

CURRICULUM VITAE

NAME ALIOTTA, Marialuisa
COLLEGE Science and Engineering
SCHOOL School of Physics and Astronomy

FIRST APPOINTMENT AT UNIVERSITY OF EDINBURGH

01.09.2001 Lecturer (UE08)

DATE OF PROMOTION AT UNIVERSITY OF EDINBURGH

01.08.2008 Senior Lecturer (UE09)

01.08.2013 Reader (UE09)

01.08.2016 Full Professor (UE10)

UNIVERSITY EDUCATION

1993 - 1994 Undergraduate Fellowship at Laboratori Nazionali del Sud, INFN, Catania, Italy

1990 - 1991 Erasmus Grant at Oxford University, Oxford, UK

1986 - 1992 Undergraduate studies, University of Catania, Italy

DEGREES AND AWARDS

2015 Van Heyningen Award for Teaching in Science and Engineering (runner-up), UoE

2002 Professional Certificate in University Teaching accredited by the Institute for Learning and Teaching in Higher Education, UK

April 1999 PhD in Physics (Summa cum Laude), University of Catania, Italy

March 1993 Degree in Physics (Summa cum Laude), University of Catania, Italy

CAREER SINCE GRADUATION

07.2015-12.2015 Visiting Professorship at the Seconda Università di Napoli, Caserta (Italy)

09.2010-01.2011 Maternity leave

2008 (declined) W2 Professorship at Technische Universität Muenchen (TUM), Germany

2001 - 2003 (declined) Marie Curie Individual Post-doctoral Fellowship, UoE, UK

1999 - 2001 Alexander von Humboldt Post-doctoral Fellowship, Ruhr-Universität Bochum, Germany

1995 - 1998 PhD grant, Università di Catania, Italy

1994 - 1995 Postgraduate Fellowship at the Ruhr-Universität Bochum, Germany

MAJOR RESEARCH INTERESTS

Nuclear astrophysics is a vibrant field at the intersection of experimental and theoretical nuclear physics, astronomical observations, astrophysical modeling and nucleosynthesis. It is also a rapidly evolving field. New astronomical observations with state-of-the-art satellites have provided a wealth of information on chemical abundances, particularly from early stars, challenging our understanding on the origin of heavy elements in the universe. 3D hydrodynamic stellar models are allowing for an unprecedented level of sophistication in stellar dynamics and nucleosynthesis calculations. The discovery of neutrino oscillations has led to a new high-precision era in neutrino detection. And pioneering underground investigations have provided direct access to the energies of astrophysical interest for the measurements of nuclear reactions cross-sections otherwise not feasible at surface laboratories.

Nuclear reactions provide the energy sources that power stars (like our Sun) as well as some of the most spectacular explosions in the universe (novae, supernovae, and X-ray bursts). They are also responsible for the synthesis of chemical elements in the universe, including those vital to the existence of life. Throughout my career I have proposed and led experiments at various national and international laboratories to investigate reactions with both stable and

radioactive nuclei for quiescent and explosive stellar scenarios, respectively. In the following I highlight my main activities since my last promotion application.

LUNA

Within the LUNA (Laboratory for Underground Nuclear Astrophysics) Collaboration, I have been focussing on the study of key reactions of hydrogen burning, relevant to the synthesis of rare isotopes in classical novae and asymptotic giant branch stars. One of these reactions, the $^{17}\text{O}(p,\gamma)^{18}\text{F}$, formed the project of one of my PhD students, D Scott, who successfully completed his PhD in 2014. This work led to firmer constraints on models of novae nucleosynthesis and has resulted in the publication of 1 Phys. Rev. Lett. [PRL 109 (2012) 202501] and 1 Phys. Rev. C [PRC 89 (2014) 015803]. More recently, I have led and coordinated the work for the $^{18}\text{O}(p,\alpha)^{15}\text{N}$ reaction which, together with the $^{17}\text{O}(p,\alpha)^{14}\text{N}$, forms the project of another of my PhD students, C Bruno. For both reactions, the Edinburgh group has devised, built, and provided a dedicated scattering chamber fully instrumented with silicon detectors and related electronics. Because of the experimental challenges intrinsic in this type of research, data taking typically spans over extended periods of time, from several months to a couple of years. The work on the $^{17,18}\text{O}(p,\alpha)^{14,15}\text{N}$ has resulted so far in the publication of a paper in Europhys. Journ. (EPJA 51 (2015) 94), with a further PRL currently in preparation (two more papers stemming from this work are foreseen in 2016). I have recently submitted a review article, as lead author, on *Helium burning and neutron sources in stars* for publication on a Topical Issue of the European Physical Journal. Over the last three years, further work within LUNA has resulted in additional 5 papers (including 1 PRL) and 2 other submitted manuscripts (PRL and Astroparticle Journal).

LUNA hosts, at present, the only underground particle accelerator in the world and the work carried out so far has been pioneering and world leading. Proposals for similar underground laboratories have been put forward in recent years both in Europe, China, and the US, testifying for the great interest and investment worldwide in this research area. LUNA is currently undergoing a major development with the acquisition of a new accelerator that will allow for the study of reactions not feasible at the present facility. The accelerator will become operative at the end of 2018. My long-term aspiration is to contribute to the shaping up of new directions in underground nuclear astrophysics by providing scientific leadership in some selected experiments that will form the core of the scientific activities at the new LUNA accelerator.

In 2014, I was the **EPS (European Physical Society) Invited Speaker at the VII Nuclei in the Cosmos** (Hungary), the main international conference in the field. I am a member of the **LUNA Collaboration Board** (as PI of the Edinburgh team) and the **Chair of the LUNA Editorial Board**.

CIRCE

In 2013, I initiated and promoted a collaboration with colleagues at the Centre for Isotopic Research on the Cultural and Environmental Heritage (CIRCE), at Caserta (Italy), as the PI on an International Exchanges Scheme grant funded by the Royal Society. The work focuses on the experimental investigation of carbon fusion reactions, which govern the evolution of massive stars and determine whether or not a star will explode as supernova. The work forms the PhD project of another student of mine, Ms L Morales-Gallegos, and data taking is on going. A paper reporting on initial measurements of the behaviour of carbon targets under intense carbon beam bombardment is currently in preparation for submission to European Physical Journal.

To further consolidate this collaboration, I am now expanding our involvement in the planned scientific activities at CIRCE, specifically for the study of the $^7\text{Be}+p$ reaction, crucial for a better understanding of the solar neutrino spectrum. Edinburgh will provide part of the experimental setup (currently being developed) as well as the suite of silicon detectors and related instrumentation for high-precision measurements of the elastic scattering channel. CIRCE hosts the only recoil mass separator ERNA (European Recoil for Nuclear Astrophysics) in Europe expressly designed for nuclear reactions of astrophysical interest. This, coupled with the availability of the most intense ^7Be (radioactive) beam in the world, makes it the ideal place for my research. For my work at CIRCE, I have recently been granted a **Visiting Professorship** at the Seconda Università di Napoli (Caserta, Italy).

Radioactive Ion Beam Facilities

In the area of explosive nucleosynthesis with radioactive ion beams, I have taken part in an experiment at TRIUMF to investigate a reaction involved in the destruction of ^{26}Al , a key indicator of ongoing nucleosynthesis in our Galaxy. This work has recently been published in Phys. Rev. Lett. [PRL 115 (2015) 062701]. Other accepted proposals I submitted as spokesperson at TRIUMF (Canada), CERN (Switzerland), and GANIL (France) are currently awaiting beam development. To date, I have about 20 publications in this area. New opportunities for new and more intense radioactive ion beams are expected to become available with the realization of a Storage Ring Separator (SRS) facility at HIE-ISOLDE (CERN). The collaboration, of which I am a member, is led by PJ Woods (Edinburgh).

My enthusiasm for my research, together with my ability to communicate clearly and effectively, has also gained me several invitations as a plenary speaker at international conferences, summer schools, and public events (see list of talks under items of esteem).

As of 2014, I have been invited to join the STFC Nuclear Physics Advisory Panel with the remit to identify and shape up a UK-wide Nuclear Physics strategy in preparation for the next five-year Roadmap. I am also the Chair of the STFC Nuclear Physics Panel for the Rutherford Fellowships. In 2015, I organized and chaired (jointly with a colleague from York) the VII Nuclear Physics in Astrophysics International Conference, one of the most important conferences in the field.

PRINCIPAL RESEARCH GRANTS

Research in nuclear physics is supported through Group Consolidated Grants (with the Head of Group as PI) funded by the Science and Technology Facilities Council (STFC). I am the PI on the Low-energy Nuclear Astrophysics theme of our last group grant. At present I am leading a team of people working in this area, consisting of two PhD students, a PDRA, a Senior PDRA (0.2FTE), and the group technician (0.2FTE).

