

## CURRICULUM VITAE

### INFORMAZIONI PERSONALI

Nome

Profilo

### ESPERIENZE LAVORATIVE

#### AMADEI ELENA

Collaboratore di Amministrazione V livello

Dal 01/11/2004 a oggi Collaboratore di Amministrazione presso INFN

**Responsabile del Servizio di Direzione e del Personale della Sezione Bologna dal 01/06/2007 e, dal 22/05/2017, anche del CNAF.** Al servizio afferiscono 3 persone oltre al Responsabile.

In questi anni ho partecipato a diversi Gruppi di Lavoro del CD e della Direzione del Personale.

Dal 14/04/2000 al 31/10/2004

Presso INFN – Istituto nazionale per la Fisica della Materia, Unità di Ricerca di Bologna  
Collaboratore di Amministrazione VII livello professionale, con contratto a tempo determinato della durata di 5 anni.

Dal 01/10/1996 al 21/10/1999

Presso COMET Spa, sede centrale di Bologna  
Impiegata Amministrativa di III livello presso l'ufficio acquisti.

01/12/1992 al 30/09/1996

Presso OSRAM Spa Filiale di Bologna  
Impiegata Amministrativa di IV livello con mansioni di Corrispondente Commerciale.

Dal 01/11/1986 al 30/11/1992

Presso CEDIR Ceramiche di Romagna Spa  
Impiegata Amministrativa di IV livello con mansioni di Corrispondente Commerciale.

### ISTRUZIONE

Diploma di Maturità Perito Agrotecnico conseguito presso l'Istituto Professionale di Stato per l'Agricoltura F. Caldesi di Faenza nell'anno scolastico 1982/83 con il punteggio di 52/60.

Attestato di qualifica professionale "Corso di formazione per quadri di marketing" organizzato dalla Regione Emilia-Romagna e dal Fondo Sociale Europeo, conseguito nell'anno 1986.

ECDL (European Computer Driving Licence), conseguita il 21/04/2006.

### LINGUE

Discreta conoscenza della lingua inglese parlata e scritta.

Conoscenza del francese a livello scolastico.

Autorizzo il trattamento dei miei dati personali ai sensi del D.lgs. 196 del 30 giugno 2003.

Data 31/08/2022

Mauro Giugovaz

### **Esperienze lavorative**

- da 01/1987 a 10/1987 – da 01/1989 a 06/1992 – *Unione dei farmacisti del F.V.G. settore farmaceutico*  
Ruolo: *(impiegato commerciale)*  
Mansioni: *(gestione fornitori)*
- da 07/1992 a tuttora – INFN Sezione di Trieste  
*settore ricerca*  
Ruolo: *(responsabile amministrativo)*  
Mansioni: *(coordinamento del servizio nell'adempimento della gestione amministrativa nei settori contabili e di bilancio, patrimoniali, contrattuali)*

### **Istruzione**

da 10/1996 a 07/2002 - **Università degli studi di Trieste**  
Qualifica conseguita: dottore in scienze politiche

### **Conoscenze linguistiche**

- **Lingua:** Inglese

### **Conoscenze informatiche**

*Applicazioni office*

*Piattaforma gestionale Oracle*

### **Formazione**

*Dal 1992 a oggi partecipo costantemente a tutti i corsi tematici organizzati nell'ambito del Piano Nazionale formativo aventi oggetto aggiornamenti fiscali, contabili, patrimoniali, contrattuali e gestionali.*

### **Attività**

*Ricopro la carica a seguito nomina del direttore di struttura, di responsabile del Servizio di amministrazione a far data 1 maggio 2004, dopo aver ricoperto varie mansioni gestionali*

*soprattutto nell'area fiscale e patrimoniale dall'atto dell'assunzione.*

*In qualita' di responsabile coordino l'attivit  del servizio nell'adempimento delle operazioni a seconda dell'area di pertinenza, essa sia di natura contrattuale, contabile e di bilancio, patrimoniale o fiscale, oltre la gestione delle trasferte del personale e dei fondi esterni, di cui sono referente locale e gestore finanziario.*

