CURRICULUM VITAE

# GIULIANA FAGGIO

## EDUCATION

- Ph.D. in Physics, University of Messina, February 1999.
- Laurea Degree in Physics, summa cum laude, University of Messina, March 1993.

## PRESENT POSITION

- Assistant Professor in Experimental Physics at University of Reggio Calabria, October 2002.

## PREVIOUS ACCADEMIC POSITIONS

1998-2002 Technical Collaborator of the Physics Laboratory, University of Reggio Calabria.

1995 Research Fellowship funded by the European Community, University of Messina.

1993-1995 Teacher of Electronics at the Secondary School, Milano.

## TEACHING AND TUTORING ACTIVITY

### Teaching

2009-present General Physics 1 – 1 st year, 1st Cycle Degree Course Information Engineering, University of Reggio Calabria.

2008-present Modern Physics for Engineering – 1 st year, 2st Cycle Degree Course Computer and Telecommunication Systems Engineering, University of Reggio Calabria.

2008-2009 Physics - 1st Cycle Degree Course in Architecture of Gardens and Landscaping, University of Reggio Calabria.

2009-2010 Physical Properties of Materials - 1st Cycle Degree Course in Technologies for the Conservation and Restoration of Environmental Assets, University of Reggio Calabria.

2002-2007 General Physics 3 – 1 st year, 2st Cycle Degree Course Telecommunication Engineering, University of Reggio Calabria.

2002-2003 Physics - 1 st year, 1st Cycle Degree Course Biotechnologies, University of Catanzaro.

2001-2002 Physics applied to Radiotherapy and Radiodiagnostics - 1 st year, University Degree of Medical Technician of Medical Radiology, University of Catanzaro.

**Tutoring**

2004-present Supervisor of PhD thesis and of Master and Bachelor thesis, University of Reggio Calabria.

## INSTITUTIONAL ACTIVITY

2006-2007 Member of the Teaching Committee for the Ph.D. in Chemistry of Materials for Special Uses, University of Reggio Calabria.

2008-2009 Member of the Teaching Committee for the Ph.D. in Geotechnical Engineering and Material Chemistry, University of Reggio Calabria.

2013,

2016-present Member of the Teaching Committee of the Ph.D. in Information Engineering, University of Reggio Calabria.

2013-present Delegate of the Department of Information Engineering, Infrastructure and Sustainable Energy (DIIES) of "Pari opportunità" (Equal Opportunities), University of Reggio Calabria.

2015-present Member of "Gruppo di assicurazione della qualità" (Quality Assurance Group) of 1st Cycle Degree Course Information Engineering, University of Reggio Calabria.

2015-2017 President of the "Commissione Orientamento" (Orientation Committee) of Department of Information Engineering, Infrastructure and Sustainable Energy (DIIES), University of Reggio Calabria.

## SCIENTIFIC ACTIVITY

- In charge of the Laboratory of Physics and Optical Spectroscopy, University of Reggio Calabria.
- Experiments on micro-Raman spectroscopy, Raman mapping, atomic force microscopy (AFM), co-localized AFM/Raman measurements and scanning electron microscopy in nano-materials.
- Scientific Manager for the DIIES in the "Protocollo d'intesa" (memorandum of understanding) between DIIES and "Agenzia Regionale per la Protezione dell'Ambiente della Calabria" (ARPACAL) (Regional Agency for the Protection of the Environment of Calabria)

- Member of Advisory Board of the project "International School of Advanced Magnetic Resonance Applications in Medicine & Neuroscience" supported by the "Scuola Siciliana di Formazione Superiore di Radioprotezione" (Sicilian School of Superior Radioprotection Training) "SSFSR Silvia Mascolino" and by the "Istituto Euro-mediterraneo di Scienza e Tecnologia" (Euro-Mediterranean Institute of Science and Technology) (I.E.ME.S.T.)
- Reviewer for Journal of Physical Chemistry, Diamond and Related Materials and other international journals

## RESEARCH INTERESTS

- Growth and characterization of carbon-based materials.
- Graphene, 2D materials and nanomaterials.
- Spectroscopic and microscopic characterization of micro- and nano-structured materials.
- Photovoltaic materials and devices.

