



Da un secolo, oltre.

DECRETO DIRIGENZIALE

G017_2014 Gara europea a procedura telematica aperta ex art. 71 d.lgs. 36/2023 per l'affidamento del noleggio di un Microscopio Elettronico a Scansione da alta risoluzione con sorgente ad emissione di campo (FESEM) nell'ambito del Programma "Space It Up!" (2024-2027) a valere sul Progetto SPACE IT UP! – Contratto ASI N. 2024-5-E.0 - da aggiudicarsi con il criterio dell'offerta economicamente più vantaggiosa. Importo a base di gara € 310.000,00 + IVA; oneri per la sicurezza da interferenze non soggetti a ribasso: € 00,00. CUP (Master) I53D24000060005, CUP rilasciato all'Università degli Studi di Firenze B53C24001020006, CUI F01279680480202400031, RUP: Dott. Tiziano Catelani – Decreto di nomina Commissione Giudicatrice ex art. 93 D.Lgs. 36/2023.

Il Dirigente,

VISTO il d.lgs. 31 marzo 2023, n. 36 recante "*Codice dei contratti pubblici in attuazione dell'articolo 1 della legge 21 giugno 2022, n. 78, recante delega al Governo in materia di contratti pubblici*";

VISTA la Legge 9 maggio 1989, n. 168 e in particolare l'articolo 6, comma 1, "*Autonomia delle università*";

VISTA la Legge 30 dicembre 2010, n. 240 recante "*Norme in materia di organizzazione delle università, di personale accademico e di reclutamento, nonché delega al Governo per incentivare la qualità e l'efficienza del sistema universitario*";

VISTO lo Statuto dell'Università degli Studi di Firenze;

VISTO il Regolamento di Amministrazione, Finanza e Contabilità dell'Università degli Studi di Firenze;

VISTE la normativa vigente in materia di anticorruzione e trasparenza, il Piano Triennale per la Prevenzione della Corruzione e della Trasparenza dell'Università degli Studi di Firenze, il Decreto rettorale del 8 febbraio 2016, n. 98 - Codice di comportamento dell'Università degli Studi di Firenze;

DATO ATTO CHE la procedura è inserita nella programmazione 2024-2027 sulla base del Progetto SPACE IT UP! – Contratto ASI N. 2024-5-E.0 - CUP (Master) I53D24000060005, CUP rilasciato all'Università degli Studi di Firenze B53C24001020006, Codice CUI F01279680480202400031;

RICHIAMATO il Decreto del Dirigente dell'Area Gestione progetti strategici, terza missione e comunicazione, dott.ssa Francesca Farnararo (Prot. n. 0163950 del 15/07/2024 e successiva rettifica Prot. n. 0170372 del 22/07/2024) di designazione del RUP nella persona del dott. Tiziano Catelani, afferente al Centro Servizi di Microscopia Elettronica e Micro-Analisi (MEMA);

RICHIAMATA la Decisione di contrarre Rep. n. 1949/2024 Prot. 269282/2024 del 31/10/2024, pubblicata all'Albo n. 13852/2024 Prot. 269770/2024 del 31/10/2024 con cui è stata indetta la procedura in oggetto da aggiudicare con il criterio dell'offerta economicamente più vantaggiosa, ai sensi dell'art. 108 co. 2 lett. b) del d.lgs. 36/2023;

DATO ATTO che:

- in data 31/10//2024 è stata pubblicata sul sistema telematico START la procedura aperta ID 045335/2024, in oggetto, con scadenza per la presentazione delle offerte al 02/12/2024 ore 12:00;
- il CIG della procedura è il seguente: B413B7FDD4;
- alla scadenza del termine risultavano presentate n. 2 candidature;

DATO ATTO che la Stazione Appaltante, negli atti di gara, ha stabilito di ricorrere all'inversione procedimentale ai sensi dell'art. 107 co. 3 del d.lgs. 36/2023;

RILEVATA la necessità di provvedere alla nomina della commissione tecnica preposta all'esame delle offerte, da costituirsi con un numero di n. 3 componenti, esperti nella materia oggetto del contratto;

VALUTATA la qualificazione, anche mediante esame degli allegati *curricula*, dei seguenti soggetti ai fini della nomina a componente della Commissione Giudicatrice:

- Prof. Stefano Caporali, afferente al Dipartimento di Ingegneria Industriale (DIEF) – Presidente;
- Prof.ssa Valentina Rimondi, afferente al Dipartimento di Scienze della Terra (DST) – commissario;
- Prof. Raffaello Cioni, afferente al Dipartimento di Scienze della Terra (DST) – commissario;

RITENUTO OPPORTUNO nominare segretario verbalizzante la Dott.ssa Francesca Bellezzi e segretario supplente la Dott.ssa Martina Mitra, entrambe afferenti alla Centrale Acquisti, Università degli studi di Firenze;

RICEVUTA la disponibilità dei suddetti allo svolgimento dell'incarico;

ACQUISITE le dichiarazioni (conservate agli atti) dei nominandi commissari da cui risulta, con riferimento agli operatori economici che hanno rimesso offerta, che non sussistono cause di conflitto d'interesse e di incompatibilità ai sensi della normativa vigente;

RITENUTO di dare attuazione alle disposizioni legislative di cui all'art. 28 co.2 del d.lgs. 36/2023, mediante pubblicazione del presente provvedimento e dei curricula allegati prodotti dai membri della commissione giudicatrice, sul profilo del committente Unifi, nella sezione Amministrazione Trasparente - Bandi di gara e contratti, nonché sull'Albo on line della stazione appaltante;

