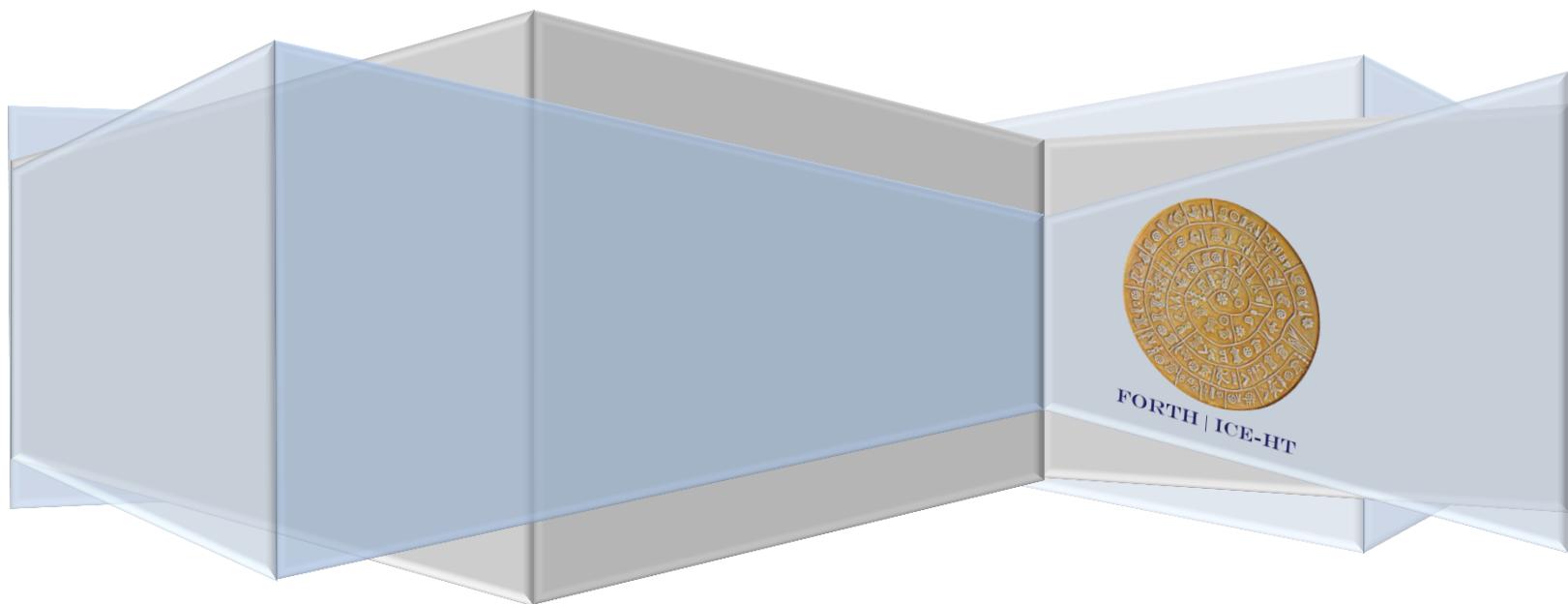


Published Work

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PUBLISHED WORK

Books

- 1.** “*Strain Engineering in two-dimensional crystals*” by **J. Parthenios and K. Papagelis**, Pan Stanford Publishing Pte. Ltd. (Singapore), in preparation, 200 pages (Invited).

Chapter in books

- 1.** “*Axial deformation of monolayer graphene under tension and compression*”, by K. Papagelis, O. Frank, G. Tsoukleri, J. Parthenios, K. Novoselov and C. Galiotis in Carbon Nanostructures Series, Ed. L. Ottaviano and M. Vittorio, Springer-Verlag (2012)
- 2.** “*Strain Redistribution in Composite Laminates resulting from off axis ply cracking*” by D. G. Katerelos, J. Parthenios and C. Galiotis, in “Recent Advances in Composite Materials”, Ed. E.E. Gdoutos and Z. Margioli Riga, Kluwer Academic Publ. USA(2003), 139-150
- 3.** “*Stress/ Strain measurements in Fibers and Composites using Raman Spectroscopy*” by Costas Galiotis and John Parthenios in *Vibrational spectroscopy of biological and polymeric Materials*, ed. V. G. Gregoriou and M. S. Braiman, Taylor & Francis, Boca Raton, London, New York 2006
- 4.** “*The time evolution of the electric characteristics of a laser discharge through their waveforms of the voltage and the current*”, by P. Persephonis, A. Ioannou J. Parthenios, C. Georgiades and V. Giannetas, NATO ASI on High Power Lasers - Science and Enginnering” Kluwer Academic Publishers , pp. 139-152, 1996 , Netherlands

