

**Dr. A. B. Bourlinos**

**CV info 27/2/2024**



**Full name:** Athanasios (Thanos) B. Bourlinos

**Title:** Dr. (PhD in Chemistry)

**Date of birth:** 4/10/1973

**Place of birth:** Athens, Greece

**Citizenship:** Greek

**Job position:** Professor

**Organization:** University of Ioannina

**Location:** Ioannina 45110, Greece

**Department:** Physics

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thanosbourlinos@gmail.com

**Education:** PhD (1999-2002), MSc (1997-1999) and BSc (1991-1995) in Chemistry from University of Athens, Athens, Greece (1995-1997: mandatory military service of 18 months) (high-school diploma ΕΠΛ Ν. Philadelfeias 1988-1991)

- PhD thesis, 2002: Surface modification of MCM-41 porous silica with metal ions and magnetic iron oxide nanoparticles, Supervisor: Dr. D. Petridis, Institute of Materials Science, NCSR Demokritos, Athens, Greece
- MSc thesis, 1999: Synthesis and characterization of iron-substituted MCM-41 porous silica through cation exchange of the template, Supervisor: Dr. D. Petridis, Institute of Materials Science, NCSR Demokritos, Athens, Greece
- Undergraduate thesis, 1995: Polymerization of diphenylacetylene in the presence of the binuclear complex  $\text{Re}_2\text{Cl}_8^{2-}$  having a Re-Re quadruple bond, Supervisor: Prof. K. Mertis, Chemistry Department, University of Athens, Athens, Greece

**Honors:**

- Successive participation in three Panhellenic Student Chemistry Competitions-ΕΠΛ Ν. Philadelfeias
- Rewarded funds from the State Scholarships Foundation for 3<sup>rd</sup> rank achievement at university entrance exam from the Chemistry Department, Athens University, Greece
- Rewarded funds from the State Scholarships Foundation for 1<sup>st</sup> rank achievement in the Master's postgraduate program from the Chemistry Department, Athens University, Greece
- A three-year PhD scholarship from the Institute of Materials Science, NCSR Demokritos, Athens, Greece
- Most cited Greek scientists in "Tractatus for the sixth fame" by J. Ioannidis
- Top 2 % scientists in the world, Stanford's List (3)

- Top scientists in Materials Science based on Research.com (2)

***Professional experience:***

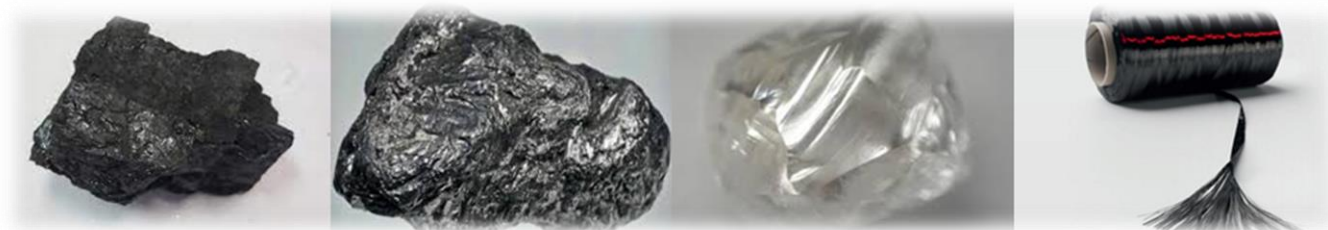
- 2024-to date: Professor at the Physics Department, University of Ioannina, Ioannina (Greece) (dedicated to the memory of my very beloved father Vasilis)
- 2020-2024: Associate Professor at the Physics Department, University of Ioannina, Ioannina (Greece)
- 2016-2020: Assistant Professor (tenure) at the Physics Department, University of Ioannina, Ioannina (Greece)
- 2012-2016: Assistant Professor (3-years appointment) at the Physics Department, University of Ioannina, Ioannina (Greece)
- 2011-2012: Research associate at the Physics Department, University of Ioannina, Ioannina (Greece) (Prof. R. Zboril)
- 2005-2011: Research associate at the Institute of Materials Science, NCSR Demokritos, Athens (Greece) (Dr. T. Steriotis, Dr. A. Stubos, Dr. G. Charalambopoulou)
- 2002-2004: Post-doctoral fellow at Materials Science and Engineering, Cornell University, Ithaca NY (USA) (Prof. E. P. Giannelis)
- 2002: Post-doctoral fellow at the Institute of Materials Science, NCSR Demokritos, Athens (Greece) (Dr. D. Niarchos)

***Subject area:***

Experimental solid state physics: electronic and magnetic properties of nanostructured solids

