

C U R R I C U L U M V I T A E

P e r s o n a l D a t a

Surname **Georgakilas**
Name **Vasileios**
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R e s e a r c h & T e a c h i n g A p p o i n t m e n t s

- 2010- Elected as Assistant Professor at the Material Science Department of the University of Patras at the field of "*Synthesis of functional microstructured/nanostructured or/and molecular or/and biomolecular materials*".
- 2004 - Chemist in the Institute of Food Hygiene of the Ministry of Agricultural Development and Food of Greece.
- 2002- Research Associate at the Institute of Material Science, N.C.S.R "Demokritos".
Teacher with contract (Basic & Inorganic Chemistry) in the Technological Educational Institute of Athens (Greece).
- 2000 – 2002 Post-doctoral researcher at the Department of Pharmaceutical Sciences, University of Trieste (Italy).
- 1999 - 2000 Post-doctoral researcher at the Institute of Material Science, N.C.S.R "Demokritos".
Teacher with contract (Basic Chemistry, Chemistry-fuels-lubricants) at the Hellenic Air Force Academy (Athens – Greece).
- 1997 - 1999 Teacher with contract (Basic Chemistry) in the Technological Educational Institute of Kalamata (Greece).

A c a d e m i c S t u d i e s

- 1990 - 1995 PhD Thesis in Organic Chemistry - University of Ioannina, School of Science, Department of Chemistry.
- 1985 -1989 Basic studies: University of Ioannina, School of Science, Department of Chemistry.

R e s e a r c h - P r o f e s s i o n a l e x p e r i e n c e

- University of Ioannina, School of Science, Dept. of Chemistry, Lab of Organic Chemistry. (1990 – 1995). **PhD Thesis title: Photodissociation of para-arylmethyl derivatives of benzophenone. Synthesis and study with EPR spectroscopy and pulse laser photolysis**" Supervisor: **A. Zarkadis**, Associate Professor.
- N.C.S.R "Demokritos", Laboratory of layered and nanostructured material, Institute of Material Science. (1999 – 2000). Post-doctoral fellow in PENED program "**Modification of betonite and perlite for the removal of toxic organic pollutants and heavy metals**".
- University of Trieste, Laboratory of Organic Chemistry, Dept of Pharmaceutical Science (2000–2002). Post-doctoral fellow in the RTN (Research Training Network) European program "**FUNCARS – Chemical modification of Carbon Nanotubes**". Supervisor: **Maurizio Prato**, Professor.
- N.C.S.R "Demokritos", Institute of Material Science, Laboratory of layered and nanostructured material. (2002 – 2004). Research associate in the frame of ENTER program "**Synthesis of carbon nanotubes in aluminosilicate fossils and its applications**".

• Ministry of Agricultural Development and Food of Greece, Institute of Food Hygiene, Laboratory of residue analysis (2004 -). Chemist, responsible for the determination of organic residues in food and the development of analytical methods for the determination of drugs, organic pollutants, pesticides as residues in food stuff.

P u b l i c a t i o n s

59 articles in scientific journals (2 of them review article and 1 invited feature article) which have been cited more than 2200 times (*h* factor: 22). 1 european patent, 13 articles in conference proceedings.

a) in Scientific Journals.