Refereed Journal Papers

- 1.** “*Precipitation of Calcium Carbonate in Porous Media in the Presence of n-Dodecane*”, Sofia Jaho, Varvara Sygouni, Stamatia G. Rokidi, John Parthenios, Petros G.Koutsoukos, Christakis A. Paraskeva. Accepted by ACS Crystal & Growth under minor revisions.
- 2.** “*Stress and charge transfer in uniaxially strained CVD graphene*”, M. Bousa, G. Anagnostopoulos, Elena del Corro, K. Drogowska, J. Pekarek, L. Kavan, M. Kalbac, J. Parthenios, K. Papagelis, C. Galiotis and O. Frank, Physica Status Solidi (b), in press, **2016**.
- 3.** “*Mechanical Stability of Flexible Graphene-Based Displays*”, G. Anagnostopoulos, P.-N. Pappas, Z. Li, I. A. Kinloch, R. J. Young, K. S. Novoselov, C. Y. Lu, N. Pugno, J. Parthenios, C. Galiotis and K. Papagelis, ACS Applied Materials & Interfaces, **8** (34), 22605-22614 2016.

4. “Optical detection of strain and doping inhomogeneities in single layer MoS₂”, A. Michail, N. Delikoukos, J. Parthenios, C. Galiotis and K. Papagelis, Applied Physics Letters **108**, 173102 2016.
5. “Graphene flakes under controlled biaxial deformation”, C. Androulidakis, E. N. Koukaras, J. Parthenios, G. Kalosakas, K. Papagelis and C. Galiotis, Scientific Reports **5**, 18219; doi:10.1038/srep18219 2015.
6. “Epoxidized multi-walled carbon nanotube buckypapers: A scaffold for polymer nanocomposites with enhanced mechanical properties”, G. Trakakis, G. Anagnostopoulos, L. Sygellou, A. Bakolas, J. Parthenios, D. Tasis, C. Galiotis and K. Papagelis, Chemical Engineering Journal **281**, 793-803 **2015**.
7. “Deformation of wrinkled graphene”, Z. Li, I. A. Kinloch, R. J. Young, K. S. Novoselov, G. Anagnostopoulos, J. Parthenios, C. Galiotis, K. Papagelis, C-Y Lu and L. Brintell, ACS NANO **9(4)** , 3917-3925 **2015**.
8. “Suspended Monolayer Graphene under True Uniaxial Deformation”, I. Polyzos, M. Bianchi, L. Rizzi, E. Koukaras, J. Parthenios, K. Papagelis, R. Sordan and C. Galiotis, Nanoscale **7**, 13033-13042 **2015**.
9. “Embedded trilayer graphene flakes under tensile and compressive loading”, G. Tsoukleri, J. Parthenios, C. Galiotis and K. Papagelis, 2D Materials **7**, 024009 **2015**.
10. “Stress Transfer Mechanisms at the Submicron Level for Graphene/Polymer Systems” by G. Anagnostopoulos, C. Androulidakis, E.N. Koukaras, G. Tsoukleri, I. Polyzos, J. Parthenios, K. Papagelis, C. Galiotis, ACS Appl. Mater. Interfaces **7** (7), 4216–4223, **2015**.
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12. “All-plastic, low-power, disposable, continuous-flow PCR chip with integrated microheaters for rapid DNA amplification” D. Moschou, N. Vourdas, G. Kokkoris, G. Papadakis, J. Parthenios, S. Chatzandroulis, A. Tserepi, Sensors and Actuators, **199** 470-478, **2014**
13. “Failure Processes in Embedded Monolayer Graphene under Axial Compression” C. Androulidakis, E.N. Koukaras, O. Frank, G. Tsoukleri, D. Sfyris, J. Parthenios, N. Pugno, K. Papagelis, K.S. Novoselov, C. Galiotis, SCIENTIFIC REPORTS (Nature), **4**, 5271, DOI: 10.1038/srep05271 , **2014**
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- 18.** “Raman Spectroscopy of graphene at high pressure: Effects of the substrate and the pressure transmitting media” by k. Filintoglou, N. Papadopoulos, J. Arvanitidis, D. Christofilos, O.Frank, M. Kalbac, J. Parthenios, G.Kalosakas, C. Galiotis, K. Papagelis, Phys. Rev. B, 88(4), **2013**
- 19.** “Buckypaper as Pt-free Cathode Electrode in Photoactivated Fuel Cells”, Sfaelou, S.; Antoniadou, M.; Trakakis, G.; Dracopoulos, V.; Tasis, D.; Parthenios, J.; Galiotis, C.; Papagelis, K.; Lianos, P. *Electrochim. Acta*, 80, 399–404, **2012**
- 20.** “Phonon and Structural Changes in Deformed Bernal Stacked Bilayer Graphene”, Otakar Frank, Milan Bouša, Ibtsam Riaz, Rashid Jalil, Kostya S. Novoselov, Georgia Tsoukleri, John Parthenios, Ladislav Kavan, Konstantinos Papagelis, and Costas Galiotis, *Nano Letters* 12 (2), 687-693, **2012**
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- 24.** “Nanostructured Heteroarm Star Block Terpolymers via an Extension of the “In-Out” Polymerization Route”, G. Linardatos, G. Tsoukleri, J. Parthenios, C. Galiotis, O. Monticelli, S. Russo, and C. Tsitsilianis, *Macromol. Rapid Commun.* 32, 371-377, 2011

