

List of publications

1. Refereed Journal Papers (Chronological Order)

- 213 “*Thermomechanical behaviour of hexagonal boron nitride at elevated temperatures*”, by, Androulidakis Charalampos and Galiotis Costas, *2D materials*, **7**, Issue: 4, Article Number: 045011, October 2020
(doi: 10.1088/2053-1583/ab9ea5)
- 212 “*Mechanical, Electrical, and Thermal Properties of Carbon Nanotube Bucky Papers/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, September 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, Seremetis Lambros, Koukaras Emmanuel N., Alexandri Sotiria, Michail Antonis, Kalosakas George, Parthenios John, Galiotis Costas, Tsirkas Sotirios, Grammatikopoulos Spyridon and Papagelis Konstantinos, *JOURNAL OF PHYSICAL CHEMISTRY C*, **124**, Issue: 22, 12134-12143, Jun 4 2020
(doi: 10.1021/acs.jpcc.0c01029)
- 209 “*Porous carbon nanotube networks and pillared graphene materials exhibiting high SF₆ adsorption uptake and separation selectivity of SF₆/N₂ fluid mixtures: A comparative molecular simulation study*”, by, Ioannis Skarmoutsos, Emmanuel N. Koukaras, Costas Galiotis, George E. Froudakis and Emmanuel Klontzas, *Microporous and Mesoporous Materials*, in press
- 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
(doi: 10.1038/s41467-020-15446-y)
- 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
(doi.org/10.1088/1361-665X/ab6026)
- 204 “*Fabrication and Electrochemical Properties of Three-Dimensional (3D) Porous Graphitic and Graphenelike Electrodes Obtained by Low-Cost Direct Laser Writing Methods*”, by, Burke Micheal, Larrigy Cathal, Vaughan Eoghan, Paterakis George, Sygellou Labrini, Quinn Aidan J., Herzog Gregoire, Galiotis Costas and Iacopino Daniela, *acs omega*, **5**, Issue: 3, 1540-1548, January 2020

- (doi: 10.1021/acsomega.9b03418)
- 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)
- 201 “Stress-transfer from polymer substrates to monolayer and few-layer graphenes”, by, Androulidakis C , Surlantzis D, Koukaras EN, Manikas AC, and Galiotis C, *Nanoscale advances*, **1**, Issue: 12 4972-4980, December 2019
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- 200 “Effect of Carbon Support on the Electrocatalytic Properties of Pt-Ru Catalysts”, by, Hasa Bjorn, Martino Eftychia, Vakros John, Trakakis George, Galiotis Costas and Katsaounis Alexandros, *Chemelectrochem*, **6**, 4970 – 4979, October 2019
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- 198 “Stress transfer at the nanoscale on graphene ribbons of regular geometry”, by, A. C. Manikas, M. G. Pastore Carbone, C. R. Woods, Y. Wang, I. Souli, G. Anagnostopoulos, M. Hadjinicolaou, K. S. Novoselovc and C. Galiotis, *Nanoscale*, **11**, 14354 – 14361, July 2019
(doi: 10.1039/C9NR03166A)
- 197 “Production and Mechanical Characterization of Graphene Micro-Ribbons”, by, Maria Giovanna Pastore Carbone, Georgia Tsoukleri, Anastasios C. Manikas, Eleni Makarona, Christos Tsamis and Costas Galiotis, *Journal of Composites Sciences*, **3**, Issue:42, April 2019
(doi.org/10.3390/jcs3020042)
- 196 “Investigation of charges-driven interactions between graphene and different SiO₂ surfaces”, by, Pantano Maria F., Iacob Erica, Picciotto, Antonino, Margesin, Benno, Centeno, Alba, Zurutuza, Amaia, Galiotis Costas, Pugno, Nicola M. and Speranza Giorgio, *Carbon*, **148**, 336-343, 2019
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- 195 “Mosaic pattern formation in exfoliated graphene by mechanical deformation”, by, Maria Giovanna Pastore Carbone, Anastasios Manikas, Ioanna Souli, Christos Pavlou, and Costas Galiotis, *Nature Communications*, **10**, Article Number: 1572, April 2019
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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
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- 193 “Benchmarking of graphene-based materials: real commercial products versus ideal graphene” by, Kovtun Alessandro, Treossi Emanuele, Mirota Nicola, Scida Alessandra, Liscio Andrea, Christian Meganne, Valorosi