## **Prof. Fabio Mantovani**

Department of Physics and Earth Sciences  
University of Ferrara  
Via Saragat 1 - 44122 - Ferrara - Italy  
mantovani@fe.infn.it  
<https://www.fe.infn.it/radioactivity/>

### **RÉSUMÉ**

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Fabio Mantovani graduated in Physics at the University of Ferrara in 2002 and since then he began working on geoneutrinos and gamma-ray spectroscopy, topics of great interest which exhibit currently strong interconnections among physical, geological and environmental disciplines. During his graduate studies in Earth science at the University of Siena he carried out research activities in these scientific areas. The main outcomes of these studies have been collected in a PhD thesis dedicated to the investigation of the potential of geoneutrinos as a probe for exploring the Earth.

After starting in 2008 his activity as a research fellow at the University of Ferrara, Fabio Mantovani published global models for the prediction of geoneutrino signal expected at the KamLAND, Borexino, SNO+ and JUNO experiments. These studies immediately became references at international level. After more than 60 scientific papers published together with Earth scientists and particle physicists, he is firmly convinced of the exceptional potentialities arising from the interplay of skills transcending conventional academic boundaries. He participated in many scientific committees of international congresses, and organized and supported dedicated sessions, summer institutes and summer schools.

Concurrently, Fabio Mantovani gained a strong expertise in management as he founded in 2006 the *Laboratory of Applied Geophysics* at the Center for GeoTechnology (University of Siena) and in 2010 the *Laboratory for Nuclear Technologies Applied to the Environment* at the Department of Physics and Earth Sciences (University of Ferrara).

Fabio Mantovani believes that the success of an idea strongly depends on the efficiency with which the scientific, technological and economic activities interplay with each other. Supported by international collaborations and winning grants, he contributed to consolidate a team of young researchers which realized successful projects in airborne gamma-ray spectroscopy, radioactivity mapping and nuclear technologies for nuclear wastes, NORMs (Naturally Occurring Radioactive Materials) and agriculture 4.0. His curiosity led him to explore new fields in which nuclear physics can be applied, inventing a patent, contributing to map the natural radioactivity of several Italian regions and developing new Unmanned Aerial Vehicle (UAV) for radioactivity monitoring. Recently his efforts are focused on bridging the gap between academic research and industrial commercialization together with many private companies.

Since “if you want to master something, teach it”, Fabio Mantovani has always carried out an intensive teaching activity with courses at the University of Siena and University of Ferrara, on arguments of Astrophysics, of Terrestrial Physics and of General physics. He was advisor/co-advisor of 16 Bachelor Theses, 13 Master Theses and 11 PhD Theses. He also had several outreach and dissemination initiatives.

As an INFN (National Institute for Nuclear Physics) associate researcher, he is the coordinator of the Ferrara section of the JUNO experiment since 2015 and member of Scientific National Committee II since 2017.

From February 2017 to February 2018 he was member of Academic Senate of the University of Ferrara.

From February 2018 Fabio Mantovani is presently associate professor of Physics of the Earth and of the circumterrestrial medium (FIS/06) at the University of Ferrara.

In September 2019 he obtained the Italian national scientific habilitation for full professor.

**Summary**

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DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000). Il sottoscritto Fabio Mantovani, consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel presente curriculum vitae corrispondono a verità. Ferrara, 25/10/2021.

## ACADEMIC CAREER

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*September 2019*

Italian National Scientific Habilitation – Full professor in Astronomy, Astrophysics, Physics of the Earth and the Planets (02/C1)

*February 2018*

Associate professor in Physics of the Earth and of the circumterrestrial medium (FIS/06) – Department of Physics and Earth Sciences – University of Ferrara

*November 2008*

Assistant professor in Nuclear and Subnuclear Astrophysics (FIS/04) – Department of Physics and Earth Sciences – University of Ferrara

