

## **CURRICULUM VITAE**

### **Constantine (Costas) Galiotis**

Date of Birth : 8 November 1954  
Place of Birth : Piraeus, Greece  
Status : Married, 2 children

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### **PRESENT POSITION**

- ♦ Professor in the Department of Chemical Engineering at the University of Patras
- ♦ Collaborating Faculty Member of the Institute of Chemical Engineering Sciences (FORTH/ ICE-HT)
- ♦ Visiting Professor, School of Engineering and Materials, Queen Mary University of London

### **EDUCATION**

1977-1981 Phd in Materials Science, University of London  
1972-1977 BSc in Chemistry, University of Athens

### **PREVIOUS EMPLOYMENT OCCUPATION**

2014-current Professor, Dept. of Chemical Engineering, Univ. of Patras  
2002-2014 Professor, Dept. of Materials Science, Univ. of Patras  
2007-2013 Director of the Institute of Chemical Engineering Sciences (ICE-HT); member of the Board of Directors of Foundation for Research and Technology, Hellas (FORTH)  
1996-2002 Research Director FORTH/ICE-HT  
1993-1997 Reader in Materials Science at Queen Mary Univ. of London  
1987-1993 Lecturer (with Tenure) in Materials Science at Queen Mary Univ. of London  
1986 Lecturer (Tenure-track) in Materials Science at Brunel University  
1981-1986 Research Assistant at Queen Mary Univ. of London

### **PROFESSIONAL ACTIVITIES**

Head of the National (Greek) Representation in the NMBP (Nano-Materials-Bio-Production) Committee of Horizon 2020 and FP7 (2011-2018) of the Commission of European Communities. National Representative in the Graphene Flagship (2013-2023). Founder and Head of the FORTH Graphene Centre (the only Graphene Centre in Greece). Member of the European Research Council (ERC) PE8 panel for Engineering (since 2014). Served as Expert, Reviewer, and Independent Observer for evaluation of European FP5, FP6, FP7 and Horizon 2020 research proposals. Served as a Vice-Chair of Marie-Curie evaluations in the whole of FP7 and Horizon 2020 (2014). External Reviewer of the European Commission Joint Research Centre (JRC) at ISPRA, Italy (2000-2003). Reviewer for the Fulbright Foundation, USA, (1992-current). Reviewing applications for promotion to tenured faculty positions for US universities (Cornell, GIT, RPI). UK representative and coordinator of the university-industrial liaison for the European Concerted Action on Composite Interfaces (1992-97). Official External Examiner/ Reviewer for the MSc course on Advanced Materials in the Department of Materials of University of Surrey, UK (1995-97). External Examiner of PhD programmes for 4 UK universities (London, Manchester, Sheffield, Surrey), 1 German (Kaiserlautern) and 2 Greek universities (Athens-Technical and Patras) (1990-current). Member of the Academic Board of Queen Mary Univ. of London (1993-95).

### **MANAGERIAL/ ADMINISTRATIVE EXPERIENCE**

Member of the Scientific Council of Greek Foundation for Research and Innovation (ELIDEK) and Director of the Physical Sciences Program (2017-Current). Member of the Executive Board of Graphene Flagship (2016-Current) and Leader of the Work Package 'Composites'. Director of the Nanotechnology Innovation HUB (NanoHUB) at Patras Science Park (2016- current). Director of the Institute of Chemical Engineering Sciences (ICE-HT) and member of the Board of Directors of Foundation for Research and Technology, Hellas (FORTH) (2007-2013). Member of the Board of Directors of European Centre of Nanostructured Polymers (2004-2006, 2008-2010). Member of the Board of Directors of ADVENT Technologies (Greece-US) (2004-2010). Elected Member of the Executive Council of the European Association of Composite Materials (1999-2012). Elected President of the European Association of Composite Materials (2004-2006). Member of the Board of Directors of Nanofun-Poly Network of Excellence (2004-2008).

### **INDUSTRIAL INVOLVEMENT**

Served as consultant for all major material suppliers and other engineering companies such as Airbus, BASF, Fiat, Dallara automobile and in the period 1987-2000 of Dow Chemicals, BP (Sunbury), Monsanto (Solutia) Inc, Courtaulds plc, British Aerospace (BAe) etc. Collaborated in joint programs with BOEING, Du Pont de Nemours etc.

### **UNIVERSITY COURSES TAUGHT**

- ♦ Department of Chemical Engineering- Univ. of Patras Mechanical Strength of Materials; Materials Science, Nanomaterials and Nanotechnology, Materials for Energy Applications
- ♦ Department of Materials Science - Univ. of Patras Physical Chemistry; Materials Science (3); Composite Materials, Polymers
- ♦ Graduate Masters Programme on Polymers- Univ. of Patras Physics of Polymers; Composite Materials
- ♦ Graduate Masters Programme on Polymers- Univ. of Athens Polymer Composites: Fabrication and properties

### **UNIVERSITY COURSES TAUGHT IN UK (1987-1997)**

- ♦ Department of Materials - Queen Mary Univ. London Thermodynamics and Chemical Kinetics; Mechanical Properties of Polymers
- ♦ Graduate Masters Programme on Composites- Queen Mary & Imperial College Mechanical Characterisation, Impact Fatigue and Environmental Properties of Composites

### **RESEARCH ACTIVITIES:**

**Graphene and Carbon Nanotubes:** Chemical Vapour Deposition and synthesis of graphene and other 2D materials. Surface modification and structural characterisation. Mechanical properties in tension and compression. Production of nanocomposites. Mechanical and physical properties of graphene and CNT composites. **Composites:** Interfacial measurements. Micromechanics of reinforcement. Strain mapping. Modes of Failure. Mechanical characterisation. Smart Structures. **Polymers:** Modelling structure/ property behaviour in semi-crystalline polymers. Morphological and structural characterisation of moulded polymers. Spectroscopic characterisation of polymers. **Non-Destructive Testing of Materials:** World leader in the application of Laser Raman spectroscopy for stress or strain measurements in fibres and composites. Application to both polymeric and ceramic based composites.

### **RESEARCH EXPEDITIONS**

EU assessor of new research institutes of the Widening Program (2018-current). Chairman of the international assessment committee of the Programme of Graduate Studies in Polymer Science & Technology at the University of Patras (2000). Multiple Research Missions to the European research lab (JRC) at ISPR, Italy on the theme of "Composite Structures" (1995-97).

### **RESEARCH PROJECTS/ FUNDING**

Extensive experience with the management of research projects and main co-ordinator/ partner of over 50 research programmes (funded by CEC, national bodies and industry) of total value of over 100 M€. To date he has handled almost 18 M€ for work related to the activities of his own group. Coordinator of an ERC-Advanced Program (2013-2018) and of an ERC-PoC (2017-2019). Leader of WP14- Composites of the Graphene Flagship (the largest ever research program of EU funded by 1 billion Euro, 2013-2023). Has

coordinated in the past large research programmes funded by FP7, ERC (GSRT) and other sources. From 2004-2008 he participated as a core partner in the European Network of Excellence (NoE) in Nanostructured Polymers and Nanocomposites. He coordinated (2006-10) a Marie Curie – Transfer of knowledge (TOK) grant for research in high volume fraction in carbon nanotube polymer composites. Funding agencies include CEC (FP5, FP6, FP7, Horizon 2020), EPSRC (UK), DRA (UK), ROYAL SOCIETY (UK), ONR (USA), GSRT (GR) etc. [APPENDIX I](#)

### **CURRENT RESEARCH GROUP (18)**

#### **Post-Doctoral (9):**

Maria-Giovanna Pastore Carbone, George Anagnostopoulos, George Gorgolis, Panagiotis Pappas, Charalambos Androulidakis, Anastasios Manikas, George Trakakis, Nikolaos Kontis, Nikos Koutroumanis

#### **PhD (9):**

George Paterakis, Christos Pavlou, Christos Katsiropoulos, Christos Tsakonas, Christos Kostaras, Marinos Dimitropoulos, Maria Kotsidi, Elli Bellou, Stella Peloni

#### **PhD SUPERVISION**

25 awarded PhD and 9 in progress

[APPENDIX II](#)

#### **MSC SUPERVISION**

25 awarded MSc

[APPENDIX III](#)

#### **LANGUAGES**

Fluent in Greek, English, Spanish, Italian. Working knowledge of French.

#### **EDITORIAL: International Journals**

*Editor-in-Chief* of the Journal “**Graphene Technology**” (Springer-Nature, since 2017).

*Editor-in-Chief* of “**Advanced Composites Letters**” (1993-2018, recently acquired by SAGE publishing). International fully cited journal on Composite Materials. Published refereed short Letters and Full Papers.

*Editor-in-Chief* of the Journal of “**Nanostructured Polymers and Nanocomposites**” (2005-2014). The journal was publishing research papers every three months (publishers: ECNP, Italy) and was indexed by Scopus.

*Editorial Board Member* of the journals “**Scientific Reports**” (Springer-Nature), “**International Materials Reviews**” and “**Applied Sciences**”.

#### **PRIZES/ HONOURS:**

- ♦ Fellowship of the Institute of Materials, Minerals and Mining (IOM3) (2020)
- ♦ Award from Bodossakis Foundation for innovative project/ patent application (2019)
- ♦ The Aristeion of Academy of Athens in the Natural Sciences for the year 2019 (it is the annual top prize for a specific discipline)
- ♦ Fellowship of the European Academy of Sciences (EuRASc) (2019)
- ♦ Elected member of the Scientific Council of Greek Foundation for Research and Innovation (ELIDEK) (2017-Current)
- ♦ Elected Member of the Graphene Flagship Executive Board of (2016-current).
- ♦ “Pericles Theocaris” Award - Academy of Athens (December 2015), for the scientific publication "Curvature dependent surface energy for a free standing monolayer graphene: Some closed form solutions of the non-linear theory" (D. Sfyris, G. I. Sfyris and C. Galiotis, *International Journal of Non-Linear Mechanics*, **67**:186-197, 2014).

- ♦ Appointment as a National Representative for Greece in the Horizon 2020 Programme Committee of Nanotechnology, Materials, Processes and Biotechnology (2011-2018).
- ♦ Appointment in the FP7 Programme Committee as a National Representative of Nanotechnology, Materials and Processes (FP7-NMP) for Greece (2011-2013).
- ♦ National Representative in the Graphene FET Flagship (since 2012).
- ♦ Award of *The John S. Latsis Public Benefit Foundation* for the project “*Mechanical behaviour of two-dimensional crystals: The case of graphene*” (2010).
- ♦ Elected Member of the Executive Council of the European Association of Composite Materials (1999-2012).
- ♦ Member of the Board of Directors of Nanofun-Poly Network of Excellence (2004-2008).
- ♦ Elected President of the European Association of Composite Materials (2004-2006).
- ♦ Institute of Materials top prizes for research papers (1990,'91,'93).
- ♦ British Government Scholarship (1978-91).
- ♦ Du Pont Young Faculty Award (1989-90).
- ♦ Second Prize of Greek Mathematical Society (1972).

#### **MEMBERSHIPS**

- ♦ Member of European Academy of Sciences (EURASC).
- ♦ Member of American Chemical Society (ACS).
- ♦ Editorial Board Member (Chemical Physics) of Scientific Reports (Nature) journal.
- ♦ Fellow of the Institute of Materials (UK).
- ♦ Member of the Institute of Physics (Chartered Physicist).
- ♦ Member of IUPAC (WP 4.2.1).
- ♦ Member of ASTM (Committee D-30).
- ♦ Member of the US Fiber Society.
- ♦ Member of the Materials Research Society.
- ♦ Member of SAMPE.
- ♦ Member of the Greek Society of Chemists.
- ♦ Elected Member of the Executive Council of the European Association of Composite Materials
- ♦ Member of the European Society of Composite Materials.
- ♦ Elected Member of the Executive Council of FORTH/ICE-HT.