DATO ATTO che tutti gli atti della presente procedura di gara, oltre che sul sistema telematico START e sul profilo committente, sono disponibili anche presso l'Ufficio Centrale Acquisti dell'Università degli Studi di Firenze, via Capponi n.7, primo piano;

ciò premesso

DECRETA

- a) la nomina, ai fini della valutazione delle offerte presentate, relative all'affidamento del servizio in oggetto, della seguente Commissione Giudicatrice, ai sensi dell'art. 93 d.lgs. 36/2023:
- Prof. Stefano Caporali, afferente al Dipartimento di Ingegneria Industriale (DIEF) – Presidente;
 - Prof.ssa Valentina Rimondi, afferente al Dipartimento di Scienze della Terra (DST) – commissario;
 - Prof. Raffaello Cioni, afferente al Dipartimento di Scienze della Terra (DST) – commissario;
- b) di dare atto che le attività di segretario verbalizzante saranno svolte dalla Dott.ssa Francesca Bellezzi e, in caso di assenze o impedimenti, dalla Dott.ssa Martina Mitra, entrambe afferenti alla Centrale Acquisti, Università di Firenze;
- c) di stabilire che nessun compenso è dovuto per l'attività di cui al presente Decreto;
- d) di procedere alla pubblicazione del presente provvedimento e relativi *curricula* sul profilo del committente nella sezione bandi di gara, nonché sull'Albo on line della stazione appaltante, ai sensi e per gli effetti dell'art. 28 co.2 del d.lgs. 36/2023.

Il Dirigente

Dott. Massimo Benedetti

Allegati:

1. Curricula Commissari

PERSONAL INFORMATION

Raffaello Cioni



📍 Università degli Studi di Firenze
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Italy

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<https://scholar.google.com/citations?user=6sKaOe4AAAAJ&hl=it>

Sex Male | Date of birth ++++++ | Nationality Italian

WORK EXPERIENCE

2013 to present	Associate Professor in Volcanology and Geochemistry Dept. of Earth Sciences of University of Florence (Italy)
1999 to 2013	Associate Professor in Volcanology and Geochemistry Dept. of Earth Sciences of University of Cagliari (Italy)
1994 to 1999	Researcher in Volcanology and Geochemistry Dept. of Earth Sciences of University of Pisa (Italy)
1993 to 1994	Postdoc fellow Dept. of Earth Sciences of University of Pisa (Italy)
1987 to 1988	Research fellow Dept. of Earth Sciences of University of Pisa (Italy)
Other work experience	
1993	SORIM - Assistance to drilling of geothermal well PPT1, Pantelleria (15 days)
1993	Contract at Earth Sciences Dept., University of Pisa (6 months)
1990	Geotermica Italiana srl, Pisa Contract for "Geothermal prospections in the Mt Sabatini area" (2 months)
1986	Contract at Earth Sciences Dept., University of Siena (Italy) "Petrography of granitic rocks from Anctartica" (2 months)

EDUCATION AND TRAINING

1988 to 1992	PhD – "Il complesso Vulcanico di Bolsena ed il vulcanismo alcalino potassico del Lazio Settentrionale" Supervisor: Prof. Franco Barberi Dept. of Earth Sciences of University of Pisa (Italy)
1980 to 1986	Honours Degree in Geological Sciences (110/110 cum laude) Title: "Fasi magmatiche e freatomagmatiche nelle eruzioni esplosive del Vesuvio e dell'Isola di Vulcano (Italia)". Supervisor: Prof. Franco Barberi Dept. of Earth Sciences of University of Pisa (Italy)

ACADEMIC ACTIVITIES

Teaching	1993 – 1996	Volcanology (assistant) – Petrography (assistant) – Regional Volcanology (assistant) – Earth Sci. Dept., Università' di Pisa
	1996 – 1998	Physical Volcanology – Earth Sci. Dept., Università' di Pisa
	1999 – 2001	Volcanology – Earth Sci. Dept., Università' di Pisa
	1999 – 2013	Physical Volcanology – Earth Sci. Dept., Università' di Cagliari
	2001 - 2013	Geology of Volcanic Terrains – Earth Sci. Dept., Università' di Cagliari
	2001 - 2010	Geological Mapping of Volcanic Terrains – Earth Sci. Dept., Università' di Cagliari
	2010 – 2012	Geodynamics – Earth Sci. Dept., Università' di Cagliari
	2013 – present	Volcanology – Earth Sci. Dept., Università' di Firenze
	2013 – present	Volcanic Risks – Earth Sci. Dept., Università' di Firenze
	2013 – present	Stratigraphy of Volcanic Rocks – Earth Sci. Dept., Università' di Firenze
	2013 – present	Laboratory of Volcanology – Earth Sci. Dept., Università' di Firenze

Other didactic activities 2021 to present Volcanology seminars (7h each) in the Geochemistry course – Earth Sci. Dept., University of Firenze
 Examination commissions for all the above courses and for the other courses (Physics of Volcanism, Earth Sci. Dept., University of Firenze; Geochemistry, Earth Sci. Dept. University of Cagliari; English proficiency, Earth Sci. Dept. University of Cagliari; English proficiency, Earth Sci. Dept. University of Pisa)
 Member of the examination panel for the final examination of PhD students at Italian (University of Pisa, Cagliari, Firenze, Cosenza, Palermo, Pavia) and International institutions (University of Bristol, UK; Free University of Bruxelles, Belgium; University of Clermont Ferrand)

Visiting and Invited courses at International Institutions

- 1996 Visiting fellow at Caltech, Pasadena (USA; 1 month)
- 2009 Short course for the School of Advanced Archaeometry (Fribourg, CH) "Mount Vesuvius (Italy): Past and future impact on the environment and humans" (2 days)
- 2014 Visiting Professor at Orleans University (France; 1 month)
- 2014 Short course of Physical Volcanology (VULCAMED Project PONA3_00278/F "La ricerca geofisica e vulcanologica per il monitoraggio dei rischi naturali e ambientali e per la tutela e la fruizione delle risorse e del territorio", INGV Catania – 3 CFU)

