CURRICULUM VITAE

Constantine (Costas) Galiotis

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

CONTACT DETAILS:

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Contents

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 (2014-2019). 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 (2016-2023) 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 ISPRA, 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 20202), EPSRC (UK), DRA (UK), ROYAL SOCIETY (UK), ONR (USA), GSRT (GR) etc. APPENDIX I

CURRENT RESEARCH GROUP

Post-Doctoral (5):

Maria-Giovanna Pastore Carbone, George Gorgolis, Anastasios Manikas, George Paterakis, Christos Tsakonas

PhD (4):

Christos Katsiropoulos, Elli Bellou, Stella Peloni, Stefanos Matsalis

PhD SUPERVISION

31 awarded PhD and 4 in progress APPENDIX II

MSC SUPERVISION

29 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 and 2D Materials*"** (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".**

MAGAZINES ARTICLES

- *"Monitoring the impact of atmospheric conditions on art/ Innovative sensors*", Seventeenth article written in collaboration with AMA (Art Media Agency), 29 March 2024

PRIZES/ HONOURS:

- "Panagiotis Kanellopoulos" Excellent Publication Award – University of Patras (January 2023) for the scientific publication "Effective EMI shielding behaviour of thin graphene/PMMA nanolaminates in the THz range" (P24)
- "International Graphene Innovation Award for the work on the protection of art works with the use of 2D Materials", International Graphene Awards (IGA), the annual award for 2023, November 2023, Shangai, China
- Poster award, "*Conductive railways on graphene wrinkles"*, NANOscientific Forum Europe Scanning Probe Microscopy (SPM), 13-15 September 2023, ICFO, Barcelona, Spain
- Elected member of the Academy of Europe, (Academia Europaea) (2021)
- 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)

2024, Graphene 2024, June 25-28. Madrid, Spain, "Green and Cost-Effective Graphene Based Sensors", INVITED

2023, Patras IQ 2023, November 25-27, Patras, Greece, "Two-dimensional materials for the Conservation of our Cultural Heritage", INVITED LECTURE

2023, Grapchina 2023, Shangai, China, November 10-12 2023, “Synthesis of 2DM via CVD: current technologies and future trends”, INVITED/ KEYNOTE SPEAKER

2023, ITS THIN Workshop, 20-22 September 2023, Corfu, Greece, “Review of research on Graphene by CNM lab at FORTH over the last 10 years”, Organiser

2023, NanoBio 2023, Heraklion Crete, Greece, September 11-15 2023, “Recent advances on graphene grown on liquid metal catalysts: synthesis, in situ monitoring and direct separation”, INVITED

2023, Graphene2023, Manchester (UK), 27-30 June 2023, “Graphene-Based Composites: From Nano to Macro Applications”, INVITED LECTURE

2023, JEC Paris, Paris Nord Villepinte France, 25th – 27th April 2023, “Graphene: Revolutionising Composites Applications”, INVITED LECTURE

2023, Graphene CDT (Centre for Doctoral Training) , University of Cambridge, February 10 2023, “Graphene grown on solid and liquid catalysts by chemical vapour deposition; Real time monitoring and kinetic studies”, INVITED LECTURE

2022, EGF 2022, Athens, Greece, 26th – 28th October 2022, “In situ monitoring of graphene growth on solid and liquid Cu substrates”, INVITED/ KEYNOTE SPEAKER

2021, 13th Hellenic Polymer Society International Conference, 12th – 16th December, Online Event, "New Developments in the Use of Graphene as a Multi-Functional Additive to Polymers and Composites"- INVITED Lecture

2021, Advanced Materials Conference, June 16th, 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, 12th 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, 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"*
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, 3rd Science & Technology Forum, Demokritos NSCP, 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, 10th 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"*

Full list please see APPENDIX IV

ORGANISATION OF INTERNATIONAL CONFERENCES/ WORKSHOPS AND SUMMER SCHOOLS

2023, **Organiser** of the **1st Workshop** of the **ITS THIN project**, (Corfu, Greece) - 30 participants
2022, **Organiser** of the **3rd Annual Meeting** of the **APACHE project** (Athens-Greece) - 60 participants
2019, **Chairman and Organiser** of the **Graphene Flagship WP14 Composites Workshop** (Athens Greece) – 40 participants
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

472 publications in total: 9 chapters in books, 5 refereed reviews, 4 patents, 256 refereed journal papers, 96 refereed books of proceedings, 102 in non-refereed conference proceedings, (see bibliographic diagram from Web of Science).

See APPENDIX V

CITATIONS(WEB_of_SCIENCE)

~17.641 citations

H-index: 51

See APPENDIX V

CITATIONS(Google Scholar)

~25.248 citations

H-index - 63

GRANTED PATENTS and Applications

"Art protection with the use of Graphene Materials" Date of filing: 18-12-2019. To: EPO. Status: Pending. Currently passed PCT examination and entered the national phase.

"Art protection with the use of Graphene Materials". From: United States Patent and Trademark Office. No: US 11,999,623 B_2. Date of granting: 04-06-2024.

"Smart paints using graphene oxide and other two dimensional materials". From: Hellenic Industrial Property Organisation. Date of granting: 14-05-2024. Valid until 30-03-2043.

"Art protection with the use of two-dimensional materials such as graphene". From: Hellenic Industrial Property Organisation. No: 1009757. Date of granting: 01-06-2020. Valid until 01-01-2039.

