V. Graziani, P. Branchini, A. Casanova Municchia, M. A. Ricci, O. Salva-dori, E. Fiorind and L. Tortora, Mapping at the nanometer scale the effects of sea-salt derived chlorine on cinnabar and lead white by using delayed image extraction in ToF-SIMS *Analyst*, (2021), DOI: 10.1039/D0AN02350G
 4. A. Sodo, M. Sbroscia, G. Agresti, A. Paolucci, P. Pogliani, L. Ruggiero, C. Pelosi, Spectro-scopical investigation of Cappadocia proto-Byzantine paintings, *Journal of Raman Spectroscopy* 52: 95–108, (2021) ; <https://doi.org/10.1002/jrs.6034>
 5. A. Sodo, M. Verri, A. Palermo, A. M. Naciu, M. L. Sponziello, C. Durante, M. Di Gioacchino, A. Paolucci, A. di Masi, F. Longo, P. Crucitti, C. Taffon, M. A. Ricci, A. Crescenzi, Altered molecular profile in thyroid adenomas may be evidenced by spectroscopic analysis, *Diagnostics*, 9;11(1):43, (2020) doi: 10.3390/diagnostics11010043.
 6. S. Bernardini, F. Bellatreccia, G. Della Ventura, P. Ballirano, A. Sodo A reliable method for determining the oxidation state of manganese at the microscale in Mn-oxides via Raman spectroscopy, *Geostandards and Geoanalytical Research*, (2020) <https://doi.org/10.1111/ggr.12361>
 7. L. Pronti, M. Romani, M. Sbroscia, F. Petrucci, O. Tarquini, G. Verona Rinati, M. A. Ricci, A. Sodo, M. Colapietro, M. Marinelli, A. Pifferi, M. Cestelli Guidi, "St. Joseph with the Child" by Gian Lorenzo Bernini: a definitive artwork or a preparatory drawing? A multi-disciplinary study of the only autograph painting of the Artist, preserved at Palazzo Chigi of Ariccia (Rome), *Journal of Cultural Heritage*, Volume 46, 283-288 (2020) <https://doi.org/10.1016/j.culher.2020.08.003>.
 8. G. Della Ventura, F.C. Hawthorne, B. Mihailova, A. Sodo, RAMAN AND FTIR spectroscopy of synthetic amphiboles: I. The OH librational bands and the determination of the OH-F Content of Richterites via Raman spectroscopy, *The Canadian Mineralogist* (2020); canmin.1900090. doi: <https://doi.org/10.3749/canmin.1900090>
 9. G. Ventruti; G. Della Ventura; M. A. Gomez; G. Capitani; M. Sbroscia; A. Sodo High-temperature study of basic ferric sulfate, FeOH₂SO₄, *Physics and Chemistry of Minerals* volume 47, Article number: 43 (2020)
 10. A. Talone, L. Ruggiero, S. Slimani, P. Imperatori, G. Barucca, M.A. Ricci, A. Sodo, D. Peddis, Magnetic Mesoporous silica nanostructures : Investigation of Magnetic properties, submitted to *Nanotechnology*, 31 (46): 465707 (2020)
 11. M. Sbroscia, M. Di Gioacchino, P. Ascenzi, P. Crucitti, A. di Masi, I. Giovannoni, F. Longo, D. Mariotti, A.M. Naciu, A. Palermo, C. Taffon, M. Verri, A. Sodo, A. Crescenzi, and M. A. Ricci, Thyroid Cancer Diagnosis by Raman Spectroscopy, *Scientific Report*, 10:13342 (2020) <https://doi.org/10.1038/s41598-020-70165-0>
 12. L. Ruggiero, M.R. Fidanza, M. Iorio, L. Tortora, G. Caneva, M. A. Ricci, A. Sodo "Synthesis and characterization of an innovative self-cleaning multifunctional coating with anti-fouling properties for preserving architectural stone surface" *Frontiers in materials*, section Colloidal Materials and Interfaces, *Front. Mater.*, 23 June 2020 | <https://doi.org/10.3389/fmats.2020.00185> (2020).