- 25.** “*Compression Behaviour of Single-layer Graphenes*” by O. Frank, G. Tsoukleri, J. Parthenios, K. Papagelis, K. S. Novoselov , and Costas Galiotis, ACS Nano, 4(6), pp.3131-3138(2010)
- 26.** “*Subjecting a Graphene Monolayer to Tension and Compression*” by Georgia Tsoukleri, John Parthenios, Konstantinos Papagelis, Rashid Jalil, Andrea C. Ferrari, Andre K. Geim, Kostya S. Novoselov, and Costas Galiotis, *Small*, 5/21 (2009), 2397-2402
- 27.** “*The effect of oxidation treatment on the properties of multi-walled carbon nanotube thin films*” by Zdenko Špitalsky, Christos Aggelopoulos, Georgia Tsoukleri, Christos Tsakiroglou, John Parthenios, Stavroula Georga, Christoforos Krontiras, Dimitrios Tasis, Kostas Papagelis, Costas Galiotis, *Materials Science and Engineering: B*, 165/3, (2009), 135-138
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- 30.** “*Thermal stress development in fibrous composites*” by G. Anagnostopoulos G., J. Parthenios, and C. Galiotis *Mat. Lett.* **62** (3), pp. 341-345, **2008**.
- 31.** “*Transformation fatigue and stress relaxation of shape memory alloy wires*” by P. Pappas, D. Bollas, J. Parthenios, V. Dracopoulos, and C. Galiotis, *Smart Mater. Struct.*, **16** (6), 2560-2570, **2007**
- 32.** “*Covalently functionalized carbon nanotubes as macroinitiators for radical polymerization*” by K. Papagelis, M. Kalyva, D. Tasis, J. Parthenios, A. Siokou, and C. Galiotis, *Physica Status Solidi (B) Basic Research* **244** (11), 4046-4050, **2007**
- 33.** “*Stress generation by shape memory alloy wires embedded in polymer composites*” by D. Bollas, P. Pappas, J. Parthenios, and C. Galiotis, *Acta Materialia*, **55** (16), 5489-5499, **2007**
- 34.** “*Phonon stress sensitivity for interface characterization of fibrous composites at various temperatures*” by G. Anagnostopoulos, J. Parthenios, and C. Galiotis , *Acta Materialia*. **55** (11), 3783-3793, **2007**
- 35.** “*Effect of Stress and Temperature on the optical phonons of aramid fibers*” by D. Bollas, J. Parthenios, and C. Galiotis *Phys. Rev.B - Condensed Matter and Materials Physics* **73** (9), art. no. 094103, pp. 1-8, 2006
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- 38.** "Determination of interface integrity in high volume fraction polymer composites at all strain levels" by G. Anagnostopoulos, D. Bollas, J. Parthenios, G.C. Psarras, C. Galiotis, Acta Materialia, **53**, 647-657, **2005**
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- 40.** "Progress on Composites with Embedded Shape Memory Alloy wires" by J. Schrooten, V. Michaud, J. Parthenios, G. C. Psarras, C. Galiotis, R. Gotthardt, J. A. Månsen, J. Van Humbeeck, , Materials Transactions JIM, **43**(5), 961-973, **2002** (invited review paper)
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- 45.** M. Fakis, J. Polyzos, G. Tsigaridas, J. Parthenios, A. Fragos, V. Giannetas, P. Persephonis and J. Mikroyannidis by "Novel class of Pyrylium dyes with high efficiency in lasing and nonlinear optical properties", Chem. Phys. Lett. **323**, 111-116, **2000**
- 46.** "Evaluation of method for determining the time-dependent resistance and inductance of a laser discharge" by P. Persephonis, A. Ioannou, J. Parthenios, Electron. Lett., **34**(21), 2030, **1998**.
- 47.** "Numerical Analysis of the electrical and optical behaviour of a pulsed gas laser through time dependent resistances and inductance" by P.Persephonis, A. Ioannou, J. Parthenios C.Georgiades and V.Giannetas, Appl. Phys. B-Photo, **66**, 34-46, **1998**.