"Lattice frames with composite polymers", 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. **2D-ENGINE: "**Engineering of new 2D materials phases not existing in Nature"
   (HORIZON-CL4-2023-DIGITAL-EMERGING-01-CNECT)
   (10/2023 - 09/2027) -Budget: 561.500,00
2. **GREENART:** "GREen ENdeavor in Art ResToration"
   (HORIZON-CL2-2021-HERITAGE-01)
   (2021-2025) -Budget: 290.000,00
3. **GRAPHENE CORE 3:** "Graphene Flagship Core Project 3"
   (HORIZON 2020- EXCELLENCE SCIENCE- Future and Emerging Technologies)
   (2020-2023) -Budget: 1.486.000,00
4. **DIRECT-SEPA:** "Direct Separation of Two-Dimensional Materials from the Surface of Liquid Metal Catalysts"
   (HORIZON 2020 –EXCELLENCE SCIENCE- Future and Emerging Technologies)
   (2020-2022) -Budget: 222.050,00
5. **ITS THIN:** "Water separation revolutionized by ultrathin carbon nanomembranes"
   (HORIZON 2020 –EXCELLENCE SCIENCE- Future and Emerging Technologies)
   (2020-2023) -Budget: 115.575,00
6. **FLAGERA** "**G**raphene c**O**mposites **FOR** advanced drinking **WATER** treatment [GO-FOR-WATER]"
   (FLAGERA –Joint Transnational Calls 2019)
   (2020-2023) -Budget: 200.000
7. **CAERUS** "Carbon nAnofilters of Enhanced Rigidity for Unpolluted air and gas Sensing"
   (National/ESPA)
   (2019-2021) Budget: 210.000,00
8. **APACHE** "Active & intelligent Packaging materials and display cases as a tool for preventive conservation of Cultural Heritage"
   (HORIZON 2020 – INDUSTRIAL LEADERSHIP)
   (2019-2022) -Budget: 350.000,00
9. **SMARTFAN** "Smart by Design and Intelligent by Architecture for turbine blade fan and structural components systems"
   (HORIZON 2020 – INDUSTRIAL LEADERSHIP)
   (2018-2021) -Budget: 382.487,50
10. **GRAPHENART "**Graphene as effective anti-fading agent for the protection of artworks"
    (HORIZON 2020- EXCELLENT SCIENCE - European Research Council (ERC))
    (2017-2019) -Budget: 119.875
11. **GRAPHENE CORE 2** "Graphene Flagship Core Project 2"
    (HORIZON 2020- EXCELLENCE SCIENCE- Future and Emerging Technologies)
    (2018-2020) -Budget: 430.037
12. **LMCat "**Development of continuous two-dimensional defect free materials by liquid-metal catalytic routes"
    (HORIZON 2020- EXCELLENCE SCIENCE- Future and Emerging Technologies)
    (2017-2020) -Budget: 655.016,25
13. **GRAPHENE CORE 1** "Graphene-Graphene based disruptive technologies"
    (HORIZON 2020- EXCELLENCE SCIENCE- Future and Emerging Technologies)
    (2016-2018)-*further extension envisaged till 2023* -Budget: 340.507
14. **NEWSPEC** "New cost-effective and sustainable polyethylene based carbon fibres for volumemarket applications"
    (FP7 Large)
    (2013-2017) -Budget:1.078.016
15. **TAILOR GRAPHENE** "Tailoring Graphene to Withstand Large Deformations"
    (ERC Advanced Grant)

(2013-2018) -Budget:2.025.600

16. **GRAPHENE/GRAPHENE FET FLAGSHIP** "Graphene-Graphene based revolutions in ICT and beyond"
    (FP7-ICT - Specific Programme "Cooperation": Information and communication technologies)
    (2013-2016)- *further extension envisaged till 2023* -Budget: 340.622
17. **INDUSTRY TECH 2014** "Smart Growth Through Research and Innovation; Towards EUROPE 2020"
    (General Secretariat of Research & Technology (GSRT) and is supported by The European Commission Directorate for Research and Innovation)
    (2013-2014) -Budget: 599.959
18. **PhoSiL** "Design and development of energy efficient photovoltaic cells of new architectures with laser processing"
    (Regional of Western Greece) (National)
    (2012-2014) -Budget: 195.656
19. **ECNP-GROWTH** "Consolidation of the European Centre for Nanostructured Polymers"
    FP7 (ECNP-GROWTH)
    (2012-2014) -Budget: 53.400
20. **THALIS** "Graphene and Graphene nanocomposites: production, properties and applications"
    (MINISTRY OF EDUCATION)
    (2012-2015) -Budget: 599.400
21. **ERC-10** "Deformation , Yield and Failure of Graphene and Graphene-based nanocomposites"
    (GSRT for a short-listed European Research Council (ERC) proposal)
    (2012-2015) -Budget: 1.271.000
22. **Post-Doctoral Programme GSTR** "Mechanical Response of Graphene under high deformations"
    (National)
    (2012-2015) -Budget: 150.000
23. **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
24. **PROSUITE** "Development and application of a standardized methodology for the prospective sustainability assessment of technologies"
    FP7-ENV (CEC)
    (2009-2012) -Budget: 27.000
25. **MARIE-CURIE** "High Volume Fraction Nanocomposites"
    TOK CNTCOMP, FP6-MC(CEC)
    (2006-2010) -Budget: 733.900
26. **ΑΝΑΠΛΑΣΥ** "Composite Materials from Recycled Plastics and Plant Inclusions",
    (Region of Western Greece)
    (2006-2008) -Budget: 150.000
27. **MARIE-CURIE ERG** "Pressure measurements"
    (FP6)
    (2005-2006) -Budget: 45.000
28. **NANOFUN-POLY** "Nanostructured and Functional Polymer-Based Materials and Nanocomposites"
    FP6-NoE (CEC)
    (2004-2008) -Budget: 1.167.328
29. **E.P.A.E.K. II** "Identification of failure micro-mechanisms in composite materials via in-situ measurements of stress fields"
    (Ministry of Education) (National)
    (2004-2007) -Budget: 85.000
30. **MARIE CURIE** Large Conference, "European Conference on Composite Materials"
    (CEC)
    (2004) -Budget: 43.170
31. **Praxe A** "New materials in construction"
    (GSRT) (National)