#### **INVITED/PLENARY OR KEYNOTE PRESENTATIONS (Last 10 years)**

- 2021, Advanced Materials Conference, June 16<sup>th</sup>, Online Event, “Functional Novel Composites” - INVITED virtual talk
- 2020, Grapchina 2020, October 16th -18th, 2020 Shanghai, China, “Towards Macroscale Superlubricity Enabled by Strained Graphene” – INVITED virtual talk
- 2019, SIPS 2019, Vayenas International Symposium on Physical Chemistry and its Applications for Sustainable Development, 23-27 October 2019, Paphos, Cyprus, “Graphene Synthesis and Applications” - PLENARY SPEAKER
- 2019, Grapchina 2019, Xi’an, China, October 19-21, "Graphene Composites with emphasis on current results and developments" – INVITED/ PLENARY SPEAKER
- 2019, Graphene Week 2019, Helsinki, Finland, September 23-27, “Activities in the area of graphene composites by the Graphene Flagship”- (EU-Australia workshop)/INVITED
- 2019, Graphene Brazil 2019, Rio de Janeiro September 9-10, “ Current developments in the area of graphene composites with emphasis on industrial applications” - INVITED/ KEYNOTE SPEAKER
- 2019, Graphene 2019, Rome, Italy June 25-28, “Activities related to research and applications in the area of graphene composites by the Graphene Flagship” – INVITED

2019, CNPComp2019, London, 17-19 July, "Graphene Polymer Composites; Interface Effects and Mechanics in Tension and Compression" - INVITED

2018, Shechtman – Suresh Convocation & Honorary Symposium, Aristotle University of Thessaloniki Nov 30 – Dec 3, "Mechanics of monolayer graphene at suspended and embedded states"

2018, 12<sup>th</sup> Hellenic Polymer Society International Conference, Ioannina, Greece, September 30 - October 3, "Multi-functional graphene/polymer nanocomposites"

2018, Graphene Week 2018, San Sebastian Spain, September 10-14, "Development of multi-functional macro-scale CVD graphene/polymer nanolaminates"

2018, ECCM18, Athens, Greece, June 25-28, "Overview of Graphene Polymer Composites with emphasis on current developments"

2018, Imagine Nano, Bilbao, Spain, March 13-16, "Multi-functional CVD graphene/polymer nanolaminates"

2018, Graphene Study Winter School 2018, Obergurgl, Austria, February 5-10, "Mechanical properties of graphene and graphene/ polymer composites"

2017, 3<sup>rd</sup> EU-Korea Workshop on Graphene and Related 2D Materials, Jeju Korea 5-6 December 2017, "Mechanics of Graphene in Suspended, Supported and Embedded States"

2017, "Eurofillers Polymer Blends 2017", Heraclion, Greece, "Graphitic materials; the ideal multifunctional polymer fillers"

2017, GRAPHENE 2017, 28-31 March, Barcelona, Spain, "Towards a better understanding of the mechanical behaviour of graphene and 2D materials"

2016, ICAutoC 2016, Lisboa 21-23 September, "From Graphene to Carbon Fibres: mechanical properties and stress transfer in composites"

2016, Graphene 2016, Genova 19-22 April, "Mechanics of Suspended and Supported Graphene"

2015, GraphITA 2015, Bologna 14-18 September, "Uniaxial tension of 2D membranes such as graphene; is orthogonal buckling avoidable?"

2015, GrapheneWeek 2015, Manchester 22-26 June

2015, Euronanoforum Latvia, Riga 10-12 June, Graphene Workshop "Graphene Mechanical Properties"

2015, Graphene Flagship meeting, Bologna 23-24 April

2015, 3<sup>rd</sup> Science & Technology Forum, Demokritos NSCF, Athens, Greece "Mechanical deformation of graphene and graphene-based nanocomposites"

2014, Horizon 2020, Athens & Patras, Greece, December 8-9, topic: "The Greek participation in the MNPB Committee for the Horizon 2020"

2014, 10<sup>th</sup> Hellenic Polymer Society Conference, Patras, Greece, December 4-6, topic: "Polymer/graphene stress transfer mechanisms"

2014, Israel-Greece Joint Meeting on Nanotechnology & Bionanotechnology, Tel Aviv, Israel, October 19-22, topic: "Nanotechnology Research in Greece"

2014, Graphene Summer School 2014, Patras, Greece, July 14-18, topic: "Recent Scientific Advances and Applications of Graphene"

2014, Graphene 2014, Toulouse, France, May 6-9, topic: "Graphene Research in Greece"

2014, Industrial Technologies 2014, Athens, Greece, April 9-11, topic: "Smart Growth Through Research and Innovation"

2014, GRAPHEsp2014, Lanzarotte, Spain, February 18-24, topic: "Interfaces in Graphene Polymer Composites"

2013, TNT'13 Seville, Spain, topic: "Mechanical Behaviour of Graphene-based Nanocomposites"

2013, Onassis Lectures Series in Physics and Chemistry (theme: Nanosciences and Nanotechnology), July 15-19 2013, Heraklion, Greece, topic: "Graphene Research in Greece"

2012, Nanocarbon, Valencia, Spain topic: "Mechanical Behaviour of Graphene-based Nanocomposites"

2012, ECCM17, Venice, Italy, topic: "Mechanical Behaviour of Graphene and Graphene Nanocomposites"

2012, FET Flagship, Manchester, UK, *topic: "Mechanical Properties of Graphene"*  
2011, Graphita, L'Aquila, Italy, *topic: "Deforming Single and Multilayer Graphenes"*  
2011, Brussels, DG-Research, NMP Workshop- Graphene 2020, *topic: "Mechanical Properties of Graphene"*  
2011, Crete, IC4N, *topic: "Mechanical Properties of Graphene in Tension and Compression"*  
2011, Cyprus, 27 Sol.State Phys. & Mater.Sci.Conf.,*topic:"Mechanical Deformation of Graphenes and Graphene-based Nanocomposites"*  
2010, ECNP, Madrid, *topic: "Mechanical Behaviour of Monolayer Graphene and Nanocomposites"*  
2010, Polymer Fibre, Edinburgh, UK, *topic: "Seeing carbon fibres through graphene"*

Full list please see

[APPENDIX IV](#)

### **ORGANISATION OF INTERNATIONAL CONFERENCES/ WORKSHOPS AND SUMMER SCHOOLS**

2017, **Chairman and Organiser** of the **Graphene Week** (Athens, Greece)  
2015, **Chairman and Organiser** of the **Summer School 2015**(Patras, Greece) on **New Carbon Fibres**- 100 participants  
2014, **Chairman and Organiser** of the **Graphene Summer School 2014** (Patras, Greece)-100 participants  
2014, **Chairman and Organiser** of a Workshop on Graphene-based Composites in **ECCM16**, Seville, Spain (June 22-26)  
2014, **Chairman and Co-organiser**(with Prof. Chryssolouris) of the International **Industrial Technologies 2014** Conference (Athens, Greece)- 1300 participants.  
2013, **Co-organiser** (with Prof. Anastasiadis) of the Onassis Lectures Series in Physics and Chemistry (*theme: Nanosciences and Nanotechnology*), July 15-19 2013, Heraklion.  
2012, **Chairman and Organiser** of the International **GraphEL** conference (Mykonos, Greece)- 150 participants.  
2007, **Chairman and Organiser** of the International **NANOCONF'07** conference (Corfu, Greece)- 150 participants.  
2004, **Chairman and Organiser** of **ECCM11** (Rhodes, Greece)- 650Participants.  
1997, **Chairman** of workshop on Composite Materials at **JRC, ISPRA**, Italy- 30 participants.  
1993, **Chairman** Composite Interfaces workshop (funded by ONR, USA) and held in London- 30 participants.

### **PUBLICATIONS**

402 publications in total: 9 chapters in books, 5 refereed reviews, 3 patents, 217 refereed journal papers, 66 refereed books of proceedings, 102 in non-refereed conference proceedings, (see bibliographic diagram from Web of Science).

See

[APPENDIX V](#)

### **CITATIONS(WEB\_of\_SCIENCE)**

~13.000 citations

H-index: 44

See

[APPENDIX V](#)

### **CITATIONS(Google Scholar)**

~18500 citations

H-index - 54

### **GRANTED PATENTS**



*“Art protection with the use of Graphene Materials” awarded by Hellenic Industrial Organization (2020) and still pending at EPO/ PCT (Application No. PCT/EP2019/085993).*

*“Truss Structured Heavy Duty Composite Bridge”, GR patent No. 1003936, issued on 5/7/2002.*

*“Method and Apparatus for Measuring Raman Spectrum and Physical Properties In-Situ”, by J. Dupee, C. Galiotis and D. L. Davidson US Patent # 5,999,255, issued on 7/ 12/1999.*

#### **REFEREED REVIEWS**

5 Publications see

[APPENDIX VII](#)

#### **PUBLICATIONS IN REFEREED JOURNALS (Chronological Order)**

Full list in

[APPENDIX VIII](#)

#### **REFEREED BOOKS OF PROCEEDINGS (CHRONOLOGICAL ORDER)**

Full list in

[APPENDIX IX](#)

#### **NON-REFEREED PROCEEDINGS (Chronological Order)**

Full list in

[APPENDIX X](#)

### **APPENDIX I**

#### **RESEARCH PROJECTS/FUNDING (1997-CURRENT)**

**Major grant-holder of contracts as FORTH/ICE-HT and Univ. of Patras of approx. 16 million Euro (own budget).**

1. **GRAPHENE CORE 3:** “Graphene Flagship Core Project 3”  
(2020-2023) -Budget: 1.486.000,00
2. **DIRECT-SEPA:** “Direct Separation of Two-Dimensional Materials from the Surface of Liquid Metal Catalysts”  
(2020-2022) -Budget: 222.050,00
3. **ITS THIN:** “Water separation revolutionized by ultrathin carbon nanomembranes”  
(2020-2023) -Budget: 115.575,00
4. **FLAGERA** “Graphene cOmposites **FOR** advanced drinking **WATER** treatment [GO-FOR-WATER]”  
(2020-2023) -Budget: 200.000
5. **CAERUS** “Carbon nAnofilters of Enhanced Rigidity for Unpolluted air and gas Sensing” Budget: 210.000,00  
(2019-2021)
6. **APACHE** “Active & intelligent Packaging materials and display cases as a tool for preventive conservation of Cultural Heritage”  
(2019-2022) -Budget: 350.000,00
7. **SMARTFAN** “Smart by Design and Intelligent by Architecture for turbine blade fan and structural components systems”  
(2018-2021) -Budget: 382.487,50
8. **GRAPHENART** “Graphene as effective anti-fading agent for the protection of artworks” -Budget: 119.875  
(2017-2019)
9. **GRAPHENE CORE 2** “Graphene Flagship Core Project 2” -Budget: 430.037  
(2018-2020)
10. **LMCat** “Development of continuous two-dimensional defect free materials by liquid-metal catalytic routes”  
(2017-2020) -Budget: 655.016,25
11. **GRAPHENE CORE 1** “Graphene-Graphene based disruptive technologies”  
(2016-2018)-*further extension envisaged till 2023* -Budget: 340.507
12. **NEWSPEC** “New cost-effective and sustainable polyethylene based carbon fibres for volume market applications” - FP7 Large (2013-2017) -Budget:1.078.016
13. **TAILOR GRAPHENE** “Tailoring Graphene to Withstand Large Deformations” ERC Advanced Grant  
(2013-2018) -Budget:2.025.600