STFC	Nuclear Physics Consolidated Group Grants		
	01.08.15 – 30.09.18: RA2927 - STFC ST/L005824/1	£1,265,730	(Co-I; PI PJ Woods)
	01.08.11 – 31.07.15: RA1811 - STFC ST/J00006X/1	£1,584,323	(Co-I; PI PJ Woods)
	01.08.08 – 31.07.13: RA0800 - STFC ST/F011938/1	£1,974,382	(Co-I; PI PJ Woods)
	21.06.08 – 20.06.10: RA0372 - STFC PP/F000839/1	£458,851	(Co-I; PI PJ Woods)
RS	International Exchange Scheme		
	01.07.13 – 30.06.16: IE130289	£12,000	(PI: M Aliotta, L Gialanella)
EPSRC	Group Grant		
	01.02.04 – 31.01.08: R37378 - EPSRC GR/S69160/01	£604,505	(Co-I; PI Prof P Woods)
Other grants and sponsorships			
	UK Nuclear Physics Summer School	£59,800	(PI: M Aliotta, JF Smith)
	SUPA support to NPA VII Conference	£2,000	(PI)
	SUPA Distinguished Visiting Scientist	£4,800	(beneficiary: F Strieder, RUB)
	QAA Scotland	£10,000	(Co-I; PI S Bates)
	Royal Society Conference Grant:	£970	(only beneficiary)
	Development Trust Small Project Grant	£ 1,000	(PI)
	to stage the play <i>Copenhagen</i> with Physics students		
	Alexander von Humboldt sponsorship	€ 4,700	(only beneficiary)

RESEARCH SUPERVISION EXPERIENCE

PhD Students

2016-present	T Chillery (1 st supervisor)
2013-present	CG Bruno (1 st supervisor)
2012-present	L Morales Gallegos (1 st supervisor)
2010-2014	DA Scott (1 st supervisor)
2009-2012	K Slaughter (2 nd supervisor)
2007-2012	PJC Salter (1 st supervisor)
2005-2008	A Josephides (2 nd supervisor)

The Nuclear Physics Group (currently four academics and two Rutherford Fellows) typically attracts between one and two students per year. Thus, each academic staff normally expects to get one new student every 2-3 years.

MPhys Students

2016-2017	A Wylie
2012-2013	C Griffin, M Leary
2010-2011	D Glowa
2009-2010	DA Scott

All projects were directly related to my research, often focusing on key aspects of ongoing experiments.

TEACHING EXPERIENCE

I love teaching and I am passionate about it. Over the years, I have contributed significantly to the teaching programme of the School, taking on roles of increased responsibility both in teaching and its administration. My teaching activities have exposed me to diverse environments, including large- and small-group lecturing, tutorials and workshops, with different skills required on my part. Elements of innovative learning and teaching embedded in my classes have included: mini-lectures by students, clickers, in-class competitions, video-feedback, and peer assessment of essays.

I am regarded as an enthusiastic and highly effective lecturer (my Nuclear Physics course is extremely popular and consistently rates as one of the best courses in the School) and have been nominated for the University of Edinburgh Teaching Awards on many occasions. In 2015, I was nominated as best teacher overall for the College and was the runner up for the **Van Heyningen Award for Teaching in Science and Engineering**.

Since my last promotion, I have proposed, created and run a **new course on Nuclear Astrophysics**, which attracted 11 students in its first year and received very positive feedback. Following up from the success of my **Hands on Writing workshop** within SUPA, I have been asked to run the course also for our cohort of MSc students (typically 30 per year) and I have been recruited, on a regular basis, as an external consultant both at the universities of Edinburgh and St Andrews to run workshops on Writing a Literature Review and How to Write a Research Paper. I have been contracted by Taylor & Francis to write a **book on Academic Writing in the Sciences** (for PhD students and early career academics) by the end of 2017.

My pedagogic skills are also recognized externally as testified by several invitations to national and international Summer Schools (see *Invited lecturer at national and international summer school*). On teaching-related issues, I have published 3 refereed articles and 1 book chapter to date.

Undergraduate teaching

2014-present	Nuclear Astrophysics	(O, CO, L, WL)
2001-present	Nuclear Physics 4 (now Nuclear Physics)	(CO, L, WL)
2012-2014	Practical Physics Laboratory	(LS)
2012-2014	Practical Physics Workshops	(O, WL)
2011-2012	Physics 1B Laboratory	(LS)
2008-2010	Data Analysis (for Physics 2A)	(WD)
2004-2008	Physics 1A	(L, WL)
2001-2004	Nuclear Physics 3 (now Subatomic Physics)	(CO, L)
2001-2004	Workshops for Physics 1A	(WL)

Postgraduate teaching

2013-2014	Nuclear Astrophysics with Radioactive Beams (UK)	(O, L)
2010-present	Hands on Writing Workshop (SUPA)	(O, CO, WL)
2006-2008	Advanced Topics in Nuclear Astrophysics (SUPA)	(O, L)

Originator (O), course organizer (CO), lecturer (L), workshop leader (WL), workshop demonstrator (WD), laboratory supervisor (LS)

ADMINISTRATIVE EXPERIENCE

Since my appointment at the University of Edinburgh, I have taken up roles of increased responsibility in the administrative running of the School. Amongst my main roles, I chaired the Forward Look Task Force (2010) to devise and propose a new framework for our entire degree programmes. As the School's International Coordinator I have established two new ERSMUS exchange programmes with the Albert-Ludwigs Universitaet Freiburg (Germany) and with the Technische Universitaet Muenchen (Germany).

Since my last promotion, I have been invited to join the **Nuclear Physics Advisory Panel for STFC** and to chair the STFC **Nuclear Physics Panel for the Rutherford Fellowships**. In 2014, I was invited to join the STFC Education, Training, and Careers Committee, of which I am still a member. A complete list of my administrative tasks and responsibilities is given below. In 2015, I organized and co-chaired the **VII International Conference Nuclear Physics in Astrophysics**.

MEMBERSHIP OF SOCIETIES

- Member of the Institute of Physics
- Member of the Institute for Learning and Teaching (now Higher Education Academy)
- Member of EPSRC College (until 2012)

MEMBERSHIP OF COMMITTEES

University level

- 2010-2017 Member of the (now) **Policies and Resources** Committee of the University Court
- 2010 Member of **Court Review Group**
- 2008-2017 Senate's Assessor on the **University Court**

College level

- 2010-2011 Member of the International Strategy Group
- 2007-present Member of Academic Senate
- 2006 Member of the Working Group on Flexible Learning

School level

- 2011-2012 Member of Forward Look Implementation Party
- 2010 Convener of Forward Look Task Force
- 2009-2012 Post-Graduate Pastoral Interviewer
- 2009-2010 International Exchange Coordinator
- 2008 Member of Selection Panel for Teaching Development Officer
- 2007-2011 Elected Member of Teaching Committee
- 2007 Convener of Task Force on Methods and Combinations of Assessment
- 2007 Member of Selection Panel for SUPA Lectureship in Experimental/Computational Biophysics
- 2007 Member of Selection Panel for Teaching Development Officer
- 2006-2013 Point of contact for female students
- 2006-2010 Member of SUPA Graduate School Management Committee
- 2006-2010 Director of Studies
- 2005-2012 Member of Graduate Studies Committee
- 2005-2011 SUPA Graduate School Representative for Nuclear and Plasma Physics Theme
- 2005-2007 Post-Graduate Pastoral Interviewer
- 2005 Member of Selection Panel for SUPA Lectureship in Astrobiology
- 2005 Member of Selection Panel for SUPA Lectureship in Nuclear Physics
- 2005 Member of Selection Panel for SUPA Lectureship in Particle Physics Experiment
- 2005 Member of Selection Panel for SUPA Lectureship in Particle Physics Theory
- 2005 Member of Selection Panel for Two-year Lectureship in Astronomy and Astrophysics
- 2005 Liaison Person for Teaching Program Review
- 2004-2007 Quality Assurance Officer for the School of Physics and Astronomy
- 2004 Member of Task Force for Learning Outcomes
- 2002-2013 Recruitment and Publicity
- 2001-2006 Member of the Institute of Physics Nuclear Physics Group

UK and International level

- 2016-present Member of Experiment Evaluation Committee for TRIUMF National Laboratory (Canada)
- 2015-2016 Chair of STFC Rutherford Fellowship Panel for Nuclear Physics
- 2015 Co-Chair of VII International Conference Nuclear Physics in Astrophysics (York)
- 2015 Member of International Advisory Board, Nuclear Structure and Dynamics III, Slovenia
- 2014-present Member of STFC Education, Training and Careers Committee
- 2014-present Member of STFC Nuclear Physics Advisory Panel
- 2012-present Member of STFC Rutherford Fellowships Panel
- 2011 Director of the UK Nuclear Physics Summer School (St Andrews)
- 2010-present Member of the Scientific Committee of the European Summer School on Experimental Nuclear Astrophysics
- 2010-2013 Member of STFC Project Peer Review Panel
- 2010-2011 Member of UKISOL Steering Group
- 2008-2011 Member of Board of Directors for the EuroSchool on Exotic Beams
- 2008 Member of Programme Committee for
13th Capture Gamma Ray and Related Topics Symposium (CGS13), Cologne, Germany

- 2006 Organizer of IoP Half-day Meeting on Nuclear Astrophysics (Edinburgh)
- 2006 Member of International Advisory Committee for
IX Nuclei in the Cosmos Conference, CERN Geneva, Switzerland
- 2005 Member of International Advisory Committee for
12th Capture Gamma Ray and Related Topics Conference, Notre Dame University, US
- 2004 Chair of UK IoP Nuclear Physics Conference (Edinburgh)