 13. L. Ruggiero, F. Bartoli, M.R. Fidanza, F. Zurlo, E. Marconi, T. Gasperi, S. Tuti, L. Crociani, E. Di Bartolomeo, G. Caneva, M.A. Ricci, A. Sodo, Encapsulation of environmentally-friendly biocides in silica nanosystems for multifunctional coatings, *Applied Surface Science*, 514, 145908 (2020) doi.org/10.1016/j.apsusc.2020.145908
 14. G. Germinario, A. Ciccola, I. Serafini, L. Ruggiero, M. Sbroscia, F. Vincenti, C. Fasolato, R. Curini, M. Ioele, P. Postorino, A. Sodo, Gel substrates and ammonia-EDTA extraction solution: a non-invasive combined approach for the identification of anthraquinone dyes from wool textiles, *Microchemical Journal* 155, 104780 (2020)
 15. L. Ruggiero, A. Sodo, M. Cestelli-Guidi, M. Romani, A. Sarra, P. Postorino and M.A. Ricci, Raman and ATR FT-IR investigations of innovative silica nanocontainers loaded with a biocide for stone conservation treatments *Microchemical Journal*, 155, 104766 (2020)
 16. S. Bernardini, F. Bellatreccia, G. Della Ventura, P. Ballirano, A. Sodo Raman spectroscopy and laser-induced degradation of groutelite and ramsdellite, two cathode materials of technological interest, *RSC Advances* (2020), Issue 2, (2020)
 17. M. Sbroscia, M. Cestelli-Guidi, F. Colao, S. Falzone, C. Gioia, P. Gioia, C. Marconi, D. Mirabile Gattia, E.M. Loreti, M. Marinelli, M. Missori, F. Persia, L. Pronti, M. Romani, A. Sodo, G. Verona-Rinati, M. A. Ricci, R. Fantoni, Multi-analytical non-destructive investigation for the reconstruction of decorative apparatuses of "Villa della Piscina" in Rome, *Microchemical Journal*, 153, 104450 (2020) doi.org/10.1016/j.microc.2019.104450
 18. A. di Masi; L. Leboffe; A. Sodo; G. Tabacco; R. Cesareo; M. Sbroscia; I. Giovannoni; C. Taffon; P. Crucitti; F. Longo; S. Manfrini; M. A. Ricci; P. Ascenzi; A. Crescenzi; A. Palermo Metabolic profile of human parathyroid adenoma *Endocrine*, 67(3):699-707 (2020) DOI: 10.1007/s12020-019-02146-x
 19. L. Ruggiero, A. Sodo, T. Gasperi, F. Zurlo, E. Di Bartolomeo, A. Talone, D. Peddis, M.A. Ricci, Silica

- nanosystems for active antifouling protection: nanocapsules and mesoporous nanoparticles in controlled release applications, *Journal of Alloys and Compounds*, 798, 144-148, (2019) doi.org/10.1016/j.jallcom.2019.05.215
20. G. Della Ventura, F. Capitelli, M. Sbroscia, A. Sodo A Raman study of chalcogen species in sodalite-group minerals from the volcanic rocks of Latium (Italy) *Journal of Raman Spectroscopy* (2019) doi.org/10.1002/jrs.5665
 21. A. Sodo, L. Ruggiero, S. Ridolfi, E. Savage, L. Valbonetti, M. A. Ricci. Dating of a unique six-colour relief print by historical and archaeometric methods, *The European Physical Journal Plus*, 134: 276 (2019) doi.org/10.1140/epjp/i2019-12718-7
 22. M. Di Gioacchino, F. Bruni, A. Sodo, S. Imberti, M.A. Ricci, Ectoine Hydration, Aggregation and Influence on Water Structure, *Molecular Physics* (2019) DOI: 10.1080/00268976.2019.1649484
 23. S. Bernardini, F. Bellatreccia, A. Casanova Municchia, G. Della Ventura and A. Sodo. Raman spectra of natural Manganese oxides. *Journal of Raman Spectroscopy* 50, 873–888 (2019) doi.org/10.1002/jrs.5583
 24. G. Ventruti; G. Della Ventura; M. Lacalamita; M. Sbroscia; A. Sodo; J. R. Plaisier; G. Cinque; E. Schingaro Crystal-chemistry and vibrational spectroscopy of ferritrite, $\text{Na}_3[\text{Fe}(\text{SO}_4)_3] \cdot 3\text{H}_2\text{O}$, and its high-temperature decomposition, *Physics and Chemistry of Minerals* 46, 2, 119–131 (2019) https://doi.org/10.1007/s00269-018-0991-9
 25. A. Sodo, E. Fiorin, P. Biocca, A. Casanova Municchia, M. A. Ricci, L. Tortora. Raman and ToF-SIMS investigation of the Bosch's painting "Saint Wilgefortis Triptich" *Journal of Raman Spectroscopy*, 50, 150–160 (2019) . Article DOI: 10.1002/jrs.5479
 26. F. Capitelli, M. Rossi, A. El Khouri, M. Elaamani, N. Corriero, A. Sodo, G. Della Ventura Synthesis, structural model and vibrational spectroscopy of lutetium tricalcium phosphate $\text{Ca}_9\text{Lu}(\text{PO}_4)_7$ *J. Rare Earths*, 36(11), 1162-1168 (2018).
 27. M. Sbroscia, G. Della Ventura, G. Iezzi and A. Sodo, Quantifying the A-site occupancy in amphiboles: a Raman study in the OH-stretching region, *European Journal of Mineralogy*, 30(3), 429-436 (2018)
 28. M. Tescari, E. Frangipani, G. Caneva, A. Casanova Municchia, A. Sodo, and P. Visca. *Archaeobacter agilis* and rosy discoloration in "Terme del Foro" (Pompeii, Italy), *International Biodeterioration & Biodegradation*, 130, 48-54 (2018)
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