14. **GRAPHENE/GRAPHENE FET FLAGSHIP** "Graphene-Graphene based revolutions in ICT and beyond"  
(2013-2016)- *further extension envisaged till 2023* -Budget: 340.622
15. **INDUSTRY TECH 2014** "Smart Growth Through Research and Innovation; Towards EUROPE 2020"  
(2013-2014) -Budget: 599.959
16. **PhoSIL** "Design and development of energy efficient photovoltaic cells of new architectures with laser processing" REGIONAL OF WESTERN GREECE (2012-2014) -Budget: 195.656
17. **ECNP-GROWTH** "Consolidation of the European Centre for Nanostructured Polymers", FP7 (ECNP-GROWTH)  
(2012-2014) -Budget: 53.400
18. **THALIS** "Graphene and Graphene nanocomposites: production, properties and applications"  
MINISTRY OF EDUCATION (2012-2015) -Budget: 599.400
19. **ERC-10** "Deformation , Yield and Failure of Graphene and Graphene-based nanocomposites"  
GSRT (2012-2015)for a short-listed European Research Council (ERC) proposal. -Budget: 1.271.000
20. **Post-Doctoral Programme GSTR** "Mechanical Response of Graphene under high deformations"  
(2012-2015) -Budget: 150.000
21. **HERACLITUS PROGRAMME** "Mechanical and spectroscopic study of reinforced materials based on graphene and model polymeric composites", MINISTRY OF EDUCATION, European Social Fund (2010-2013) -Budget: 45.000
22. **PROSUITE** "Development and application of a standardized methodology for the prospective sustainability assessment of technologies" , FP7-ENV (CEC), (2009-2012) -Budget: 27.000
23. **MARIE-CURIE** "High Volume Fraction Nanocomposites", TOK CNTCOMP, FP6-MC (CEC) (2006-2010) -Budget: 733.900
24. **ΑΝΑΠΛΑΣΤ** "Composite Materials from Recycled Plastics and Plant Inclusions",  
Region of Western Greece, (2006-2008) -Budget: 150.000
25. **MARIE-CURIE ERG** "Pressure measurements" , (2005-2006), -Budget: 45.000
26. **NANOFUN-POLY** "Nanostructured and Functional Polymer-Based Materials and Nanocomposites", FP6-  
NoE (CEC) (2004-2008) -Budget: 1.167.328
27. **E.P.A.E.K. II** "Identification of failure micro-mechanisms in composite materials via in-situ measurements of stress fields", Ministry of Education (2004-2007) -Budget: 85.000
28. **MARIE CURIE** Large Conference, "European Conference on Composite Materials"  
(CEC) (2004) -Budget: 43.170
29. **Praxe A** "New materials in construction", GSRT, Greece (2003) -Budget: 44.000  
**PENED** "Development and characterization of smart composite materials incorporating shape memory wires",  
GSRT PENED (2002-2005) -Budget: 76.911
30. **PENED** "Intramedullary Osteosynthesis of Bone Fracture and Intramedullary Osteosynthesis Under Stress with the use of Shape Memory Alloys" Ministry of Education- PENED (2002-2006) -Budget: 146.000
31. **VaFTeM** "Ceramic and Carbon Fibres: Validation of Testing Methods, GROWTH"  
(CEC) (2001-2004) -Budget: 200.000
32. **DAMPBLADE** "Wind Turbine Rotor Blades Using Passively Damped Composites,  
FP6 ENERGIE (CEC) (2001-2004) -Budget: 228.920
33. **SAFEFLOOR** "Low Risk and Totally Recyclable Structural Buildings ( ), FP 6 GROWTH" (CEC) (2001-2004) -Budget: 200.000
34. **MEGAWIND** "Development of a MW Wind Turbine for High Wind Complex Terrain Sites" , ENERGIE (CEC) (2001-2004) -Budget: 228.988
35. "Structure and Dynamics in Crystalline Polymers: Vibrational Spectroscopy and Molecular simulation", NATO (2001-2003) -Budget: 9.915
36. **E.P.E.T** "Industrial Applications of Composite Materials", GSRT, E.P.E.T. (2000) -Budget: 2.415
37. "Raman Spectroscopic Study on the Strain-induced Phase Transformation in Isotactic and Syndiotactic Polypropylenes", Greek-German Co-operation, (1999-2001) -Budget: 13.000
38. "Design Construction and installation of all polymer composite bridge", GSRT (1998-2001) -Budget: 395.000
39. **ADAPT** "Adaptive Composites with Embedded Shape Memory Alloy Wires", Brite-Euram (CEC) (1998-2001) -Budget: 530.000

## **INSTITUTIONAL GRANTS**

1. "Strengthening of Research Potential of FORTH/ICE-HT  
Western Regional of Greece (2011-2013) -Budget: 148.300
2. New Construction Programme for FORTH/ICE-HT  
Western Regional of Greece (2012-2015) -Budget: 9.700.000

## **RESEARCH GRANTS (1987-1995):**

**Major grant-holder of contracts of approx. 2.0 million EURO (own budget) during 1987-1995 (at Queen Mary, Univ.of London):**

Biological materials, Nuffield Foundation, (1995)	Budget: 1320
sPS polymeric materials, Dow Europe, (1995)	Budget: 90000
Smart materials, Copernicus European Smart Materials Network, (1994-1997)	Budget: 15000
Travel grant to China, Royal Society, (1994)	Budget: 1575
Macrocomposites, British-German Research Collaboration, (1994-1997)	Budget: 8325
Composite Fracture Characteristics, SERC, (1994-1997)	Budget: 75000
Ceramic composites, ONR-Drexel Univ. (US), (1993-1996)	Budget: 100000
Engineering thermoplastics, Dow Europe, (1993-1995)	Budget: 210000
Quality Control, Comett (CEC), (1992-1995)	Budget: 12750
Composite Interfaces, DRA, (1993-1996)	Budget: 82500
Modelling of interfaces, NPL, Oct. (1992-1995)	Budget: 22500
High Performance polymers, Dow Europe, (1992)	Budget: 112500
BMI composites, Brite-Euram (CEC), (1992-1995)	Budget: 480000
Case Award, British Aerospace, (1991-1994)	Budget: 15750
Carbon fibre (ext.), RAE (MOD), (1991)	Budget: 48000
PEEK composites, ICI- Wilton, (1990-1992)	Budget: 15000
PEEK composites, SERC (Coop.)/ ICI (1990-1992)	Budget: 95578.5
LCP modeling, Dow Europe, (1990-1992)	Budget: 204750
Case Award, ICI- Paints, (1989-1992)	Budget: 4500
APC composites, ICI- Wilton, (1989)	Budget: 12000
Feasibility, SERC (Feasibility), (1989)	Budget: 34500
Kevlar interfaces, DuPont (USA), (1989)	Budget: 23437.5
Relaxation studies, Eurenco Ltd., (1989)	Budget: 11550
Case Award, BP-International, (1988-1991)	Budget: 9450
Carbon fibres, RAE (MOD), (1988-1991)	Budget: 170467.5
Carbon fibres, Courtaulds plc., (1988-1991)	Budget: 45000
Interfaces, AGARD-NATO, (1988-1990)	Budget: 3033
Feasibility, BP-International, (1987)	Budget: 4500
Raman lab, Queen Mary (Univ.London)- Internal, (1987)	Budget: 45000
Euram programme, Spanish Govt., (1987)	Budget: 1500
Work visit, British Council (Spain), (1987)	Budget: 1500

## **APPENDIX II**

### **Doctoral Theses Completed and Defended**

- N. Koutroumanis**, Chemical Engineering Dept., Univ. of Patras (2020)  
*Title: "Preparation of novel composites, chemically modified carbon fiber / epoxy resins and study of the interface with Raman Spectroscopy"*
- Ch. Androulidakis**, Department of Materials Science, University of Patras (2016)

- Title: "Analytical and Experimental Investigation of the Mechanical Behavior of Graphene Membranes under Axial Deformation"*
- G. Trakakis**, Interdepartmental Program in "Polymer Science and Technology", University of Patras (2014)  
*Title: "Fabrication and characterization of polymer nanocomposites"*
- G.Tsoukleri**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras (2013)  
*Title: Mechanical and Spectroscopic Study of Reinforcing and Composite Materials based on Carbon"*
- F.Ravani**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras (2013)  
*Title: "Study of interfacial organic thin films with graphene substrates"*
- P. Pappas**, Department of Materials Science, University of Patras (2009)  
*Title: "Smart composite materials with embedded shape memory alloys"*
- G. Anagnostopoulos**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras (2006)  
*Title: "Study of mechanisms of stress transfer and damage propagation in fibrous polymer composites"*
- D. Bollas**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras (2006)  
*Title: "Smart Composite Materials with Embedded Shape Memory Wires"*
- D. Katerelos**, Department of Mechanical Engineering, University of Patras (2004)  
*Title: "Mechanical behaviour of composite materials under static and dynamic loading and the presence of stress raisers"*
- S. Goutianos**, Queen Mary, University of London (part of PhD at FORTH/ICEHT) (2004)  
*Title: "Micromechanics of compressive failure in carbon-fibre polymer composites"*
- C. Koimtzoğlu**, Department of Mechanical Engineering, University of Patras (2003)  
*Title: "Effect of Fatigue on the Interfacial Integrity of Carbon Fibre/ Epoxy Composites"*
- K. Dassios**, Department of Chemical Engineering, University of Patras (2003)  
*Title: "Bridging Stresses in Ceramic Composites"*
- R.B. Nath** -external student, Queen Mary, University of London (1998)  
*Title: "Finite element analysis of interfacial failure mechanisms in fibre-reinforced composites"*
- A. Evans**, Queen Mary, University of London (1998)  
*Title: "Structure, morphology and crystallisation of syndiotactic polystyrene"*
- J. Dupee**, Queen Mary, University of London (1998)  
*Title: "On-line crystallinity and temperature measurements of nylon-66 using a remote Raman probe"*
- B. Arjyal**, Queen Mary, University of London (1998)  
*Title: "In-situ stress/ strain measurements in composites using an aramid fibre as sensor"*
- A. Paipetis**, Queen Mary, University of London (1997)  
*Title: "A study of carbon fibre/ epoxy interface using remote laser Raman spectroscopy "*
- C. Marston** -external student, Queen Mary, University of London (1997)  
*Title: "An investigation of the strength and interface properties of single carbon fibres and carbon fibre tows in an epoxy resin"*
- K. Dimitriadis**, Queen Mary, University of London (1997)  
*Title: "Modelling of properties of LCP polymers"*
- B. Keneghan**, Queen Mary, University of London (1997)  
*Title: "Preparation and Properties of Diacetylene-Urethane Co-polymers"*
- C. Filiou**, Queen Mary, University of London (1995)  
*Title: "In-situ strain measurements in carbon fibre thermoplastic composites"*
- C. Vlattas**, Queen Mary, University of London (1995)  
*Title: "A study of the mechanical properties of liquid crystal polymer fibres and their adhesion to epoxy resin using Laser Raman Spectroscopy"*
- S. Travis**, Queen Mary, University of London (1994)  
*Title: "The effect of oxidative treatment upon carbon fibre surfaces and adhesion to epoxy resins"*
- N. Melanitis**, Queen Mary, University of London (1991)  
*Title: "An investigation of the tensile, compressive and interfacial properties of carbon fibres, using*

*Laser Raman spectroscopy*

**H. Jahankhani**, Queen Mary, University of London

(1991)

*Title: "Characterisation of Kevlar-49 fibres and interfacial shear strength measurements in model composite materials, using Laser Raman spectroscopy"*

### **APPENDIX III**

#### **PhD Supervision (in progress)**

**S. Peloni**,

**E. Bellou**, Chemical Engineering Dept., Univ. of Patras

*Title: "Response of 2D materials/systems due to mechanical stimuli: exploring the fracture regime"*

**M. Kotsidi**, Chemical Engineering Dept., Univ. of Patras

*Title: "CVD graphene transfer on flexible substrates adopted in contemporary artworks and characterization using various methods, and, study of Graphene Oxide and graphene flakes as additives in paint and coatings"*

**Ch. Tsakonas**, Chemical Engineering Dept., Univ. of Patras

*Title: "Production of graphene sheets with chemical vapour deposition by solid and liquid catalytic Routes"*

**Ch. Kostaras**, Chemical Engineering Dept., Univ. of Patras

*Title: "Composites of Carbon Nanotubes and Two Dimensional Nanomaterials - Fabrication and Technology Applications"*