## RESEARCH PROJECTS

- PON03PE_00050_1 project: "Piattaforma intelligente per il monitoraggio e la gestione della sicurezza in-home di persone e strutture" from 01-10-2014 to 30-07-2015 (partecipant)
- PON03PE_00050_2 project: "Sistemi domotici per il Servizio di Brokeraggio Energetico Cooperativo". from 01-01-2014 to 30-09-2014 (partecipant)
- PONa3_00308 project: "Generatore Eolico a Levitazione Magnetica in Calabria - GELMINCAL" from 01-01-2013 to 31-12-2014 (partecipant)
- PON 01_01869 project: "TEMADITUTELA - Tecnologie e Materiali Innovativi per la Difesa del Territorio e la Tutela dell'ambiente" from 01-12-2011 to 31-05-2013 (partecipant)
- PRIN 2008 "Dosimetri a base di diamante sintetico monocristallino per applicazioni in radioterapia clinica" from 22-03-2010 to 21-03-2012 (partecipant)
- PRIN 2004 "Rivelatori innovativi a pixel basati su singolo cristallo di diamante sintetico per fotoni X-UV" from 30-11-2004 to 29-11-2006 (partecipant)
- PRIN 1998 "Rivelatori e Componenti Ottici per l'Astrofisica Basati su Diamante CVD" from 01-01-1998 to 30-07-2012 (partecipant)

## Congress and Conference Organization

- 3rd AIGE/IIETA International Conference and 12th AIGE Conference 2018 on "Energy Conversion, Management, Recovery, Saving, Storage and Renewable Systems" Reggio Calabria, Italy (International Scientific Committee)
- XVII Congresso Nazionale di Spettroscopia Raman ed Effetti Non Lineari - GNSR2001, Reggio Calabria, Italy 2001 (Organization Committee)

## Talks

- 12th International Symposium on $SiO_2$ Advanced Dielectrics and Related Devices, Bari, Italy 2018
- Materials.it 2016, Italian National Conference on Materials Science and Technology, Catania, Italy 2016
- 4th Workshop on Plasma Production by Laser Ablation, Messina, Italy 2009
- XXI Congresso Nazionale di Spettroscopia Raman ed Effetti Non Lineari - GNSR2009, Milano, Italy 2009
- XVIII Congresso Nazionale di Spettroscopia Raman ed Effetti Non Lineari -GNSR2003, Perugia, Italy 2003
- XVII Congresso Nazionale di Spettroscopia Raman ed Effetti Non Lineari - GNSR2001, Reggio Calabria, Italy 2001
- LXXXVI Congresso Nazionale Società Italiana di Fisica, Palermo, Italy 2000

## LIST OF PUBBLICATIONS (International Peer-Reviewed)

**1.** Gnisci, A., Faggio, G., Messina, G., Kwon, J., Lee, J.-Y., Lee, G.-H., Dikonimos, T., Lisi, N., Capasso, A.
Ethanol-CVD Growth of Sub-mm Single-Crystal Graphene on Flat Cu Surfaces
(2018) Journal of Physical Chemistry C, 122 (50), pp. 28830-28838.
DOI: 10.1021/acs.jpcc.8b10094

**2.** Gnisci, A., Faggio, G., Messina, G., Lancellotti, L., Bobeico, E., Veneri, P.D., Capasso, A., Dikonimos, T., Lisi, N.
Graphene-based derivative as interfacial layer in graphene/n-Si Schottky barrier solar cells
(2018) Advances in Modelling and Analysis A, 55 (3), pp. 144-150.
DOI: 10.18280/ama_a.550307

**3.** Gnisci, A., Faggio, G., Lancellotti, L., Messina, G., Carotenuto, R., Bobeico, E., Delli Veneri, P., Capasso, A., Dikonimos, T., Lisi, N.
The Role of Graphene-Based Derivative as Interfacial Layer in Graphene/n-Si Schottky Barrier Solar Cells
(2018) Physica Status Solidi (A) Applications and Materials Science, art. no. 1800555, . Article in Press.