- 2010 [59] Fullerol ionic fluids.** N. Fernandes, P. Dallas, R. Rodriguez, A. Bourlinos, V. Georgakilas, E. Giannelis, *Nanoscale*, **2010**, 2(9) 1653-1656.
- [58] Organic functionalisation of graphenes.** V. Georgakilas, A.B. Bourlinos, R. Zboril, T. Steriotis, P. Dallas, A.K. Stubos, C. Trapalis, *Chem. Commun.*, **2010**, 46, 1766–1768.
- [57] Chemical Functionalization of Ultrathin Carbon Nanosheets.** V. Georgakilas, *Fullerenes, Nanotubes and Carbon Nanostructures*, **18**: 87-95, 2010.
- 2009 [56] Aqueous-phase exfoliation of graphite in the presence of polyvinylpyrrolidone for the production of water-soluble graphenes.** A.B. Bourlinos, V. Georgakilas, R. Zboril, T.A. Steriotis, A.K. Stubos, C. Trapalis, *Solid State Commun.*, **2009**, 149, 2172-2176.
- [55] Liquid-phase Exfoliation of Graphite Towards Solubilized Single Graphenes.** A.B. Bourlinos, V. Georgakilas, R. Zboril, T.A. Steriotis, A. Stubos, *Small*, **2009**, 5, 1841-45.
- [54] Direct synthesis of carbon nanosheets by the solid-state pyrolysis of betaine.** A.B. Bourlinos, T.A. Steriotis, R. Zboril, V. Georgakilas, A. Stubos, *Journal of Materials Science*, **2009**, 44, 1407–1411.
- [53] Pyrolytic formation and photoluminescence properties of a new layered carbonaceous material with graphite oxide-mimicking characteristics.** A.B. Bourlinos, V. Georgakilas, R. Zboril, A. Bakandristos, A. Stassinopoulos, D. Anglos, E.P. Giannelis, *Carbon*, **2009**, 47 (2), 519-526.
- [52] Polypyrrole/MWNT nanocomposites synthesized through interfacial polymerization.** V. Georgakilas, P. Dallas, C. Trapalis, N. Boukos, D. Niarchos *Synthetic Metals*, **2009**, 159, 7-8, 632-636.
- 2008 [51] Novel nanohybrids derived from the attachment of FePt nanoparticles on carbon nanotubes.** T. Tsoufis, A. Tomou, D. Gournis, I. Panagiotopoulos, B. Kooi, V. Georgakilas, A.P. Douvalis, T. Bakas, *J. Nanosc. Nanotech.*, **2008**, 8 (11), 5942-5951.
- [50] Easy deposition of amorphous carbon films on glass substrates.** A.B. Bourlinos, V. Georgakilas, R. Zboril, *Carbon*, **2008**, 46 (13), 1801-1804.
- [49] Reaction of graphite fluoride with NaOH-KOH eutectic.** A.B. Bourlinos, V. Georgakilas, R. Zboril, D. Jancik, M.A. Karakassides, A. Stassinopoulos, D. Anglos, E.P. Giannelis, *Journal of Fluorine Chemistry*, **2008**, 129 (8), 720-724.
- [48] Photoluminescent Carbogenic Dots.** A.B. Bourlinos, A. Stassinopoulos, D. Anglos, R. Zboril, V. Georgakilas, E.P. Giannelis, *Chem. Mater.*, **2008**, 20 (14), 4539-4541.
- [47] Multi-Purposed Organically Modified Carbon Nanotubes: From functionalization to nanotube composites.** V. Georgakilas, A. Bourlinos, D. Gournis, T. Tsoufis, C. Trapalis, A. Mateo Alonso, M. Prato, *J. Am. Chem. Soc.*, **2008**, 130 (27), 8733-8740.
- [46] A general chemical route for the synthesis of capped nanocrystalline materials.** V. Tzitzios, V. Georgakilas, I. Zafiropoulou, N. Boukos, G. Basina, D. Niarchos and D. Petridis, *J. Nanosci. Nanotechnol.*, **2008**, 8 (6), 3117-3122.
- [45] Synthesis, Characterization and Aspects of Superhydrophobic Functionalized Carbon Nanotubes.** V.

Georgakilas, AB, Bourlinos, R. Zboril, C. Trapalis, *Chem. Mater.*, 2008, 20, 2884–2886.