**M. Dimitropoulos**, Chemical Engineering Dept., Univ. of Patras

*Title: "Synthesis and engineering of 2D material heterostructures: From basic properties characterization to advanced applications"*

**Ch. Katsiropoulos**, Chemical Engineering Dept., Univ. of Patras

*Title: "Preparation and Investigation of polymer composites reinforced with shape memory alloys and graphene aiming to the improvement of their damping behavior"*

**G. Paterakis**, Chemical Engineering Dept., Univ. of Patras

*Title: "Development and experimental study of electrochemical devices based on graphene"*

**Ch. Pavlou**, Chemical Engineering Dept., Univ. of Patras

*Title: "Blending of nanocomposites based on biodegradable polymers with inclusions of organic nanoparticles"*

#### **MSc Supervision**

**A. Akouros**, Interdepartmental Programme in Polymer Science and Technology,

(2020)

*Title: "Development of graphene based stress-strain sensors by using polymer composite materials"*

**I. Souli**, Interdepartmental Programme in Polymer Science and Technology,

(2019)

*Title: "Mechanical behaviour of graphene encapsulated in polymer matrice"*

**N. Sotiriou**, Chemical Engineering Dept., Univ. of Patras

(2017)

*Title: "Chemical deposition and surface modification of graphene thin films"*

**B. Xyseni**, Interdepartmental Programme in Polymer Science and Technology,

Dept. of Physics, Univ. of Patras

(2017)

*Title: "Production of graphene polymer nanocomposites"*

**Ch. Katsiropoulos**, Interdepartmental Programme in Polymer Science and Technology,

Dept. of Physics, Univ. of Patras

(2017)

*Title: "Fabrication and study of polymer composites with embedded super-elastic shape memory alloys aiming to improve the damping properties of the materials"*

**S. Kallivokas**, Chemical Engineering Dept., Univ. of Patras

(2016)

*Title: "Theoretical study of statistical properties and mechanical of graphene with Monte Carlo simulations"*

**F. Petropoulos**, Department of Materials Science, Univ. of Patras

(2015)

*Title: "Preparation and study of multi-functional composites of polymeric matrix with carbon fibres reinforcement"*

**N. Koutroumanis**, Department of Materials Science, Univ. of Patras

*Title: "Production and characterization of new carbon fiber "*

(2015)

**G. Paterakis**, Interdepartmental Programme in Polymer Science and Technology,

- Dept. of Physics, Univ. of Patras (2015)  
 Title: *"Photovoltaic cells and devices using polymeric materials and graphene layers"*
- A. Gontzis**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras  
 Title: *"Smart polymer composites; Study of the response of embedded actuators"*. (2013)
- P. Orfanoudakis**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras (2013)  
 Title: *"Self healing polymers; Fabrication and properties"*.
- L. Seremetis**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras Title: *"Effect of substrate on the properties of graphene; A Raman study"*. (2013)
- G. Trakakis**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras Title: *"Mechanical properties of nanocomposite materials"*. (2010)
- F. Ravani**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras Title: *"Study of surface chemistry of carbon based composites material"*. (2009)
- G. Tsoukleri**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras Title: *"Dynamical Mechanical Properties of Nanostructured Polymers"*. (2009)
- G. Kanellopoulou**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras, Title: *"Effect of recycling upon the properties of recovered polyethylene and polypropylene"*. (2008)
- D. Kastanis**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras Title: *"Preparation and characterization of reinforcing nanostructures and naocomposites based on carbon nanotubes"*. (2008)
- G. Anagnostopoulos**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras Title: *"Study of the stress transfer mechanisms in fibrous composites materials"*. (2003)
- K. Gatos**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras Title: *"Phase Transition Toughening of Polypropylene"*. (2002)
- D. Bollas**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras Title: *"Stress Transmission in Smart Composites Incorporating SMA wires"*. (2002)
- C. Minogianni**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras Title: *"Structure Determination of Polypropylene Using Raman Spectroscopy"*. (2000)
- K. Stamou**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras Title: *"Study of Interfacial Strength and Stress Distribution in Full Composites"*. (2000)
- I. Mavrantza**, Interdepartmental Programme in Polymer Science and Technology, Dept. of Physics, Univ. of Patras Title: *"Detailed Atomistic Molecular Dynamics Simulation of the Orthorhombic Phase of Crystalline Polyethylene and its IR emperature dependence"*. (2000)
- A. Evans**, Queen Mary, University of London  
 Title: *"Structure and morphology of syndiotactic polystyrene injection moulded coupons"*. (1994)
- A.S. Paipetis**, Queen Mary, University of London  
 Title: *"A study on comp ression testing of carbon fibre reinforced composites"*. (1992)

## APPENDIX IV

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2021	<ul style="list-style-type: none"><li>• Advanced Materials Conference, June 16th, Online Event, “Functional Novel Composites” - <b>INVITED</b> virtual talk</li><li>• Graphene Industrial Forum and 2D materials, January 26<sup>th</sup> – 27<sup>th</sup>, 2021, “Graphene composites; current status and new perspectives towards commercial applications” – <b>INVITED/ KEYNOTE SPEAKER</b> online conference</li></ul>
2020	<ul style="list-style-type: none"><li>• Grapchina 2020, October 16<sup>th</sup> -18<sup>th</sup>, 2020 Shanghai, China, “Towards Macroscale Superlubricity Enabled by Strained Graphene” – <b>INVITED</b> virtual talk</li><li>• BeDimensional Seminar Series, November 18<sup>th</sup> 2020, Italy, “2D-based composites, state of art, challenges and future perspectives” – <b>INVITED</b> virtual talk</li></ul>
2019	<ul style="list-style-type: none"><li>• SIPS 2019, Vayenas International Symposium on Physical Chemistry and its Applications for Sustainable Development, 23-27 October 2019, Paphos, Cyprus, “In situ monitoring of graphene grown via chemical vapour deposition” - <b>PLENARY SPEAKER</b></li><li>• Grapchina 2019, Xi’an, China, October 19-21, "Graphene Composites with emphasis on current results and developments" – <b>INVITED/ PLENARY SPEAKER</b></li><li>• Graphene Week 2019, Helsinki, Finland, 23-27 September 2019, “Activities in the area of graphene composites by the Graphene Flagship”- (EU-Australia workshop) - <b>INVITED</b></li><li>• Graphene Brazil 2019, Rio de Janeiro September 9-10, “ Current developments in the area of graphene composites with emphasis on industrial applications” - <b>INVITED/KEYNOTE SPEAKER</b></li><li>• Graphene 2019, Rome, Italy June 25-28, “Activities related to research and applications in the area of graphene composites by the Graphene Flagship” – <b>INVITED</b></li><li>• CNPComp2019, London, 17-19 July, “Graphene Polymer Composites; Interface Effects and Mechanics in Tension and Compression” - <b>INVITED</b></li></ul>
2018	<ul style="list-style-type: none"><li>• Shechtman – Suresh Convocation &amp; Honorary Symposium, Aristotle University of Thessaloniki, Nov 30 – Dec 3, “Mechanics of monolayer graphene at suspended and embedded states” - <b>INVITED</b></li><li>• 12th Hellenic Polymer Society International Conference, Ioannina, Greece, September 30 - October 3, “Multi-functional graphene/polymer nanocomposites”- <b>INVITED</b></li><li>• Graphene Week 2018, San Sebastian Spain, September 10-14, “Development of multi-functional macro-scale CVD graphene/polymer nanolaminates”</li><li>• ECCM18, Athens, Greece, June 25-28, “Overview of Graphene Polymer Composites with emphasis on current developments” - <b>INVITED/ KEYNOTE SPEAKER</b></li><li>• Imagine Nano 2018, Bilbao, Spain, March 13-16, “Multi-functional CVD graphene/polymer nanolaminates” – <b>INVITED/ KEYNOTE SPEAKER</b></li><li>• Graphene Study Winter School 2018, Obergurgl, Austria, February 5-10, topic: “Structural Characterisation of Graphene-Based Materials”- <b>INVITED</b></li></ul>
2017	<ul style="list-style-type: none"><li>• 3rd EU-Korea Workshop on Graphene and Related 2D Materials, Jeju Korea 5-6 December 2017, “Mechanics of Graphene in Suspended, Supported and Embedded States”, <b>INVITED</b></li><li>• “Eurofillers Polymer Blends 2017”, 23-27 April (2017) Heraclion, Greece <b>INVITED PLENARY</b></li><li>• GRAPHENE 2017, 28-31 March, Barcelona, Spain, <b>INVITED</b></li></ul>
2016	<ul style="list-style-type: none"><li>• 11<sup>th</sup> Hellenic Polymer Society International Conference, 3-5 November 2016 Heraclion, Greece</li><li>• ICAutoC 2016- Lisboa 21-23 September 2016, <b>INVITED PLENARY</b></li></ul>

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	<ul style="list-style-type: none"> <li>• ECCM 17 2016, Munich 26-30 June, topic “Graphene-Graphene Based Composites”, “Compression behaviour of embedded graphenes of various thicknesses”</li> <li>• Graphene Week 2016, 13-17 June (2016) Warshaw, Poland</li> <li>• Graphene 2016- Genova 19-22 April 2016, <b>INVITED PLENARY</b></li> </ul>
2015	<ul style="list-style-type: none"> <li>• GraphITA 2015, Bologna 14-18 September</li> <li>• GrapheneWeek 2015, Manchester 22-26 June</li> <li>• Euronanoforum Latvia, Riga 10-12 June, Graphene Workshop “Graphene Mechanical Properties”- <b>INVITED</b></li> <li>• Graphene Flagship meeting, Bologna 23-24 April</li> <li>• 3rd Science &amp; Technology Forum, Demokritos NSCP, Athens, Greece “Mechanical deformation of graphene and graphene-based nanocomposites”</li> </ul>
2014	<ul style="list-style-type: none"> <li>• Horizon 2020, Athens &amp; Patras, Greece, December 8-9, <i>topic: “The Greek participation in the MNPB Committee for the Horizon 2020”</i></li> <li>• 10<sup>th</sup> Hellenic Polymer Society Conference, Patras, Greece, December 4-6, <i>topic: “Polymer/ graphene stress transfer mechanisms”</i></li> <li>• Israel-Greece Joint Meeting on Nanotechnology &amp; Bionanotechnology, Tel Aviv, Israel, October 19-22, <i>topic: “Nanotechnology Research in Greece”</i></li> <li>• Graphene Summer School 2014, Patras, Greece, July 14-18, <i>topic: “Recent Scientific Advances and Applications of Graphene”</i>- <b>INVITED</b></li> <li>• ECCM16, Workshop on Graphene-based Composites, Seville, Spain, June 22-26, <i>topic: “Composite Materials”</i> – <b>INVITED PLENARY</b></li> <li>• Graphene 2014, Toulouse, France, May 6-9, <i>topic: “Graphene Research in Greece”</i></li> <li>• Industrial Technologies 2014, Athens, Greece, April 9-11, <i>topic: “Smart Growth Through Research and Innovation”</i></li> <li>• GRAPHEsp2014, Lanzarote, Spain, February 18-24, <i>topic: “Interfaces in Graphene Polymer Composites”</i></li> </ul>
2013	<ul style="list-style-type: none"> <li>• TNT’13 Seville, Spain, <i>topic: “Mechanical Behaviour of Graphene-based Nanocomposites”</i>- <b>INVITED PLENARY</b></li> <li>• Onassis Lectures Series in Physics and Chemistry (<i>theme: Nanosciences and Nanotechnology</i>), July 15-19 2013, Heraklion, Greece, <i>topic: Graphene Research in Greece</i>, <b>INVITED PLENARY</b></li> </ul>
2012	<ul style="list-style-type: none"> <li>• Nanocarbon, Valencia, Spain <i>topic: “Mechanical Behaviour of Graphene-based Nanocomposites”</i>- <b>INVITED PLENARY</b></li> <li>• ECCM17, Venice, Italy, <i>topic: “Mechanical Behaviour of Graphene and Graphene Nanocomposites”</i>- <b>INVITED PLENARY</b></li> <li>• ECCM17, Venice, Italy, “Carbon nanotubes buckypapers of controlled porosity and their nanocomposites”</li> <li>• FET Flagship, Manchester, UK, <i>topic: “Mechanical Properties of Graphene”</i>- <b>INVITED PLENARY</b></li> <li>• GrapHEL, Mykonos Greece, “Single, bi- and tri-layer graphenes as strain sensors in graphene based nanocomposites</li> <li>• ECCM17 “Tensile mechanical properties of embedded dingle, bi- and tri-layer graphene flakes”</li> </ul>
2011	<ul style="list-style-type: none"> <li>• Graphita, L’Aquila, Italy, <i>topic: Deforming Single and Multilayer Graphenes</i>- <b>INVITED PLENARY</b></li> <li>• Brussels, DG-Research, NMP Workshop- Graphene 2020, <i>topic: Mechanical Properties of Graphene</i>- <b>INVITED PLENARY</b></li> <li>• Crete, IC4N, <i>topic: Mechanical Properties of Graphene in Tension and Compression</i>- <b>INVITED PLENARY</b></li> <li>• Cyprus, 27 Sol.State Phys.&amp; Mater. Sci.Conf., <i>topic: Mechanical Deformation of Graphenes and Graphene-based Nanocomposites</i>- <b>INVITED PLENARY</b></li> </ul>