(2003) -Budget: 44.000

32. **PENED** "Development and characterization of smart composite materials incorporating shape memory wires" (GSRT PENED) (National)
(2002-2005) -Budget: 76.911
33. **PENED** "Intramedulary Osteosynthesis of Bone Fracture and Intramedulary Osteosynthesis Under Stress with the use of Shape Memory Alloys"
(Ministry of Education) (National)
(2002-2006) -Budget: 146.000
34. **VaFTeM** "Ceramic and Carbon Fibres: Validation of Testing Methods, GROWTH"
(CEC)
(2001-2004) -Budget: 200.000
35. **DAMPBLADE** "Wind Turbine Rotor Blades Using Passively Damped Composites,
FP6 ENERGIE (CEC)
(2001-2004) -Budget: 228.920
36. **SAFEFLOOR** "Low Risk and Totally Recyclable Structural Buildings"
FP 6 GROWTH" (CEC)
(2001-2004) -Budget: 200.000
37. **MEGAWIND** "Development of a MW Wind Turbine for High Wind Complex Terrain Sites"
ENERGIE (CEC)
(2001-2004) -Budget: 228.988
38. "Structure and Dynamics in Crystalline Polymers: Vibrational Spectroscopy and Molecular simulation"
(NATO)
(2001-2003) -Budget: 9.915
39. **E.P.E.T** "Industrial Applications of Composite Materials"
GSRT, E.P.E.T. (National)
(2000) -Budget: 2.415
40. "Raman Spectroscopic Study on the Strain-induced Phase Transformation in Isotactic and Syndiotactic Polypropylenes"
(Greek-German Co-operation)
(1999-2001) -Budget: 13.000
41. "Design Construction and installation of all polymer composite bridge"
GSRT (National)
(1998-2001) -Budget: 395.000
42. **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), (National)
(2011-2013) -Budget: 148.300
2. New Construction Programme for FORTH/ICE-HT
(Western Regional of Greece), (National)
(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

Ch. Kostaras*,* Chemical Engineering Dept., Univ. of Patras
Title: "Composites of Carbon Nanotubes and Two Dimensional Nanomaterials - Fabrication and Technology Applications" (2023*)*

M. Dimitropoulos*,* Chemical Engineering Dept., Univ. of Patras
Title: "Synthesis and engineering of 2D material heterostructures: From basic properties characterization to advanced applications" (2022)

Ch. Tsakonas, Chemical Engineering Dept., Univ. of Patras
Title: " Production of graphene sheets with chemical vapour deposition by solid and liquid catalytic Routes" (2022)

G. Paterakis, Chemical Engineering Dept., Univ. of Patras
Title: "Development and experimental study of electrochemical devices based on graphene" (2022)

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" (2022)

Ch. Pavlou,Chemical Engineering Dept., Univ. of Patras (2022)
Title: "Blending of nanocomposites based on biodegradable polymers with inclusions of organic nanoparticles"

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
Title:"Smart Composite Materials with Embedded Shape Memory Wires" (2006)
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. Koimtzoglou, 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. Matsalis, Chemical Engineering Dept., Univ. of Patras
Title:
S. Peloni, Chemical Engineering Dept., Univ. of Patras
Title: "Production and characterization of CFRPS with graphene as nano-inclusions and analysis of their mechanical behaviour"
E. Bellou, Chemical Engineering Dept., Univ. of Patras
Title: "Response of 2D materials/systems due to mechanical stimuli: exploring the fracture regime"
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"

MSc Supervision

H.Naderi, Interdepartmental Programme in Polymer Science and Technology, (2024)
Title: *"Production and characterization of nano composite laminate based on thermoplastic polymer and 2d materials by Maragoni technique."*
G. P. Tsouvaltzi, Interdepartmental Programme in Polymer Science and Technology, (2023)
Title: *"Study of damping behavior of graphene based nano-composite materials"*
O. Kakarelidis, Interdepartmental Programme in Polymer Science and Technology, (2023)
Title: *"Development and mechanical characterization of 3D-printed, short carbon fibre-reinforced PLA composite materials"*
M. Athanasopoulos, Interdepartmental Programme in Polymer Science and Technology, (2022)
Title: *"Stress transfer mechanism in embedded monolayer CVD MoS_2/polymer composite material"*
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: "Photovoltaiccells 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 Orthorombic 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

2024	• Graphene 2024, June 25-28. Madrid, Spain, *"Green and Cost-Effective Graphene Based Sensors",* **INVITED**
2023	• Patras IQ 2023, November 25-27, Patras, Greece, *"Two-dimensional materials for the Conservation of our Cultural Heritage",* **INVITED LECTURE** • Grapchina 2023, November 10-12, Shangai, China, *"Synthesis of 2DM via CVD: current technologies and future trends"*, **INVITED/ KEYNOTE SPEAKER** • ITS THIN Workshop, 20-22 September 2023, Corfu, Greece, *"Review of research on Graphene by CNM lab at FORTH over the last 10 years",* **Organiser** • NanoBio 2023, Heraklion Crete, Greece, September 11-15, "*Recent advances on graphene grown on liquid metal catalysts: synthesis, in situ monitoring and direct separation"*, **INVITED** • Graphene2023, Manchester (UK), 27-30 June 2023, "Graphene-Based Composites: From Nano to Macro Applications", **INVITED LECTURE** • JEC Paris, Paris Nord Villepinte France, 25th – 27th April 2023, "Graphene: Revolutionising Composites Applications", **INVITED LECTURE** • Graphene CDT (Centre for Doctoral Training) , University of Cambridge, February 10 2023, "Graphene grown on solid and liquid catalysts by chemical vapour deposition; Real time monitoring and kinetic studies", **INVITED LECTURE**
2022	• EGF 2022, Athens, Greece, 26th – 28th October 2022, *"In situ monitoring of graphene growth on solid and liquid Cu substrates",* **INVITED/ KEYNOTE SPEAKER**
2021	• 13th Hellenic Polymer Society International Online Conference, 12th – 16th December, *"New Developments in the Use of Graphene as a Multi-Functional Additive to Polymers and Composites",* **INVITED** virtual Lecture • Graphene 2021 Conference, Grenoble, 26-29 October , "*Recent advances of graphene growth by CVD on solid and liquid copper catalysts",* **INVITED** • 2D TECH center, Gothenburg, 18 October,*"Graphene as a multi-functional additive to engineering composites"*, **INVITED** virtual seminar • Graphene Week 2021, September 20- September 24, Online Conference, "Preventing colour fading in artworks with graphene veils", **INVITED** virtual talk • Chem 2D mat2021, August 31-September 03, Online Conference, " Real-Time monitoring and kinetic studies of graphene growth on solid and liquid copper"- **INVITED** virtual talk • Advanced Materials Conference, June 16th, Online Event, "Functional Novel Composites" - **INVITED** virtual talk • Graphene Industrial Forum and 2D materials, January 26th – 27th , 2021, "Graphene composites; current status and new perspectives towards commercial applications"– **INVITED/ KEYNOTE SPEAKER** online conference
2020	• Grapchina 2020, October 16th -18th, 2020 Shanghai, China, "Towards Macroscale Superlubricity Enabled by Strained Graphene" – **INVITED** virtual talk • BeDimensional Seminar Series , November 18th 2020, Italy, "2D-based composites, state of art, challenges and future perspectives" – **INVITED** virtual talk
2019	• 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"- **PLENARY SPEAKER** • Grapchina 2019, Xi'an, China, October 19-21, "Graphene Composites with emphasis on current results and developments" – **INVITED/ PLENARY SPEAKER** • Graphene Week 2019, Helsinki, Finland, 23-27 September 2019, "Activities in the area of graphene composites by the Graphene Flagship"- (EU-Australia workshop) - **INVITED**