- 48.** ."The time evolution of the resistances and inductances of the discharges in a pulsed gas laser through its current waveforms" by P.Persephonis, V.Giannetas, A. Ioannou, J. Parthenios and C.Georgiades IEEE T. Plasma Sci., **24** 1208-1214, **1996**.
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- 54.** "The influence of the external circuit on arc-discharge of a spark-gap: Its application to a pulsed gas laser" by P.Persephonis, B.Giannetas, C.Georgiades, J. Parthenios, A. Ioannou, IEEE J. Quantum Electron. **31**, 567-572, **1995**
- 55.** "Capacitance allocation and its role in the performance of doubling circuit pulsed gas lasers: Its application to the N₂ laser" by P.Persephonis, B.Giannetas, J.Parthenios, C.Georgiades, A. Ioannou IEEE J. Quantum Electron. **29**(8), 2371-2378, **1993**
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Invited talks

1. "Strain engineering in two dimensional materials", 12th International Conference on Nanosciences & Nanotechnologies (NN15), Thessaloniki (Greece), July 2015.
2. "Graphene: Synthesis, properties and applications", Board of European Students of Technology (BEST) Summer Course "Re-create engineering: think out of the box!", Patras, Greece, July 2011.
3. "Few layer graphene flakes under efficient mechanical loading: experiment and modelling", Graphene Week

2014, Gothenburg (Sweden), June 2014.

4. «Το γραφένιο, ένα γνωστό - άγνωστο υλικό», 14^ο συνέδριο της Ένωσης Ελλήνων Φυσικών