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	<ul style="list-style-type: none"> <li>• Imagine Nano - Graphene Conference, Bilbao, Spain, "Bilayer graphene under uniaxial tension: A Raman study".</li> <li>• Imagine Nano - Graphene Conference, Bilbao, Spain "Deformation of graphene in tension and compression".</li> <li>• 25th International Winterschool , Kirchberg, Tirol, Austria, "Raman 2D-peak splitting in graphene: theory and experiment".</li> <li>• 12<sup>th</sup> International Conference on the Science and Application of Nanotubes "NT11", Cambridge, U.K., "Mono- and few-layer graphene sheets in binary solvent mixtures"</li> </ul>
2010	<ul style="list-style-type: none"> <li>• ECNP, Madrid, topic: Mechanical Behaviour of Monolayer Graphene and Nanocomposites- <b>INVITED PLENARY</b></li> <li>• Polymer Fibre, Edinburgh, UK, topic: Seeing carbon fibres through graphene</li> <li>• Micro&amp;Nano2010" Athens, Greece "Surface electronic properties of single-layer graphene films on Cu foil and SiO<sub>2</sub>/Si substrates"</li> <li>• Micro&amp;Nano2010" Athens, Greece, "Graphene monolayers under tension and compression"</li> <li>• (Biotargeting), Patras, Greece, "Mechanical deformation of graphene and graphene/polymer nanocomposites"</li> <li>• H-POL8 Hersonissos, Crete, Greece, "Nanostructured linear and star block copolymers and terpolymers based on polystyrene under tension and compression: Tailoring of molecular parameters to mechanical behavior"</li> <li>• (FSAS 2010), Hersonissos, Crete, Greece "Raman Study of Graphene Monolayer under Tensile and Compressive Loading" - <b>INVITED PLENARY</b></li> <li>• Annual World Conference on Carbon by the American Carbon Society, Clemson, South Carolina, USA: "Graphene Under Uniaxial Strain: A Raman Study"</li> <li>• Polymer Fibres 2010, Edinburgh, Scotland, UK "Seeing carbon fibres through graphene: a new perspective for the development of stress sensors"- <b>INVITED PLENARY</b></li> <li>• 6th International ECNP Conference on NANOSTRUCTURED POLYMERS and NANOCOMPOSITES, Madrid, Spain, "Mechanical Behaviour of Monolayer Graphene and Graphene-based Nanocomposites"- <b>INVITED PLENARY</b></li> <li>• 24th International Winterschool , Kirchberg, Tirol, Austria, "Compression Behavior of Single-layer Graphene".</li> <li>• 3<sup>rd</sup> International Symposium on Transparent Conductive Materials, Heraklion, Greece, "Surface electronic properties of graphene films: An XPS, UPS and EELS study"</li> <li>• 8th Hellenic Polymer Society Symposium, Heraklion, Greece, "Fabrication and characterization of polymer nanocomposites based on carbon nanotube films"</li> <li>• 4<sup>th</sup> International Conference on Micro-Nanoelectronics, Nanotechnologies &amp; MEMS, Athens, Greece, "Carbon nanotube/polymer composite films by Resin Film Infusion method"</li> </ul>
2009	<ul style="list-style-type: none"> <li>• Cnano'09, Santorini, "Mechanical deformation of graphene: A Raman study"</li> <li>• Cnano'09, Santorini, "Tensile properties of graphene oxide tapes"</li> <li>• Cnano'09, Santorini, "Controlled dispersion of carbon nanotubes by amphiphilic polyelectrolytes"</li> <li>• Cnano'09, Santorini, "Polymer nanocomposites based on carbon nanotube films" - <b>INVITED PLENARY</b></li> <li>• ICCM-17, Edinburgh, "Polymer nanocomposites based on CNT buckypapers"</li> <li>• 5th International ECNP Conference on NANOSTRUCTURED POLYMERS and NANOCOMPOSITES, Paris , France, "Synthesized linear and star block copolymers and terpolymers based on Polysterene under tension and compression: Tailoring of molecular parameters to mechanical behaviour"</li> </ul>

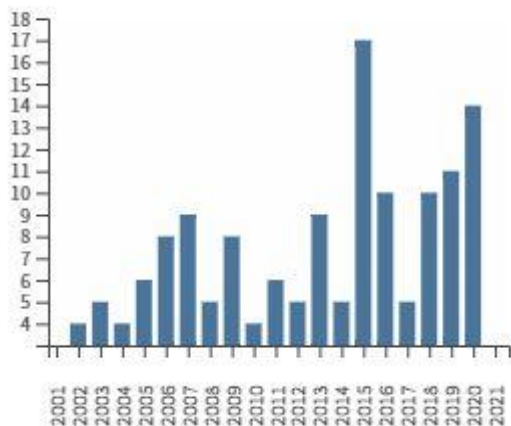
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	<ul style="list-style-type: none"> <li>• 5th International ECNP Conference on NANOSTRUCTURED POLYMERS and NANOCOMPOSITES, Paris , France, “Graphene nanocomposite under tension and compression: Investigation of the 2D Raman band” - <b>INVITED PLENARY</b></li> </ul>
2008	<ul style="list-style-type: none"> <li>• Nanofun, Alicante, Spain, topic: Nanocomposites- <b>INVITED PLENARY</b></li> <li>• Polymers Fibres-International, Manchester, “Stress sensing in smart composites”.</li> <li>• Nanofun-International, Alicante, Spain, “Block Copolymers”</li> </ul>
2007	<ul style="list-style-type: none"> <li>• NANOCNF-International, Corfu, Greece</li> <li>• EUROMAT-International, Nuremberg, Germany</li> </ul>
2006	<ul style="list-style-type: none"> <li>• Nanofun-International, San Sebastian, “Block Copolymers” - <b>INVITED PLENARY</b></li> <li>• ECCM 12-International, Biarritz, France</li> <li>• 16th European Conference on Fracture- International, Alexandroupolis, Greece</li> <li>• MCM-International, Riga, Latvia</li> </ul>
2005	<ul style="list-style-type: none"> <li>• Conf. on Micromechanics and Microstructure Evolution-International, Madrid, Spain</li> <li>• IIMM’05-International, Lyon, France, “Adaptive Composites”</li> </ul>
2004	<ul style="list-style-type: none"> <li>• ECCM 11-International, Rhodes, Greece</li> </ul>
2002	<ul style="list-style-type: none"> <li>• ECCM 10-International, Brugge, Belgium, “Interface -Smart composites”</li> </ul>
2001	<ul style="list-style-type: none"> <li>• SIC- Capri- Italy, topic: Damage monitoring with Raman spectroscopy</li> <li>• Structural Integrity of Composites- International, Capri- Italy, “-Damage monitoring with Raman spectroscopy”- <b>INVITED PLENARY</b></li> <li>• IPCM-2001/ International, Bordeaux-France, “Smart Composites –Interfaces – Fatigue”</li> </ul>
2000	<ul style="list-style-type: none"> <li>• ECCM9- International, Brighton (UK), “SMA composites –Fatigue -Angle Ply composites”</li> <li>• Composites Gordon Conf- International, Ventura, CA (USA), “SMA composites” - <b>INVITED PLENARY</b></li> </ul>
1999	<ul style="list-style-type: none"> <li>• ICCM-12- International, Paris, France, “Interface”</li> </ul>
1998	<ul style="list-style-type: none"> <li>• 5th Mechanics Conference, Ioannina, Greece, ‘Smart’ Measurements</li> <li>• ECCM8-International, Napoli, Italy, “Non-destructive testing of composites”</li> <li>• ICCI-7- International, Shonan, Japan, “Interfacial Micromechanics”</li> </ul>
1997	<ul style="list-style-type: none"> <li>• Gordon conference on composites- International, Ventura, CA (USA), “Micromechanics of Composites”- <b>INVITED PLENARY</b></li> <li>• Hellenic Federation of Polymers, Patras, Greece, “Syndiotactic Polystyrene”</li> <li>• IPCM’97- International, Eger, Hungary, “Fracture Characteristics of Composites”</li> </ul>
1996	<ul style="list-style-type: none"> <li>• European Polymer Federation’96- Conference, Crete, Greece, “Structure-Property Relations in Polymers”</li> <li>• 3rd European Conf. on Smart Structures and Materials- International</li> <li>• Lyon, France, “Smart sensing in composites”</li> <li>• SIDCOMP-96, Pitea, Sweden, “Micromechanics”</li> <li>• ICCI-6-, International, Israel, “Composite Interfaces”</li> <li>• Composite Gordon Conference-, International, Ventura, CA, US, “Stress measurement in Composites”- <b>INVITED PLENARY</b></li> </ul>
1995	<ul style="list-style-type: none"> <li>• COMP’95- International, Corfu, Greece, “Micromechanics”</li> <li>• IPCM’95-International, Eindhoven, “Composite Interfaces”- <b>INVITED PLENARY</b></li> <li>• Polymer Physics ’95, Leeds, UK, “Polymer Fibres”</li> <li>• 4th Mechanics Conf., Xanthi, Greece, “Stress transfer”- <b>INVITED PLENARY</b></li> <li>• D&amp;FC-International, Surrey, UK, “Multifibre composites/ Instrumentation”</li> </ul>
1994	<ul style="list-style-type: none"> <li>• Fiber Soc.- International, Atlanta, Georgia, “Fibres”</li> <li>• ASTM- International, Phoenix, USA, “Fracture and interfaces” - <b>INVITED PLENARY</b></li> <li>• MCM-II-International, Oxford, UK, “LRS on Composites”</li> </ul>
1993	<ul style="list-style-type: none"> <li>• ECCM6-International, Bordeaux, France, “Interfaces”</li> <li>• IPCM93-International, Cambridge, UK, “Interfaces”</li> </ul>