	• 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** • Graphene 2019, Rome, Italy June 25-28, "Activities related to research and applications in the area of graphene composites by the Graphene Flagship" – **INVITED** • 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" - **INVITED** • 12th Hellenic Polymer Society International Conference, Ioannina, Greece, September 30 - October 3, "Multi-functional graphene/polymer nanocomposites"- **INVITED** • Graphene Week 2018, San Sebastian Spain, September 10-14, "Development of multi-functional macro-scale CVD graphene/polymer nanolaminates" • ECCM18, Athens, Greece, June 25-28, "Overview of Graphene Polymer Composites with emphasis on current developments" - **INVITED/ KEYNOTE SPEAKER** • Imagine Nano 2018, Bilbao, Spain, March 13-16, "Multi-functional CVD graphene/polymer nanolaminates" – **INVITED/ KEYNOTE SPEAKER** • Graphene Study Winter School 2018, Obergurgl, Austria, February 5-10, topic: "Structural Characterisation of Graphene-Based Materials"- **INVITED**
2017	• 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", **INVITED** • "Eurofillers Polymer Blends 2017", 23-27 April (2017) Heraclion, Greece **INVITED PLENARY** • GRAPHENE 2017, 28-31March, Barcelona, Spain , **INVITED**
2016	• 11th Hellenic Polymer Society International Conference, 3-5 November 2016 Heraclion, Greece • ICAutoC 2016- Lisboa 21-23 September 2016, **INVITED PLENARY** • ECCM 17 2016, Munich 26-30 June, topic"Graphene-Graphene Based Composites", "Compression behaviour of embedded graphenes of various thicknesses" • Graphene Week 2016, 13-17 June (2016) Warshaw, Poland • Graphene 2016- Genova 19-22 April 2016, **INVITED PLENARY**
2015	• GraphITA 2015, Bologna 14-18 September • GrapheneWeek 2015,Manchester 22-26 June • Euronanoforum Latvia, Riga 10-12 June, Graphene Workshop "Graphene Mechanical Properties"- **INVITED** • Graphene Flagship meeting, Bologna 23-24 April • 3rd Science & Technology Forum, Demokritos NSCP, 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*" • 10th Hellenic Polymer Society Conference, Patras, Greece, December 4-6, *topic*: "*Polymer/ graphene stress transfer mechanisms*" • Israel-Greece Joint Meeting on Nanotechnology & Bionanotechnology, Tel Aviv, Israel, October 19-22, *topic*: "*Nanotechnology Research in Greece*" • Graphene Summer School 2014, Patras, Greece, July 14-18, *topic*: "Recent Scientific Advances and Applications of Graphene"- **INVITED** • ECCM16, Workshop on Graphene-based Composites, Seville, Spain, June 22-26, *topic*: "Composite Materials" – **INVITED PLENARY** • Graphene 2014, Toulouse, France, May 6-9, *topic*: "Graphene Research in Greece"

	• Industrial Technologies 2014, Athens, Greece, April 9-11, topic: "Smart Growth Through Research and Innovation" • GRAPHEsp2014, Lanzarotte, Spain, February 18-24, topic: "*Interfaces in Graphene Polymer Composites"*
2013	• TNT'13 Seville, Spain,topic: "Mechanical Behaviour of Graphene-based Nanocomposites"- **INVITED PLENARY** • Onassis Lectures Series in Physics and Chemistry (*theme*: Nanosciences and Nanotechnology), July 15-19 2013, Heraklion, Greece, topic: Graphene Research in Greece, **INVITED PLENARY**
2012	• Nanocarbon, Valencia, Spain topic: "Mechanical Behaviour of Graphene-based Nanocomposites"- **INVITED PLENARY** • ECCM17, Venice, Italy, topic: "Mechanical Behaviour of Graphene and Graphene Nanocomposites"- **INVITED PLENARY** • ECCM17, Venice, Italy, "Carbon nanotubes buckypapers of controlled porosity and their nanocomposites" • FET Flagship, Manchester, UK, topic: "Mechanical Properties of Graphene"- **INVITED PLENARY** • GrapHEL, Mykonos Greece, "Single, bi- and tri-layer graphenes as strain sensors in graphene based nanocomposites • ECCM17 "Tensile mechanical properties of embedded dingle, bi- and tri-layer graphene flakes"
2011	• Graphita, L'Aquila, Italy, topic: Deforming Single and Multilayer Graphenes- **INVITED PLENARY** • Brussels, DG-Research, NMP Workshop- Graphene 2020, topic: Mechanical Properties of Graphene- **INVITED PLENARY** • Crete, IC4N, topic: Mechanical Properties of Graphene in Tension and Compression- **INVITED PLENARY** • Cyprus, 27 Sol.State Phys.& Mater. Sci.Conf., topic:Mechanical Deformation of Graphenes and Graphene-based Nanocomposites- **INVITED PLENARY** • Imagine Nano - Graphene Conference, Bilbao, Spain, "Bilayer graphene under uniaxial tension: A Raman study". • Imagine Nano - Graphene Conference, Bilbao, Spain "Deformation of graphene in tension and compression". • 25th International Winterschool , Kirchberg, Tirol, Austria, "Raman 2D-peak splitting in graphene: theory and experiment". • 12th International Conference on the Science and Application of Nanotubes "NT11", Cambridge, U.K., "Mono- and few-layer graphene sheets in binary solvent mixtures"
2010	• ECNP, Madrid, topic: Mechanical Behaviour of Monolayer Graphene and Nanocomposites- **INVITED PLENARY** • Polymer Fibre, Edinburgh, UK, topic: Seeing carbon fibres through graphene • Micro&Nano2010" Athens, Greece "Surface electronic properties of single-layer graphene films on Cu foil and SiO2/Si substrates" • Micro&Nano2010" Athens, Greece, "Graphene monolayers under tension and compression" • (Biotargeting), Patras, Greece, "Mechanical deformation of graphene and graphene/ polymer nanocomposites" • 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" • (FSAS 2010), Hersonissos, Crete, Greece "Raman Study of Graphene Monolayer under Tensile and Compressive Loading" - **INVITED PLENARY**