*November 2006*

Two-year post-doc position at Center for GeoTechnology - University of Siena

*October 2006*

PhD in Earth Science – University of Siena

Thesis: *Geo-neutrinos: a new probe of Earth's interior*

*October 2002*

Four-year doctoral fellowship – University of Siena

*November 2001*

Master's degree in physics - University of Ferrara

Thesis: *Cosmic microwave radiation and the determination of cosmological observables*

## PRESENT INSTITUTIONAL SERVICES

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*From 2018* member of Scientific Committee of [Tecnopolo Terra&AcquaTech](#)

*From 2017* member of [National Scientific Committee II](#) (Astroparticle physics experiments) - National Institute for Nuclear Physics (INFN)

*From 2015* member of the Steering Committee of [International School on AstroParticle Physics](#) (ISAPP) - European Doctorate School

*From 2014* local coordinator of JUNO experiment (Jiangmen Underground Neutrino Observatory - China) at INFN Ferrara section

*From 2014* member of the academic board for the PhD in Physics of University of Ferrara

*From 2009* head of the [Laboratory for nuclear technologies applied to the environment](#) of University of Ferrara

## ENDED INSTITUTIONAL SERVICES

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*2019:* member of the PhD examining committee in Earth Science, University of Maryland

*2017 - 2018:* member of Academic Senate, University of Ferrara

*2016 - 2017:* member of University Research Council, University of Ferrara

*2013- 2017:* member of COST Action TU1301 - [NORM for Building materials](#) (NORM4BUILDING)

*2016:* member of the PhD admission committee in Physics (XXXII cycle), University of Ferrara

*2016:* member of the PhD admission committee in Earth Science, University of Maryland

*2014:* member of the PhD admission committee in Physics (XXX cycle), University of Ferrara

*2013:* member of the PhD Thesis Committee, PhD in Earth Science, Université Joseph Fourier of Grenoble

*2013:* member of the PhD admission committee in Physics (XXIX cycle), University of Ferrara

*2007 - 2009:* head of the Laboratory for applied geophysics at Center for GeoTechnology, University of Siena

## PRINCIPAL INVESTIGATOR OF RESEARCH PROJECTS

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Period	Acronim	Title of the project	Funding agency
2020 2023	RADHAWK	Gamma-ray spectrometry systems for UAV	DroneLab S.r.l.
2020 2023	LIGHTHOUSE3D	New online 3D imaging technologies for geophysical surveys	Lighthouse S.p.A.
2020 2022	TOMMY	Gamma and x spectroscopy applied to study agricultural soils	Bi-Rex Consortium
2012 2020	ITALRAD	Mapping the natural radioactivity of the Italian territory with gamma-ray spectroscopy surveys.	MIUR – Premium project
2015 2019	UMBRIA RAD	Mapping the effective dose rate of the population living in Umbria due to terrestrial and cosmic radiations	Umbria Region
2015 2019	ATTIVAMENTE	Going to the school together with radioactivity	CARIPARO Foundation

## CO-INVESTIGATOR OF RESEARCH PROJECTS

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Period	Acronim	Title of the project	Funding agency
2019 2021	POSITIVE	Scalable Operating Protocols for precision agriculture	Emilia Romagna Region - POR-FESR
2016 2018	ALADIN	Smart Hydro Agri-food	Emilia Romagna Region - POR-FESR
2009 2013	RAD MONITOR	Distribution of natural radioelements across the Veneto Region using airborne gamma-ray spectrometry	CARIPARO Foundation
2008 2010	RADNAT	Potential content of natural radioactivity of the Region of Tuscany territory	Tuscany Region - CIPE

## SCIENTIFIC CONSULTANT

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Period	Acronim	Title of the project	Funding agency
2020 2021	RAD DRONE	Airborne gamma ray spectroscopy on board of aircraft and drones	Italian Aerospace Research Centre - CIRA
2020 2021	SPOILER	Gamma spectrometer for the on-site characterization of unconventional medical radioactive waste	Emilia Romagna Region - POR-FESR
2019 2020	RAD GRANITE	Studying petrofacies of granitic bodies using gamma-ray logs	ENEL Green Power
2018 2020	CORSAIR	Cloud Oriented Radiation Sensor for Advanced Investigation of Rocks	Tuscany Region - POR-FESR