Institutional Activities

- 2003 to 2012 Member of "Collegio dei Docenti, Dottorato in SCIENZE DELLA TERRA" - Earth Sci. Dept., University of Cagliari
- 2009 – 2011 "Commissione di Autovalutazione" Corso di Laurea in Scienze Geologiche, Earth Sci. Dept. University of Cagliari (President)
- 2013 to 2014 Member of "Collegio dei Docenti, Dottorato in SCIENZE E TECNOLOGIE DELLA TERRA E DELL'AMBIENTE" - Chemical and Earth Sci. Dept., University of Cagliari
- 2018 to present Member of "Collegio dei Docenti, Dottorato Regionale in SCIENZE DELLA TERRA PEGASO – Earth Sci. Depts., Universities of Firenze, Pisa and Siena"
- 2018 – 2019 "Commissione di Sintesi per la riforma del corso di Laurea in Scienze e Tecnologie Geologiche", Earth Sci. Dept., Firenze (President)
- 2022 to present Member of "Collegio dei Docenti, PhD in Earth and Planetary Sciences"- Earth Sci. Dept., University of Firenze
- 2017 to present "Commissione di Indirizzo", Earth Sci. Dept., Firenze (President)
- 2020 to present "Commissione sito web" Earth Sci. Dept., Firenze (President)

International agreements Universita' di Firenze - Escuela Superior Politecnica del Litoral, Guayaquil, Ecuador
(Responsible)
Universita' di Firenze – Universidad Catolica del Maule, Salta, Chile (Responsible)
Erasmus Agreement University of Orleans, France (Responsible)
Erasmus Agreement Eotvos University, Budapest, Hungary (Responsible)

WORK ACTIVITIES

Main scientific interests

Geology of volcanic terrains

Field studies of volcanic deposits; Regional volcanology; Geological and structural mapping of volcanic areas

Physical Volcanology

Dynamics and physical volcanology of explosive eruptions; Trigger and depositional mechanisms of debris flows in volcanic areas; Dynamics of magma ascent;

Volcanic Hazards

Volcanic hazard assessment; Eruption and impact scenarios; Probabilistic volcanic hazards mapping

Geochemistry and petrology of volcanic products

Magma chamber processes; Textural and compositional features of volcanic products; Magmatic volatiles in groundmass glass and melt inclusions

Field Experience

Field activity has been carried on at several volcanoes worldwide

Italy: Vesuvius, Phlegrean Fields, Etna, Vulcano Island, Stromboli, Mt Vulsini, Mt Sabatini, Vico volcano, Sardinia Cenozoic volcanism, Mt. Amiata

Greece: Santorini

Turkey: Mt. Ararat

Ethiopia: Gedemsa caldera; Ignimbrites of the Southern Main Ethiopian Rift; Ririba Rift

Ecuador: Guagua Pichincha; Cotopaxi; Tungurahua

Guatemala: Fuego

El Salvador: San Salvador; Santa Ana

Iceland: Eyjafjallajokull, Askja, Oraefajokull

Papua – New Guinea: Rabaul caldera

Argentina: Copahue

Chile: Cordon Caulle – Puyehue; Ollague

Japan: Sakurajima

Research projects

Responsibility of research projects

Competitive projects

-PRIN 2022 Project “HEATED - PHreatic Eruptions at AcTive volcanoEs: processes, source parameters and physical models of eruption Dynamics”: Principal Investigator

- PRIN 2022 PNRR Project “RESILIENCE - Refine Eruptive Scenarios and Impact related to phreatomagmatic EruptionS at Campi Flegrei (Italy)”. Responsible of Research Unit
PRIN 2008 – “AshErupt: Studio interdisciplinare della dinamica sin-eruttiva di eruzioni di cenere” (Principal Investigator)

PRIN 2003. “Tefrostratigrafia dell’attivita’ recente del vulcano Cotopaxi. Correlazioni tra eventi eruttivi e innesco di colate di fango sineruttive”. Responsible of Research Unit

-DPC-INGV 2004-2006 - Project V3_4/11 - Task.2 Geological constraints on precursors of explosive eruptions: the opening phases of Plinian and subPlinian eruptions – Task 4. Ash eruptions at Vesuvius

Other Projects

-2016 Universita’ Italo-Francese - Contribution for a PhD Grant, Project VINCI, Scientific responsible

- 2013 REG.AUTONOMA SARDEGNA. "Progetto di ricerca per la definizione di una metodologia finalizzata all'identificazione e rappresentazione cartografica degli apparati vulcanici nell'ambito regionale per l'attività di ricognizione, delimitazione e rappresentazione in scala idonea dei vulcani presenti ai sensi dell'art. 142 del Codice del Paesaggio e altre aree caratterizzanti la geomorfologia del territorio sardo individuate e tipizzate dal Piano Paesaggistico Regionale"
- 2011 CONTRIBUTO "Sistema premiale della ricerca, Art. 13 L.R. REG. AUTONOMA SARDEGNA n. 7/2007"
- 2007. PROGEMISA-INGV PISA. "Studio petrografico e petrochimico delle formazioni vulcaniche terziarie e quaternarie presenti nei fogli geologici 1:50.000 - 459 "Sassari", 500 - "Nuoro Est", 501 "Orosei", 528 "Oristano", 555 "Iglesias" e 563 "Isola di S. Pietro".
- 2004 CONTRIBUTO L.R. REG. AUTONOMA SARDEGNA 11/04/96 N.19 – Cooperazione PVS. "Studio dei prodotti emessi durante la crisi eruttiva iniziata nell'Ottobre 1999 al Guagua Pichincha (Quito, Ecuador): implicazioni per una valutazione della pericolosità vulcanica"
- 2003 CONTRIBUTO L.R. 11/04/96 N.19 REG. AUTONOMA SARDEGNA – Cooperazione PVS. "Vulcano Cotopaxi (Ecuador): variabilità composizionale dei prodotti relativi all'attività esplosiva degli ultimi 5000 anni"
- 2002 CONTRIBUTO L.R. 11/04/96 N.19 REG. AUTONOMA SARDEGNA – Cooperazione PVS. "La dinamica delle eruzioni del 5-7 ottobre 1999 del Guagua Pichincha (Quito, Ecuador): implicazioni per un possibile sviluppo futuro della crisi eruttiva in corso"
- 2001-2002 Project "The 1994-1999 eruptions of Rabaul, (Papua - New Guinea): a case study for volcanic hazard assessment in large restless calderas." CONTRIBUTI LEGGE 43-1990 REG. AUTONOMA SARDEGNA