	• Annual World Conference on Carbon by the American Carbon Society, Clemson, South Carolina, USA: "Graphene Under Uniaxial Strain: A Raman Study" • Polymer Fibres 2010, Edinburgh, Scotland, UK "Seeing carbon fibres through graphene: a new perspective for the development of stress sensors"- **INVITED PLENARY** • 6th International ECNP Conference on NANOSTRUCTURED POLYMERS and NANOCOMPOSITES, Madrid, Spain, "Mechanical Behaviour of Monolayer Graphene and Graphene-based Nanocomposites"- **INVITED PLENARY** • 24th International Winterschool , Kirchberg, Tirol, Austria, "Compression Behavior of Single-layer Graphene". • 3rd International Symposium on Transparent Conductive Materials,Heraklion, Greece,"Surface electronic properties of graphene films: An XPS, UPS and EELS study" • 8th Hellenic Polymer Society Symposium, Heraklion, Greece, "Fabrication and characterization of polymer nanocomposites based on carbon nanotube films" • 4th International Conference on Micro-Nanoelectronics, Nanotechnologies & MEMS, Athens, Greece, "Carbon nanotube/polymer composite films by Resin Film Infusion method"
2009	• Cnano'09, Santorini, "Mechanical deformation of graphene: A Raman study" • Cnano'09, Santorini, "Tensile properties of graphene oxide tapes" • Cnano'09, Santorini, "Controlled dispersion of carbon nanotubes by amphiphilic polyelectrolytes" • Cnano'09, Santorini, "Polymer nanocomposites based on carbon nanotube films" - **INVITED PLENARY** • ICCM-17, Edinburgh, "Polymer nanocomposites based on CNT buckypapers" • 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" • 5th International ECNP Conference on NANOSTRUCTURED POLYMERS and NANOCOMPOSITES, Paris , France, "Graphene nanocomposite under tension and compression: Investigation of the 2D Raman band" - **INVITED PLENARY**
2008	• Nanofun, Alicante, Spain, topic: Nanocomposites- **INVITED PLENARY** • Polymers Fibres-International, Manchester, "Stress sensing in smart composites". • Nanofun-International, Alicante, Spain, "Block Copolymers"
2007	• NANOCONF-International, Corfu, Greece • EUROMAT-International, Nuremberg, Germany
2006	• Nanofun-International, San Sebastian, "Block Copolymers" - **INVITED PLENARY** • ECCM 12-International, Biarritz, France • 16thEuropean Conference on Fracture- International, Alexandroupolis, Greece • MCM-Internaltional, Riga, Latvia
2005	• Conf. on Micromechanics and Microstructure Evolution-International, Madrid, Spain • IIMM'05-International, Lyon, France, "Adaptive Composites"
2004	• ECCM 11-International, Rhodes, Greece
2002	• ECCM 10-International, Brugge, Belgium, "Interface -Smart composites"
2001	• SIC- Capri- Italy, topic: Damage monitoring with Raman spectroscopy • Structural Integrity of Composites- International, Capri- Italy, "-Damage monitoring with Raman spectroscopy"- **INVITED PLENARY** • IPCM-2001/ International, Bordeaux-France, "Smart Composites –Interfaces –Fatigue"
2000	• ECCM9- International, Brighton (UK), "SMA composites –Fatigue -Angle Ply composites"