ITEMS OF ESTEEM

Invited plenary talks at international conferences/workshops/symposia

- 2017 $^{17,18}\text{O}(p,\alpha)^{14,15}\text{N}$ cross section measurements underground
Workshop on "Nuclear Astrophysics at the Dresden Felsenkeller", Dresden, 26-28 June 2017, Germany
- 2017 *And so it all begun: Personal memories of the man behind the scientist*
Special Session in celebration of Prof Spitaleri
VIII Nuclear Physics in Astrophysics Conference, Catania, 18-23 June 2017, Italy
- 2017 *Nuclear Astrophysics at the Low-Energy Frontiers: News from the Lab*
55th International Winter Meeting on Nuclear Physics, Bormio 23-27 January 2017, Italy
- 2015 *Future challenges in nuclear astrophysics with high-intensity stable-ion beams*
ECOS-LINCE Workshop, Huelva, Spain, 8-10 July (unable to attend)
- 2014 *Underground Laboratories for Nuclear Astrophysics: Present Status and Future Opportunities*
EPS Invited Speaker, XIII International Conference Nuclei in the Cosmos, Debrecen, Hungary, 7-11 July
- 2013 *Explosive phenomena in astrophysics and nuclear reaction studies*
XLI International Workshop "Astrophysics and Nuclear Structure", Hirschegg 26 January-1 February, Austria
- 2012 *Nuclear reactions in X-ray bursters: What news from the laboratory?*
X Quark Confinement and the Hadron Spectrum Conference - Parallel Session, Garching 8-12 October, Germany
- 2012 *Explosive scenarios, rp-process, X-ray bursts*
Zakopane Conference on Nuclear Physics, Zakopane, August 27 - September 2, Poland
- 2012 IUPAP Conference on Few-Body Problems in Physics, August 20-25, Japan (unable to attend)
- 2012 International Workshop Canfranc, 21-23 March, Spain (unable to attend)
- 2011 *Explosive Nuclear Astrophysics*
IoP Nuclear and Particle Physics Divisional Conference, Glasgow, 4-7 April, UK
- 2011 *The Boulby Mine: An opportunity for underground Nuclear Astrophysics*
International Workshop on Underground Accelerator, Gran Sasso, 10-11 February, Italy
- 2010 *Underground Laboratories for Nuclear Astrophysics: Is Boulby still an option?*
International Workshop Dresden, 28-30 April, Germany
- 2009 *The $^{12}\text{C}+^{12}\text{C}$ reaction in an underground laboratory: Future opportunities at Boulby*
CLAUS09: International Workshop on *The role of low-energy fusion reactions in Nuclear Astrophysics: Carbon Burning*, Anacapri, 14-16 May, Italy
- 2009 *The Underground Laboratory at Boulby*
Workshop on Nuclear Astrophysics Opportunities at the Underground Laboratory in Canfranc, Barcelona 19-20 February, Spain
- 2008 *Fusion reactions in stars: what news from the Lab?*
FUSION08 – International Conference on New Aspects of Heavy Ion Collisions near the Coulomb barrier, Chicago 22-26 September, US
- 2008 *Radioactive beams for Astrophysics: Recent studies and open questions*
XXXVI International Workshop on "Modern Aspects in Nuclear Structure and Reactions", Hirschegg 13-19 January, Austria
- 2007 *Underground Laboratory at Boulby: An opportunity for Nuclear Astrophysics?*
Laboratori Nazionali del Sud, INFN, Catania, 15-16 February, Italy
- 2006 *Nuclear Astrophysics with Radioactive Beams*
Radioactive Nuclear Beams Conference, Cortina d'Ampezzo, 5-7 July, Italy
- 2006 Current Problems in Nuclear Physics and Atomic Energy, Kyev, 29 May-3 June, Ukraine (declined)
- 2006 *Electron screening: Can metals simulate plasmas?*
XXXIV International Workshop on "Astrophysics and Nuclear Structure", Hirschegg 15-21 January, Austria

- 2005 *Electron screening: A Review*
FINUSTAR Conference, Kos 12-17 September, Greece
- 2004 *Stellar reactions on Earth: selected experimental studies*
 Nuclear Physics Seminar, Michigan State University, 15 March, USA
- 2003 *Low-energy Nuclear Astrophysics: some future perspectives*
 NuPECC Town Meeting, Darmstadt 29 January-1 February, Germany
- 2002 *Radioactive beams for studies in Nuclear Astrophysics*
 REX-ISOLDE Workshop, CERN Geneva 16-18 December, Switzerland
- 2001 *Measurements of low-energy nuclear cross-sections*
 NAP2001 Symposium, GSI - Darmstadt 3-4 May, Germany
- 2000 *The Trojan-Horse Method in nuclear astrophysics*
 TOURS2000 Symposium on Nuclear Physics IV, Tours 4-7 September, France

NATIONAL INVITATIONS

Invited talks at national conferences/meetings/research institutions

- 2017 *Direct Underground Measurements*
 BRIDGCE Workshop, Edinburgh, 4-5 September 2017, UK
- 2016 *Nuclear Reactions, Stars, and the Creation of the Elements*
Pint of Science, Three Sisters' Pub Edinburgh, 23 May, UK
- 2014 *Nuclear Reactions, Stars, and the Creation of the Elements*
IoP Public Lecture, Open University, Milton Keynes, 13 May, UK
- 2013 *A Journey Through Stellar Lives, the Origin of the Elements, and Our Cosmic Inheritance*
IoP Public Lecture, Newcastle, 13 December, UK
- 2011 *Stars, elements, and our cosmic inheritance*
 Albert Einstein Institute for Gravitational Waves, Hannover, 8 December, Germany, UK
- 2011 *The alchemists' dream and Rutherford's legacy: A journey through the creation of the elements*
Public Lecture, The Rutherford 100th, Rutherford Appleton Laboratory, 19 May, UK
- 2010 *(a,p) reactions in X-ray bursts: time-reversed investigations*
 IoP Workshop in Nuclear Astrophysics, University of York, 8 February, UK
- 2009 *ELENA: A small project with grand ambitions. A UK facility for Nuclear Astrophysics*
 University of Surrey, 8 December, UK
- 2009 *The ELENA Project at Boulby: Opportunities for Nuclear Astrophysics*
 Annual Meeting of the IoP Astroparticle Physics Group, Edinburgh, 8-9 June, UK
- 2008 *Nuclear reactions in stars: Recent results and future opportunities*
 University of Birmingham, 17 December, UK
- 2008 *Nuclear reactions in stars: A nuclear perspective*
 University of Lancaster, 21 November, UK
- 2008 *The Elements. Our Cosmic Inheritance*
 Royal Observatory of Edinburgh Workshop: Habitability of the Galaxy, 8-10 October, Edinburgh, UK
- 2008 *Copenhagen. The science behind the play*
Café Scientifique, Film House, 28 July, Edinburgh, UK
- 2008 *From Oxford to Edinburgh: My career before and after graduation*
 Retirement event in honor of Prof Dame Carole Jordan, Somerville College Oxford, 12 July, UK
- 2007 *Collaborative Learning in the Physical Sciences: Workshops vs. Tutorials*
 Learning & Teaching Forum: Engaging students through collaborative learning
 University of Edinburgh, 17 April, UK (event cancelled)
- 2007 *Stars, Accelerators and Underground Labs*
 John Adams Institute, University of Oxford, 14 June, UK
- 2007 *National Astronomy Meeting, UCLan Preston, 16-20 April, UK (declined)*
- 2007 *Nuclear Astrophysics: A journey through the creation of the elements and our cosmic inheritance*
 Rutherford Appleton Laboratory, CCRLC, Chilton, 25 January, UK (General interest lecture)
- 2006 *Underground laboratory for Nuclear Astrophysics studies*
 BUS2006 Workshop, Boulby, 21-22 October, UK
- 2006 *Experimental Nuclear Astrophysics*
 Astroparticle Conference, 23-24 May, UK
- 2006 *Nuclear reactions with Radioactive Ion Beams for Explosive Burning stellar evolution*
 IoP Nuclear Physics Conference, York 19-21 April, UK
- 2005 *(Experimental) Nuclear Astrophysics*
 SUPA – Nuclear and Plasma Physics Launch Event, Glasgow 7 October, UK

- 2005 NUSTAR05 *Nuclear Structure, Astrophysics and Reactions*, University of Guildford, Sussex, January UK
(unable to attend)
- 2003 *The electron screening problem: an Overview*
Nuclear Physics Seminar, University of York, 7 November, UK
- 2003 *Recent developments and perspectives in Experimental Nuclear Astrophysics*
IoP Nuclear Physics Conference, Glasgow 9-11 April, UK
- 2002 *Nuclear Astrophysics*
Future of Nuclear Astrophysics Meeting, Abingdon 19-20 April, UK