Other fundings

- 1999-2013 "Ricerca di Ateneo" yearly contributions, University of Cagliari
- 2014 to present "Ricerca di Ateneo" yearly contributions, University of Firenze

Coordination responsibility into competitive projects

- 2022 PNRR-PE3 Project "RETURN" Multi-Risk science for resilient communities under a changing climate" VS3 Earthquakes and Volcanoes - Coordinator of WP3 -Task 3.1 "Pre-eruptive physico-chemical magma characteristics"
- 2005 -2007 Scientific coordinator of the Project V3_4 "V3_4 - Vesuvio". Convenzione
- 2004-2006 INGV-DPC. Coordination of 20 Research Units

Participation to competitive research projects

- 2018 EUROVOLC, I3 European project, RU Dip. Scienze Terra, Firenze
- 2017- 2018 RIESCA project "Escenarios de Riesgo en Centro America" Univ. Di Palermo – IGG CNR – Ag. Italiana cooperazione allo Sviluppo
- 2013-2014 Progetto PRIN 2010-11 - Genesi e differenziazione dei magmi in relazione all'ambiente geodinamico ed alle caratteristiche petrologiche e geochemiche delle loro sorgenti: implicazioni per l'evoluzione del sistema convergente Africa-Europa - UR Dip. Scienze Terra Firenze, Responsible S. Conticelli
- 2006-2008 Progetto SPEED INGV-Reg. Campania SRPC. "Scenari di Pericolosità per la Prevenzione del Rischio dei Vulcani della Campania" RU INGV-Pisa, Responsible A. Neri
- 2002-2006 Progetto EXPLORIS, EEC Programme V, Programma "Environment and Sustainable Development" RU INGV-PISA, Responsible A. Neri
- PRIN 1999. "Evoluzione magmatica e vulcanologica nelle successioni dei margini, negli apparati centrali e nelle eruzioni fissurali nel Rift Etiopico settentrionale". RU Dip. Scienze Terra, Pisa; Responsible R. Mazzuoli
- 1993-1995 Progetto CEE "Santorini Volcano Laboratory", RU Dip. Scienze Terra, Pisa; Responsible A. Sbrana
- 1989 to 1998 - GNV Annual Projects (UR Dip. Scienze Terra, Pisa)

Participation and coordination of geological mapping projects

Analyst and Field Geologist - CARG Project 1:50000 Geological Map of Italy (sheets: 448 Ercolano; 466 Sorrento; 563 Isola di S. Pietro; 459 Sassari; 501 Orosei; 500 Nuoro Est; 528 Oristano)

Field Mapping Director - CARG Project 1:50000 Geological Map of Italy, Sheet 320 Casteldelpiano (in course)

Tutoring

Tutoring of numerous First and Second Level Thesis at Pisa, Cagliari and Firenze Universities

Tutoring to several PhD students at Pisa, Cagliari and Firenze Universities.

Distinct PhD students

Lucia Gurioli (Researcher at CNRS Clermont Ferrand, France); Claudia d'Oriano (Researcher at INGV, Italy); Marco Pistolesi (Associate Professor at University of Pisa, Italy); Mulas Maurizio (Associate Professor at University of Guayaquil, Ecuador); Alvaro Aravena Ponce (Associate Professor at Catholic University of Talca, Chile); Tadini Alessandro (Research Fellow at INGV, Italy); Pietro Gabellini (Research Fellow at University of Florence).

Public Appointments at National and International Panels

Public Appointments and Achievements

National Governmental Appointments

- 2023 to present Member ("Deputy Referent") of the "Commissione Grandi Rischi – Settore Rischio Vulcanico" official commission of the National Department of Civil Protection (DPC)

- 2013 to 2017 Member of the "Commissione Grandi Rischi – Settore Rischio Vulcanico" official commission of the National Department of Civil Protection (DPC)

Appointments at Scientific Institutions

- 2020 to present ClerVolc Lab of Excellence consortium, Science and Strategic Committee

- 2017 to 2019 Member of INGV-DPC commission on "Individuazione degli elementi utili per l'aggiornamento dei livelli di allerta del Vesuvio e dei Campi Flegrei, con riferimento ai parametri del monitoraggio e alle fenomenologie attese"

- 2015 to 2019 Director of the Italian Interuniversity Center for Volcanological Research (CIRVULC)

- 2012 to 2017 Clermont-Ferrand Centre of Volcano Studies project – Evaluation panel

- 2012 to 2014 Member of National Project Commission for the volcanological projects of INGV-DPC

Appointments at Scientific Societies

- 2009 to 2014 President, Associazione Italiana di Vulcanologia

- 2011 to 2017 Leader, IAVCEI Commission on Tephra Hazard Modelling

Public concourses

Member of the selection panel at Italian institutions (University of Cosenza; University of Catania; University of Firenze; University of Cagliari; University of Pisa; INGV)

Career Achievements

- 2014 National Scientific Qualification of the Italian Ministry of Education, University, and Research (MIUR) as Full Professor of Geochemistry and Volcanology (GEO/08), sector 04/A1

- 2020 National Scientific Qualification of the Italian Ministry of Education, University, and Research (MIUR) as Full Professor of Geochemistry and Volcanology (GEO/08), sector 04/A1

Research Achievements

- Selected in 2nd percentile of the Most Influential Researchers for the Year 2019 – Plos Biology <https://doi.org/10.1371/journal.pbio.3000918>
- Top 100 Italian Researchers in Earth Sciences in 2022 and 2023 <https://research.com/scientists-rankings/earth-science/it>
- Ranked in the list of Top Italian Scientists (TIS) <https://topitalianscientists.org/>