	• Composites Gordon Conf- International, Ventura, CA (USA), "SMA composites" - **INVITED PLENARY**
1999	• ICCM-12- International, Paris, France, "Interface"
1998	• 5th Mechanics Conference, Ioannina, Greece, 'Smart' Measurements • ECCM8-International, Napoli, Italy, "Non-destructive testing of composites" • ICCI-7- International, Shonan, Japan, "Interfacial Micromechanics"
1997	• Gordon conference on composites- International, Ventura, CA (USA), "Micromechanics of Composites"- **INVITED PLENARY** • Hellenic Federation of Polymers, Patras, Greece, "Syndiotactic Polystyrene" • IPCM'97- International, Eger, Hungary, "Fracture Characteristcs of Composites"
1996	• European Polymer Federation'96- Conference, Crete, Greece, "Structure-Property Relations in Polymers" • 3rd European Conf. on Smart Structures and Materials- International • Lyon, France, "Smart sensing in composites" • SIDCOMP-96, Pitea, Sweden, "Micromechanics" • ICCI-6-, International, Israel, "Composite Interfaces" • Composite Gordon Conference-, International, Ventura, CA, US, "Stress measurement in Composites"- **INVITED PLENARY**
1995	• COMP'95- International, Corfu, Greece, "Micromechanics" • IPCM'95-International, Eindhoven, "Composite Interfaces"- **INVITED PLENARY** • Polymer Physics '95, Leeds, UK, "Polymer Fibres" • 4th Mechanics Conf., Xanthi, Greece, "Stress transfer"- **INVITED PLENARY** • D&FC-International, Surrey, UK, "Multifibre composites/ Instrumentation"
1994	• Fiber Soc.- International, Atlanta, Georgia, "Fibres" • ASTM- International, Phoenix, USA, "Fracture and interfaces" - **INVITED PLENARY** • MCM-II-International, Oxford, UK, "LRS on Composites"
1993	• ECCM6-International, Bordeaux, France, "Interfaces" • IPCM93-International, Cambridge, UK, "Interfaces" • The Polymer Conf.-International, Cambridge, UK, "Polymer composites" • Gordon Conf.-Intern., New Hamps.,USA, "Fibres" • D&FC-International, Manchester, "Stress-conc.in composites- Interfaces"
1992	• PEG-National, Loughborough, "Strain Mapping" • Microphenomena in Composites-International, Herzlia, Israel, "Interfaces" • ICCI4-International, Cleveland, USA, "Interfaces" • ECCM5-International, Bordeaux, France, "Interfaces"- **INVITED PLENARY** • FRC'92-International, Newcastle, UK, "Thermal Stresses"
1991	• IPCM91-International, Leuven, Belgium, "Interfaces" • Pol. Phys-National, Leeds, UK, "Pol. Fibres" • DFC91-International, Manchester, UK, "Strain mapping" • Gordon Conf.-Intern., New Hamps.,USA, "Fibres"
1990	• FRC90-National, Liverpool, UK, "Compression" • BCS90-National, Bath, UK, "Interfaces"- **INVITED PLENARY** • ECCM4-International, Stuttgart, FRG, "Fibres/ Interfaces" • Comp90-International, Patras, Greece, "Raman on Comp." • Spec.Pol-International, Baltimore, USA, "Pol. Fibres" • ASC90-International, Lansing, USA, "Interfaces"
1989	• IPCM89-International, Sheffield, UK, "Interfaces" • Pol. Phys-National, Reading, UK, "Compression" • ECCM3-International, Bordeaux, France, "Composites"
1988	• Comp88-International, Patras, Greece, "NDT" • ICCI2-International, Cleveland, USA, "Interfaces"

1987	• ComSym-International, Zaragoza, Spain, “New Fibres” • Polym. Physics, Reading, UK, “Raman Spectr.” • ICCM-7-International, London, UK, “NDT”
1986	• Comp86-International, Patras, Greece, “Kevlar Comp.”
1985	• Churchill-National, Cambridge, UK, “Polydiacetylenes”
1983	• Pol. Phys-National, Reading, UK, “Fibres”

APPENDIX V

CITATIONS

Πηγή 22.05.2024	**Συνολικές αναφορές**	**Ετεροανάφορες**	**H-index**
Web of Science	17.641	16.511	51
Google Scholar	25.248	-	63

APPENDIX VI

Selected Books or Book Chapters

B9. "Characterization of Graphene Flexible Materials and Displays", in "Advaced 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. Hercliffe, C. Galiotis and R. J. Young, , Springer Series in Solid-State Sciencesedited 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.

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Refereed Journal Papers (Chronological Order)

256 *"Graphene: revolutionising composite applications", by* Costas Galiotis, Graphene and 2D Materials, May 2024
(https://doi.org/10.1007/s41127-024-00080-y)

255 *"Operando Characterization and MolecularSimulations Reveal the Growth Kinetics ofGraphene on Liquid Copper During ChemicalVapor Deposition", by,* Valentina Rein, Hao Gao, Hendrik H. Heenen, Wissal Sghaier, Anastasios C. Manikas, Christos Tsakonas, Mehdi Saedi, Johannes T. Margraf, Costas Galiotis, Gilles Renaud, Oleg V. Konovalov, Irene M. N. Groot, Karsten Reuter, and Maciej Jankowski, ACS NANO, **18**, 12503–12511, April 2024
(https://doi.org/10.1021/acsnano.4c02070)

254 *"Mechanical Integrity and Reinforcement Efficiency of Graphene Grown on Liquid Copper by Chemical Vapor Deposition", by,* Ilias Sfougkaris, Christos Tsakonas, Anastasios C. Manikas,* Maria Giovanna Pastore Carbone, Christos Pavlou, Irene M. N. Groot, Mehdi Saedi, Gertjan J. C. van Baarle, Marc de Voogd, Valentina Rein, Maciej Jankowski, Oleg V. Konovalov, Gilles Renaud, and Costas Galiotis, Advance Materials Interfaces, May 2024
(https://doi.org/10.1002/admi.202400193)

253 *"Graphene aerogels as efficient adsorbers of water pollutants and their effect of drying methods", by,* G Gorgolis, M Kotsidi, G Paterakis, N Koutroumanis, C Tsakonas and C Galiotis, Scientific Reports, **14**, 8029, 05 April 2024
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252 *"Mechanical response of monolayer graphene via a multi-probe approach", by,* Javier Varillas, Jaroslav Lukeš, Anastasios Manikas, Jan Maňák, Jiří Dluhoš, Zuzana Melníková, Martin Kalbáč, Costas Galiotis and Otakar Frank, International Journal of Mechanical Sciences, 20 March 2024, 109208
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(https://doi.org/10.1016/j.sintl.2023.100272)

249 *"MesoscopicModeling and Experimental Validation of Thermaland Mechanical Properties of Polypropylene Nanocomposites Reinforced By Graphene-Based Fillers", by,* Atta Muhammad, Rajat Srivastava, Nikolaos Koutroumanis, Dionisis Semitekolos, Eliodoro Chiavazzo, Panagiotis-Nektarios Pappas, Costas Galiotis, Pietro Asinari, Costas A. Charitidis, and Matteo Fasano, Macromolecules 2023, **56** (24), 9969-9982, December 6, 2023
(doi: 10.1021/acs.macromol.3c01529)