- 2007 [44] Preparation of a water-dispersible carbon nanotube-silica hybrid.** A.B. Bourlinos, V. Georgakilas, R. Zboril, P. Dallas, *Carbon*, 2007, 45, 2126–2139.
- [43] Decorating Carbon Nanotubes with Metal or Semiconductor Nanoparticles.** V. Georgakilas, D. Gournis, V. Tzitzios, L. Pasquato, DM. Guldi, M. Prato, (*Invited Feature Article*) *J. Mater. Chem.*, 2007, 17, 2679–2694.
- [42] Large-Scale Synthesis, Size Control, and Anisotropic Growth of Fe₂O₃ Nanoparticles: Organosols and Hydrosols.** V.K. Tzitzios, A. Bakandritsos, V. Georgakilas, G. Basina, N. Boukos, A.B. Bourlinos, D. Niarchos, and D. Petridis, *J. Nanosci. Nanotechnol.*, 2007, 7, 2753–2757.
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- [40] Sorption Properties of Soluble Single-Walled Carbon Nanotubes.** E.C. Vermisoglou, V. Georgakilas, E. Kouvelos, G. Pilatos, G. Romanos, N. Kanellopoulos, *Mesoporous & Microporous Materials*, 2007, 99, 98-105.
- 2006 [39] Functionalized Carbon Nanotubes with Liquid-like Behavior: Access to Meltable and Amphiphilic Derivatives.** A. Bourlinos, V. Georgakilas, V. Tzitzios, N. Boukos, D. Petridis, R. Herrera, E. Giannelis, *Small*, 2006, 2, 1188 – 1191.
- [38] The photo-Fries rearrangement of 9-trimethylsilyl substituted xanthenes.** M.G. Siskos, A.K. Zarkadis, P.S. Gritzapis, O. Brede, R. Hermann, V.S. Melissas, G.G. Gurzadyan, A.S. Triantafyllou, V. Georgakilas, *J. Photoch. & Photobiol. A: Chemistry*, 2006, 182, 17–27.
- [37] Chemical synthesis and characterization of hcp Ni nanoparticles.** V. Tzitzios, G. Basina, M. Gjoka, V. Alexandrakis, V. Georgakilas, D. Niarchos, N. Boukos, D. Petridis, *Nanotechnology*, 2006, 17, 3750-3755.
- [36] Facile synthesis of capped γ -Fe₂O₃ and Fe₃O₄ nanoparticles.** AB. Bourlinos, A. Bakandritsos, V. Georgakilas, V. Tzitzios, D. Petridis, *J. Mater. Sci.*, 2006, 41, 5250–5256.
- [35] Synthesis and Characterization of Monodispersed Rhodium Nanoparticles Organized in 3-D Symmetrical Structures Soluble in Organic Media.** V. Tzitzios, V. Georgakilas, D. Niarchos, D. Petridis, *J. Nanosci & Nanotechnol*, 2006, 6, 2081-2083.
- [34] Clay-fulleropyrrolidine nanocomposites.** D. Gournis, L. Jankovic, E. Maccallini, D. Benne, P. Rudolf, C. Sooambar, V. Georgakilas, M. Prato, M. Fanti, F. Zerbetto, GH. Sarova, DM. Guldi, *J. Am. Chem. Soc.*, 2006, 128, 6154-6163.
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- 2005 [31] Thermal stripping of supramolecular structures: C₆₀ nanorods.** M. Mannsberger, A. Kukovecz, V. Georgakilas, J. Rechthaler, J. Schalko, F. Hasi, G. Allmaier, M. Prato, H. Kuzmany, *J. Nanosci. Nanotechnol.*, 2005, 5, 198-203.
- [30] Triplet- vs. singlet-state imposed photochemistry. The role of substituent effects on the photo-Fries and photodissociation reaction of triphenylmethyl silanes.** A.K. Zarkadis, V. Georgakilas, G.P. Perdikomatis, A. Trifonov, G.G. Gurzadyan, S. Skoulika, M.G. Siskos, *Photochem. Photobiol. Sci.*, 2005, 4, 469 – 480.
- [29] Catalytic reduction of N₂O with CH₄ and C₃H₆ over Ag–Rh/Al₂O₃ bimetallic catalyst in the presence of oxygen.** V. Tzitzios, V. Georgakilas, V. Angelidis, *J. Chem Technol Biotechnol*, 2005, 80: 699–704.
- [28] Catalytic reduction of N₂O over Ag–Pd/Al₂O₃ bimetallic catalysts.** V. Tzitzios, V. Georgakilas, *Chemosphere*, 2005, 59, 887–891.
- [27] Nanoscale Organization of a Phthalocyanine-Fullerene System: Remarkable Stabilization of Charges in Photoactive 1-D Nanotubules.** D.M Guldi, A. Gouloumis, P. Vazquez, T. Torres, V. Georgakilas, M. Prato, *J. Am.*

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[26] Attachment of magnetic nanoparticles on carbon nanotubes and their soluble products. V. Georgakilas, V. Tzitzios, D. Gournis, D. Petridis, *Chem. Mater.*, 2005, 17, 1613-1617.