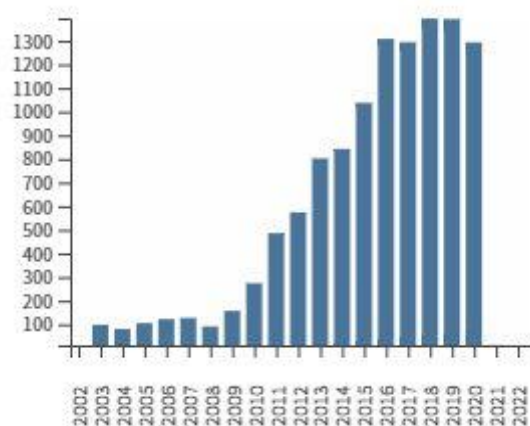
	<ul style="list-style-type: none"> <li>• The Polymer Conf.-International, Cambridge, UK, "Polymer composites"</li> <li>• Gordon Conf.-Intern., New Hamps.,USA, "Fibres"</li> <li>• D&amp;FC-International, Manchester, "Stress-conc.in composites- Interfaces"</li> </ul>
1992	<ul style="list-style-type: none"> <li>• PEG-National, Loughborough, "Strain Mapping"</li> <li>• Microphenomena in Composites-International, Herzlia, Israel, "Interfaces"</li> <li>• ICCI4-International, Cleveland, USA, "Interfaces"</li> <li>• ECCM5-International, Bordeaux, France, "Interfaces" - <b>INVITED PLENARY</b></li> <li>• FRC'92-International, Newcastle, UK, "Thermal Stresses"</li> </ul>
1991	<ul style="list-style-type: none"> <li>• IPCM91-International, Leuven, Belgium, "Interfaces"</li> <li>• Pol. Phys-National, Leeds, UK, "Pol. Fibres"</li> <li>• DFC91-International, Manchester, UK, "Strain mapping"</li> <li>• Gordon Conf.-Intern., New Hamps.,USA, "Fibres"</li> </ul>
1990	<ul style="list-style-type: none"> <li>• FRC90-National, Liverpool, UK, "Compression"</li> <li>• BCS90-National, Bath, UK, "Interfaces" - <b>INVITED PLENARY</b></li> <li>• ECCM4-International, Stuttgart, FRG, "Fibres/ Interfaces"</li> <li>• Comp90-International, Patras, Greece, "Raman on Comp."</li> <li>• Spec.Pol-International, Baltimore, USA, "Pol. Fibres"</li> <li>• ASC90-International, Lansing, USA, "Interfaces"</li> </ul>
1989	<ul style="list-style-type: none"> <li>• IPCM89-International, Sheffield, UK, "Interfaces"</li> <li>• Pol. Phys-National, Reading, UK, "Compression"</li> <li>• ECCM3-International, Bordeaux, France, "Composites"</li> </ul>
1988	<ul style="list-style-type: none"> <li>• Comp88-International, Patras, Greece, "NDT"</li> <li>• ICCI2-International, Cleveland, USA, "Interfaces"</li> </ul>
1987	<ul style="list-style-type: none"> <li>• ComSym-International, Zaragoza, Spain, "New Fibres"</li> <li>• Polym. Physics, Reading, UK, "Raman Spectr."</li> <li>• ICCM-7-International, London, UK, "NDT"</li> </ul>
1986	<ul style="list-style-type: none"> <li>• Comp86-International, Patras, Greece, "Kevlar Comp."</li> </ul>
1985	<ul style="list-style-type: none"> <li>• Churchill-National, Cambridge, UK, "Polydiacetylenes"</li> </ul>
1983	<ul style="list-style-type: none"> <li>• Pol. Phys-National, Reading, UK, "Fibres"</li> </ul>

#### APPENDIX V (web-of-science)- December 2020

PUBLICATIONS PER YEAR (LAST 19 YEARS)



CITATIONS PER YEAR (LAST 19 YEARS)





## **APPENDIX VI**

### **Selected Books or Book Chapters**

- B9. "Characterization of Graphene Flexible Materials and Displays", in "Advanced Nanocarbon Materials" series, Vol. 3, Chapter 7, pp. 207-222, ISBN: 978-3-527-34191-7, "Flexible Carbon-based Electronics" by George Anagnostopoulos, John Parthenios, Konstantinos Papagelis and Costas Galiotis. Publisher: Wiley-VCH Verlag GmbH & Co, 2018, doi:10.1002/9783527804894.ch7 (2018)
- B8. "Chemical and Optical Aspects of Supported Graphene" in "Graphene Science Handbook: Electrical and Optical Properties" by D.Tasis, C.Galiotis, and K.Papagelis, Taylor & Francis Co, New York, USA pp. 381-392 (2016).
- B7. "Stress/Strain Measurements in Fibers and Composites Using Raman Spectroscopy" in "Vibrational Spectroscopy of Biological and Polymeric Materials" by C. Galiotis, J. Parthenios, V.G. Gregoriou and M. Braiman, Taylor & Francis Co, New York, USA pp.35-98, (2005).
- B6. "Interfacial damage modelling of composites", by C. Galiotis and A. Paipetis, in "Multi-Scale Modelling of Composite Materials" by C. Soutis and P. Beaumont, Woodhead Publishing Ltd., pp. 33-64 (2005).
- B5. "The effect of interface on the fatigue performance of fibre composites" by C. Galiotis and C. Koimtzoglou, Ed. B. Harris, Woodhead Publishing Ltd. in "Fatigue in Composite Materials: A Review of the Science and Technology of the Fatigue Response of Fibre-Reinforced Plastics", pp. 147-172(2003).
- B4. "In Situ Assessment of the Micromechanics of Large Scale Bridging in Ceramic Composites", in "Recent Advances in Composite Materials", by K. G. Dassios, C. Galiotis, V. Kostopoulos and M. Steen, Kluwer Academic Publishers USA, pp. 71-79 (2003).
- B3. "Strain Redistribution in Composite Laminates resulting from off axis ply cracking" in "Recent Advances in Composite Materials" by D.G. Katerelos, J. Parthenios and C. Galiotis, Ed. E.E. Gdoutos and Z. Margioli, Riga, Kluwer Academic Publ., USA pp. 139-150 (2003).
- B2. "Micromechanics of Reinforcement using Laser Raman Spectroscopy" in "Microstructural Characterisation of Fibre-Reinforced Composites", by C. Galiotis, J. Summerscales, Woodhead Publishing Ltd., Cambridge, England, pp. 224-253 (1998).
- B1. "The Mechanical Properties of Polypyrrole Plates" in "Electronic Properties of Polymers and Related Compounds" by D. Bloor, R. D. Hercliff, C. Galiotis and R. J. Young, Springer Series in Solid-State Sciences edited by H. Kuzmany, A. Metring and R. S. Roth. 63 p. 179 (1985).

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### **Refereed reviews**

- R5 "Production and processing of graphene and related materials", by, Backes Claudia, Abdelkader Amr M., Alonso Concepcion, Andrieux-Ledier Amandine, Arenal Raul, Azpeitia Jon, Balakrishnan Nilanthy, Banszerus Luca, Barjon Julien, Bartali Ruben, Galiotis Costas ...More, 2D Materials, 7, issue: 2, Article Number: 022001, April 2020 (doi: 10.1088/2053-1583/ab1e0a)
- R4 "Graphene Mechanics: Current Status and Perspectives" by C. Galiotis, O. Frank, E. N. Koukaras and D. Sfyris, Annual Review of Chemical and Biomolecular Engineering, 6, 121-140, 2015 (doi. 10.1146/annurev-chembioeng-061114-123216)
- R3 "Carbon Nanotube-Polymer Composites: Chemistry, Processing, Mechanical and Electrical Properties" by Z. Spitalsky, D. Tasis, K. Papagelis, C. Galiotis, Progress in Polymer Science, 357-401: **35/3**, 2010.
- R2 "A Review of the Fundamentals and Applications of LRS Microprobe Strain Measurements" by L. Schadler and C. Galiotis, International Materials Reviews, 116-134: **40/3**, 1995.
- R1 "Laser Raman Spectroscopy; A New Stress/Strain Measurement Technique for the Remote and On-Line Non-Destructive Inspection of Fibre-Reinforced Polymer Composites" by C. Galiotis, Materials Technology, 203-209: **9/10**, 1993.

## APPENDIX VIII

### Refereed Journal Papers (Chronological Order)

- 220 “Determination of the elastic moduli of CVD graphene by probing graphene/polymer Bragg stacks”, by, Bohai Liu, Christos Pavlou, Zuyuan Wang, Yu Cang, Costas Galiotis and George Fytas, *2D Materials*, **8**, Issue 3, July 2021  
(doi: 10.1088/2053-1583)
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(doi: 10.1021/acsomega.1c00016)
- 218 “In situ kinetic studies of CVD graphene growth by reflection spectroscopy”, by, Christos Tsakonas, Anastasios C. Manikas, Mie Andersen, Marinos Dimitropoulos, Karsten Reuter and Costas Galiotis, *Chemical Engineering Journal*, March 2021  
(doi: 10.1016/j.cej.2021.129434)
- 217 “Impact of prolonged environmental exposure on stress transfer efficiency in poly(p-phenylene terephthalamide)/epoxy composites”, by, George Anagnostopoulos, Emmanuel Koukaras, John Parthenios and Costas Galiotis, *Polymer Composites*, **42**, Issue: 4, 1901-1911, April 2021  
(doi: 10.1002/pc.25945)
- 216 “Multifunctional Cement Mortars Enhanced with Graphene Nanoplatelets and Carbon Nanotubes”, by, Panagiota T. Dalla , Ilias K. Tragazikis , George Trakakis , Costas Galiotis , Konstantinos G. Dassios, and Theodore E. Matikas, *Sensors* 2021, **21**, Issue: 3, 993, February 2021  
(doi.org/10.3390/s21030933)
- 215 “Growth and in situ characterization of 2D materials by chemical vapour deposition on liquid metal catalysts: a review”, by, Christos Tsakonas, Marinos Dimitropoulos, Anastasios C. Manikas and Costas Galiotis, *Nanoscale*, **13**, Issue: 6, 3346-3373, February 2021  
(doi: 10.1039/d0nr07330j)
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(doi: 10.1021/acsaelm.0c00612)
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(doi: 10.1088/2053-1583/ab9ea5)
- 212 “Mechanical, Electrical, and Thermal Properties of Carbon Nanotube Buckypapers/Epoxy Nanocomposites Produced by Oxidized and Epoxidized Nanotubes”, by, George Trakakis, Georgia Tomara, Vitaliy Datsyuk, Labrini Sygellou, Asterios Bakolas, Dimitrios Tasis, John Parthenios , Christoforos Krontiras, Stavroula Georga, Costas Galiotis and Kostas Papagelis, *Materials*, **13**, Issue:19, Article Number: 4308, October 2020  
(doi: 10.3390/ma13194308)

- 211 *“Hierarchy of nanoscale graphene wrinkles on compliant substrate: Theory and experiment”*, by, Charalampos Androulidakis, Emmanuel N. Koukaras, Krishna Sampathkumar, Jaroslava Rahova, Costas Galiotis and Otakar Frank, *Extreme Mechanics Letters*, **40**, Article Number: art. 100948, August 2020  
(doi: 10.1016/j.eml.2020.100948)
- 210 *“Thermomechanical Response of Supported Hexagonal Boron Nitride Sheets of Various Thicknesses”*, by, Lambros Seremetis, Emmanuel Koukaras, Sotiria Alexandri, Antonis Michail, George Kalosakas, John Parthenios, Costas Galiotis, Sotirios Tsirkas, Spyridon Grammatikopoulos and Konstantinos Papagelis, *Journal of Physical Chemistry*, **124**, Issue: 22, 12134-12143, Jun 4 2020  
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(doi: 10.1016/j.micromeso.2020.110464)
- 208 *“2020 Roadmap on Carbon Materials for Energy Storage and Conversion”*, by, Wu Mingguang, Liao Jiaqin, Yu Lingxiao, Lv Ruitao, Li Peng, Sun Wenping, Tan Rou, Duan Xiaochuan, Zhang Lei, Li Fang, Galiotis Costas, ...More, *Chemistry—an-Asian Journal*, **15**, Issue: 7, 995-1013, April 2020  
(doi: 10.1002/asia.201901802)
- 207 *“Thermal properties enhancement of epoxy resins by incorporating polybenzimidazole nanofibers filled with graphene and carbon nanotubes as reinforcing material”*, by, Datsyuk V, Trotsenko S., Trakakis G., Boden A., Vyzas-Asimakopoulos K., Parthenios J., Galiotis C., Reich S. and Papagelis K., *Polymer testing*, **82**, Article Number: 106317, February 2020  
(doi: 10.1016/j.polymertesting.2019.106317)
- 206 *“Tunable macroscale structural superlubricity in two-layer graphene via strain engineering”*, by, Androulidakis, Charalampos, Koukaras Emmanuel N., Paterakis George, Trakakis George and Galiotis Costas, *Nature Communications*, **11**, Issue: 1, Article Number: 1595, March 2020  
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- 205 *“Improving the damping behavior of fiber-reinforced polymer composites with embedded superelastic shape memory alloys (SMA)”*, by, C V Katsiropoulos, P Pappas, N Koutroumanis, A Kokkinos and C Galiotis, *Smart Materials and Structures*, **29**, Article Number 2, January 2020  
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- 203 *“Graphene and related materials in hierarchical fiber composites : Production techniques and key industrial benefits”*, by, Valorosi Filippo, De Meo Enea, Blanco-Varela Tamara, Martorana Brunetto, Veca Antonino, Pugno Nicola, Kinloch Ian, Anagnostopoulos George, Galiotis Costas, Bertocchi Francesco, ...More, *Composites Science and Technology*, **185**, Article Number: 107848, January 2020  
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- 202 *“Development of a reactor for the in situ monitoring of 2D materials growth on liquid metal catalysts, using synchrotron x-ray scattering, Raman spectroscopy, and optical microscopy”*, by, Saedi Mehdi, de Voogd J.