MAJOR LECTURES GIVEN AS GUEST LECTURER

Invited lecturer at national and international summer schools

2017	<i>Experimental Nuclear Astrophysics for Beginners</i> (2 lectures) 9 th European Summer School on Experimental Nuclear Astrophysics, S. Tecla 17-24 September, Italy	
2014	<i>Introduction to Nuclear Astrophysics</i> 11 th International Workshop on Nuclear Astrophysics, Russbach 9-15 March, Austria	(2 lectures)
2013	<i>Scientific Academic Writing: What Nobody Tells You About It</i> 7 th European Summer School on Experimental Nuclear Astrophysics, S. Tecla 15-27 September, Italy	(2 lectures)
2011	<i>Underground Laboratories</i> 6 th European Summer School on Experimental Nuclear Astrophysics, S. Tecla 18-27 September, Italy	(1 lecture)
2010	<i>Experimental Nuclear Astrophysics: An Introduction</i> 7 th International Workshop on Nuclear Astrophysics, Russbach 15-19 March, Austria	(2 lectures)
2010	<i>Experimental Nuclear Astrophysics: An Introduction</i> Doctoral Training Program at ECT* Trento, 12 April - 13 June, Italy	(4 lectures)
2007	<i>Nuclear Astrophysics: A Nuclear Perspective</i> XIV UK Nuclear Physics Summer School, Newcastle 29 August - 8 September, UK	(3 lectures)
2006	<i>Nuclear Astrophysics with Radioactive Ion Beams</i> 4 th International Summer School on Subatomic Physics, Beijing 21-25 August, China	(2 lectures)
2004	<i>Exotic Beam studies in Nuclear Astrophysics</i> 11 th Euro Summer School on Exotic Beams, Guildford 19-27 August, UK	(4 lectures)
2003	<i>Reaction Rates</i> 2 nd European Summer School on Experimental Nuclear Astrophysics, S. Tecla 28 Sept.-5 Oct., Italy	(2 lectures)
2003	<i>Nuclear Astrophysics</i> 12 th UK Postgraduate Nuclear Physics Summer School, St. Andrews 1-14 September, UK	(4 lectures)
2002	<i>Low-energy Nuclear Astrophysics: An experimental approach</i> 3 rd International Balkan School on Nuclear Physics, Thessaloniki 18-24 September, Greece	(2 lectures)
2002	<i>Experimental Nuclear Astrophysics: Key aspects and open problems</i> Nuclear Physics Autumn Retreat, Manchester 5-6 September, UK	(1 lecture)

APPOINTMENTS AS EXTERNAL EXAMINER

External Examiner for PhD Vivas

2016	Lauren Petrie - University of Surrey, UK
2013	Jelena Gajaevic - University of Ljubljana, Slovenia
2011	Predrag Ujic - GANIL, France
2012	Adam Garry Tuff - University of York, UK

External Examiner for Degree Programmes

2012	Invitation to act as external examiner for the Physics and Physics with Nuclear Technology program at University of West Scotland.
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OTHER RELEVANT INFORMATION

Referee for:

Grants and Fellowship applications

2014	Danish Council for Independent Research
2012-present	STFC Rutherford Fellowships, UK
2012	MIUR, Italy
2011	Helmoltz Gesellschaft, Germany
2010	NSERC, Canada (2010)
2007	STFC
2006	EPSRC

Journals

Physical Review Letters
Physical Review C
Nuclear Physics A
Journal of Physics G: Nuclear and Particle Physics

B. LIST OF PUBLICATIONS

ARTICLES PUBLISHED AS SOLE AUTHOR

All of my research is conducted at national or international accelerator-based facilities. The nature of the research is such that teams of 15-30 people are often involved and sole-author publications are extremely rare. Typically, the first author is a PhD student who carried out most of the data analysis, or a young post-doc.

From my records in the ISI Web of Knowledge, I have an “h-index” of 25 (last update: 6 June 2017). The papers preceded by an asterisk (*) are those to which I contributed significantly; those with a dollar sign (\$) indicate I was the main originator. All articles listed below are in refereed journals. Eight additional articles published in Book Series as Conference Proceedings have not been included.

JOINT ARTICLES SUBMITTED OR IN PREPARATION

1. ⁵Carbon targets behavior under intense ¹²C beam bombardment

L. Morales-Gallegos, **M. Aliotta**, R. Buompane, T. Davinson, M. De Cesare, A. Di Leva, A. D’Onofrio, L. Gialanella, G. Imbriani, D. Rapagnani, M. Romano, M. Romoli, D. Schürmann, and F. Terrasi
European Physical Journal A (2017) in preparation

JOINT ARTICLES PUBLISHED (peer reviewed papers) – Latest update: 6 June 2017

1. *Origin of meteoritic stardust unveiled by new proton-capture rate on oxygen-17* M. Lugaro, A. Karakas, C.G. Bruno, **M. Aliotta**, L.R. Nittler, D. Bemmerer, A. Best, A. Böltzig, C. Broggin, A. Caciolli, F. Cavanna, G.F. Ciani, P. Corvisiero, S. Cristallo, T. Davinson, R. Depalo, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, V. Mossa, F. R. Pantaleo, D. Piatti, P. Prati, D.A. Scott, O. Straniero, F. Strieder, T. Szücs, M. P. Takács, D. Trezzi (LUNA Collaboration) *Nature Astronomy* 1 (2017) 0027
2. *Big Bang Lithium-6 Nucleosynthesis studies deep underground* D. Trezzi, M. Anders, **M. Aliotta**, A. Bellini, D. Bemmerer, C. Broggin, A. Caciolli, P. Corvisiero, H. Costantini, T. Davinson, Z. Elekes, M. Erhard, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, A. Lemut, M. Marta, C. Mazzocchi, R. Menegazzo, P. Prati, C. Rossi Alvarez, D.A. Scott, E. Somorjai, O. Straniero, T. Szücs,
Astroparticle Journal 89 (2017) 57-65
3. *Neon and Sodium ejecta from intermediate-mass stars: The impact of the new LUNA rate for $^{22}\text{Ne}(p,g)^{23}\text{Na}$* A. Slemmer, P. Marigo, D. Piatti, **M. Aliotta**, D. Bemmerer, A. Best, A. Böltzig, A. Bressan, C. Broggin, C.G. Bruno, A. Caciolli, F. Cavanna, P. Corvisiero, T. Davinson, R. Depalo, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, V. Mossa, F. R. Pantaleo, P. Prati, O. Straniero, T. Szücs, M.P. Takács, D. Trezzi (LUNA Collaboration) *Monthly Notices of the Royal Astronomical Society* 465 (2017) 4817-4837
4. *The impact of the revised $^{17}\text{O}(p,\alpha)^{14}\text{N}$ reaction rate on the ^{17}O stellar abundances and yields* O. Straniero, C.G. Bruno, **M. Aliotta**, A. Best, A. Böltzig, D. Bemmerer, C. Broggin, A. Caciolli, F. Cavanna, G.F. Ciani, P. Corvisiero, S. Cristallo, T. Davinson, R. Depalo, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, V. Mossa, F. R. Pantaleo, D. Piatti, L. Piersanti, P. Prati, E. Somorjai, F. Strieder, T. Szücs, M. P. Takács, D. Trezzi (LUNA Collaboration) *Astronomy & Astrophysics* 598 (2017) A128
5. *Direct measurement of the low-energy $^{22}\text{Ne}(p,g)^{23}\text{Na}$ resonances* R. Depalo, F. Cavanna, **M. Aliotta**, M. Anders, D. Bemmerer, A. Best, A. Böltzig, C. Broggin, C.G. Bruno, A. Caciolli, G.F. Ciani, P. Corvisiero, T. Davinson, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G.