## PATENTS

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No. RM2012A000180 26 April 2012

Property: University of Ferrara, University of Siena and Carlos Rossi Alvarez

Inventors: Fabio Mantovani, Gerti Xhixha, Tommaso Colonna, Carlos Rossi Alvarez

Title: "[Dispositivo attivo MCA stand-alone per la digitalizzazione di segnali di spettroscopia gamma outdoor](#)"

Ns. Rif.: BREV/ bc/A1722

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000). Il sottoscritto Fabio Mantovani, consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel presente curriculum vitae corrispondono a verità. Ferrara, 25/10/2021.

## MEMBER OF SCIENTIFIC COMMITTEES

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2019 - [Neutrino Geoscience 2019 Conference](#) - Prague - 21-23 October - Czech Republic  
2015 - now - [International School on AstroParticle Physic](#) - ISAPP - European Doctorate School  
2015 - 2018 - [Summer School in Nuclear Physics and Technologies](#) - University of Ferrara and the College of Engineering of the University of Texas at Austin  
2018 - [Summer Institute \(ISAPP\): using particle physics to understand and image the Earth](#) (II ed.) - Ferrara - 2-12 July - Italy  
2016 - [Summer Institute \(ISAPP\): using particle physics to understand and image the Earth](#) (I ed.) - Gran Sasso Science Institute - 11-21 July - Italy  
2015 - [Neutrino Geoscience 2015 Conference](#) - Paris - 15-17 June - France  
2015 - [International Workshop on KamLAND Geoscience](#) - Tokyo - 15-16 January - Japan  
2013 - Convener of the session - [Geoneutrino: the nexus of particle physics and Earth science](#) - Goldschmidt 2013 - Florence - 27 August - Italy  
2013 - [Neutrino Geoscience 2013 Conference](#) - Takayama - 23-23 March - Japan  
2010 - [Neutrino Geoscience 2010 Conference](#) - Gran Sasso Laboratory - 6-8 October - Italy

## REFEREE FOR SCIENTIFIC JOURNALS

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Annals of Geophysics ([Ann Geophys Italy](#))  
Applied Radiation and Isotopes ([Appl. Radiat. Isot.](#))  
Arabian Journal of Geosciences ([Arab J Geosci Journal](#))  
Computers & Geosciences ([Comput Geosci](#))  
Earth and Planetary Science Letter ([EPSL](#))  
Environmental Earth Sciences ([Environ. Earth Sci.](#))  
European Journal of Mineralogy ([Eur. J. Mineral.](#))  
Geosciences ([Geosciences](#))  
Journal of African Earth Sciences ([J Afr Earth Sci](#))  
Journal of Environmental Radioactivity ([JER](#))  
Journal of Geodynamics ([J Geodyn](#))  
Journal of Instrumentation ([JINST](#))  
Journal of Radiological Protection ([JRPR](#))  
Physical Review D ([PRD](#))  
Progress in Particle and Nuclear Physics ([Prog. Part. Nucl. Phys.](#))  
Remote Sensing ([Remote Sens.](#))  
Reviews of Geophysics ([Rev. Geophys.](#))



**2021**

Marini, M., S. Panicacci, M. Donati, L. Fanucci, E. Fanchini, A. Peperosa, M. Morichi, M. Albéri, E. Chiarelli, M. Montuschi, K.G.C. Raptis, A. Serafini, V. Strati, F. Mantovani. *An Easily Integrable Industrial System for Gamma Spectroscopic Analysis and Traceability of Stones and Building Materials*. Sensors, 21, 352 (2021). DOI 10.3390/s21020352 ([pdf](#)).

Abusleme, A., et al. [JUNO Collaboration]. *Feasibility and physics potential of detecting 8B solar neutrinos at JUNO*. Chinese Physics C 45(2) (2021). DOI 10.1088/1674-1137 ([pdf](#)).