M.,Sjardin A., Manikas A., Galiotis C., Jankowski M., Renaud G., La Porta F., Konovalov O., van Baarle G. J. C. and Groot, I. M. N., *Review of scientific instruments*, **91**, Issue:1, Article Number: 013907, January 2020 (doi: 10.1063/1.5110656)

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- 194 “Sculpturing graphene wrinkle patterns into compliant substrates” by, Krishna Sampathkumar , Charalampos Androulidakis, Emmanuel Koukaras, Jaroslava Rahova, Karolina Drogowska, Martin Kalbac, Aliaksei Vetushka, Antonin Fejfar, Costas Galiotis and Otakar Frank, *Carbon*, **146**, 772-778, 2019 (doi.org/10.1016/j.carbon.2019.02.041)
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## ***APPENDIX IX Refereed Books of Proceedings (Chronological order)***

### ***Refereed Books of Proceedings (Chronological order)***

- 70 *“Record Terahertz Shielding Behavior of Lightweight CVD Graphene Nanolaminates”*, Christos Pavlou, Maria Giovanna Pastore Carbone, Anastasios C. Manikas, George Trakakis, Can Koral, Gianpaolo Papari, Antonello Andreone and Costas Galiotis, ICEAF 6th International Virtual Conference of Engineering Against Failure, 23 -25 June, 2021
- 69 *“Enhancement of damping response in polymers and composites by the addition of graphene nanoplatelets”*, P.Pappas, Ch.V.Katsiropoulos, N.Koutroumanis, A. Kokkinos and C.Galiotis, ICEAF 6th International Virtual Conference of Engineering Against Failure, 23 -25 June, 2021
- 68 *“Production and applications of superlubric graphene coatings”*, G. Paterakis, Ch. Androulidakis, E.N. Koukaras, G. Trakakis, G. Anagnostopoulos and C. Galiotis, ICEAF 6<sup>th</sup> International Virtual Conference of Engineering Against Failure, 23 -25 June, 2021
- 67 *“Micromechanical characterization of oxidized carbon nanotube and graphene oxide papers”*, Christos Kostaras, Christos Pavlou, George Paterakis, Nikolaos Koutroumanis, George Trakakis and Costas Galiotis, Graphene Industrial Forum and 2D materials, January 26th – 27th , 2021 (e poster)
- 66 *“In situ monitoring of graphene grown via chemical vapour deposition”*, C. G. Tsakonas, A. C. Manikas and Costas Galiotis, SIPS 2019, Vayenas International Symposium on Physical Chemistry and its Applications for Sustainable Development, Paphos, Cyprus , 23-27 October 2019
- 65 *“Mechanically strong, electrically conductive and light-weight CVD graphene nanolaminates for highly efficient EMI shielding”*, Maria Giovanna Pastore Carbone, Christos Pavlou, Anastasios C. Manikas, George Trakakis, Can Koral, Gianpaolo Papari, Antonello Andreone and Costas Galiotis, PolyChar27, Naples (Italy), 14-17 October 2019
- 64 *“Strong and lightweight multifunctional macroscale CVD\_graphene/PMMA nanolaminates”*, Christos Pavlou, Maria Giovanna Pastore Carbone, Anastasios Manikas, George Trakakis, Can Koral, George Paterakis, Antonello Andreone and Costas Galiotis, Graphene Week 2019, Helsinki, Finland, 23-27 September 2019, (poster presentation)
- 63 *“Assesment of the Damping behavior of graphene enhanced composite materials for high performance applications”*, Christos Katsiropoulos, Panagiotis Pappas, Nikolaos Koutroumanis and Costas Galiotis, Graphene Week 2019, Helsinki, Finland, 23-27 September 2019
- 62 *“Graphene oxide corrosion protection on aluminum foils for cathode electrodes on lithium ion batteries”*, G. Paterakis, G. Anagnostopoulos, L. Sygellou and C. Galiotis, Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece, 11-14 September 2019, (poster presentation)
- 61 *“Roll-to-roll graphene transfer as an effective tool for the protection of artworks”*, G. Gorgolis, M. Kotsidi and C. Galiotis, XXXIV Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece, 11-14 September 2019
- 60 *“Wrinkling formation in simply-supported graphenes upon mechanical deformation”*, Maria Giovanna Pastore Carbone, Ioanna Souli, Anastasios C. Manikas, Emmanuel Koukaras, Charalampos Androulidakis, Costas Galiotis, Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece, 11-14 September 2019, (poster presentation)

- 59 "Measuring the interlayer shear stress of incommensurately stacked bilayer graphene", Ch. Androulidakis, E.N. Koukaras, G. Paterakis, G. Trakakis and C. Galiotis, Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece, 11-14 September 2019, (poster presentation)
- 58 "THz EMI Shielding in Graphene/PMMA Multilayers", Can Koral, Gianpaolo Papari, Maria Giovanna Pastore Carbone, Christos Pavlou, Anastasios Manikas, George Trakakis, Costas Galiotis, and Antonello Andreone, IRMMW-THz, Paris, 01-06 September 2019, (poster presentation)
- 57 "Damping Response of Graphene Enhanced Composite Materials for High Performance Applications – A feasibility Study", Christos V. Katsiropoulos, Panagiotis Nektarios Pappas, Nikos Koutroumanis and Costas Galiotis, CNPComp2019, London, UK, 17-19 July 2019, (poster presentation)
- 56 "Lateral buckling and mosaic formation in simply supported monolayer graphene", Anastasios C. Manikas, Maria Giovanna Pastore Carbone, Ioanna Souli, Emmanuel Koukaras, Charalampos Androulidakis and Costas Galiotis, Graphene 2019 Rome, Italy, 25-28 June 2019, (poster presentation)
- 55 "Mechanical characterization at the nanoscale: exploring the mechanics of 2d materials and their heterostructures", Marinos Dimitropoulos, Maria Giovanna Pastore Carbone, Anastasios C. Manikas and Costas Galiotis, Graphene 2019 Rome, Italy, 25-28 June 2019, (poster presentation)
- 54 "Reflectance spectroscopy a useful tool for in-situ monitoring of CVD Graphene", Christos G. Tsakonas, Anastasios C. Manikas, George Trakakis and Costas Galiotis, Graphene 2019 Rome, Italy, 25-28 June 2019, (poster presentation)
- 53 "Strong and light -weight CVD graphene nanolaminates for highly efficient EMI shielding", Christos Pavlou, Maria Giovanna Pastore Carbone, George Trakakis, Can Koral, Antonello Andreone, and Costas Galiotis, Graphene 2019 Rome, Italy, 25-28 June 2019
- 52 "Production and characterization of macro-scale CVD graphene/PMMA nanolaminates", Christos Pavlou, Maria Giovanna Pastore Carbone, Anastasios C. Manikas, George Trakakis and Costas Galiotis, EPF 2019 Crete, Greece 9-14<sup>th</sup> June 2019
- 51 "Overview of Graphene Polymer Composites with emphasis on current developments", Costas Galiotis, ECCM18, Athens, Greece 24-28<sup>th</sup> June 2018
- 50 "Multi-functional CVD graphene/polymer nanolaminates", Costas Galiotis, Christos Pavlou, Maria Giovanna Pastore Carbone, Anastasios Manikas, George Trakakis and Amaia Zurutuza, Imagine Nano 2018, Bilbao, Spain, March 13-16 2018
- 49 "Multi-functional graphene/polymer nanocomposites", Costas Galiotis, 12th Hellenic Polymer Society International Conference, Ioannina, Greece, November 2018
- 48 "Development of multi-functional macro-scale CVD graphene/polymer nanolaminates", Christos Pavlou, Maria Giovanna Pastore Carbone, Anastasios C. Manikas, George Trakakis and Costas Galiotis, Graphene Week 2018, San Sebastian 10-14 September 2018
- 47 "Out-of-plane phenomena and fracture of graphene/polymer systems", Maria Giovanna Pastore Carbone, Anastasios Manikas, Ioanna Souli and Costas Galiotis, Graphene Week 2018, San Sebastian 10-14 September 2018
- 46 "CVD graphene treatment with metal-chlorides for transparent heating devices", G. Paterakis, G. Anagnostopoulos and C. Galiotis, Graphene Week 2018, San Sebastian 10-14 September 2018, (poster presentation)
- 45 "Exploiting residual mechanical strain in CVD grown two-dimensional MoS<sub>2</sub> crystals", Antonios Michail, Dimitris Anastopoulos, Labrini Sygellou, John Parthenios, Costas Galiotis, Meganne Christian, Luca Ortolani, Vittorio Morandi, Konstantinos Papagelis, Graphene 2018 Dresden, Germany, 26-29<sup>th</sup> June 2018
- 44 "Interface investigation of cfrp and cfr hybrid polymer composites", Nikos Koutroumanis, Anastasios C. Manikas, Panagiotis Nektarios Pappas and Costas Galiotis, ECCM18 - 18<sup>th</sup> European Conference on Composite Materials, Athens, Greece, 24-28<sup>th</sup> June 2018, (poster presentation)
- 43 "Development of graphene-based elastomer composites for improved mechanical and electrical properties", M.G. Pastore Carbone, K.D. Papadimitriou, J. Gigante, A.C. Manikas, G. Trakakis, G.N. Tomara, S.N. Georga, C.A. Krontiras, C. Galiotis, ECCM18 - 18th European Conference on Composite Materials, Athens, Greece, 24-28th June 2018, (poster presentation)
- 42 "Production and mechanical deformation of two-dimensional MoS<sub>2</sub> and WS<sub>2</sub> crystals", A. Michail, D. Anastopoulos, S. Grammatikopoulos, C. Galiotis, J. Parthenios and K. Papagelis, 3rd WORKSHOP of GRADUATES and POSTDOCS in CHEMICAL ENGINEERING SCIENCES, Patras, October 4 2017