Participation to Editorial Committees of Impacted Journals

Editorial Appointments	2013 to present	Review Editor, <i>Frontiers in Earth Science</i> , section Volcanology
	2017 to 2022	Review Editor, <i>Bulletin of Volcanology</i>
	2010 to 2014	Associate Editor, <i>Italian Journal of Geosciences</i>
	2008 to 2012	Associate Editor, <i>Periodico di Mineralogia</i>
	2002 to 2011	Associate Editor, <i>Bulletin of Volcanology</i>

Journal reviews for: *Geology*; *Geophysical Research Letters*; *J. Geophysical Research*; *Bulletin of Volcanology*; *J. Volcanology & Geothermal Research*; *AGU Geophysical Monographs*; *Chemical Geology*; *Mineralogy and Petrology*; *Geological Society of London Spec. Publ.*; *Mineralogical Magazine*; *Journal of Petrology*; *Earth Planetary Science Letters*; *Annals of Geophysics*; *Geosphere*; *Geosciences*; *Journal of Maps*; *Frontiers in Earth Sciences*; *Scientific Reports*; *Science Advance*; *Nature Communications*; *Nature*.

Proposal reviews for: Italian Ministry of Research and Education; INGV, Italy; National Science Foundation, USA; National Science Foundation, Swiss; National Science Foundation, Canada; National Science Foundation, Iceland; Agence Nationale de la Recherche, France; European Science Foundation; European Research Council; NERC, Great Britain.

Activities at International congresses

Invited presentations at several international congresses
 Invited presentations at international Summer schools.
 Invited Chapters in *Encyclopedia of Volcanoes* (Academic Press) and for several books
 Chair at several Sessions of Italian and International congresses

Steering and scientific committees of national and international congresses

SIMP 2006 (Fluminimaggiore, CA, Italy)
 Rittmann Conference 2009 (Nicolosi, CT, Italy)
 Geotalia 2009 (Rimini, Italy)
 Geotalia 2011 (Torino, Italy)
 Rittmann Conference for Young Researchers (Nicolosi, Catania, Italy)
 Rittmann Conference 2012 (Nicolosi, Catania, Italy)
 Geotalia 2013 (Pisa, Italy)
 Goldschmidt 2013 (National Committee; Field-trips Chair)
 Rittmann Conference 2014 (Nicolosi, Catania, Italy)
 SIMP-AIV-SOGEI-SGI 2015 "Il Pianeta Dinamico: sviluppi e prospettive a 100 anni da Wegener" (Florence, Italy)
 MeMoVolc EEC workshop on the "Dynamics of volcanic explosive eruption" - Geneva (CH)
 Rittmann Conference 2020, Scientific Committee (Catania, Italy)
 Rittmann Conference 2022, Scientific Committee (Catania, Italy)

Field Leader at International Congresses

1994 - IMA 16th General Meeting (Neapolitan Volcanoes)
 1995 – IAVCEI Volcanoes in Towns (Campanian Province Volcanoes)
 1996 – IAVCEI Comm. On Explosive Volcanism (Vesuvius Decade Volcano)
 1998 - IAVCEI "Cities on volcanoes 1" (Vesuvius and Phlegraean Fields)
 2001 – 10th Water Rock Interaction (San Pietro Island, Sardinia, Italy)
 2006 – Congr. SIMP (San Pietro Island, Sardinia, Italy)
 2013 - Goldschmidt 2013 (Quaternary Italian Volcanoes – From Vesuvius to Amiata)
 2018 – 10th Cities on Volcanoes, Naples (The city of Napoli and its active volcanoes)
 2018 - 10th Cities on Volcanoes, Naples (Somma-Vesuvius volcanic history and impact of the 79 AD eruption in archaeological excavations; mid-conference fieldtrip).

Memberships at Scientific Societies

IAVCEI - Int. Assoc. Volcanology and Geochemistry of the Earth Interiors
AGU - American Geophysical Union
AIV - Associazione Italiana di Vulcanologia

Association to Research Institutions

2006 – 2012 Associate Researcher at INGV, Italy
2015 – present Associate Researcher at IGG-CNR, Italy

International collaborations

Active collaborations with researchers at several international institutions (Universidad Catolica del Maule, Chile; Universidad Catolica del Norte, Chile; ESPOL, Ecuador; Instituto Geofisico, EPN, Ecuador; University of Oregon, USA; USGS, USA; SOEST, Hawaii, USA; CSIC Barcelona, Spain; CNRS-ISTO, Orleans, France; Lab. Magmas et Volcans, UCA, France; ISTeP –Université de la Sorbonne, France; University of Geneve, Switzerland; AIST-Geological Survey, Japan; National Research Institute for Earth Science and Disaster Resilience, Japan; INGV, Italy; CNR, Italy)

PUBLICATIONS

Publications and Citation Statistics (as for 10 March 2024)

Total number of publications: 157
Geological Maps: 7
Books: 2
Total number of Abstracts at Conferences: about 200

Total number of publications in peer-reviewed journals (Scopus): 125
Total number of citations (Scopus): 5071
H index (Scopus): 42

Total number of publications indexed in Google Scholar: 338
Total number of citations (Google Scholar): 7539
H Index (Google Scholar): 50 (29 since 2019)

Firenze, 10 March, 2024

In Faith
Prof. Raffaello Cioni

PERSONAL INFORMATION

Stefano Caporali



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 stefano.caporali@unifi.it
<https://scholar.google.com/citations?user=eiqvDngAAAAJ&hl=it&oi=ao>
<https://www.scopus.com/authid/detail.uri?authorId=35586338100>
 Sex Male | Date of birth ++++++ | Nationality i+++++

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

present

Associate Professor

Industrial Engineering Department (DIEF), University of Florence, Italy.
 · Research activities in the field of metallurgy and metal electroplating. Surface characterization and functionalization. Material investigation (optical and SEM microscopy, XRF, XRD, XPS, neutron -based techniques). Research projects management and teaching activities.