- Filippo, Boschi Alex, Young Robert, Galiotis Costas, Kinloch Ian, Morandi Vittorio and Palermo Vincenzo, *2D Materials*, **6**/ 2, 025006, 2019 (doi. 10.1088/2053-1583/aafc6e)
- 192 “Enhancing the adhesion of graphene to polymer substrates by controlled defect formation” by, Anagnostopoulos George, Sygellou Labrini, Paterakis George, Polyzos Ioannis, Aggelopoulos Christos and Galiotis Costas. *Nanotechnology*, **30**, 1, 015704, 2019 (doi. 10.1088/1361-6528/aae683)
- 191 “3-Arm star pyrene-functional PMMAs for efficient exfoliation of graphite in chloroform: fabrication of graphene-reinforced fibrous veils” by, Gkempoura Sandra, Papadimitriou Konstantinia D., Skountzos Emmanuel N., Polyzos Ioannis, Carbone Maria Giovanna Pastore, Kotrotsos Athanasios, Mavrantzas Vlasias G., Galiotis Costas and Tsitsilianis Constantinos, *Nanoscale*, **11**, 3, 915-931, Jan 2019, (doi. 10.1039/c8nr06888g)
- 190 “Strain Engineering in Highly Wrinkled CVD Graphene/Epoxy Systems” by, Anagnostopoulos G, Paterakis G, Polyzos I, Pappas PN, Kouroupis-Agalou K, Mirotta N, Scida A, Palermo V, Parthenios J, Papagelis K and Galiotis C, *ACS Applied Materials & Interfaces*, **10**, 49, 43192-43202, 2018 (doi. 10.1021/acsami.8b14698)
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- 187 “Controllable, eco-friendly, synthesis of highly crystalline 2D-MoS₂ and clarification of the role of growth-induced strain” by Michail Antonios, Parthenios John, Anestopoulos Dimitris, Galiotis Costas, Christian Meganne, Ortolani Luca, Morandi Vittorio, and Papagelis Konstantinos, *2D Materials*, **5**, 035035, 2018 (doi. 10.1088/2053-1583/aac610)
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- 184 “A novel mild method for surface treatment of carbon fibres in epoxy-matrix composites” by Koutroumanis Nikos, Manikas Anastasios, Pappas Panagiotis-Nektarios, Petropoulos Faidonas, Sygellou Lamprini, Tasis Dimitrios, Papagelis Kostas, Anagnostopoulos George, and Galiotis Costas, *Composites Science And Technology*, **157**, 178-184, 2018 (doi. 10.1016/j.compscitech.2018.01.048)
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- 181 “Evaluating arbitrary strain configurations and doping in graphene with Raman spectroscopy” by Niclas Mueller, Sebastian Heeg, Miriam Peña Alvarez, Patryk Kusch, Sören Wasserroth, Nick Clark, Fred Schedin, John Parthenios, Konstantinos Papagelis, Costas Galiotis, Martin Kalbác, Aravind Vijayaraghavan, Uwe Hübner, Roman Gorbachev, Otakar Frank and Stephanie Reich, *2D Materials*, **5**, 1, 015016, 2018 (doi.org/10.1088/2053-1583/aa90b3)

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- 31 "Modelling of Stress Transfer in Fibre Composites" by F.J. Guild, C. Vlattas and C. Galiotis, Composites Science & Technology, **50**, 319-332, 1994