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- 39 “Development of graphene/elastomer nanocomposites”, K. D Papadimitriou, M.G. Pastore Carbone, G. Trakakis, A.C. Manikas, G.N. Tomara, S.N. Georga, C.A. Krontiras, C. Galiotis, 11th Panhellenic Scientific Conference of Chemical Engineering, Thessaloniki, 25-27 May 2017, (poster presentation)
- 38 “Synthesis and Spectroscopic study of MoS<sub>2</sub> crystals”, A. Michail, D. Anestopoulos, N. Delikoukos, J. Parthenios, C. Galiotis and K. Papagelis, 11th Chemical Engineering Conference, 25-27 May (2017), Thessaloniki, Greece
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- 36 “Graphitic materials; the ideal multifunctional polymer fillers”, C. Galiotis, Eurofillers Polymer Blends 2017, 23-27 April (2017), Heraclion, Crete, Greece
- 35 “Controlled CVD synthesis of single-and few-layered MoS<sub>2</sub> crystals”, A. Michail, D. Anestopoulos, N. Delikoukos, J. Parthenios, C. Galiotis, K. Papagelis, GRAPHENE 2017, 28-31 March (2017), Barcelona, Spain, (poster presentation)
- 34 “Resolving nanometer-scale variations of doping and strain in single layer MoS<sub>2</sub>”, A. Michail, D. Anestopoulos, N. Delikoukos, J.Parthenios, C. Galiotis, K. Papagelis, GRAPHENE 2017, 28-31March (2017), Barcelona, Spain
- 33 “Towards a better understanding of the mechanical behaviour of graphene and 2D materials”, C. Galiotis, GRAPHENE 2017, 28-31March (2017), Barcelona, Spain
- 32 “Synthesis and Characterization of 3-arm star PMMAs Bearing Pyrene Units as Dispersing Agents of Graphene”, K.D. Papadimitriou, S. Gkermppoura, I. Polyzos, C. Galiotis, C. Tsitsilianis, 11th Hellenic Polymer Society International Conference, Heraklion Crete, November 3-5, 2016, (poster presentation)
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- 29 “High pressure Raman study of Kevlar-29 aramide fibers”, F. Sebro, J. Arvanitidis, D. Christofilos, S. Ves, J. Parthenios, G. Anagnostopoulos, Galiotis, K. Papagelis, 32nd Panhellenic Conference on Solid-State Physics and Materials Science, September 18-21 (2016), Ioannina, Greece, (poster presentation)
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- 23 "A graphene touch panel display: The mechanical effect", J. Parthenios, G. Anagnostopoulos, P. Pappas, Z. Li, I. A. Kinloch, R. J. Young, K. S. Novoselov, C. Y. Lu, N. Pugno, C. Galiotis and K. Papagelis, GRAPHENE 2016, 19-22 April (2016), Genova, Italy
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- 21 "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 International Conference on Nanocon, Brno, Czech Republic, 21-23 September, (2011).
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- 19 "Raman Spectroscopy Investigation of Stiffness Change and Residual Strains due to Matrix Cracking" by P. Lundmark, D. G. Katerelos, J. Varna and C. Galiotis, Mechanics of Composite Materials MCM-2006 XIV International Conference, Riga, Latvia, 29 May – 2 June, (2006).
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- 17 "An experimental and theoretical study of the stress transfer mechanism in fibrous composites" by Anagnostopoulos G., Parthenios J. and Galiotis C., Proceedings of extended abstracts of International Conference on Interfaces & Interphases in Multicomponent Materials, Centre Culturel Villeurbanne - Lyon, France, pages 179-180, September 12-14, (2005).
- 16 "A new methodology for measuring stress in polymer fibres through interface interactions at elevated temperatures", by Anagnostopoulos G., Parthenios J. and Galiotis C., Proceedings of extended abstracts International Conference on Interfaces & Interphases in Multicomponent Materials, Centre Culturel Villeurbanne - Lyon, France, pages 185-186, September 12-14, (2005).
- 15 "Smart Composites Incorporating Shape Memory Alloy Wires: Stress Transmission Through the Wire/ Polymer Interface", by D. Bolas, J. Parthenios and C. Galiotis, Proceedings of International Conference on Interfaces & Interphases in Multicomponent Materials, Centre Culturel Villeurbanne - Lyon, France p. 207 September 12-14, (2005).
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- 13 "Design and construction of a vehicular bridge made of glass/polyester pultruded box beams" by Kostopoulos, V, Markopoulos, YP, Vlachos, DE, Katerelos, D., Galiotis, C. Tsiknias, T, Zacharopoulos, D, Karalekas, D, Chronis, P, Kalomellos, D., 9th International PVC Conference, Brighton, U.K., MANEY PUBLISHING, ISBN 1465-8011 April 26-28 (2005).
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- 04 "Raman Optomechanical Studies on Fibres, Composites and Fibre-Matrix Interfaces" by C. Galiotis in "Phase Interactions in Composite Materials", edited by S. Paipetis and G. Papanicolaou, Omega Scientific, Wallingford, UK 173-184 (1992).
- 03 "A New Technique for Assessing the Compressive Behaviour of Single Filaments" by C. Galiotis, N. Melanitis and H. Jahankhani, Proceedings of the IMechE, FRC'90, Fibre Reinforced Composites, University of Liverpool, 81-87, 27-29 March (1990).
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## **APPENDIX X**

### **Non-Refereed Proceedings (Chronological Order)**

- 102 "Single, bi- and tri-layer graphenes as strain sensors in graphene based nanocomposites" G. Tsoukleri, O. Frank, K. Papagelis, J. Parthenios, K.S. Novoselov and C. Galiotis, GraphEL, European Conference/Workshop on the Synthesis, Characterization and Applications of Graphene, Mykonos Greece (27-30/09/2012)
- 101 "Tensile mechanical properties of embedded dingle, bi- and tri-layer graphene flakes", G. Tsoukleri, O. Frank, N. Delikoukos, K. Papagelis, J. Parthenios, K.S. Novoselov, C. Galiotis, ECCM European Conference on Composite Materials, ECCM-15, Venice Italy (24-28/06/2012)
- 100 "Deforming single- and multi- graphenes in tension and compression". C. Galiotis, G. Tsoukleri, O. Frank, K. Papagelis, J. Parthenios and K. S. Novoselov, GraphITA, Gran Sasso National Laboratory, Assergi-L'Aquila Italy (15-18/05/2011)
- 99 "Bilayer graphene under uniaxial tension: A Raman study". Otakar Frank, Georgia Tsoukleri, John Parthenios, Kostas Papagelis, Ibtisam Riaz, Rashid Jalil, Kostya S. Novoselov, Ladislav Kavan and Costas Galiotis, Imagine Nano - Graphene Conference, Bilbao, Spain (11-14/04/2011)
- 98 "Deformation of graphene in tension and compression". C. Galiotis, G. Tsoukleri, O. Frank, K. Papagelis, J. Parthenios and K. S. Novoselov, Imagine Nano - Graphene Conference, Bilbao, Spain (11-14/04/2011)
- 97 "Raman 2D-peak splitting in graphene: theory and experiment". Otakar Frank, Marcel Mohr, Janina Maultzsch, Christian Thomsen, Ibtisam Riaz, Rashid Jalil, Kostya S. Novoselov, Georgia Tsoukleri, John Parthenios, Konstantinos, Papagelis, Ladislav Kavan, Costas Galiotis, 25th International Winterschool, Kirchberg, Tirol, Austria (26-05/03/2011)
- 96 "Surface electronic properties of single-layer graphene films on Cu foil and SiO<sub>2</sub>/Si substrates" A. Siokou, F. Ravani, S. Karakalos, O. Frank, M. Kalbac, G. Tsoukleri & C. Galiotis, 4<sup>th</sup> International Conference

- "Micro&Nano2010" on Micro- Nanoelectronics, Nanotechnologies and MEMs NCSR Demokritos, Athens, Greece (12-15/12/2010)
- 95 "Graphene monolayers under tension and compression" by G. Tsoukleri, O.Frank, K. Papagelis, J. Parthenios, I. Riaz, R. Jalil, K. S. Novoselov and C. Galiotis, 4<sup>th</sup>International Conference "Micro&Nano2010" on Micro- Nanoelectronics, Nanotechnologies and MEMs NCSR Demokritos, Athens, Greece (12-15/12/2010)
- 94 "Mechanical deformation of graphene and graphene/ polymer nanocomposites" Galiotis C., Frank O., Tsoukleri G., Parthenios J., Papagelis K., Novoselov K.S, Geim A., Biomedical and Biotechnological Applications Research Network (Biotargeting), Patras, Greece (05/11/2010)
- 93 "Nanostructured linear and star block copolymers and terpolymers based on polystyrene under tension and compression: Tailoring of molecular parameters to mechanical behavior", G. Tsoukleri, G. Linardatos, J. Parthenios, O. Montiselli, S. Russo, C. Galiotis and C.Tsitsilianis. H-POL8: 8th Hellenic Polymer Society Symposium Hersonissos, Crete, Greece (24-29/10/2011)
- 92 "Raman Study of Graphene Monolayer under Tensile and Compressive Loading", Papagelis K., Frank O., Tsoukleri G., Parthenios J., Riaz I., Jalil R., Novoselov K.S, Galiotis C., Fullerene Silver Anniversary Symposium (FSAS 2010), Hersonissos, Crete, Greece (04-10/10/2010)
- 91 "A Raman Study", Frank O., Tsoukleri G., Parthenios J., Papagelis K., Riaz I., Jalil R., Novoselov K.S, Galiotis C., Kavan L., Mohr M., Maultzsch J., Thomsen C., Annual World Conference on Carbon by the American Carbon Society, Clemson, South Carolina, USA: "Graphene Under Uniaxial Strain (11-16/07/2010):
- 90 "Seeing carbon fibres through graphene: a new perspective for the development of stress sensors", Galiotis C., Frank O., Tsoukleri G., Papagelis K., Parthenios J., Polymer Fibres 2010, Edinburgh, Scotland, UK (07-09/07/2010)
- 89 "Mechanical Behaviour of Monolayer Graphene and Graphene-based Nanocomposites". Galiotis C., Frank O., Tsoukleri G., Papagelis K., Parthenios J., 6th International ECNP Conference on NANOSTRUCTURED POLYMERS and NANOCOMPOSITES, Madrid, Spain (28-30/04/2010)
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- 85 "Polymer nanocomposites based on CNT buckypapers", Galiotis, C., Spitalsky, Z., Tsoukleri, G., Trakakis, G., Tasis, D., Krontiras, C., Parthenios, J., Papagelis, K., 17th International Conferences on Composite Materials (ICCM-17,Edinburgh, 27-31/07/2009)
- 84 "Synthesized linear and star block copolymers and terpolymers based on Polysterene under tension and compression: Tailoring of molecular parameters to mechanical behaviour". G. Tsoukleri, G.Linardatos, J.Parthenios, C. Galiotis, C. Tsitsilianis, 5th International ECNP Conference on NANOSTRUCTURED POLYMERS and NANOCOMPOSITES, Paris , France (15- 17/04/09
- 83 "Graphene nanocomposite under tension and compression: Investigation of the 2D Raman band", G. Tsoukleri, J.Parthenios, K.Papagelis, R. Jalil, A. K. Geim, K. S. Novoselov and C. Galiotis, 5th International ECNP Conference on NANOSTRUCTURED POLYMERS and NANOCOMPOSITES, Paris , France (15- 17/04/09
- 82 "Mechanical deformation of graphene: A Raman study" by Georgia Tsoukleri, John Parthenios, Konstantinos Papagelis, Otakar Frank, S. Zehar, Rashid Jalil, Andrea C. Ferrari, Andre K. Geim, Kostya S. Novoselov and Costas Galiotis, International Conference on Carbon Nanostructured Materials – Cnano'09, Santorini, Greece, October 4-8, 2009.
- 81 "*Tensile properties of graphene oxide tapes*" by Otakar Frank, Dimitrios Tasis, Georgia Tsoukleri, Konstantinos Papagelis, John Parthenios and Costas Galiotis, International Conference on Carbon Nanostructured Materials – Cnano'09, Santorini, Greece, October 4-8, 2009.

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- 67 *"Non-Destructive Study of Thermal Dissipation in Shape Memory Alloy Hybrid Composite Systems"* by D. Bolas, J. Parthenios, and C. Galiotis, ECCM11, Rhodes Greece 2004, May 31- June 3, ISBN: 960-7839-03-X.
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- 61 *"A Motorway Composite Bridge made of Glass / Polyester pultruded Elements"* by V. Kostopoulos, Y. P. Markopoulos, D. E. Vlachos, D. G. Katerelos, C. Galiotis, T. Tsiknias, D. Zacharopoulos, Ch. Kontomitros, D. Karalekas, P. Chronis and D. Kalomallos, Proceedings of ECCM 10, Session: Applications, Brugge, Belgium, June 3 – 7, 2002.
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