Refereed Books of Proceedings

1. “Uniaxial loading of polymer-embedded graphene: is orthogonal buckling avoidable?”, M.G. Pastore Carbone, G. Tsoukleri, I. Polyzos, J. Parthenios, K. Papagelis and C. Galiotis, ECCM17 - 17th European Conference on Composite Materials, Munich (Germany), 26-30 June 2016.
2. “Stress-transfer at the nanoscale in simply-supported and embedded monolayer graphene/polymer systems”, G. Anagnostopoulos, C. Androulidakis, G. Tsoukleri, J. Parthenios, I. Polyzos, K. Papagelis, C. Galiotis, Proceedings of the 16th European Conference on Composite Materials (ECCM 2014), Seville (Spain), 2014.
3. “Fabrication and properties of polymer nanocomposites based on carbon nanotubes prepgres”, G. Trakakis, D. Tasis, J. Parthenios, C. Galiotis and K. Papagelis, Proceedings of the 16th European Conference on Composite Materials (ECCM 2014), Seville (Spain), 2014.
4. “Compression failure of graphene sheets in polymer nanocomposites”, C. Androulidakis, E. N. Koukaras, O. Frank, G. Tsoukleri, D. Sfyris, J. Parthenios, N. Pugno, K. Papagelis, K. S. Novoselov, C. Galiotis, Proceedings of the 16th European Conference on Composite Materials (ECCM 2014), Seville (Spain), 2014.
5. “Effect Of Aging On Physical And Mechanical Properties Of Biologically Produced Poly-Hydroxyalkanoates” G. Dimitrellos, I. Koumelis, I. Ntaikou, J. Parthenios and G. Lyberatos, 5th International Conference on Engineering for Waste and Biomass Valorisation - August 25-28, 2014 - Rio de Janeiro, Brazil
6. “Tensile mechanical properties of embedded single, bi- and tri-layer graphene flakes”, G. Tsoukleri, O. Frank, N. Delikoukos, K. Papagelis, J. Parthenios, K. S. Novoselov, C. Galiotis, Proceedings of the 15th European Conference on Composite Materials (ECCM 2012), Venice (Italy), 2012.
7. “Carbon nanotubes buckypapers of controlled porosity and their nanocomposites”, G. Trakakis, D. Tasis, C. Aggelopoulos, J. Parthenios, C. Galiotis and K. Papagelis, Proceedings of the 15th European Conference on Composite Materials (ECCM 2012), Venice (Italy), 2012.
8. “Polymer nanocomposites based on CNT buckypapers”, C. Galiotis, Z. Spitalsky, G. Tsoukleri, G. Trakakis, D. Tasis, C. Krontiras, J. Parthenios, K. Papagelis, Proceedings of the 17th International Conference on Composite Materials (ICCM-17), Edinburgh (UK), 2009.
9. “Graphene Under Uniaxial Deformation: A Raman Study” by O.frank, G.Tsoukleri, J.Parthenios, K. Papagelis,

- I.Riaz, K.S. Novoselov, M. Kalbac, L. Kavan, C. Galiotis, 3rd Internationa Conference on Nanocon, Brno, Czech Republic, 21-23 September, (2011).
10. "Thermal characterization of porous silicon micro- hotplates using ir thermometry", R. Triantafyllopoulou, C. Tsamis, S. Chatzandroulis , T. Speliotis, J. Parthenios, K. Papagelis and C. Galiotis, The 14th international conference on solid-state sensors, actuators and microsystems, Lyon France 10-14 September 2007.
11. "Study of interfacial phenomena in oxidized strained – Silicon", N. Kelaidis, V. Ioannou-Sougleridis, D. Skarlatos, C. Tsamis, J. Parthenios, K. Papagelis, C. Galiotis, B. Kellerman and M. Seacrist, The 8th International Conference on Ultimate Integration on Silicon (ULIS), Leuven, Belgium, 15-16 March 2007.
12. "Smart Composites Incorporating Shape Memory Alloy Wires: Stress Transmission Through the Wire/ Polymer Interface", D. Bollas, J. Parthenios and C. Galiotis, International Conference on Interfaces & Interphases in Multicomponent Materials September 12-14, 2005, Centre Culturel Villeurbanne, Lyon - Villeurbanne, France [Invited].
13. "An experimental and theoretical study of the stress transfer mechanism in fibrous composites", G. Anagnostopoulos, J. Parthenios and C. Galiotis, International Conference on Interfaces & Interphases in Multicomponent Materials, Centre Culturel Villeurbanne - Lyon, France, September 12-14, 2005.
14. "A new methodology for measuring stress in polymer fibres through interface interactions at elevated temperatures", G. Anagnostopoulos, J. Parthenios, and C. Galiotis, International Conference on Interfaces & Interphases in Multicomponent Materials, Centre Culturel Villeurbanne - Lyon, France, September 12-14, 2005.
15. "Investigation of stress transfer mechanisms in fibre reinforced composites under tension and compression", G. Anagnostopoulos, C. Koimtzoglou, D. Bollas, S. Goutianos, J. Parthenios, G. C. Psarras and C. Galiotis, Proceedings of COMP 2003 5th Intern. Symposium on Advanced Composites, Session: Joints and Interfaces, May 5-7, (2003), Corfu, Greece.
16. "Effect of mechanical and thermal load on the Raman spectra of aramid fibres", D. Bollas, J. Parthenios, G. C. Psarras and C. Galiotis , 15th European Symposium on Polymer Spectroscopy , Hersonissos, Crete, Greece, June 8-12 2003.
17. "The role of the capacitances in the performance of a pulsed gas laser. An application to the N₂ laser", P. Persephonis, J. Parthenios, A. Ioannou and V. Giannetas, Procedings of the GCL HPL 98 XII International Symposium on Gas Flow and Chemical Lasers - High Power Conference, St. Petersburg, Russia, (September 1998) SPIE, vol 3574, pp. 630-636, 1998.