- Imbriani, M. Junker, R. Menegazzo, V. Mossa, F. R. Pantaleo, D. Piatti, P. Prati, O. Straniero, F. Strieder, T. Szücs, M. P. Takács, D. Trezzi (LUNA Collaboration) [Physical Review C 94 \(2016\) 055804](#)
6. *Improved Direct Measurement of the 64.5 keV Resonance in the $^{17}O(p,\alpha)^{14}N$ Reaction at LUNA* C.G. Bruno, D.A. Scott, **M. Aliotta**, A. Formicola, D. Bemmerer, A. Best, A. Böltzig, C. Brogгинi, A. Caciolli, F. Cavanna, G.F. Ciani, P. Corvisiero, T. Davinson, R. Depalo, A. Di Leva, Z. Elekes, F. Ferraro, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, V. Mossa, F. R. Pantaleo, D. Piatti, P. Prati, E. Somorjai, O. Straniero, F. Strieder, T. Szücs, M. P. Takács, D. Trezzi (LUNA Collaboration) [Physical Review Letters 117 \(2016\) 142502](#)
 7. *^{*} Helium burning and neutron sources in the stars*
M. Aliotta, M. Junker, P. Prati, F. Strieder
[Topical Issue - European Physical Journal 52 \(2016\) 76](#)
 8. *Ultra-sensitive γ -ray spectroscopy set-up for investigating primordial lithium problem*
G. Gervino, C. Gustavino, D. Trezzi, **M. Aliotta**, M. Anders, A. Boeltzig, D. Bemmerer, A. Best, C. Brogгинi, C. Bruno, A. Caciolli, F. Cavanna, P. Corvisiero, T. Davinson, R. Depalo, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, A. Guglielmetti, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, P. Prati, D.A. Scott, O. Straniero, T. Szücs, (LUNA Collaboration) [Nuclear Instruments and Methods in Physics Research Section A, 824 \(2016\) 617 s](#)
 9. *Three new low-energy resonances in the $^{22}Ne(p,\gamma)^{23}Na$ reaction*
F. Cavanna, R. Depalo, **M. Aliotta**, M. Anders, D. Bemmerer, A. Best, C. Brogгинi, C.G. Bruno, A. Caciolli, P. Corvisiero, T. Davinson, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, P. Prati, D.A. Scott, E. Somorjai, F. Strieder, O. Straniero, T. Szücs, M.P. Takacs, and D. Trezzi (for the LUNA Collaboration)
[Physical Review Letters 115 \(2015\) 252501](#)
 10. *Inverse kinematics study of the $^{26}Al(d,p)^{27}Al$ reaction and implications for destruction of ^{26}Al in Wolf-Rayet and Asymptotic Giant Branch Stars*
V. Margerin, G. Lotay, P.J. Woods, **M. Aliotta**, G. Christian, B. Davids, T. Davinson, D.T. Doherty, J. Fallis, D. Howell, O.S. Kirsebom, D.J. Mountford, A. Rojas, C. Ruiz, and J.A. Tostevin
[Physical Review Letters 115 \(2015\) 062701](#)
 11. *^{S*} Resonance strengths in the $^{17,18}O(p,\alpha)^{14,15}N$ reactions and background suppression underground - Commissioning of a new setup for charged-particle detection at LUNA*
C.G. Bruno, D.A. Scott, A. Formicola, **M. Aliotta**, T. Davinson, M. Anders, A. Best, D. Bemmerer, C. Brogгинi, A. Caciolli, F. Cavanna, P. Corvisiero, R. Depalo, A. Di Leva, Z. Elekes, Zs. Fülöp, G. Gervino, C.J. Griffin, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, E. Napolitani, P. Prati, E. Somorjai, O. Straniero, F. Strieder, T. Szücs, and D. Trezzi
[European Physical Journal A 51 \(2015\) 94](#)
 12. *A new study of the $^{22}Ne(p,\gamma)^{23}Na$ reaction deep underground: Feasibility, setup, and first observation of the 186 keV resonance*
F. Cavanna, R. Depalo, M.-L. Menzel, **M. Aliotta**, M. Anders, D. Bemmerer, C. Brogгинi, C.G. Bruno, A. Caciolli, P. Corvisiero, T. Davinson, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, P. Prati, C. Rossi Alvarez, D.A. Scott, O. Straniero, F. Strieder, T. Szuecs, and D. Trezzi (LUNA Collaboration)
[European Physical Journal A 50 \(2014\) 179](#)
 13. *First Direct Measurement of the $^2H(\alpha,\gamma)^6Li$ Cross Section at Big Bang Energies and the Primordial Lithium Problem*
M. Anders, D. Trezzi, R. Menegazzo, **M. Aliotta**, A. Bellini, D. Bemmerer, C. Brogгинi, A. Caciolli, P. Corvisiero, H. Costantini, T. Davinson, Z. Elekes, M. Erhard, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, M. Junker, A. Lemut, M. Marta, C. Mazzocchi, P. Prati, C. Rossi Alvarez, D.A. Scott, E. Somorjai, O. Straniero, T. Szuecs (LUNA Collaboration)
[Physical Review Letter 113 \(2014\) 042501](#)
 14. *Underground study of the $^{17}O(p,\gamma)^{18}F$ reaction for explosive hydrogen burning*

A. Di Leva, D.A. Scott, A. Caciolli, A. Formicola, F. Strieder, **M. Aliotta**, M. Anders, D. Bemmerer, C. Broggini, P. Corvisiero, Z. Elekes, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, J. Jose', M. Junker, M. Laubenstein, R. Menegazzo, E. Napolitani, P. Prati, V. Rigato, V. Roca, E. Somorjai, C. Salvo, O. Straniero, T. Szuëcs, F. Terrasi, and D. Trezzi (LUNA Collaboration)
Physical Review C 89 (2014) 015803 Erratum: Physical Review C 90 (2014) 019902

15. *Cross section measurements at astrophysically relevant energies: The LUNA experiment*

A. Formicola, C.G. Bruno, A. Caciolli, F. Cavanna, R. Depalo, A. Di Leva, D.A. Scott, D. Trezzi, **M. Aliotta**, M. Anders, D. Bemmerer, C. Broggini, P. Corvisiero, Z. Elekes, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, P. Prati, E. Somorjai, O. Straniero, F. Strieder, T. Szuëcs
Nuclear Instruments and Methods in Physics Research Section A 742 (2014) 258-260

16. *Neutron-induced background by an alpha-beam incident on a deuterium gas target and its implications for the study of the ${}^2\text{H}(\alpha,\gamma){}^6\text{Li}$ reaction at LUNA*

M. Anders, D. Trezzi, A. Bellini, **M. Aliotta**, D. Bemmerer, C. Broggini, A. Caciolli, H. Costantini, P. Corvisiero, T. Davinson, Z. Elekes, M. Erhard, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, M. Junker, A. Lemut, M. Marta, C. Mazzocchi, R. Menegazzo, P. Prati, CR. Alvarez, D. Scott, E. Somorjai, O. Straniero, T. Szuëcs
European Physical Journal A 49 (2013) 28

17. *5* First Direct Measurement of the ${}^{17}\text{O}(p,\gamma){}^{18}\text{F}$ Reaction Cross Section at Gamow Energies for Classical Novae*

D. Scott, A. Caciolli, A. Di Leva, A. Formicola, **M. Aliotta**, M. Anders, D. Bemmerer, C. Broggini, M. Campeggio, P. Corvisiero, Z. Elekes, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, M. Laubenstein, R. Menegazzo, M. Marta, E. Napolitani, P. Prati, V. Rigato, V. Roca, E. Somorjai, C. Salvo, O. Straniero, F. Strieder, T. Szuëcs, F. Terrasi, and D. Trezzi (LUNA Collaboration)
Physical Review Letters 109 (2012) 202501

18. *5* Preparation and characterization of isotopically enriched Ta_2O_5 targets for nuclear astrophysics studies*

A. Caciolli, D. Scott, A. Di Leva, A. Formicola, **M. Aliotta**, M. Anders, D. Bemmerer, C. Broggini, M. Campeggio, P. Corvisiero, Z. Elekes, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, E. Napolitani, P. Prati, V. Rigato, V. Roca, C. Rolfs, C. Rossi Alvarez, E. Somorjai, C. Salvo, O. Straniero, F. Strieder, T. Szuëcs, F. Terrasi, H.P. Trautvetter, and D. Trezzi (LUNA collaboration)
European Physical Journal A48 (2012) 144

19. *5* Measurement of the ${}^{18}\text{Ne}(\alpha,p_0){}^{21}\text{Na}$ reaction cross section in the burning energy region for X-ray bursts*

P.J.C. Salter, **M. Aliotta**, T. Davinson, H. Al Falou, A. Chen, B. Davids, B. Fulton, N. Galinski, D. Howell, G. Lotay, P. Machule, A. StJ. Murphy, C. Ruiz, S. Sjuë, M. Taggart, P. Walden, P.J. Woods
Physical Review Letters 108 (2012) 242701

20. *Storage ring at HIE-ISOLDE. Technical design report*

M. Grieser, Yu. A. Litvinov, R. Raabe, K. Blaum, Y. Blumenfeld, P. A. Butler, F. Wenander, P. J. Woods, M. Aliotta and A. Andreyev, et al.
The European Physical Journal - Special Topics 207 (2012) 1-117

21. *Bare nucleus $S(E)$ factor of the ${}^2\text{H}(d,p){}^3\text{H}$ and ${}^2\text{H}(d,n){}^3\text{He}$ reactions via the Trojan Horse Method*

A. Tumino, C. Spitaleri, A.M. Mukhamedzhanov, S. Typel, **M. Aliotta**, V. Burjan, M.G. del Santo, G.G. Kiss, V. Kroha, Z. Hons, M. La Cognata, L. Lamia, J. Mrazek, R.G. Pizzone, S. Piskor, G.G. Rapisarda, S. Romano, M.L. Sergi, R. Spatà
Nuclear Physics In Astrophysics V, Journal of Physics Conference Series, 337 (2012) 012017

22. ** The Fluorine destruction in stars: First experimental study of the ${}^{19}\text{F}(p,\alpha){}^{16}\text{O}$ reaction at astrophysical energies*

M. La Cognata, A.M. Mukhamedzhanov, C. Spitaleri, I. Indelicato, **M. Aliotta**, V. Burjan, S. Cherubini, A. Coc, M. Gulino, Z. Hons, G.G. Kiss, V. Kroha, L. Lamia, J. Mrazek, S. Palmerini, S. Piskor, R.G. Pizzone, S.M.R. Puglia, G.G. Rapisarda, S. Romano, M.L. Sergi, A. Tumino.
Astrophysical Journal Letters 739 (2011) L54

23. *Indirect Study of the $2\text{H}(d,p)3\text{H}$ and $2\text{H}(d,n)3\text{He}$ Reactions at Astrophysical Energies via the Trojan Horse Method*

A. Tumino, C. Spitaleri, A.M. Mukhamedzhanov, S. Typel, **M. Aliotta**, V. Burjan, M. Gimenez del Santo, G.G. Kiss, V. Kroha, Z. Hons, M. La Cognata, L. Lamia, J. Mrazek, R.G. Pizzone, S. Piskor, G.G. Rapisarda, S. Romano, M.L. Sergi, R. Sparta
Few-Body Systems 50 (2011) 323-325