Abusleme, A., et al. [JUNO Collaboration]. *Optimization of the JUNO liquid scintillator composition using a Daya Bay antineutrino detector*. Nuclear Instruments and Methods in Physics Research Section A, 988, 164823 (2021). DOI 10.1016/j.nima.2020.164823 ([pdf](#)).

Bellato M., A. Bergnoli, A. Brugnera, S. Chen, Z. Chen, B. Clerbaux, F. dal Corso, D. Corti, J. Dong, G. Galet, A. Garfagnini, A. Giaz, G. Gong, C. Grewing, J. Hu, R. Isocrate, X. Jiang, F. Li, F. Li, I. Lippi, F. Marini, Z. Ning, A. Olshevskiy, D. Pedretti, P.A. Petitjean, M. Robens, V. Shutov, A. Stahl, J. Steinmann, Y. Sun, S. van Waasen, Y. Wang, Z. Wang, W. Wei, X. Yan, Y. Yang, A. Aiello, A. Andronico, V. Antonelli, W. Bandini, A. Brigatti, A. Barresi, A. Budano, R. Bruno, A. Cabrera, A. Cammi, R. Caruso, D. Chiesa, C. Clementi, S. Costa, X. Ding, S. Dusini, A. Fabbri, M. Fargetta, G. Fiorentini, R. Ford, A. Formozov, M. Giammarchi, M. Grassi, C. Landini, P. Lombardi, C. Lombardo, Y. Malyskin, F. Mantovani, S.M. Mari, C. Martellini, A. Martini, E. Meroni, M. Mezzetto, L. Miramonti, P. Montini, M. Montuschi, M. Nastasi, F. Ortica, A. Paoloni, S. Parmeggiano, N. Pelliccia, E. Previtalli, G. Ranucci, D. Riondino, A.C. Re, B. Ricci, A. Romani, P. Saggese, G. Salamanna, F.H. Sawy, A. Serafini, G. Settanta, C. Sirignano, M. Sisti, L. Stanco, V. Strati, C. Tuvé, G. Verde, L. Votano, J. Zhang. *Embedded readout electronics R&D for the large PMTs in the JUNO experiment*. Nuclear Instruments and Methods in Physics Research Section A, 985, 164600 (2021). DOI 10.1016/j.nima.2020.164600 ([pdf](#)),

**2020**

Bottardi C., M. Albéri, M. Baldoncini, E. Chiarelli, M. Montuschi, K.G.C. Raptis, A. Serafini, V. Strati, F. Mantovani. *Rain rate and radon daughters' activity*. Atmospheric Environment, 238, 117728 (2020). DOI 10.1016/j.atmosenv.2020.117728 ([pdf](#)).

Agostini, M., et al. [Borexino Collaboration]. *Comprehensive geoneutrino analysis with Borexino*. Physical Review D 101(1), 012009 (2020). DOI 10.1103/PhysRevD.101.012009 ([pdf](#)).

Filippucci, P., A. Tarpanelli, C. Massari, A. Serafini, V. Strati, M. Alberi, K. G. C. Raptis, F. Mantovani, L. Brocca. *Soil moisture as a potential variable for tracking and quantifying irrigation: a case study with proximal gamma-ray spectroscopy data*. Advances in Water Resources, 136, 103502 (2020). DOI 10.1016/j.advwatres.2019.103502 ([pdf](#)).

Fabbri, B., M. Valt, C. Parretta, S. Gherardi, A. Gaiardo, C. Malagù, F. Mantovani, V. Strati, V. Guidi. *Correlation of gaseous emissions to water stress in tomato and maize crops: From field to laboratory and back*. Sensors and Actuators B: Chemical, 303, 127227 (2020). DOI 10.1016/j.snb.2019.127227 ([pdf](#)).