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2004 [24] Incorporation of fullerene derivatives into smectite clays: A new family of organic – inorganic nanocomposites. D. Gournis, V. Georgakilas, M.A. Karakassides, T. Bakas, K. Kordatos, M. Prato, M. Fanti, F. Zerbetto, *J. Am. Chem. Soc.*, 2004, 126: 8561-8568.

[23] Scanning Probe Microscopy and Spectroscopy of Carbon Nanorods grown by Self Assembly. M. Mannsberger, A. Kukovecz, V. Georgakilas, J. Rechthaler, F. Hasi, G. Allmeier, M. Prato, H. Kuzmany, *Carbon* 2004, 42(5-6), 953-960.

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[21] Functionalised Single Wall Carbon Nanotubes/Polypyrrole Composites for the Preparation of Amperometric Glucose Biosensors. A. Callegari, S. Cosnier, M. Marcaccio, D. Paolucci, F. Paolucci, V. Georgakilas, N. Tagmatarchis, E. Vasquez, M. Prato, *J. Mat. Chem.*, 2004, 14, 807-810.

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2003 [19] Organic functionalization and optical properties of carbon onions. V. Georgakilas, D.M. Guldi, R. Signorini, R. Bozio, M. Prato, *J. Am. Chem. Soc.*, 2003, 125: 14268-69.

[18] Soluble Carbon Nanotubes (Review), D. Tasis, N. Tagmatarchis, V. Georgakilas, M. Prato, *Chem. Eur. J.*, 2003, 9, 4001-4008.

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[15] Supramolecular Organized Structures of Fullerene-Based Materials and Organic Functionalization of Carbon Nanotubes (Review article) D. Tassis, N. Tagmatarchis, V. Georgakilas, M. Prato, *Comp. Red. Chim.*, 2003, 6, 597-602.

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2002 [13] Purification of carbon nanotubes via organic functionalization. V. Georgakilas, D. Voulgaris, E. Vazquez, M. Prato, D. Gouldi, A. Kukovecz, H. Kuzmany, *J. Am. Chem. Soc.*, 2002, 124, 14318-14319.

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[11] Microwave-Assisted Purification of HipCO carbon nanotubes. E. Vazquez, V. Georgakilas, M. Prato, *Chem. Comm.*, 2002, 2308-2309.

[10] Sidewall functionalization of Single-Wall carbon nanotubes through electrophilic addition. N. Tagmatarchis, V. Georgakilas, M. Prato, H. Shinohara, *Chem. Comm.*, 2002, 2010-2011.

[9] Surface modification of ultrafine magnetic iron oxide particles through ligand exchange reactions on capped $\gamma\text{-Fe}_2\text{O}_3$ nanocrystals. A. Bourlinos, A. Bakandritsos, V. Georgakilas, D. Petridis, *Chem. Mater.*, 2002, 14, 3226-3228.

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[6] Friedel-Crafts acetylation and benzylation of benzylsilanes and xanthenes. V. Georgakilas, G. Perdikomatis, A. Triantafyllou, M. Siskos, A. Zarkadis, *Tetrahedron*, 2002, 58, 2441-47.

[5] Organic Functionalization of Carbon Nanotubes. V. Georgakilas, K. Kordatos, M. Prato, D.M. Guldi, M. Holzinger, A. Hirsch, *J. Am. Chem. Soc.*, 2002, 124, 760.

2001 [4] Organo-clay derivatives in the synthesis of macrocycles. V. Georgakilas, D. Gournis, D. Petridis, *Angew. Chem. Int. Ed.*, 2001, 113, 4416-4418.