**4.** Caridi, F., Messina, M., Faggio, G., Santangelo, S., Messina, G., Belmusto, G.
Radioactivity, radiological risk and metal pollution assessment in marine sediments from Calabrian selected areas, Southern Italy
(2018) European Physical Journal Plus, 133 (2), art. no. 65, .
DOI: 10.1140/epjp/i2018-11887-1

**5.** Giorgi, L., Dikonimos, T., Giorgi, R., Buonocore, F., Faggio, G., Messina, G., Lisi, N.
Electrochemical synthesis of self-organized TiO<inf>2</inf>crystalline nanotubes without annealing
(2018) Nanotechnology, 29 (9), art. no. 095604, .
DOI: 10.1088/1361-6528/aaa448

**6.** Capasso, A., Salamandra, L., Faggio, G., Dikonimos, T., Buonocore, F., Morandi, V., Ortolani, L., Lisi, N.
Chemical Vapor Deposited Graphene-Based Derivative As High-Performance Hole Transport Material for Organic Photovoltaics
(2016) ACS Applied Materials and Interfaces, 8 (36), pp. 23844-23853.

**7.** Milone, C., Piperopoulos, E., Ansari, S., Faggio, G., Santangelo, S.
Highly versatile and efficient process for CNT oxidation in vapor phase by means of Mg(NO3)2HNO3H2O ternary mixture
(2015) Fullerenes Nanotubes and Carbon Nanostructures, 23 (1), pp. 1-5.
DOI: 10.1080/1536383X.2013.858132

**8.** Santangelo, S., Piperopoulos, E., Abdul Rahim, S.H., Faggio, G., Ansari, S., Messina, G., Milone, C.
Surface chemistry and thermal stability in air of carbon nanotubes functionalised via a novel eco-friendly approach to HNO3 vapor oxidation
(2015) Fullerenes Nanotubes and Carbon Nanostructures, 23 (1), pp. 83-92.
DOI: 10.1080/1536383X.2014.885956

**9.** Capasso, A., Dikonimos, T., Sarto, F., Tamburrano, A., De Bellis, G., Sarto, M.S., Faggio, G., Malara, A., Messina, G., Lisi, N.
Nitrogen-doped graphene films from chemical vapor deposition of pyridine: Influence of process parameters on the electrical and optical properties
(2015) Beilstein Journal of Nanotechnology, 6 (1), pp. 2028-2038.
DOI: 10.3762/bjnano.6.206

**10.** Nigro, M.A., Faggio, G., Fedi, F., Polichetti, T., Miglietta, M.L., Massera, E., Di Francia, G., Ricciardella, F.
Cross interference effects between water and NH<inf>3</inf> on a sensor based on graphene/silicon Schottky diode
(2015) Proceedings of the 2015 18th AISEM Annual Conference, AISEM 2015, art. no. 7066854, .
DOI: 10.1109/AISEM.2015.7066854

**11.** Santangelo, S., Piperopoulos, E., Fazio, E., Faggio, G., Ansari, S., Lanza, M., Neri, F., Messina, G., Milone, C.
A safer and flexible method for the oxygen functionalization of carbon nanotubes by nitric acid vapors
(2014) Applied Surface Science, 303, pp. 446-455.
DOI: 10.1016/j.apsusc.2014.03.023

**12.** Santangelo, S., Piperopoulos, E., Faggio, G., Malara, A., Fazio, E., Milone, C.
Micro-Raman analysis of three-dimensional macroporous sponge-like network of carbon nanotubes under tension
(2014) Journal of Physical Chemistry C, 118 (25), pp. 13912-13919.
DOI: 10.1021/jp502117d

**13.** Faggio, G., Capasso, A., Malara, A., Leoni, E., Nigro, M.A., Santangelo, S., Messina, G., Dikonimos, T., Buonocore, F., Lisi, N.
Fast growth of polycrystalline graphene by chemical vapor deposition of ethanol on copper
(2014) 2014 IEEE 9th Nanotechnology Materials and Devices Conference, NMDC 2014, art. no. 6997424, pp. 69-72.
DOI: 10.1109/NMDC.2014.6997424