- 30 *"Environmental Degradation Studies of the Interface in Single-Filament Graphite/ Epoxy Composites Using Laser Raman Spectroscopy"* by M.S. Amer, M.J. Koczak, C. Galiotis, L.S. Schadler, *Advanced Composites Letters*, **3/1**, 17-20, 1994
- 29 *"Deformation Behaviour of Liquid Crystal Polymer fibres: Part 1. Converting spectroscopic data into mechanical stress-strain curves in tension and compression"* by C. Vlattas and C. Galiotis, *Polymer*, **35/11**, 2335-2347, 1994
- 28 *"Monitoring the Micromechanics of Reinforcement in Carbon fibre/ epoxy resin systems"* by N. Melanitis, C. Galiotis, P. L. Tetlow and C.K.L. Davies, *Journal of Materials Science*, **28**, 1648-1654, 1993
- 27 *"Interfacial Shear Stress Distribution in Model Composites; Part 3, The Effect of Fibre Modulus"*, by C. Galiotis, P.L. Tetlow and C.K.L. Davies, *Composites*, **24/6**, 459-466, 1993
- 26 *"Stress-Transfer Characteristics in Model Composites"* by C. Galiotis, *Composite Interfaces*, **1/4**, 321-336, 1993
- 25 *"A Study of Mechanisms of Stress-Transfer in Continuous and Discontinuous Fibre Model Composites Using Laser Raman Spectroscopy"* by, C. Galiotis, *Composites Science & Technology*, **48**, 15-28:, 1993
- 24 *"Strain Mapping in Aramid/ Epoxy Microcomposites"* by K. M. Atallah and C. Galiotis, *Composites*, **24/8**, 635-642, 1993
- 23 *"Interfacial Micromechanics Using Laser Raman Spectroscopy"* by N. Melanitis and C. Galiotis, *Proc. of Royal Soc.-A*, **440**, 379-398, 1993
- 22 *"Residual Stress Distribution in Carbon Fibre/ Thermoplastic Matrix Pre-impregnated Composite Tapes"* by C.D. Filiou, C. Galiotis and D.N. Batchelder, *Composites*, **28/1**, 28-37, 1992
- 21 *"Interfacial Studies on Carbon/ Thermoplastic Model Composites Using Laser Raman Spectroscopy"* by L.S. Schadler, N. Melanitis, C. Galiotis, J.C. Figueroa and C. Laird, *J. Mater. Sci.*, **27/6**, 1663-1671, 1992
- 20 *"Interfacial Shear Stress Distribution in Model Composites; Part 2, Fragmentation studies on Carbon Fibre/ Epoxy system"* by N. Melanitis, C. Galiotis, P. L. Tetlow and C.K.L. Davies, *Journal of Composite Materials*, **26**, 574-610, 1992
- 19 *"Phase Transformation around Indentations in Zirconia"* by M.J. Reece, P.L. Tetlow and C. Galiotis, *Journal Materials Science-Letters*, **11**, 575-577, 1992
- 18 *"Interfacial Shear Stress Distribution in Model Composites; Part 1, A Kevlar 49 fibre in an Epoxy Matrix"* by H. Jahankhani and C. Galiotis, *Journal of Composite Materials*, **25**, 609-631, 1991
- 17 *"The study of Model Polydiacetylene/ Epoxy Composites; Part 3. The Effect of Volume Fraction"* by I.M. Robinson, C. Galiotis, D.N. Batchelder and R.J. Young, *Journal of Materials Science*, **26/9**, 2293-2299, 1991
- 16 *"Monitoring the Behaviour of Polymer Fibres under Axial Compression"* by C. Vlattas and C. Galiotis, *Polymer*, **32/10**, 1788-1793, 1991
- 15 *"Interfacial Studies on Model Composites Using Laser Raman Spectroscopy"* by C. Galiotis, *Composites Science and Technology*, **42**, 125-150, 1991
- 14 *"Compressional Behaviour of Carbon Fibres: Part 1; A Raman Spectroscopic Study"* by N. Melanitis and C. Galiotis, *Journal of Materials Science*, **25/12**, 5081-5090, 1990
- 13 *"Strain Dependences of the First and Second Order Raman Spectra of Carbon Fibres"*, by C. Galiotis and D. N. Batchelder, *Journal of Materials Science- Letters*, **7**, 545-547, 1988
- 12 *"Residual Strain Mapping in Carbon Fibre/PEEK Composites"* by C. Galiotis, N. Melanitis, D. N. Batchelder, I. M. Robinson and J. A. Peacock, *Composites*, **4**, 321-324, 1988
- 11 *"Chain Stretching in Aramid Fibres"* by S. Van der Zwaag, M. G. Northolt, R. J. Young, I. M. Robinson, C. Galiotis and D. N. Batchelder, *Polymer Communications*, **28**, 276-277, 1987
- 10 *"The Study of Model Polydiacetylene/Epoxy Composites Part 2"*, by I.M. Robinson, R.J. Young, C. Galiotis and D. N. Batchelder, *Journal of Materials Science*, **22**, 3642-3646, 1987