1994 [3] Novel versatile fullerene synthons. K. Kordatos, T. Da Ros, S. Bosi, E. Vazquez, M. Bergamin, C. Cusan, F. Pellarini, V. Tomberli, B. Baiti, D. Pantaroto, V. Georgakilas, G. Spalluto, M. Prato, *J. Org. Chem.*, 2001, 66, 4915-4920.

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[1] Determination of Airborne Aromatic and Polyaromatic Hydrocarbons in two Cities in North - Western Greece. I. Karanasios, V. Georgakilas, G. Pilidis, E. Lahaniatis, *Fresenius Envir. Bull*, 1994, 3:(8), 511-516.

b) European Patent.

[1] Purification process of carbon nanotubes V. Georgakilas, M. Prato. European patent with no WO2004013043, (2004-02-12), Cod of international rate C01B31/02.

c) Conference Proceedings.

[1] Photodissociation of the benzylic bond in arylmethyl derivatives of aniline and benzophenone: A Laser flash photolysis and ESR study. V. Georgakilas, A. Zarkadis, XVIII Intern. Conference on Photochemistry, Warsaw, Poland 1997.

[2] Photodissociation of the benzylic bond in arylmethyl derivatives of benzophenone: a laser flash photolysis and ESR study". A. Zarkadis, V. Georgakilas, D. Tassis, M. Siskos, S. Steenzen, 37th IUPAC Conference, Berlin, 1999,

[3] Synthesis of novel fullerene derivatives for material applications. V. Georgakilas, et al, "In Structural and Electronic Properties of Molecular Nanostructures"; Kuzmany, H., Fink, J., Mehring, M., Roth, S., Eds.; The Am Inst Phys: Woodbury, New York, Vol. 591, *AIP Conference Proceedings* 2001, pp 515-518.

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[5] Resonance Raman properties of pristine and intercalated HipCO Single Wall Carbon Nanotubes. Kukovecz, et al. "In Structural and Electronic Properties of Molecular Nanostructures"; Kuzmany, H., Fink, J., Mehring, M., Roth, S., Eds.; The Am Inst Phys: Woodbury, New York, Vol. 633; *AIP Conference Proceedings* 2002; pp 306-309.

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[9] **Fullerene-based morphologically organized superstructures and soluble functionalised carbon nanotubes materials.** Georgakilas V, et al. In *The Exciting World of Nanocages and Nanotubes*; Kamat, P., Guldi, D., Kadish, K., Eds.; *Electrochemical Society*: Pennigton, NJ, 2002; Vol. 12; pp 82-87.

[10] **Organic functionalization of carbon nanotubes with amino acids.** D. Pantarotto, V. Georgakilas, et al. *Nanobiotechnologies II*, 2003 Grenoble, France.

[11] **Catalytic synthesis of carbon nanotubes on clay minerals.** D. Petridis, D. Gournis, V. Georgakilas, M.A. Karakassides, NATO-Adv Study Inst (ASI) *Nanoeng Nanofibrous Materials*, 2003 Antalya, Turkey.

[12] **Integrating single wall carbon nanotubes into donor – acceptor nanohybrids.** D.M. Guldi, A. Raman, J. Ramey, N. Jux, V. Georgakilas, N. Tagmatarchis, M. Prato, *Proceedings – Electrochemical Society PV 2004 – 12*, 237-242.

[13] **Revealing the interparticle magnetic interactions of iron oxide nanoparticles – carbon nanotubes hybrid materials.** A.P. Douvalis, V. Georgakilas, T. Tsoufis, D. Gournis, B. Kooi, T. Bakas, *Journal of Physics: Conf Ser* 217 (1), art. No. 012093.

V a r i o u s

Foreign languages.

English (advanced level), Italian (lower level).

Referee to the following journals:

a) *Journal of American Chemical Society*, b) *Chemistry of Material*, *Langmuir*, c) *Journal of Physical Chemistry B*, (American Chemical Society),

d) *Nanotechnology*, e) *Semiconducting Science & Technology*, f) *Journal of Physics: Condensed Mater.*, g) *Journal of Physics: Applied Physics* (Institute of Physics Publishing),

h) *Journal of Mater Chemistry*, i) *Chemical Communication*, j) *Physical Chemistry Chemical Physics*, k) *Nanoscale* (Royal Chemistry Society).