01 / 01 / 2014 – 30 / 11 / 2016

Post-doctoral research fellowship

Consorzio INSTM, University of Florence, Florence, Italy.
 · Research activities in the field of electrodeposition of aluminium. Electrochemical investigation (cyclic voltammetry, cronoamperometry, EIS, OCVs). Scaling up of the Al-electroplating process at industrial scale. Design of a pilot plant. Modeling by means of Comsol Multiphysics of the electrodeposition cell. Material investigation (optical and SEM microscopy, XRF, XRD, XPS).

01 / 02 / 2013 – 31 / 01 / 2014

Post-doctoral research fellowship

Regione Toscana POR FSE 2007-2013), University of Florence, Italy.
 · Research activities in the field of metallurgy and metal electroplating. Surface characterization and functionalization. Material investigation (optical and SEM microscopy, XRF, XRD, XPS, neutron -based techniques). Research projects management and teaching activities.

15 / 04 / 2010 – 14 / 04 / 2012

Post-doctoral research fellowship

Department of Chemistry, University of Florence, Florence , Italy.
 · Research activities in the field of electrodeposition of new materials. Electrodeposition from non-aqueous solvents, electrochemical (cyclic voltammetry, cronoamperometry) and corrosion linear voltammetry, Tafel plots, EIS, OCVs) techniques. Free corrosion tests and investigation of corrosion mechanism. Surface morphological (optical and SEM microscopy) and chemical characterization (EDX, XRD).

15 / 04 / 2010 – 14 / 04 / 2012

Post-doctoral research fellowship

Regione Toscana POR FSE 2007-2013), University of Florence, Italy.
 · Research in the field of planetary science carried out by means of spectroscopic (Micro-Raman, SERS-Raman, XPS, LEIS, XRD etc) and microscopic (SEM, optical) techniques. Computer assisted micro tomography. Database management. Writing of scientific papers.

01 / 03 / 2006 - 14 / 01 / 2010

Post-doctoral research fellowship

Department of Chemistry, University of Florence, Florence, Italy.
 · Research activities in the field of electrodeposition of new materials. Electrodeposition from non-aqueous solvents, electrochemical (cyclic voltammetry, cronoamperometry) and corrosion linear voltammetry, Tafel plots, EIS, OCVs) techniques. Free corrosion tests and investigation of corrosion mechanism. Surface morphological (optical and SEM microscopy) and chemical characterization (EDX, XRD, XPS, LEIS, AES).

EDUCATION AND TRAINING

- 01 / 01 / 2003 – 31 / 12 / 2005 **PhD in “Material Science and Technology”**
University of Florence, Italy
· Thesis title: Deposizione per via elettrochimica di metalli e semiconduttori da liquidi ionici (“Metals and Semiconductors deposition via electrochemical route from Ionic Liquids”).
- 22 / 07 / 2010 **Master degree in Geology (Mark: 110 cum laude / 110)**
University of Florence, Italy
· Title: “Indagine minero-chimica e petrografica di acondriti primitive” (“Petrological and minero-chemical investigation of primitive achondrites”)
- 01 / 01 / 2003 – 31 / 12 / 2005 **Master degree in Chemistry (Mark: 108 / 110)**
University of Florence, Italy
· Title: “Deposizione epitassiale di strati sottili di semiconduttore per via elettrochimica su monocristallo di argento” (“Epitaxial electrodeposition of semiconductor thin layers onto Silver single crystal”).

PERSONAL SKILLS

- Mother tongue(s) Italian
Other language(s) English (C1)
- Job-related skills -Experimental surface scientist, expert user of XPS, STM, AFM, SIMS, LEIS. Expert user and teacher of electrodeposition and electrochemical methods of analysis especially devoted to corrosion phenomena and semiconductor deposition. Microscopy investigation, Neutron based techniques. Management of project teams.
PI, scientific coordinator, and participant to several local, national, and international projects concerning the development/study of materials.
- Digital skills - Microsoft Windows, Office Suite (except for Access)
- Other skills - Associate editor and member of the Editorial Board of several international journals.
Editorial board member of “Coatings”, MDPI Editor (ISSN 2079-6412), from 2020 till now <https://www.mdpi.com/journal/coatings>
Regional Editor of “Innovations in Corrosion and Materials Science”, Bentham Science Publishers, from 2010 till now. <https://benthamscience.com/journals/innovations-in-corrosion-and-materials-science/editorial-board/>
Guest Editor special issue “Nanoparticles and Nanostructured Coatings: Synthesis, Processing and Applications” Journal “Coatings” MDPI Editor 2019. https://www.mdpi.com/journal/coatings/special_issues/nano_coat
Guest Editor special issue “High pressure Minerals” Journal “Minerals” MDPI Editor 2017. https://www.mdpi.com/journal/minerals/special_issues/high_pressure

ADDITIONAL INFORMATION

- Publications total number of publications in peer-review journals: 118 (Scopus, Dec. 2, 2024)
total number of citations: 2999 (Scopus, Dec. 2, 2024)
H index: 30 (Scopus, Dec. 2, 2024)