18. P. Persephonis, V. Giannetas, C. Georgiades, J. Parthenios and A. Ioannou "The electrical characteristics of a discharge in a pulsed gas laser", Proceedings of the 2nd GR-I International Conference on New laser Technologies and Applications" Ancient Olympia (June 1997), Greece, SPIE, vol. 3423, pp. 72-77, 1998.
19. P. Persephonis, A. Ioannou, J. Parthenios "The finding of the time dependent resistance and inductance of the laser discharge in a pulsed gas laser through their waveforms of the voltage and the current" Proceeding of the 11th International Symposium on Gas Flow and Chemical Lasers and High Power Laser Conference, Edinburg, U.K(August 1996), SPIE vol. 3092, pp. 659-662.
20. P. Persephonis, A. Ioannou, J. Parthenios, C. Georgiades and V. Giannetas "The time evolution of the electric characteristics of a laser discharge through their waveforms of the voltage and the current", Proceedings of the 5th International Conference on Industrial Lasers @ Laser Applications ILLA Moscow, Russia (June 1995) SPIE vol 2713, pp.187-196 1995 [Invited].
21. P. Persephonis, B. Giannetas, A. Ioannou, J. Parthenios, and C. Georgiades "Determination of the electrical characteristics of the discharges in a pulsed gas laser through its current waveforms", Proceedings of the 10th International Symposium on Gas flow and Chemical lasers GCL Friedrichshafen Germany (September 1994) SPIE vol 2502, pp. 440-445, 1994.
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23. P. Persephonis, B. Giannetas, J. Parthenios and C. Georgiades. "Electrical discharges investigation in pulsed gas lasers" Proceedings of the International Congress "Optical Science and Engineering " ECO 4. The Hague, The Netherlands (March 1991) SPIE Vol. 1503, pp 185-191, 1991.

Non-Refereed International Conferences

24. 26th Condensed Matter Division (CMD 26) of the European Physical Society, Session: Theory and Simulation of 2D materials, Groningen (Netherland), 4-9 September 2016 (Invited oral presentation).
25. Graphene 2016, Genoa (Italy), April 2016 (oral and 2 poster presentation).
26. 17th European Conference on Composite Materials (ECCM17), Munich (Germany), June 2016 (invited oral and oral).
27. 5th International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems (IC4N-2016), Porto Heli (Greece), June 2016 (invited oral).
28. Graphene Week 2016, Warsaw (Poland), 13-17 June 2016 (oral and poster presentation).

29. 5th International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems (IC4N-2016), Porto Heli (Greece), June 2016 (invited oral, oral and poster presentation).
30. 17th European Conference on Composite Materials (ECCM17), Munich (Germany), 26-30 June 2016 (2 oral presentations).
31. ImageNano 2015, Bilbao (Spain), March 2015 (poster presentation).
32. Graphene Week 2015, Manchester (UK), June 2015 (5 poster presentation).
33. Graphene Flagship Meeting (WP10 Nanocomposites), Institute of Organic Synthesis and Photoreactivity (ISOF) of the National Research Council of Italy (CNR), Bologna (Italy), 23-24 April 2015 (oral presentation).
34. 12th International Conference on Nanosciences & Nanotechnologies (NN15), Thessaloniki (Greece), July 2015 (2 oral and poster presentations).
35. 6th International conference on Advanced Nanomaterials, 1st International conference on Graphene Technology, 1st Internationsl conference on Hydrogen Energy (ANM2015), Aveiro (Portugal), July 2015 (2 poster presentations).
36. 20th International Conference on Composite Materials (ICCM20), Copenhagen (Denmark), July 2015 (oral and poster).
37. A Multidisciplinary and Intersectorial Workshop on Synthesis, Characterization and Technological Exploitation of Graphene (GraphITA 2015), Universita degli Studi de L'Aquila, L'Aquila (Italy), September 2015 (oral and poster presentations).
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