- 09 "Strain Dependence of the Raman Frequencies for Different Types of Carbon Fibres", by I. M. Robinson, M. Zakhikani, R. J. Day, R. J. Young and C. Galiotis, *Journal of Materials Science-Letters*, **6**, 1212-1214, 1987
- 08 "Stress Induced Twinning of Polydiacetylene Single Crystal Fibres in Composites" by I. M. Robinson, P. H. Yeung, C. Galiotis, R. J. Young and D. N. Batchelder, *Journal of Materials Science*, **21**, 3440-3444, 1986
- 07 "Strain Dependence of the Raman Frequencies of a Kevlar 49 Fibre" by C. Galiotis, I.M. Robinson, R.J. Young, B.J.E. Smith and D.N. Batchelder, *Polymer Communications*, **26**, 354-355, 1985
- 06 "High Modulus Polydiacetylene Single Crystal Fibres" by C. Galiotis, R. T. Read, P. H. J. Yeung and R. J. Young, *Journal of Polymer Science: Polymer Physics Edition*, **22**, 1589-1606, 1984
- 05 "The Study of Model Polydiacetylene/Epoxy Composites, Part 1. The Axial Strain in the Fibre" by C. Galiotis, R. J. Young, P. H. Yeung and D. N. Batchelder, *Journal of Materials Science*, **19**, 3640-3648, 1984
- 04 "A Resonance Raman Spectroscopic Study of the Strength of the Bonding Between an Epoxy Resin and a Polydiacetylene Fibre" by C. Galiotis, R.J. Young and D.N. Batchelder, *Journal of Materials Science- Letters*, **2**, 263-266, 1983
- 03 "Solid-State Polymerisation and Physical Properties of Bis(ethyl urethane) of 2,4-hexadiyne-1,6-diol, Part III: Mechanical Properties" by C. Galiotis, R.J. Young, *Polymer*, **24**, 1023-1030 1983
- 02 "Solid-State Polymerisation and Physical Properties of Bis(ethyl urethane) of 2,4-hexadiyne-1,6-diol, Part II: Resonant Raman Spectroscopy" by C. Galiotis, R.J. Young and D.N. Batchelder, *Journal of Polymer Science: Polymer Physics Edition*, **21/12**, 2483-2494, 1983
- 01 "Solid-State Polymerisation and Physical Properties of Bis(ethyl urethane) of 2,4-hexadiyne-1,6-diol, Part I: Crystal Modification and Polymerisation Kinetics" by C. Galiotis, R.J. Young, D.J. Ando and D. Bloor, *Macromolekulare Chemie*, **184**, 1083-1095, 1983

2. 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.

3. 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. Kointzoglou, 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).