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(doi: 10.1039/d2nr05795f)

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235 *"Highly Sensitive and Ultra-Responsive Humidity Sensors Based on Graphene Oxide Active Layers and High Surface Area Laser-Induced Graphene Electrodes", by,* George Paterakis, Eoghan Vaughan, Dinesh R. Gawade, Richard Murray, George Gorgolis, Stefanos Matsalis, George Anagnostopoulos, John L. Buckley, Brendan O'Flynn, Aidan J. Quinn, Daniela Iacopino and Costas Galiotis, *Nanomaterials,* **12**, 2684*,* 4 August 2022
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APPENDIX IX Refereed Books of Proceedings (Chronological order)

Refereed Books of Proceedings (Chronological order)

97 *"Graphene-based materials as a tool for improving long-term storage of cultural heritage items",* Gorgolis George, Ziemann Steffen, Kotsidi Maria, Paterakis George, Koutroumanis Nikos, Tsakonas Christos, Anders Manfred and Galiotis Costas, 14th Panhellenic Scientific Conference in Chemical Engineering, 29- 31 May 2024 Thessaloniki, Greece

96 *"Conductive railways on graphene wrinkles",*Marinos Dimitropoulos, Emilia Papasouli, Anastasios C. Manikas, Christos Tsakonas, Michel Rérat, Emmanuel N. Koukaras, Panaghiotis Karamanis and Costas Galiotis, NANOscientific Forum Europe Scanning Probe Microscopy (SPM), 13-15 September 2023, ICFO, Barcelona, Spain

95 *"Novel Graphene-Based Materials as a Tool for Improving Long-Term Storage of Cultural Heritage",* G. Gorgolis, Steffen Ziemann, Maria Kotsidi, George Paterakis, Nikos Koutroumanis, Christos Tsakonas, Manfred Anders and Costas Galiotis, XXXVII Panhellenic Conference on Solid State Physics & Material Science, 17- 20 September 2023 Thessaloniki Greece

94 *"Graphene based multifunctional and ultra-response capacitive humidity sensors",* G. Paterakis, Stefanos Matsalis, Eoghan Vaughan, George Anagnostopoulos, George Gorgolis, Nikos Koutroumanis, Daniela Iacopino, and Costas Galiotis, 37th Panhellenic Conference on Solid State Physics and Materials Science, 17-20 September 2023, Thessaloniki, Greece

93 *"Graphene-Based Composites: From Nano to Macro Applications",* Costas Galiotis, George Anagnostopoulos, Maria Giovanna Pastore Carbone, Panagiotis N. Pappas, Anastasios C. Manikas, Nikolaos Kontis, George Paterakis, Nick Koutroumanis and Christos Pavlou, Graphene2023, 27-30 June 2023, Manchester (UK)

92 *"Conductive railways on graphene wrinkles",* Marinos Dimitropoulos, Anastasios C. Manikas, Emilia Papasouli, Christos Tsakonas, Michel Rérat, Panaghiotis Karamanis, Emmanuel N. Koukaras and Costas Galiotis, Graphene2023, 27-30 June 2023, Manchester (UK)

91 *" Synthesis and nanomechanical assessment of ultrathin carbon nanomembranes targeted for permeation applications",* Marinos Dimitropoulos, George Trakakis, Nikolaus Meyerbröker, Christos Pavlou, Raphael Gehra, Polina Angelova, Albert Schnieders, Christos Kostaras, Costas Galiotis and Konstantinos Dassios, Chem2Dmat2023, 15-18 May 2023, Bologna, Italy

90 *"Preventing colour fading in artworks with graphene membranes",* Maria Giovanna Pastore Carbone, Maria Kotsidi, George Gorgolis, George Anagnostopoulos, George Paterakis, Anastasios C. Manikas, Giovanna Poggi, George Trakakis, Piero Baglioni, Costas Galiotis, The Plastics Heritage Congress 2022, 17-19 October 2022, Naples, Italy

89 *"Green Synthesis of Graphene Aerogels",* G. Paterakis, G. Gorgolis, I. Sfougaris, N. Koutroumanis, B. Saner Okan, Marjan Hezarkhani, C. Galiotis, European Graphene Forum (EGF), 26-28 October 2022, Athens, Greece (poster)

88 *"CVD graphene as an effective tool for the protection of artworks",* G. Gorgolis, M. Kotsidi, M.G. Pastore Carbone, G. Paterakis, G. Anagnostopoulos, G. Trakakis, A. Manikas, C. Galiotis, EGF 2022, 26-28 October 2022, Athens, Greece

87 *"Evaluating the performance of graphene-based capacitive humidity sensors",* Stefanos Matsalis, George Paterakis, Nikos Koutroumanis, George Anagnostopoulos and Costas Galiotis, Graphene Week, 5-9 September 2022, Munich

86 *"Investigating stress concentration around a circular notch in monolayer graphene/polymer model composite",* E. Bellou, S. Peloni, MG. Pastore Carbone, A.C. Manikas, C. Tsakonas, C. Pavlou, N. Kontis and C. Galiotis, Graphene Week, 5-9 September 2022, Munich (poster)

85 *"Robust and Flexible Graphene and MWCNT Heaters - Ultra-fast Heating Response and High Temperature Performance",* Christos Kostaras, Christos Pavlou, George Paterakis, Nikolaos Koutroumanis, George Trakakis, Konstantnos Dassios and Costas Galiotis, ECCM20, 26-30 June 2022, Lausanne, Switzerland, (poster)

84 *"Carbon nanotube and graphene papers as flexible heating elements",* C. Kostaras, C. Pavlou, G. Paterakis N. Koutroumanis, G. Trakakis, K. Dassios, C. Galiotis, 13th Panhellenic Scientific Conference in Chemical Engineering, 2-4 June 2022, Patras, Greece (poster)

83 *"Mechanical properties of carbon nanomembranes and carbon nanomembranes/PET composites designed for water separation technologies",* M. Dimitropoulos, G. Trakakis, C. Pavlou, C. Kostaras, N. Meyerbröker, R. Dalpke, A. Schnieders , C. Galiotis, K. Dassios, 13th Panhellenic Scientific Conference in Chemical Engineering, 2-4 June 2022, Patras, Greece (poster)