24. *Low-energy d+d fusion reactions via the Trojan Horse Method (vol 700, p 111, 2011)*
A. Tumino, C. Spitaleri, A.M. Mukhamedzhanov, S. Typel, **M. Aliotta**, V. Burjan, M. Gimenez del Santo, G.G. Kiss, V. Kroha, Z. Hons, M. La Cognata, L. Lamia, J. Mrazek, R.G. Pizzone, S. Piskor, G.G. Rapisarda, S. Romano, M.L. Sergi, R. Sparta.
Physics Letter B 705 (2011) 546-546
25. **Low-energy d+d fusion reactions via the Trojan Horse Method*
A. Tumino, C. Spitaleri, A.M. Mukhamedzhanov, S. Typel, **M. Aliotta**, V. Burjan, M. Gimenez del Santo, G.G. Kiss, V. Kroha, Z. Hons, M. La Cognata, L. Lamia, J. Mrazek, R.G. Pizzone, S. Piskor, G.G. Rapisarda, S. Romano, M.L. Sergi, R. Sparta
Physics Letter B 700 (2011) 111-115
26. **Towards a conceptual diagnostic survey in nuclear physics*
A. Kohnle, S. Mclean, **M. Aliotta**
European Journal of Physics 32 (2011) 55-62
27. *Indirect Approach to the ${}^2\text{H}(d,p){}^3\text{H}$ Reaction Study*
R. Sparta, R.G. Pizzone, C. Spitaleri, **M. Aliotta**, V. Burjan, S. Cherubini, V. Crucilla, M. Gulino, Z. Hons, G. Kiss, V. Kroha, M. La Cognata, L. Lamia, M. McCleskey, J. Mrazek, S.M.R. Puglia, G.G. Rapisarda, S. Romano, M.L. Sergi, L. Trache, A. Tumino
Exotic Nuclei and Nuclear- Particle Astrophysics III: From Nuclei to Stars, 1304 (2010) 420-424
28. **Measurement of the inelastic branch of the ${}^{14}\text{O}(\alpha,p){}^{17}\text{F}$ reaction occurring in the explosive burning in novae and X-ray bursters*
J.J. He, P. J. Woods, T. Davinson, **M. Aliotta**, J. Büscher, E. Clement, P. Delahaye, M. Hass, D.G. Jenkins, V. Kumar, A.St.J. Murphy, P. Neyskens, R. Raabe, A.P. Robinson, D. Voulot, J. van der Walle, N. Warr, and F. Wenander
Nuclear Physical A 834 (2010) 670c-672c
29. [§]*And the winner is...? Using clickers and student-generated content to promote engagement through class competitions*
M. Aliotta and S.P. Bates
Physics Community and Cooperation: Selected Contributions from the GIREP-EPEC & PHEC 2009 International Conference, Ed. D Raine, C Hurkett, L Rogers - p.169-175
30. **Measurement of the inelastic branch of the ${}^{14}\text{O}(\alpha,p){}^{17}\text{F}$ reaction: Implications for explosive burning in novae and X-ray bursters*
J.J. He, P. J. Woods, T. Davinson, **M. Aliotta**, J. Büscher, E. Clement, P. Delahaye, M. Hass, D.G. Jenkins, V. Kumar, A.St.J. Murphy, P. Neyskens, R. Raabe, A.P. Robinson, D. Voulot, J. van der Walle, N. Warr, and F. Wenander
Physical Review C 80 (2009) 042801 – Rapid Communication
31. *Discovery of a new broad resonance in ${}^{19}\text{Ne}$: implications for the destruction of the cosmic gamma-ray emitter ${}^{18}\text{F}$*
J.C. Dalouzy, L. Achouri, **M. Aliotta**, C. Angulo, H. Benhabiles, C. Borcea, R. Borcea, P. Bourgault, A. Buta, A. Coc, A. Damman, T. Davinson, F. de Grancey, Santos F. de Oliveira, N. de Sereville, J. Kiener, M.G. Pellegriti, F. Negoita, A.M. Sanchez-Benitez, O. Sorlin, M. Stanoiu, I. Stefan, P.J. Woods
Physical Review Letters 102(16) (2009) 162503
32. **Experimental study of proton-induced nuclear reactions in Li6-Li7*
J. Cruz, H. Luis, M. Fonseca, Z. Fülöp, G. Gyürky, F. Raiola, **M. Aliotta**, K.U. Kettner, A.P. Jesus, J.P. Ribeiro, F.C. Barker, C. Rolfs
Journal of Physics G Nucl. and Part. 35(1) (2008) 014004
33. [§]*Experimental Nuclear Astrophysics with Radioactive Ion Beams*
M. Aliotta
European Physical Journal A – Special Topics 150 (2007) 201-206

34. *First hint on a change of the ^{210}Po alpha-decay half-life in the metal Cu*
 F. Raiola, T. Spillane, B. Limata, B. Wang, S. Yan, **M. Aliotta**, H.W. Becker, J. Cruz, M. Fonseca, L. Gialanella, A.P. Jesus, K.U. Kettner, R. Kunze, H. Luis, J.P. Ribeiro, C. Rolfs, M. Romano, D. Schuermann, F. Strieder
European Physical Journal A32 (2007) 51-53
35. *⁵Assessing the impact and potential of podcasts as pre-lectures*
M. Aliotta, S.P. Bates, K. Brunton, A. Stevens
Research Proceedings of the 14th Association for Learning Technologies Conference (ALT-C 2007)
 Beyond Control: Learning technology for the social network generation. S Wheeler & N Whitton Eds.
36. **Change of ^7Be electron capture half-life in metallic environments*
 B. Wang, S. Yan, B. Limata, F. Raiola, **M. Aliotta**, H.W. Becker, J. Cruz, N. De Cesare, A. D'Onofrio, Z. Fülöp, L. Gialanella, G. Gyürky, G. Imbriani, A. Jesus, J.P. Ribeiro, V. Roca, D. Rogalla, C. Rolfs, M. Romano, D. Schuermann, E. Somorjai, F. Strieder, F. Terrasi
European Physical Journal A28 (3) (2006) 375-377
37. *Enhanced $d(d,p)t$ fusion reaction in metals*
 F. Raiola, B. Burchard, Z. Fülöp, G. Gyürky, S. Zeng, J. Cruz, A. Di Leva, B. Limata, M. Fonseca, H. Luis, **M. Aliotta**, H.W. Becker, C. Brogini, A. D'Onofrio, L. Gialanella, G. Imbriani, A.P. Jesus, M. Junker, J.P. Ribeiro, V. Roca, C. Rolfs, M. Romano, E. Somorjai, F. Strieder, F. Terrasi
European Physical Journal A27 (1) (2006) 79-82
38. *Level structure of ^{21}Mg : Nuclear and astrophysical implications*
 A.St.J. Murphy, **M. Aliotta**, T. Davinson, A. Robinson, P. Woods, C. Ruiz, J. D'Auria, R. Azuma, L. Buchmann, A. Chen, D. Hutcheon, A. Laird, P. Walden, B.R. Fulton, B.A. Brown
Physical Review C 73 (3) (2006) 034320
39. *A first experimental approach to the $^{15}\text{O}(\alpha,\alpha)$ elastic scattering*
 F. Vanderbist, P. Leleux, C. Angulo, E. Casarejos, M. Couder, P. Descouvemont, **M. Aliotta**, T. Davinson, Z. Liu, P.J. Woods
European Physical Journal A27 (2) (2006) 183-186
40. *Low-lying states in the unbound ^{11}N nucleus*
 E. Casarejos, C. Angulo, P.J. Woods, F.C. Barker, P. Descouvemont, **M. Aliotta**, T. Davinson, P. Demaret, M. Gaelens, P. Leleux, Z. Liu, M. Loiselet, A.S. Murphy, A. Ninane, I.A. Roberts, G. Ryckewaert, J.S. Schweitzer, F. Vanderbist
Physical Review C 73 (1) (2006) 14319(6)
41. **Electron screening in $d(d,p)t$ for deuterated metals: temperature effects*
 F. Raiola, B. Burchard, Z. Fülöp, G. Gyürky, S. Zeng, J. Cruz, A. Di Leva, B. Limata, M. Fonseca, **M. Aliotta**, A. D'Onofrio, L. Gialanella, G. Imbriani, A.P. Jesus, M. Junker, J.P. Ribeiro, V. Roca, C. Rolfs, M. Romano, E. Samorjai, F. Strieder, F. Terrasi
Journal of Physics G: Nucl. Part. Phys. 31 (2005) 1141-1149
42. **Electron screening in $^7\text{Li}(p,\alpha)^4\text{He}$ and $^6\text{Li}(p,\alpha)^3\text{He}$ for different environments*
 J. Cruz, Z. Fülöp, G. Gyürky, F. Raiola, A. Di Leva, B. Limata, M. Fonseca, **M. Aliotta**, H.W. Becker, A. D'Onofrio, L. Gialanella, G. Imbriani, A.P. Jesus, K.U. Kettner, J.P. Ribeiro, V. Roca, C. Rolfs, M. Romano, E. Samorjai, F. Strieder, F. Terrasi
Physics Letters B 624 (2005) 181-185
43. *Multichannel R-matrix analysis of elastic and inelastic resonances in the $^{20,21}\text{Na}+p$ compound systems*
 C. Ruiz, **M. Aliotta**, R.E. Azuma, R.N. Boyd, L. Buchmann, A. Chen, N.M. Clarke, J.M. D'Auria, T. Davinson, et al.
Nuclear Physics A 758 (2005) 166c-169c
44. *Two-proton pickup reaction ($^6\text{He}, ^8\text{Be}$) on ^{12}C , ^{16}O and ^{19}F*
 M. Milin, Đ. Miljanić, **M. Aliotta**, S. Cherubini, T. Davinson, A. Di Pietro, P. Figuera, A. Musumarra, A. Ninane, A.N. Ostrowski, M.G. Pellegriti, A.C. Shotter, N. Soić, C. Spitaleri, M. Zadro
Physical Review C 70 (2004) 44603(5)