**2019**

Pedretti, D., Bellato, M., Isocrate, R., Bergnoli, A., Brugnera, R., Corti, D., Corso, F. D., Galet, G., Garfagnini, A., Giaz, A., Lippi, I., Marini, F., Andronico, G., Antonelli, V., Baldoncini, M., Bernieri, E., Brigatti, A., Budano, A., Buscemi, M., Bussino, S., Caruso, R., Chiesa, D., Clementi, C., Ding, X. F., Dusini, S., Fabbri, A., Ford, R., Formozov, A., Giammarchi, M., Grassi, M., Insolia, A., Lombardi, P., Mantovani, F., Mari, S. M., Martellini, C., Martini, A., Meroni, E., Miramonti, L., Monforte, S., Montini, P., Montuschi, M., Nastasi, M., Ortica, F., Paoloni, A., Previtalli, E., Ranucci, G., Re, A. C., Ricci, B., Romani, A., Salamanna, G., Sawy, F. H., Settanta, G., Sisti, M., Sirignano, C., Stanco, L., Strati, V., Verde, G. *Nanoseconds Timing System Based on IEEE 1588 FPGA Implementation*. IEEE Transactions on Nuclear Science 2019, 66, (7), 1151-1158 (2019). DOI 10.1109/TNS.2019.2906045 ([pdf](#)).

Reguzzoni, M., L. Rossi, M. Baldoncini, I. Callegari, P. Poli, D. Sampietro, V. Strati, F. Mantovani, G. Andronico, V. Antonelli, M. Bellato, E. Bernieri, A. Brigatti, R. Brugnera, A. Budano, M. Buscemi, S. Bussino, R. Caruso, D. Chiesa, D. Corti, F. Dal Corso, X. F. Ding, S. Dusini, A. Fabbri, G. Fiorentini, R. Ford, A. Formozov, G. Galet, A. Garfagnini, M. Giammarchi, A. Giaz, M. Grassi, A. Insolia, R. Isocrate, I. Lippi, F. Longhitano, D. Lo Presti, P. Lombardi, Y. Malyskin, F. Marini, S. M. Mari, C. Martellini, E. Meroni, M. Mezzetto, L. Miramonti, S. Monforte, M. Montuschi, M. Nastasi, F. Ortica, A. Paoloni, S.

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000). Il sottoscritto Fabio Mantovani, consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel presente curriculum vitae corrispondono a verità. Ferrara, 25/10/2021.

Parmeggiano, D. Pedretti, N. Pelliccia, R. Pompilio, E. Previtali, G. Ranucci, A. C. Re, B. Ricci, A. Romani, P. Saggese, G. Salamanna, F. H. Sawy, G. Settanta, M. Sisti, C. Sirignano, M. Spinetti, L. Stanco, G. Verde and L. Votano. *GIGJ: a crustal gravity model of the Guangdong Province for predicting the geoneutrino signal at the JUNO experiment*. Journal of Geophysical Research: Solid Earth, 2169, 9313-9342 (2019). DOI 10.1029/2018JB016681 ([pdf](#)).

Albéri, M., M. Baldoncini, C. Bottardi, E. Chiarelli, S. Landsberger, K. Raptis, A. Serafini, V. Strati and F. Mantovani. *Training future engineers to be ghostbusters: hunting for the spectral environmental radioactivity*. Education Sciences, 9, 15 (2019). DOI 10.3390/educsci9010015 ([pdf](#)).

Lombardi, P., M. Montuschi, A. Formozov, A. Brigatti, S. Parmeggiano, R. Pompilio, W. Depnering, S. Franke, R. Gaigher, J. Joutsenvaara, A. Mengucci, E. Meroni, H. Steiger, F. Mantovani, G. Ranucci, G. Andronico, V. Antonelli, M. Baldoncini, M. Bellato, E. Bernier, R. Brugnera, A. Budano, M. Buscemi, S. Bussino, R. Caruso, D. Chiesa, C. Clementi, D. Corti, F. Dal Corso, X. F. Ding, S. Dusini, A. Fabbri, G. Fiorentini, R. Ford, G. Galet, A. Garfagnini, M. Giammarchi, A. Giaz, M. Grassi, A. Insolia, R. Isocrate, I. Lippi, Y. Malyskin, S. M. Mari, F. Marini, C. Martellini, A. Martini, M. Mezzetto, L. Miramonti, S. Monforte, P. Montini, M. Nastasi, F. Ortica, A. Paoloni, D. Pedretti, N. Pelliccia, E. Previtali, A. C. Re, B. Ricci, D. Riondino, A. Romani, P. Saggese, G. Salamanna, F. H. Sawy, G. Settanta, M. Sisti, C. Sirignano, L. Stanco, V. Strati, G. Verde and L. Votano. *Distillation and stripping pilot plants for the JUNO neutrino detector: Design, operations and reliability*. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 925, 6-17 (2019). DOI 10.1016/j.nima.2019.01.071 ([pdf](#)).