**14.** Lisi, N., Buonocore, F., Dikonimos, T., Leoni, E., Faggio, G., Messina, G., Morandi, V., Ortolani, L., Capasso, A.
Rapid and highly efficient growth of graphene on copper by chemical vapor deposition of ethanol
(2014) Thin Solid Films, 571 (P1), pp. 139-144.
DOI: 10.1016/j.tsf.2014.09.040

**15.** Santangelo, S., Messina, G., Malara, A., Lisi, N., Dikonimos, T., Capasso, A., Ortolani, L., Morandi, V., Faggio, G.
Taguchi optimized synthesis of graphene films by copper catalyzed ethanol decomposition
(2014) Diamond and Related Materials, 41, pp. 73-78.
DOI: 10.1016/j.diamond.2013.11.006

**16.** Polichetti, T., Ricciardella, F., Fedi, F., Miglietta, M.L., Miscioscia, R., Massera, E., Di Francia, G., Nigro, M.A., Faggio, G., Malara, A., Messina, G.
Graphene-Si Schottky diode in environmental conditions at low NH3 ppm level
(2014) 2014 IEEE 9th Nanotechnology Materials and Devices Conference, NMDC 2014, art. no. 6997412, pp. 23-26.
DOI: 10.1109/NMDC.2014.6997412

**17.** Polichetti, T., Ricciardella, F., Fedi, F., Miglietta, M.L., Miscioscia, R., Massera, E., De Vito, S., Di Francia, G., Nigro, M.A., Faggio, G., Malara, A., Messina, G.
Graphene-based Schottky device detecting NH3 at ppm level in environmental conditions

(2014) Procedia Engineering, 87, pp. 232-235.
DOI: 10.1016/j.proeng.2014.11.629

**18.** Faggio, G., Capasso, A., Messina, G., Santangelo, S., Dikonimos, Th., Gagliardi, S., Giorgi, R., Morandi, V., Ortolani, L., Lisi, N.
High-temperature growth of graphene films on copper foils by ethanol chemical vapor deposition
(2013) Journal of Physical Chemistry C, 117 (41), pp. 21569-21576.
DOI: 10.1021/jp407013y

**19.** Santangelo, S., Fazio, E., Neri, F., Faggio, G., Messina, G., Neri, G.
Microstructure of anatase-based hybrid nanocomposites
(2013) Journal of Physics D: Applied Physics, 46 (12), art. no. 125303, .
DOI: 10.1088/0022-3727/46/12/125303

**20.** Santangelo, S., Faggio, G., Messina, G., Fazio, E., Neri, F., Neri, G.
On the hydrogen sensing mechanism of Pt/TiO2/CNTs based devices
(2013) Sensors and Actuators, B: Chemical, 178, pp. 473-484.
DOI: 10.1016/j.snb.2013.01.005

**21.** Fazio, E., Piperopoulos, E., Abdul Rahim, S.H., Lanza, M., Faggio, G., Mondio, G., Neri, F., Mezzasalma, A.M., Milone, C., Santangelo, S.
Correlation between carbon nanotube microstructure and their catalytic efficiency towards the p-coumaric acid degradation
(2013) Current Applied Physics, 13 (4), pp. 748-752.
DOI: 10.1016/j.cap.2012.11.016

**22.** Faggio, G., Messina, G., Santangelo, S., Prestopino, G., Ciancaglioni, I., Marinelli, M.
Raman scattering in boron-doped single-crystal diamond used to fabricate Schottky diode detectors
(2012) Journal of Quantitative Spectroscopy and Radiative Transfer, 113 (18), pp. 2476-2481.
DOI: 10.1016/j.jqsrt.2012.06.012

**23.** Santangelo, S., Messina, G., Faggio, G., Abdul Rahim, S.H., Milone, C.
Effect of sulphuric-nitric acid mixture composition on surface chemistry and structural evolution of liquid-phase oxidised carbon nanotubes
(2012) Journal of Raman Spectroscopy, 43 (10), pp. 1432-1442.
DOI: 10.1002/jrs.4097

**24.** Gallo, A., Pirovano, C., Ferrini, P., Marelli, M., Psaro, R., Santangelo, S., Faggio, G., Dal Santo, V.
Influence of reaction parameters on the activity of ruthenium based catalysts for glycerol steam reforming
(2012) Applied Catalysis B: Environmental, 121-122, pp. 40-49.
DOI: 10.1016/j.apcatb.2012.03.013