45. * *Enhanced electron screening in $d(d,p)t$ for deuterated metals*
 F. Raiola, L. Gang, C. Bonomo, G. Gyürky, **M. Aliotta**, H.W. Becker, R. Bonetti, C. Broggin, P. Corvisiero, A. D'Onofrio, Z. Fülöp, G. Gervino, L. Gialanella, M. Junker, P. Prati, V. Roca, C. Rolfs, M. Romano, E. Samorjai, F. Strieder, F. Terrasi, G. Fiorentini, K. Langanke, J. Winter
European Physical Journal A 19 (2004) 283-287
46. * *Recoil separator ERNA: acceptances in angle and energy*
 D. Rogalla, D. Schürmann, F. Strieder, **M. Aliotta**, N. De Cesare, A. Di Leva, C. Lubritto, A. D'Onofrio, L. Gialanella, G. Imbriani, J. Kluge, A. Ordine, V. Roca, H. Röcken, C. Rolfs, M. Romano, F. Schümann, F. Terrasi, H.P. Trautvetter
Nuclear Instruments and Methods A513 (2003) 573-578
47. * *Enhanced electron screening in $d(d,p)t$ for deuterated metals: a possible classical explanation*
 C. Bonomo, G. Fiorentini, Z. Fülöp, L. Gang, G. Gyürky, K. Langanke, F. Raiola, C. Rolfs, E. Somorjai, F. Strieder, J. Winter, **M. Aliotta**
Nuclear Physics A719 (2003) 37c-42c
48. *Indirect study of the astrophysically important $^{15}\text{O}(\alpha,\gamma)^{19}\text{Ne}$ reaction through $^2\text{H}(^{18}\text{Ne},^{19}\text{Ne})^1\text{H}$*
 A.M. Laird, S. Cherubini, A.N. Ostrowski, **M. Aliotta**, T. Davinson, A. Di Pietro, P. Figuera, W. Galster, J.S. Graulich, D. Groombridge, J. Hinnefeld, M. Lattuada, P. Leleux, L. Michel, A. Musumarra, A. Ninane, M.G. Pellegriti, A.C. Shotton, C. Spitaleri, A. Tumino, J. Vervier, P. Woods
Physical Review C66 (2002) 48801(4)
49. *Break-out from the hot-CNO cycle studied with radioactive beams*
 A.N. Ostrowski, A.M. Laird, A.C. Shotton, **M. Aliotta**, F. Cappuzzello, S. Cherubini, A. Cunsolo, T. Davinson, W. Galster, J.S. Graulich, D. Groombridge, J. Hinnefeld, P. Leleux, L. Michel, S. Morrow, A. Musumarra, A. Ninane, C. Spitaleri, A. Tumino, J. Vervier
Nuclear Physics A701 (2002) 621c-624c
50. *New developments and recent results in nuclear astrophysics at Louvain-la-Neuve*
 S. Cherubini, C. Angulo, M. Couder, W. Galster, J.S. Graulich, P. Leleux, P. Lipnik, M. Loiselet, A. Musumarra, A. Ninane, G. Ryckewaert, J. Vervier, **M. Aliotta**, P. Figuera, M. Lattuada, M.G. Pellegriti, C. Spitaleri, T. Davinson, A. Di Pietro, A.M. Laird, A.N. Ostrowski, A.C. Shotton, P.J. Woods, J. Hinnefeld, S. Typel, H. Wolter
Nuclear Physics A701 (2002) 632c-636c
51. * *Enhanced electron screening in $d(d,p)t$ for deuterated Ta*
 F. Raiola, P. Migliardi, G. Gyürky, **M. Aliotta**, A. Formicola, R. Bonetti, C. Broggin, L. Campajola, P. Corvisiero, H. Costantini, J. Cruz, A. D'Onofrio, Z. Fülöp, G. Gervino, L. Gialanella, A. Gugliemetti, G. Imbriani, C. Gustavino, A.P. Jesus, M. Junker, R.W. Kavanagh, P.G. Moroni, A. Ordine, J.V. Pinto, P. Prati, V. Roca, J.P. Ribeiro, D. Rogalla, C. Rolfs, M. Romano, F. Schümann, D. Schürmann, E. Samorjai, F. Strieder, F. Terrasi, H.P. Trautvetter, S. Zavatarelli
European Physical Journal A13 (2002) 377-382
52. * *The $E1$ capture amplitude in $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$*
 L. Gialanella, D. Rogalla, F. Strieder, S. Theis, G. Gyürky, C. Agodi, R. Alba, **M. Aliotta**, L. Campajola, A. Del Zoppo, A. D'Onofrio, P. Figuera, U. Greife, G. Imbriani, A. Ordine, V. Roca, C. Rolfs, M. Romano, C. Sabbarese, P. Sapienza, F. Schümann, E. Samorjai, F. Terrasi, H.P. Trautvetter
European Physical Journal A11 (2001) 357-370
53. * *Electron screening effect in the reactions $^3\text{He}(d,p)^4\text{He}$ and $d(^3\text{He},p)^4\text{He}$*
M. Aliotta, F. Raiola, G. Gyürky, A. Formicola, R. Bonetti, C. Broggin, L. Campajola, P. Corvisiero, H. Costantini, A. D'Onofrio, S. Fülöp, G. Gervino, L. Gialanella, A. Gugliemetti, C. Gustavino, G. Imbriani, M. Junker, P.G. Moroni, A. Ordine, P. Prati, V. Roca, D. Rogalla, C. Rolfs, M. Romano, F. Schümann, E. Samorjai, O. Straniero, F. Strieder, F. Terrasi, H.P. Trautvetter, S. Zavatarelli
Nuclear Physics A690 (2001) 790-800
54. * *Stopping power of low-energy deuterons in ^3He gas*
 F. Raiola, G. Gyürky, **M. Aliotta**, A. Formicola, R. Bonetti, C. Broggin, L. Campajola, P. Corvisiero, H. Costantini, A. D'Onofrio, Z. Fülöp, G. Gervino, L. Gialanella, A. Gugliemetti, C. Gustavino, G. Imbriani, M. Junker, R.W. Kavanagh,

A. Ordine, P. Prati, V. Roca, D. Rogalla, C. Rolfs, M. Romano, F. Schümann, E. Samorjai, O. Straniero, F. Strieder, F. Terrasi, H.P. Trautvetter, S. Zavatarelli
European Physical Journal A10 (2001) 487-491