4. Granted Patents

- P1. "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).
- P2. "Truss Structured Heavy Duty Composite Bridge", GR patent No. 1003936, issued on 5/7/2002.
- P3. "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.

5. Conference Presentations

2020	<ul style="list-style-type: none"> • Graphchina 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	<ul style="list-style-type: none"> • 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 • Graphchina 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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, 28-31 March, Barcelona, Spain, INVITED
2016	<ul style="list-style-type: none"> • 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) Warsaw, Poland • Graphene 2016- Genova 19-22 April 2016, INVITED PLENARY
2015	<ul style="list-style-type: none"> • 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 NSCF, Athens, Greece “Mechanical deformation of graphene and graphene-based nanocomposites”
2014	<ul style="list-style-type: none"> • 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, Lanzarote, Spain, February 18-24, topic: “Interfaces in Graphene Polymer Composites”
2013	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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”.

	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 Polystyrene 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	<ul style="list-style-type: none"> • Nanofun, Alicante, Spain, topic: Nanocomposites- INVITED PLENARY • Polymers Fibres-International, Manchester, "Stress sensing in smart composites". • Nanofun-International, Alicante, Spain, "Block Copolymers"
2007	<ul style="list-style-type: none"> • NANOCNF-International, Corfu, Greece • EUROMAT-International, Nuremberg, Germany
2006	<ul style="list-style-type: none"> • Nanofun-International, San Sebastian, "Block Copolymers" - INVITED PLENARY • ECCM 12-International, Biarritz, France • 16th European Conference on Fracture- International, Alexandroupolis, Greece • MCM-International, Riga, Latvia
2005	<ul style="list-style-type: none"> • Conf. on Micromechanics and Microstructure Evolution-International, Madrid, Spain • IIMM'05-International, Lyon, France, "Adaptive Composites"
2004	<ul style="list-style-type: none"> • ECCM 11-International, Rhodes, Greece
2002	<ul style="list-style-type: none"> • ECCM 10-International, Brugge, Belgium, "Interface -Smart composites"
2001	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • ECCM9- International, Brighton (UK), "SMA composites –Fatigue -Angle Ply composites" • Composites Gordon Conf- International, Ventura, CA (USA), "SMA composites" - INVITED PLENARY
1999	<ul style="list-style-type: none"> • ICCM-12- International, Paris, France, "Interface"
1998	<ul style="list-style-type: none"> • 5th Mechanics Conference, Ioannina, Greece, 'Smart' Measurements • ECCM8-International, Napoli, Italy, "Non-destructive testing of composites" • ICCI-7- International, Shonan, Japan, "Interfacial Micromechanics"
1997	<ul style="list-style-type: none"> • 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 Characteristics of Composites"

1996	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Fiber Soc.- International, Atlanta, Georgia, "Fibres" • ASTM- International, Phoenix, USA, "Fracture and interfaces" - INVITED PLENARY • MCM-II-International, Oxford, UK, "LRS on Composites"
1993	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • IPCM89-International, Sheffield, UK, "Interfaces" • Pol. Phys-National, Reading, UK, "Compression" • ECCM3-International, Bordeaux, France, "Composites"
1988	<ul style="list-style-type: none"> • Comp88-International, Patras, Greece, "NDT" • ICCI2-International, Cleveland, USA, "Interfaces"
1987	<ul style="list-style-type: none"> • ComSym-International, Zaragoza, Spain, "New Fibres" • Polym. Physics, Reading, UK, "Raman Spectr." • ICCM-7-International, London, UK, "NDT"
1986	<ul style="list-style-type: none"> • Comp86-International, Patras, Greece, "Kevlar Comp."
1985	<ul style="list-style-type: none"> • Churchill-National, Cambridge, UK, "Polydiacetylenes"
1983	<ul style="list-style-type: none"> • Pol. Phys-National, Reading, UK, "Fibres"