1. Impemba S.; Provinciali G.; Filippi J.; Caporali S.; Muzzi B.; Casini A.; Caporali M. Tightly Interfaced Cu_2O with In_2O_3 to Promote Hydrogen Evolution in Presence of Biomass-Derived Alcohols. *CHEMNANOMAT*, **2024** pp. 1-11, ISSN:2199-692X <https://doi.org/10.1002/cnma.202400459>
2. Lapo Gabellini, Nicola Calisi, Stefano M. Martinuzzi, Rosa Taurino, Stefano Caporali Assessment Of Corrosion Behaviour Of Some Aluminium Alloys Via Electrochemical And Free Corrosion Tests In Acidic And Neutral Environments. *Corrosion Protection*, **2024** vol. 2, pp. 58-65.
3. Rosa Taurino, Giovanni Bolelli, Patrizia Messi, Ramona Iseppi, Francesca Borgioli, Emanuele Galvanetto, Stefano Caporali, Investigation of chemical, physical and mechanical properties of hybrid chitosan-silica based coatings for aluminium substrate, *Surf. Coat. Technol.*, **2024**, Volume 493, Part 2, 131265, <https://doi.org/10.1016/j.surfcoat.2024.131265>.
4. Salvatore Impemba, Giacomo Provinciali, Jonathan Filippi, Cristina Salvatici, Enrico Berretti, Stefano Caporali, Martina Banchelli, Maria Caporali, Engineering the heterojunction between TiO_2 and In_2O_3 for improving the solar-driven hydrogen production, *Intern. J. Hydrogen Ener.*, **2024**, 63, 896-904.
5. Cannio, M.; Boccaccini, D.N.; Caporali, S.; Taurino, R. Superhydrophobic Materials from Waste: Innovative Approach. *Clean Technol.* **2024**, 6, 299-321. <https://doi.org/10.3390/cleantechnol6010015>
6. Caporali S.; Gabellini L.; Paoli P. Studio della resistenza a corrosione di leghe di alluminio in sudore sintetico mediante tecniche di scansione di potenziale e corrosione libera. *Metall. Ital.*, **2024** vol. 84, pp. 81-85.
7. Shehaj X, Caporali S, Palomba E, Pratesi G. Textural Study of Vesicles in Tagish Lake (C2-ung) Meteorite Fusion Crust: Constraints on Vesicle Formation during Their Entry into the Earth's Atmosphere. *Minerals*. **2024**; 14(1):99. <https://doi.org/10.3390/min14010099>.
8. Rosa Taurino, Stefano Caporali, Francesca Borgioli, Emanuele Galvanetto, Development and characterization of chitosan hybrid coatings by Sol-gel method, *Materials, Methods & Technologies*, Volume 17, **2023**, pag 34-41.
9. Nicola Calisi, Stefano Mauro Martinuzzi, Andrea Giaccherini, Massimo Innocenti, Matteo Mannini, Francesco Carlà, Stefano Caporali, CsPbBr_3 perovskite thin films by magnetron sputtering: The role of the substrate on texture and morphology, *Thin Solid Films*, Volume 783, **2023**, 140057, <https://doi.org/10.1016/j.tsf.2023.140057>
10. Giacomo Provinciali, Jonathan Filippi, Alessandro Lavacchi, Stefano Caporali, Martina Banchelli, Manuel Serrano-Ruiz, Maurizio Peruzzini, Maria Caporali Black phosphorus as Promoter for Noble Metal-Free Photocatalytic Hydrogen Production *ChemCatChem* **2023**, 15, e202300647 <https://doi.org/10.1002/cctc.202300647>
11. Caporali, S.; Martinuzzi, S.M.; Gabellini, L.; Calisi, N. Magnetron Sputtering Deposition of High Quality $\text{Cs}_3\text{Bi}_2\text{I}_9$ Perovskite Thin Films. *Materials* **2023**, 16, 5276. <https://doi.org/10.3390/ma16155276>.
12. Giaccherini A, Zafferoni C, Caporali S. Impiego di simulazioni multifisiche per l'efficientamento dei processi Galvanici e di Elettroformatura *GALVANOTECNICA E NUOVE FINITURE* vol 3, **2023**, pag 157-160
13. Gabellini, L.; Calisi, N.; Martinuzzi, S.M.; Taurino, R.; Innocenti, M.; Bacci, T.; Borgioli, F.; Galvanetto, E.; Caporali, S. Effect of Bath Composition on Titanium Anodization Using the Constant-Current Approach: A Crystallographic and Morphological Study. *Coatings* **2023**, 13, 1284. <https://doi.org/10.3390/coatings13071284>.
14. Giovanni Morello, Stefania Milanese, Maria Luisa De Giorgi, Nicola Calisi, Stefano Caporali, Francesco Biccari, Naomi Falsini, Anna Vinattieri, Marco Anni, Temperature-Dependent Amplified Spontaneous Emission in CsPbBr_3 Thin Films Deposited by Single-Step RF-Magnetron Sputtering, *Nanomaterials* **2023**, 13, 306.
15. Cicogna, F.; Bramanti, E.; Campanella, B.; Caporali, S.; Panariello, L.; Cristallini, C.; Ishak, R.; Barbani, N.; Passaglia, E.; Coiai, S. Surface Functionalization of Face Masks with Cold Plasma and Its Effect in Anchoring Polyphenols Extracted from Agri-Food. *Molecules* **2022**, 27, 8632. <https://doi.org/10.3390/molecules27238632>
16. Matteo Vanni, Giacomo Provinciali, Fuencisla Delgado Calvo, Elisa Carignani, Sébastien Dreyfuss, Nicolas Mézailles, Antonio Massimiliano Mio, Giuseppe Nicotra, Stefano Caporali, Silvia Borsacchi, Maurizio Peruzzini, Maria Caporali, Ru-P Nanoalloy from Elemental Phosphorus as P-Source: Synthesis, Characterization and Catalytic Evaluation, *ChemCatChem* **2022**, 14(17), e202200685
17. N. Calisi, E. Galvanetto, F. Borgioli, S. M. Martinuzzi, T. Bacci, S. Caporali, Thin films deposition of fully inorganic metal halide perovskites: A review, *Materials Science in Semiconductor Processing*, **2022**, 147, 106721