55. * *Hot CNO breakout: Status of the $d(^{18}\text{Ne}, p)^{19}\text{Ne}^*(\alpha)^{15}\text{O}$ reaction*
A.M. Laird, A.N. Ostrowski, S. Cherubini, C. Spitaleri, **M. Aliotta**, T. Davinson, A. Di Pietro, P. Figuera, W. Galster, J.S. Graulich, D. Groombridge, J. Hinnefeld, M. Lattuada, P. Leleux, A. Musumarra, A. Ninane, M.G. Pellegriti, A.C. Shotter, A. Tumino, J. Vervier, P.J. Woods
Nuclear Physics A688 (2001) 134c-137c
56. * *A new measurement of the E1 amplitude in $^{12}\text{C}(\alpha, \gamma_0)^{16}\text{O}$*
L. Gialanella, **M. Aliotta**, D. Rogalla, C. Rolfs, F. Schümann, F. Strieder, S. Theis, H.-P. Trautvetter, L. Campajola, G. Imbriani, V. Roca, M. Romano, A. D'Onofrio, C. Sabbarese, F. Terrasi, C. Agodi, R. Alba, A. Del Zoppo, P. Figuera, P. Sapienza, C. Spitaleri, G. Gyürky, E. Somorjai, U. Greife
Nuclear Physics A688 (2001) 254c-258c
57. * *The $^{15}\text{O}(\alpha, \gamma)^{19}\text{Ne}^*$ reaction using a ^{18}Ne radioactive beam*
S. Cherubini, W. Galster, J.S. Graulich, P. Leleux, M. Loiselet, A. Musumarra, A. Ninane, G. Ryckewaert, J. Vervier, **M. Aliotta**, P. Figuera, M. Lattuada, M.G. Pellegriti, C. Spitaleri, T. Davinson, A. Di Pietro, A.M. Laird, A.N. Ostrowski, A.C. Shotter, P.J. Woods, H. Hinnefeld, S. Typel, H. Wolter
Nuclear Physics A688 (2001) 465c-467c
58. *^s *The α - ^{12}C radiative capture process and the Trojan Horse Method*
M.G. Pellegriti, **M. Aliotta**, P. Figuera, M. Lattuada, D. Miljanic, A. Musumarra, R.G. Pizzone, C. Rolfs, S. Romano, C. Spitaleri, S. Tudisco, A. Tumino, S. Typel, H. Wolter
Nuclear Physics A688 (2001) 543c-545c
59. * *Recoil separator ERNA: improved measurements of the astrophysical key reaction $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$*
D. Rogalla, **M. Aliotta**, C.A. Barnes, L. Campajola, A. D'Onofrio, L. Gialanella, U. Greife, G. Imbriani, A. Ordine, V. Roca, C. Rolfs, M. Romano, C. Sabbarese, D. Schürmann, F. Schümann, F. Strieder, S. Theis, F. Terrasi, H.-P. Trautvetter
Nuclear Physics A688 (2001) 549c-551c
60. * *Trojan Horse Method applied to $^2\text{H}(^6\text{Li}, \alpha)^4\text{He}$ at astrophysical energies*
C. Spitaleri, S. Typel, R.G. Pizzone, **M. Aliotta**, S. Blagus, M. Bogovac, S. Cherubini, P. Figuera, M. Lattuada, M. Milin, D. Miljanić, A. Musumarra, M.G. Pellegriti, D. Rendic, C. Rolfs, S. Romano, N. Soić, A. Tumino, H.H. Wolter, M. Zadro
Physical Review C63 (2001) 55801(7)
61. *^s *Improved information on electron screening in $^7\text{Li}(p, \alpha)^4\text{He}$ using the Trojan-Horse method*
M. Aliotta, C. Spitaleri, M. Lattuada, A. Musumarra, R.G. Pizzone, A. Tumino, C. Rolfs, F. Strieder
European Physical Journal A 9 Short note (2000) 435-437
62. * *Energy loss of deuterons in ^3He gas: a threshold effect*
A. Formicola, **M. Aliotta**, G. Gyürky, F. Raiola, R. Bonetti, C. Broggini, L. Campajola, P. Corvisiero, H. Costantini, A. D'Onofrio, S. Fülöp, G. Gervino, L. Gialanella, A. Guglielmetti, C. Gustavino, G. Imbriani, M. Junker, A. Ordine, P. Prati, V. Roca, D. Rogalla, C. Rolfs, M. Romano, F. Schümann, E. Samorjai, O. Straniero, F. Strieder, F. Terrasi, H.P. Trautvetter, S. Zavatarelli
European Physical Journal A 8 Short note (2000) 443-446
63. *^s *The α - ^{12}C scattering studied via the Trojan-Horse method*
C. Spitaleri, **M. Aliotta**, P. Figuera, M. Lattuada, R.G. Pizzone, S. Romano, A. Tumino, C. Rolfs, L. Gialanella, F. Strieder, S. Cherubini, A. Musumarra, D. Miljanić, S. Typel, H.H. Wolter
European Physical Journal A7 (2000) 181-187
64. * *$^4\text{He}^1\text{H}_2^+$ and $^4\text{He}^1\text{H}^+$, exotic impurities in $^6\text{He}^+$ beam*
D. Miljanić, M. Milin, **M. Aliotta**, S. Cherubini, T. Davinson, A. Di Pietro, P. Figuera, M. Gaelens, W. Galster, M. Loiselet, A. Ninane, A.N. Ostrowski, G. Ryckewaert, A.C. Shotter, N. Soić, C. Spitaleri
Nuclear Instruments and Methods A 447 (2000) 544-547

65. *Recoil separator ERNA: ion beam specifications*
D. Rogalla, **M. Aliotta**, C.A. Barnes, L. Campajola, A. D'Onofrio, E. Fritz, L. Gialanella, U. Greife, G. Imbriani, A. Ordine, J. Ossmann, V. Roca, C. Rolfs, M. Romano, C. Sabbarese, D. Schürmann, F. Schümann, F. Strieder, S. Theis, F. Terrasi, H.P. Trautvetter
European Physical Journal A6 (1999) 471-477
66. *The ${}^6\text{He}+{}^6\text{Li}$ reactions and exotic states of ${}^{10}\text{Be}$*
M. Milin, **M. Aliotta**, S. Cherubini, T. Davinson, A. Di Pietro, P. Figuera, W. Galster, D. Miljanić, A. Ninane, A.N. Ostrowski, A.C. Shotter, N. Soić, C. Spitaleri, M. Zadro
Europhysics Letters 48 (6) (1999) 616-622
67. **Indirect ${}^7\text{Li}(p,\alpha){}^4\text{He}$ reaction at astrophysical energies*
C. Spitaleri, **M. Aliotta**, S. Cherubini, M. Lattuada, D. Miljanić, S. Romano, N. Soić, M. Zadro, R.A. Zappalà
Physical Review C60 (1999) 55802(7)
68. *Detection of break-up fragments in inverse Coulomb dissociation experiments*
M.C. Morone, G. Oliviero, L. Campajola, A. D'Onofrio, L. Gialanella, M. La Commara, V. Roca, M. Romano, M. Romoli, F. Terrasi, R. Barnà, D. De Pasquale, **M. Aliotta**, S. Cherubini, M. Lattuada, S. Romano, C. Spitaleri
Nuclear Instruments and Methods A419 (1998) 167-174
69. *Low-energy radioactive ion beam induced nuclear reactions*
A.N. Ostrowski, A.C. Shotter, W. Bradfield-Smith, A.M. Laird, A. Di Pietro, T. Davinson, S. Morrow, P.J. Woods, S. Cherubini, W. Galster, J.S. Graulich, P. Leleux, L. Michel, A. Ninane, J. Vervier, **M. Aliotta**, D. Calí, F. Cappuzzello, A. Cunsolo, C. Spitaleri, J. Gorres, M. Wiescher, J. Rahighi, J. Hinnefeld
Journal of Physics G24 (1998) 1553-1559
70. *Gamma-ray detection with a 4p NaI spectrometer for material analysis*
M. Merhoff, **M. Aliotta**, I.J.R. Baumvol, H.-W. Becker, M. Berheide, L. Borucki, J. Domke, F. Gorris, S. Kubsky, N. Piel, G. Roters, C. Rolfs, W.H. Shulte
Nuclear Instruments and Methods B132 (1997) 671-684
71. *Indirect measurements of nuclear reaction cross sections at astrophysical energies*
G. Calvi, S. Cherubini, M. Lattuada, S. Romano, C. Spitaleri, **M. Aliotta**, G. Rizzari, M. Sciuto, R.A. Zappalà, V.N. Kondratyev, Đ. Miljanić, M. Zadro, G. Baur, O.Yu. Goryunov, A.A. Shvedov
Nuclear Physics A621 (1997) 139c-142c
72. *The ${}^{12}\text{C}({}^{12}\text{C}, {}^8\text{Be}_{gs}){}^{16}\text{O}_{gs}$ reaction at $E_{cm} = 27$ to 36 MeV*
M. Aliotta, S. Cherubini, E. Costanzo, M. Lattuada, S. Romano, C. Spitaleri, A. Tumino, D. Vinciguerra, M. Zadro
Zeitschrift für Physik A354 (1996) 119-120
73. *Resonant effects in the ${}^{12}\text{C}({}^{12}\text{C}, {}^8\text{Be}_{gs}){}^{16}\text{O}_{gs}$ reaction around $E_{cm}=32.5$ MeV*
M. Aliotta, S. Cherubini, E. Costanzo, M. Lattuada, S. Romano, C. Spitaleri, D. Vinciguerra, M. Zadro
Zeitschrift für Physik A353 (1995) 43-47
74. *Angular distribution of the ${}^{12}\text{C}({}^{12}\text{C}, {}^8\text{Be}_{gs}){}^{16}\text{O}_{gs}$ reaction around the 32.5 MeV resonance*
M. Aliotta, S. Cherubini, E. Costanzo, M. Lattuada, S. Romano, C. Spitaleri, D. Vinciguerra, M. Zadro
Nuclear Physics A583 (1995) 281-286

OTHER PUBLICATIONS (Invited)

1. *Experimental Nuclear Astrophysics in Underground Laboratories*
M. Aliotta
Nuclear Physics News International (NuPECC Magazine), Vol. 22, Issue 2 (2012)
2. *Nuclear Astrophysics in Underground Laboratories*
M. Aliotta

Proceedings of the 6th European Summer School in Experimental Nuclear Astrophysics, S. Tecla, Italy, 18-27 September 2011

3. *Underground Laboratory at Boulby: An opportunity for Nuclear Astrophysics?*

M. Aliotta

Proceedings of the Workshop on Nuclear and Neutrino Astrophysics (2007) Catania, Italy, 15-16 February 2007

4. *Assessing the potential of podcasts as pre-lecture preparation*

M. Aliotta, S. Bates, K. Brunton, A. Stevens

Chapter 4, Book on Podcasting in Higher Education, IMPALA Project (Informal Mobile Podcasting and Learning Adaptation) Ed. G. Salmon & P. Edirisingha, Routledge, 2007, about 20 pages

5. *Electron Screening: A Review*

M. Aliotta et al., Proceedings of the FINUSTAR Conference, Kos, Greece, 12-17th September 2005

6. *Radioactive Nuclei and Exploding Stars*

M. Aliotta, Nuclear Physics News International (NuPECC Magazine), Vol. 13, Issue 3 (2003)

7. *Low-energy Nuclear Astrophysics: an Experimental Approach*

M. Aliotta, Proceedings of the 3rd International Balkan School on Nuclear Physics (2002) Ed. G. Lalazisis, Department of Theoretical Physics – Aristotle University of Thessaloniki, Greece, ISBN 960-312-118-5