**25.** Faggio, G., Modafferi, V., Panzera, G., Alfieri, D., Santangelo, S.
Micro-Raman and photoluminescence analysis of composite vanadium oxide/poly-vinyl acetate fibres synthesised by electro-spinning
(2012) Journal of Raman Spectroscopy, 43 (6), pp. 761-768.
DOI: 10.1002/jrs.3089

**26.** Santangelo, S., Messina, G., Piperopoulos, E., Lanza, M., Faggio, G., Milone, C.
Effect of Fe load on the synthesis of C nanotubes by isobutane decomposition over Na-exchanged montmorillonite-clay catalysts
(2012) Diamond and Related Materials, 23, pp. 54-60.
DOI: 10.1016/j.diamond.2012.01.009

**27.** De Luca, L., Donato, A., Santangelo, S., Faggio, G., Messina, G., Donato, N., Neri, G.
Hydrogen sensing characteristics of Pt/TiO2/MWCNTs composites
(2012) International Journal of Hydrogen Energy, 37 (2), pp. 1842-1851.
DOI: 10.1016/j.ijhydene.2011.10.017

**28.** Donato, M.G., Monaca, M.A., Faggio, G., De Stefano, L.D., Jones, P.H., Gucciardi, P.G., Maragò, O.M.
Optical trapping of porous silicon nanoparticles
(2011) Nanotechnology, 22 (50), art. no. 505704, .
DOI: 10.1088/0957-4484/22/50/505704

**29.** Faggio, G., Messina, G., Santangelo, S., Alfieri, D., Prestopino, G., Ciancaglioni, I., Marinelli, M.
Raman scattering in heavily boron-doped single-crystal diamond
(2011) AAPP Atti della Accademia Peloritana dei Pericolanti, Classe di Scienze Fisiche, Matematiche e Naturali, 89 (SUPPL. 1), .
DOI: 10.1478/C1V89S1P032

**30.** Santangelo, S., Piperopoulos, E., Lanza, M., Faggio, G., Messina, G., Milone, C.
On the CVD growth of C nanotubes over Fe-loaded montmorillonite catalysts
(2011) Nanomaterials and Nanotechnology, 1 (2), pp. 32-41.

**31.** De Luca, L., Donato, A., Apa, G., Santangelo, S., Faggio, G., Messina, G., Donato, N., Bonavita, A., Neri, G.
Room temperature hydrogen sensor based on Pt/TiO2/MWCNT composites
(2011) Lecture Notes in Electrical Engineering, 91 LNEE, pp. 87-91.
DOI: 10.1007/978-94-007-1324-6_12

**32.** Santangelo, S., Gorrasi, G., Di Lieto, R., De Pasquale, S., Patimo, G., Piperopoulos, E., Lanza, M., Faggio, G., Mauriello, F., Messina, G., Milone, C.
Polylactide and carbon nanotubes/smectite-clay nanocomposites: Preparation, characterization, sorptive and electrical properties
(2011) Applied Clay Science, 53 (2), pp. 188-194.

DOI: 10.1016/j.clay.2010.12.013

**33.** Santangelo, S., Messina, G., Faggio, G., Lanza, M., Milone, C.
Evaluation of crystalline perfection degree of multi-walled carbon nanotubes: Correlations between thermal kinetic analysis and micro-Raman spectroscopy
(2011) Journal of Raman Spectroscopy, 42 (4), pp. 593-602.
DOI: 10.1002/jrs.2766

**34.** Piperopoulos, E., Santangelo, S., Lanza, M., Faggio, G., Messina, G., Galvagno, S., Pistone, A., Milone, C.
Synthesis and analysis of multi-walled carbon nanotubes/oxides hybrid materials for polymer composite applications
(2011) Diamond and Related Materials, 20 (4), pp. 532-537.
DOI: 10.1016/j.diamond.2011.02.005