82 *"Evaluating the performance of graphene-based capacitive humidity sensors",* S. Matsalis, G.Paterakis, N. Koutroumanis, G.Anagnostopoulos, C. Galiotis, 13th Panhellenic Scientific Conference in Chemical Engineering, 2-4 June 2022, Patras, Greece (poster)

81 *"Extraordinary mechanical and multifunctional properties of CVD graphene/polymer nanolaminates",* Ch. Pavlou, M. G. Pastore Carbone, A. C. Manikas, G. Trakakis, C. Galiotis, 13th Panhellenic Scientific Conference in Chemical Engineering, 2-4 June 2022, Patras, Greece

80 *"Preventing colour fading in artworks with graphene veils",* M.Kotsidi, G.Gorgolis, M.G. Pastore Carbone, G. Anagnostopoulos, G. Paterakis, A. Manikas, G. Trakakis, C. Galiotis, 13th Panhellenic Scientific Conference in Chemical Engineering, 2-4 June 2022, Patras, Greece

79 *"Thermoplastic polyurethane–graphene microcellular foams: Production and Characterization",* E. Kallitsi, M. G. Pastore Carbone, A. C. Manikas, E. Di Maio, C. Galiotis, 13th Panhellenic Scientific Conference in Chemical Engineering, 2-4 June 2022, Patras, Greece (poster)

78 *"Two-Step Wafer Scale Chemical Vapor Deposition of Graphene/h-BN Heterostructures"***,** M. Dimitropoulos, G.Trakakis, Ch. Androulidakis, M. Kotsidi, C. Galiotis, 13th Panhellenic Scientific Conference in Chemical Engineering, 2-4 June 2022, Patras, Greece (poster)

77 *"Real-time tailoring of CVD graphene growth on liquid copper",* I. Sfougaris, C. Tsakonas, A.C. Manikas and C. Galiotis, 13th Panhellenic Scientific Conference in Chemical Engineering, 2-4 June 2022, Patras, Greece

76 *"Investigation of stress concentration around a circular hole in monolayer graphene/polymer model composite by raman spectroscopy"*, E. Bellou, S. Peloni, MG. Pastore Carbone , A.C. Manikas, C. Tsakonas, C. Pavlou, N. Kontis and C. Galiotis, 13th Panhellenic Scientific Conference in Chemical Engineering, 2-4 June 2022, Patras, Greece (poster)

75 "*Roll-to-roll graphene transfer as an effective tool for the protection of artworks",* Maria Kostidi, George Gorgolis and Costas Galiotis, Apache second public training, Turin Italy, 2 December-3 December 2021

74 "Preventing colour fading in artworks with graphene veils", Costas Galiotis, Maria Kotsidi, George Gorgolis, Maria Giovanna Pastore-Carbone, George Anagnostopoulos, George Paterakis, Giovanna Poggi, Anastasios Manikas, George Trakakis and Piero Baglioni, Graphene Week 2021 Virtual Conference, 20 September-24 September 2021

73 "Real-Time monitoring and kinetic studies of graphene growth on solid and liquid copper", Costas Galiotis , M. Jankowski, M. Saedi, F. La Porta, A. C. Manikas, C. Tsakonas, J. S. Cingolani, M. Andersen, J. M. de Voogd, G. J. C. van Baarle, K. Reuter, G. Renaud, O. Konovalov and I. M. N. Groot, CHem 2Dmat Virtual Conference, 31 August-3 September 2021

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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 6th International Virtual Conference of Engineering Against Failure, 23 -25 June, 2021

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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)

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56 “Lateral buckling and mosaic formation in simplysupported 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

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51 "Overview of Graphene Polymer Composites with emphasis on current developments", Costas Galiotis, ECCM18, Athens, Greece 24-28th June 2018

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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 Giovana 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 MoS2 crystals", Antonios Michail, Dimitris Anestopoulos, Labrini Sygellou, John Parthenios, Costas Galiotis, Meganne Christian, Luca Ortolani, Vittorio Morandi, Konstantinos Papagelis, Graphene 2018 Dresden, Germany, 26-29th June 2018

44 "Interface investigation of cfrp and cfr hybrid polymer composites", Nikos Koutroumanis, Anastasios C. Manikas, Panagiotis Nektarios Pappas and Costas Galiotis, ECCM18 - 18th European Conference on Composite Materials, Athens, Greece, 24-28th June 2018, (poster presentation)

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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)

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35 "Controlled CVD synthesis of single-and few-layered MoS2 crystals", A. Michail, D. Anestopoulos, N. Delikoukos, J. Parthenios, C. Galiotis, K. Papagelis, GRAPHENE 2017, 28-31 March (2017), Barcelona, Spain, (poster presentation)

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32 “Synthesis and Characterization of 3-arm star PMMAs Bearing Pyrene Units as Dispersing Agents of Graphene”, K.D. Papadimitriou, S. Gkermpoura, I. Polyzos, C. Galiotis, C. Tsitsilianis, 11th Hellenic Polymer Society International Conference, Heraklion Crete, November 3-5, 2016, (poster presentation)

31 “Stress Transfer Mechanisms for Graphene/Polymer Systems”, G. Anagnostopoulos, M-G Pastore Carbone, Ch. Androulidakis, A. C. Manikas, J.Parthenios, K. Papagelis, C. Galiotis, 11th Hellenic Polymer Society International Conference, 3-5 November (2016), Heraklion, Greece

30 “From graphene to carbon fibres: mechanical properties and stress transfer in composites”, C. Galiotis, ICAutoC 2016, 21-23 September (2016) Lisboa, Portugal

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APPENDIX X

<u>Non-Refereed Proceedings (Chronological Order)</u>

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99 "Bilayer graphene under uniaxial tension: A Raman study". Otakar Frank, Georgia Tsoukleri, John Parthenios, Kostas Papagelis, Ibtsam 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, Ibtsam 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)

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