18. S. M. Martinuzzi, L. Donati, W. Giurlani, F. Pizzetti, E. Galvanetto, N. Calisi, M. Innocenti, S. Caporali. A Comparative Research on Corrosion Behavior of Electroplated and Magnetron Sputtered Chromium Coatings. *Coatings* **2022**; 12(2):257.
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20. N. Calisi, S. Martinuzzi, A. Giaccherini, C. S. Pomelli, L. Guazzelli, S. Caporali, Temperature and angle resolved XPS study of BMLm Cl and BMLm FeCl₄, *J. Electron Spectroscopy and Related Phenomena*, **2021** (247), 147034; doi.org/10.1016/j.elspec.2020.147034
21. N. Calisi, S. Caporali, Investigation of Open Air Stability of CsPbBr₃ Thin-Film Growth on Different Substrates, *Appl. Sci.* **2020**, 10 (21), 7775;
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33. SERS, XPS and DFT investigation on palladium surfaces coated with 2,2'-bipyridine monolayers M. Muniz-miranda, F. Muniz-Miranda, S. Caporali, N. Calisi, A. Pedone, *Applied Surface Science* **2018**, 475, 98-103. .
34. Composition-Dependent Degradation of Hybrid and Inorganic Lead Perovskites in Ambient Conditions, N. Calisi, S. Caporali, A. Milanese, M. Innocenti, E. Salvietti, U. Bardi, *Topics in Catalysis* **2018**, 61: 1201. <https://doi.org/10.1007/s11244-018-0922-5>
35. Ethyl lactate from dihydroxyacetone by a montmorillonite-supported Pt(II) diphosphane complex, Werner Oberhauser, Claudio Evangelisti, Stefano Caporali, Vladimiro Dal Santo, Filippo Bossola, Francesco Vizza. *Journal of Catalysis* **2017**, 350, 133-140.
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39. Tuci, Giulia; Luconi Lapo; Rossin Andrea; Berretti Enrico; Ba Housseinou; Innocenti Massimo; Yakhvarov Dmitry; Caporali Stefano; Pham-Huu Cuong and Giambastiani Giuliano. Aziridine-Functionalized Multiwalled Carbon Nanotubes: Robust and Versatile Catalysts for the Oxygen Reduction Reaction and Knoevenagel Condensation. *ACS Applied materials and interfaces* **2016**, *8*, 30099-30106.
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44. E. Giorgetti, M. Muniz Miranda, S. Caporali, P. Canton, P. Marsili, C. Vergari, F. Giammarco, TiO₂ nanoparticles obtained by laser ablation in water: influence of pulse energy and duration on the crystalline phase. *Journal of Alloys and Compounds* **643** (2015) S75-S79
45. A. Beni, N. Ott, S. Caporali, O. Guseva, P. Schmut, Passivation/precipitation mechanisms of Al-Cr-Fe Complex Metallic Alloys in acidic chloride containing electrolyte, *Electrochim. Acta* vol **179** (2015) 411-422.
46. Emilia Giorgetti, Paolo Marsili, Stefano Cicchi, Luisa Lascialfari, Matteo Albani, Mirko Severi, Stefano Caporali, Maurizio Muniz Miranda, Alessandro Pistone, Francesco Giammanco, Preparation of small size palladium nanoparticles by picosecond laser ablation and control of metal concentration in the colloid, *Journal Colloids and interface Science* **442** (2015) 89-96.
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Date

Signature

F.to

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Personale

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Orario di ricevimento

Italiano

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Curriculum
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Valentina RIMONDI

Curriculum

- Gennaio 2022- data attuale: Ricercatore a tempo determinato (RTDb) (SSD GEO/09), Dipartimento di Scienze della Terra, Università degli Studi di Firenze
- Giugno 2017- dicembre 2022: Ricercatore a tempo determinato (RTDa) (SSD GEO/09), Dipartimento di Scienze della Terra, Università degli Studi di Firenze
- Maggio 2014-novembre 2016: Assegnista di ricerca (PhD), Istituto di Geoscienze e Georisorse, Consiglio Nazionale delle Ricerche (IGG-CNR), Sede di Firenze. Tematica di ricerca: "Ricostruzione delle caratteristiche fisico-chimiche dei fluidi che circolavano in serbatoi geotermici fossili esumati e misure di temperature in pozzi geotermici mediante inclusioni fluide sintetiche".
- Aprile 2013- marzo 2014: Assegnista di ricerca (PhD), Dipartimento Scienze della Terra di Firenze, Tematica di ricerca: "Metodi di studio ed analisi di trasporto del trasporto di metalli pesanti in Toscana Meridionale"
- Aprile 2013: conseguimento Dottorato di ricerca in Scienze della Terra (GEO/09), Università degli Studi di Firenze. Titolo tesi: "*Distribution of mercury and other trace element in the Mt. Amiata region (Southern Tuscany, Italy)*".
- Luglio 2009: Laurea Specialistica in Georisorse e Ambiente (Scienze Geologiche), Università degli Studi di Firenze. Titolo tesi: "*Mineralogia, geochimica e Inclusioni fluide dei travertini idrotermali di Monte Arsenti (Grosseto) e Castelnuovo dell'Abate (Siena)*".
- Febbraio 2007: Laurea Triennale in Scienze Geologiche, Università degli Studi di Firenze. Titolo tesi: "*Determinazione dell'arsenico nella frazione carbonatica dei travertini della Media Val di Pecora (Massa Marittima, Grosseto)*".



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Personale

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Note

Valentina RIMONDI

Pubblicazioni

Legenda

Contributo su rivista | Articolo su libro | Libro | Contributo in atti di convegno (proceeding) | Brevetto | Curatela | Altro | Tesi di Dottorato

- Alessio Monnanni, Valentina Rimondi, Guida Morelli, Alessia Nannoni, Alessandra Cincinelli, Tania Martellini, David Chelazzi, Marco Laurati, Laura Sforzi, Francesco Ciani, Pierfranco Lattanzi, Pilario Costagliola (2024). Microplastics and microfibers contamination in the Arno River (Central Italy): Impact from urban areas and contribution to the Mediterranean Sea. *SCIENCE OF THE TOTAL ENVIRONMENT*, vol. 955, pp. 1-17, ISSN:0048-9697
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