**35.** Neri, F., Tripodi, P., Trusso, S., Faggio, G.
Optical and structural properties of silicon carbon nitride thin films deposited by reactive pulsed laser ablation
(2010) Radiation Effects and Defects in Solids, 165 (6-10), pp. 754-759.
DOI: 10.1080/10420151003731678

**36.** Alfieri, D., Almaviva, S., De Sio, A., Donato, M.G., Faggio, G., Giannini, A., Messina, G., Morgante, S., Pace, E., Santangelo, S., Scuderi, S., Tripodi, P.
Single-crystal diamond MIS diode for deep UV detection
(2010) Radiation Effects and Defects in Solids, 165 (6-10), pp. 737-745.
DOI: 10.1080/10420151003729870

**37.** Santangelo, S., Dhanagopal, M., Faggio, G., Messina, G., Pistone, A., Lanza, M., Milone, C.
Preparation of nanotubes-clay hybrid systems by iron-catalyzed isobutane decomposition
(2010) Diamond and Related Materials, 19 (5-6), pp. 599-603.
DOI: 10.1016/j.diamond.2009.10.001

**38.** Santangelo, S., Messina, G., Faggio, G., Willinger, M.-G., Pinna, N., Donato, A., Arena, A., Donato, N., Neri, G.
Micro-Raman investigation of vanadium-oxide coated tubular carbon nanofibers for gas-sensing applications
(2010) Diamond and Related Materials, 19 (5-6), pp. 590-594.
DOI: 10.1016/j.diamond.2009.11.014

**39.** Santangelo, S., Milone, C., Lanza, M., Pistone, A., Messina, G., Faggio, G.
Scaling laws for multi-walled carbon nanotube growth by catalyzed chemical vapor deposition
(2010) Journal of Nanoscience and Nanotechnology, 10 (2), pp. 1286-1295.
DOI: 10.1166/jnn.2010.1823

**40.** Santangelo, S., Messina, G., Faggio, G., Lanza, M., Pistone, A., Milone, C.
Calibration of reaction parameters for the improvement of thermal stability and crystalline quality of multi-walled carbon nanotubes
(2010) Journal of Materials Science, 45 (3), pp. 783-792.
DOI: 10.1007/s10853-009-4001-y

**41.** Donato, M.G., Messina, G., Verona Rinati, G., Almaviva, S., Faggio, G., Marinelli, M., Milani, E., Prestopino, G., Santangelo, S., Tripodi, P., Verona, C.
Exciton condensation in homoepitaxial chemical vapor deposition diamond
(2009) Journal of Applied Physics, 106 (5), art. no. 053528.
DOI: 10.1063/1.3213334

**42.** Donato, M.G., Faggio, G., Galvagno, S., Lanza, M., Messina, G., Milone, C., Piperopoulos, E., Pistone, A., Santangelo, S.
Influence of gas-mixture composition on yield, purity and morphology of carbon nanotubes grown by catalytic isobutane-decomposition
(2009) Diamond and Related Materials, 18 (2-3), pp. 360-363.
DOI: 10.1016/j.diamond.2008.09.004

**43.** Santangelo, S., Messina, G., Faggio, G., Lanza, M., Milone, C., Pistone, A.
Iron-catalyst performances in carbon nanotube growth by chemical vapour deposition
(2008) EPJ Applied Physics, 44 (2), pp. 171-180.
DOI: 10.1051/epjap:2008108

**44.** Donato, M.G., Faggio, G., Messina, G., Santangelo, S., Marinelli, M., Milani, E., Scoccia, M., Verona Rinati, G., Chiorboli, M., Potenza, R., Tuvé, C.
Spectroscopic investigation of homoepitaxial CVD diamond for detection applications
(2008) Diamond and Related Materials, 17 (3), pp. 372-376.
DOI: 10.1016/j.diamond.2008.01.013

**45.** Donato, M.G., Faggio, G., Messina, G., Santangelo, S., Tripodi, P., Barletta, M., Rubino, G.
Raman and photoluminescence study of hot filament CVD diamond films grown on WC-Co substrates
(2008) Journal of Raman Spectroscopy, 39 (2), pp. 157-163.
DOI: 10.1002/jrs.1848