Baldoncini, M., M. Albéri, C. Bottardi, E. Chiarelli, K. G. C. Raptis, V. Strati, and F. Mantovani. *Biomass water content effect on soil moisture assessment via proximal gamma-ray spectroscopy*. Geoderma, 335, 69-77 (2019). DOI 10.1016/j.geoderma.2018.08.012 ([pdf](#)).

## 2018

Baldoncini, M., M. Albéri, C. Bottardi, E. Chiarelli, K. G. C. Raptis, V. Strati, and F. Mantovani. *Investigating the potentialities of Monte Carlo simulation for assessing soil water content via proximal gamma-ray spectroscopy*. Journal of Environmental Radioactivity, 192, 105-116 (2018). DOI 10.1016/j.jenvrad.2018.06.001 ([pdf](#)).

Strati, V., Albéri M., Anconelli S., Baldoncini M., Bittelli M., Bottardi C., Chiarelli E., Fabbri B., Guidi V., Raptis K.G.C., Solimando D., Tomei F., Villani G. and Mantovani F. *Modelling Soil Water Content in a Tomato Field: Proximal Gamma Ray Spectroscopy and Soil-Crop System Models*. Agriculture, 8(4), 60 (2018). DOI 10.3390/agriculture8040060 ([pdf](#)).

Grassi, M., M. Montuschi, M. Baldoncini, F. Mantovani, B. Ricci, G. Andronico, V. Antonelli, M. Bellato, E. Bernieri, A. Brigatti, R. Brugnera, A. Budano, M. Buscemi, S. Bussino, R. Caruso, D. Chiesa, D. Corti, F. D. Corso, X. F. Ding, S. Dusini, A. Fabbri, G. Fiorentini, R. Ford, A. Formozov, G. Galet, A. Garfagnini, M. Giammarchi, A. Giaz, A. Insolia, R. Isocrate, I. Lippi, F. Longhitano, D. L. Presti, P. Lombardi, F. Marini, S. M. Mari, C. Martellini, E. Meroni, M. Mezzetto, L. Miramonti, S. Monforte, M. Nastasi, F. Ortica, A. Paoloni, S. Parmeggiano, D. Pedretti, N. Pelliccia, R. Pompilio, E. Previtali, G. Ranucci, A. C. Re, A. Romani, P. Saggese, G. Salamanna, F. H. Sawy, G. Settanta, M. Sisti, C. Sirignano, M. Spinetti, L. Stanco, V. Strati, G. Verde and L. Votano *Charge reconstruction in large-area photomultipliers*. Journal of Instrumentation, 13, P02008-P02008 (2018). DOI 10.1088/1748-0221/13/02/P02008 ([pdf](#)).

Baldoncini, M., M. Albéri, C. Bottardi, B. Minty, K. G. Raptis, V. Strati and F. Mantovani. *Airborne gamma-ray spectroscopy for modeling cosmic radiation and effective dose in the lower atmosphere*. IEEE Transactions on Geoscience and Remote Sensing, 56, 823-834 (2018). DOI 10.1109/TGRS.2017.2755466 ([pdf](#)).

## 2017

Strati V., Wipperfurth S.A., Baldoncini M., McDonough W.F., Mantovani F. *Perceiving the crust in 3D: a model integrating geological, geochemical, and geophysical data*. Geochemistry, Geophysics, Geosystems, 18, 4326-4341 (2017). DOI 10.1002/2017GC007067 ([pdf](#)).

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