Talks.

- 4th FUNCARS Meeting, Vienna, Austria, 2001. “*From Fullerenes to Carbon Nanotubes and Nanorods*”,
- 5th Reporting and discussion FUNCARS Meeting, Strasbourg, France, 2001, “*Novel nano materials*”,
- 6th FUNCARS Meeting, Fribourg, Swiss, 2002, “*Modifying Carbon Nanotubes*”,
- Institute of Physical Chemistry N.S.C.R “Demokritos” 2002, “*Chemistry of Nanostructured Materials*”
- 1^o Hellenic Congress of porous Materials, Ioannina 2003, “*Chemical Reactions in layered materials*”,
- Summer School 2003, Institute of Material Science, N.C.S.R “Demikritos” “*Nanostructured Carbon Materials*”.

Seminars – Schools.

- Educational Seminar FUNSPEC 2001, “An introductory Course to Solid State Spectroscopy” Vienna, Austria, 2001.

Presentations in Conferences.

- 6^o & 7th International Symposium “Environmental Pollution and its Impact on Life in the Mediterranean Region”, 1991 in Como – Italy & 1993 in Juan Les Pins - Antibes, France, organized by MESAEP.
- 15^o International Winterschool “Electronic Properties of Novel Materials (EURO Conference), 2001, Kirchberg, Austria.

- 16^o International Winterschool “Electronic Properties of Novel Materials (EURO Conference), 2002, Kirchberg, Austria. ‘‘Resonance Raman properties of pristine and intercalated HipCO Single Wall Carbon Nanotubes’’ & ‘‘Organic functionalization of carbon nanotubes’’.
- European Research Conference «Chemistry and Physics of Multifunctional Materials: from clever molecules to smart materials Euroconference», Tomar, Portugal, 11 to 16 September 2004. “Clays as ‘‘Acid Catalysts for Organic Derivatization of Single-Walled Carbon Nanotubes and its Intercalated Derivatives’’ D. Gournis, V. Georgakilas, L. Jankovic, M.A. Karakassides, K. Dimos, A. Bakandritsos and D. Petridis. “Incorporation of Fullerene Derivatives into Smectite Clays : A New Family of Organic - Inorganic Nanocomposites” C. Sooambar, M. Prato, D. Gournis, V. Georgakilas, M.A. Karakassides, T. Bakas, K. Kordatos, M. Fanti, F. Zerbetto, L. Jankovič, D. Benne, P. Rudolf.
- Vlieland 2005, biannual MSC/MSCplus meeting, Vlieland, The Netherlands, 29–31/05/2005, “Intercalation of a water-soluble fullerene bisadduct derivative into smectite clays” E. Maccallini, L. Jankovič, D. Gournis, D. Benne, J.-F. Colomer, C. Sooambar, V. Georgakilas, M. Prato, M. Fanti, F. Zerbetto, and P. Rudolf.
- CASSIUSCLAYS Network Meeting, Valletta, Malta, 9-12/6/2005, “Intercalation of a water-soluble fullerene bisadduct derivative into smectite clays: XPS and TEM investigation” E. Maccallini, L. Jankovič, D. Gournis, D. Benne, J.-F. Colomer, C. Sooambar, V. Georgakilas, M. Prato, M. Fanti, F. Zerbetto, and P. Rudolf.
- Workshop “Magnetic Nanoparticles: Challenges & Future Prospects”, 1 Lorentz Center, Leider, the Netherlands, 8-23 June 2007, “Decoration of Multi-Wall Carbon Nanotubes with FePt nanoparticles” T._Tsoufis, A. Tomou, D. Gournis, I. Panagiotopoulos, V. Georgakilas, B. Kooi, A. Douvalis and T. Bakas.

Reserch Interests

- Nanostructured Carbon materials (graphenes, nanotubes, fullerenes, new carbon allotropes). Chemical modification, new composite materials using polymers, metallic nanoparticles, organic molecules, chromophores.