**46.** Tuvè, C., Angelone, M., Bellini, V., Balducci, A., Donato, M.G., Faggio, G., Marinelli, M., Messina, G., Milani, E., Morgada, M.E., Pillon, M., Potenza, R., Pucella, G., Russo, G., Santangelo, S., Scoccia, M., Sutera, C., Tucciarone, A., Verona-Rinati, G.
Single crystal diamond detectors grown by chemical vapor deposition

(2007) Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 570 (2 SPEC. ISS.), pp. 299-302.
DOI: 10.1016/j.nima.2006.09.043

**47.** Chiorboli, M., Donato, M.G., Faggio, G., Marinelli, M., Messina, G., Milani, E., Potenza, R., Santangelo, S., Scoccia, M., Tuvé, C., Verona Rinati, G.
Homoepitaxial CVD diamond: Raman and time-resolved PL characterization
(2006) Diamond and Related Materials, 15 (11-12 SPEC. ISS.), pp. 1976-1979.
DOI: 10.1016/j.diamond.2006.07.014

**48.** Tuve', C., Potenza, R., Chiorboli, M., Grimaldi, M.G., La Rosa, F., Raimondo, F., Marinelli, M., Milani, E., Tucciarone, A., Verona Rinati, G., Donato, M., Faggio, G., Messina, G., Santangelo, S., Pucella, G.
Pulse height defect in pCVD and scCVD diamond based detectors
(2006) Diamond and Related Materials, 15 (11-12 SPEC. ISS.), pp. 1986-1989.
DOI: 10.1016/j.diamond.2006.07.018

**49.** Balducci, A., Chiorboli, M., Donato, M.G., Faggio, G., Marinelli, M., Messina, G., Milani, E., Potenza, R., Prestopino, G., Santangelo, S., Scoccia, M., Tucciarone, A., Tuvè, C., Verona-Rinati, G.
Analysis of trapping-detrapping defects in high quality single crystal diamond films grown by Chemical Vapor Deposition
(2006) Diamond and Related Materials, 15 (11-12 SPEC. ISS.), pp. 1878-1881.
DOI: 10.1016/j.diamond.2006.05.011

**50.** Balducci, A., Bruzzi, M., De Sio, A., Donato, M.G., Faggio, G., Marinelli, M., Messina, G., Milani, E., Morgada, M.E., Pace, E., Pucella, G., Santangelo, S., Scoccia, M., Scuderi, S., Tucciarone, A., Verona-Rinati, G.
Diamond-based photoconductors for deep UV detection
(2006) Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 567 (1 SPEC. ISS.), pp. 188-191.
DOI: 10.1016/j.nima.2006.05.159

**51.** Donato, M.G., Faggio, G., Messina, G., Pace, E., Santangelo, S., Rinati, G.V.
Characterization of homoepitaxial diamond for ionizing radiation detectors
(2006) Journal of Non-Crystalline Solids, 352 (23-25), pp. 2575-2579.
DOI: 10.1016/j.jnoncrysol.2006.02.067

**52.** Donato, M.G., Faggio, G., Messina, G., Santangelo, S., Rinati, G.V.
Optical characterisation of high-quality homoepetaxial diamond
(2006) Topics in Applied Physics, 100, pp. 345-358.
DOI: 10.1007/11378235_17

**53.** Faggio, G., Donato, M.G., Lagomarsino, S., Messina, G., Santangelo, S., Sciortino, S.

Nucleation process of CVD diamond on molybdenum substrates
(2006) Topics in Applied Physics, 100, pp. 329-343.
DOI: 10.1007/11378235_16

**54.** Donato, M.G., Faggio, G., Messina, G., Potenza, R., Santangelo, S., Scoccia, M., Tuvé, C., Verona Rinati, G.
Characterization of homoepitaxial CVD diamond grown at moderate microwave power
(2006) Diamond and Related Materials, 15 (4-8), pp. 517-521.
DOI: 10.1016/j.diamond.2005.11.040

**55.** Donato, M.G., Faggio, G., Messina, G., Santangelo, S., Marinelli, M., Milani, E., Pucella, G., Verona-Rinati, G.
Raman and photoluminescence analysis of CVD diamond films: Influence of Si-related luminescence centre on the film detection properties
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