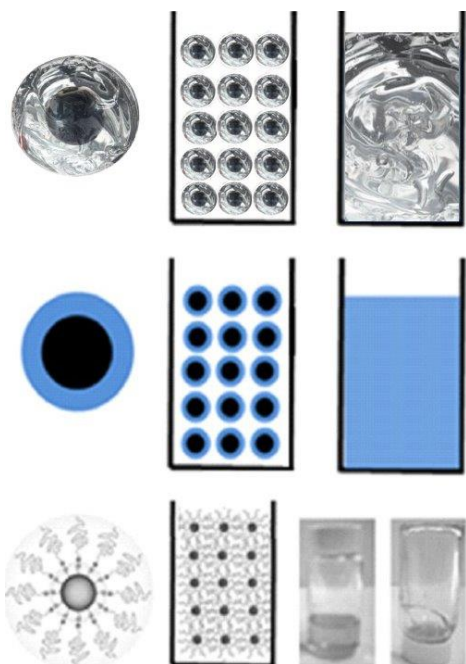
***Research interests:***

Synthesis or surface modification, physical characterization and magnetic/optical properties of nanoscale materials (porous, layered, nanoparticles) with emphasis on carbon nanostructures. Carbon materials of interest include amorphous carbon, carbon dots, nanodiamonds, fullerenes, carbon nanotubes, carbon nanocones, graphite and graphene/fluorographene derivatives. The studied properties pertain to magnetism, electrical conductivity, photoluminescence, non-linear optical response, catalysis, hypergolics, hydrogen storage, gas sorption, rheology, biomedical applications and environment



### Research highlights:

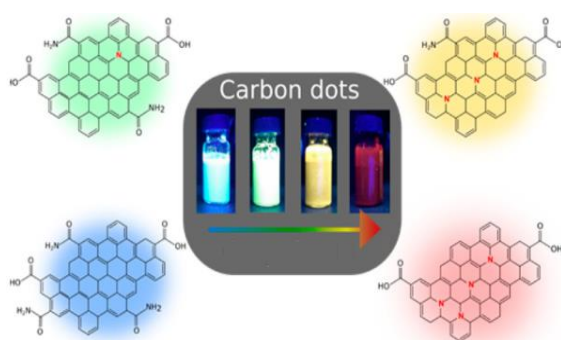
- *Surface-functionalized nanostructures with liquid-like behavior*



This is a radically new class of solvents, namely nanosolvents, which differentiate from common molecular solvents in that their basic unit is a surface functionalized nanostructure made up of a solid core (inorganic, carbonic, DNA, protein, virus, polymeric etc.) and a supported liquid organic shell or gel, the latter imparting fluidity to the system (Advanced Materials 2005, vol. 17, pp. 234-237; Applied Organometallic Chemistry 2010, vol. 24, pp. 581-589). Nanosolvents exhibit zero vapor pressure while combining fluidity with the physicochemical properties of a particular nanostructure. Our work has been marked and cited as a leading-edge research in the literature, including Nature (M. Peplow, Research highlights, Nature 2004, vol. 432, p. 688), Angew. Chem. (B. Smarsly, H. Kaper, Liquid inorganic-organic nanocomposites: novel electrolytes and ferrofluids,

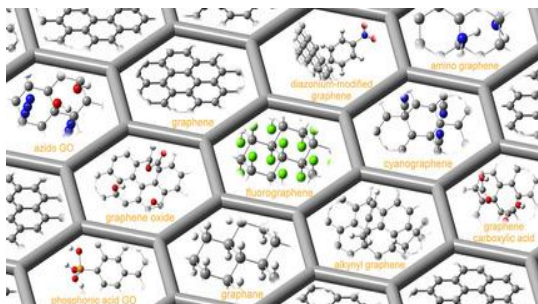
Angewandte Chemie International Edition 2005, vol. 44, pp. 3809-3811) and other notable review articles and book chapters. The particular project has resulted in a competitive grant of \$ 25,000,000 for raising the KAUST-CU center at Cornell University for Energy and Sustainability (co-directors: Prof. E. P. Giannelis & Prof. L. A. Archer) (see report by R. Emro, Creating nanoscale solutions to global problems, Cornell Engineering Magazine, spring 2009, Cornell University). In addition, it has given birth to the spin-off startup company NOHMs Technologies, Inc. (<https://www.nohms.com/>), first established at Cornell University in 2011 and then based in Rochester, NY (co-founder: Prof. L. A. Archer) (<https://www.engineering.cornell.edu/magazine/features/lynden-archer-passionate-about-nohms>)

- *Molecular synthesis of photoluminescent carbon dots*



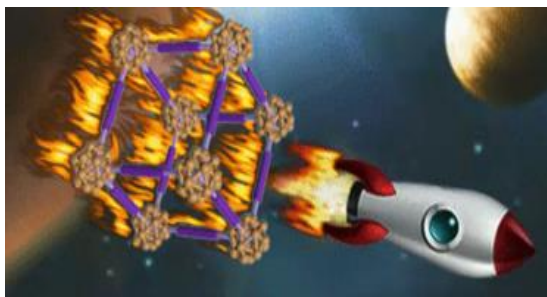
Carbon dots define an innovative class of carbon nanomaterials that are spherical in shape, possess a size of < 10 nm, exhibit bright photoluminescence in the visible region, and display relatively low toxicity. As such, they display numerous optical and biological applications as a cheaper and safer alternative to highly toxic quantum dots based on heavy metal chalcogenides. Especially the citrate method developed from our group (Small 2008, vol. 4, pp. 455-458; Chemistry of Materials 2008, vol. 20, pp. 4539-4541) has been marked and cited as classic in the literature, including Angew. Chem. (S. N. Baker, G. A. Baker, Luminescent carbon nanodots: emergent nanolights, Angewandte Chemie International Edition 2010, vol. 49, pp. 6726-6744) and several other notable review articles, placing it amongst the most influential contributions in the field of carbon dots. Our work on C-dots has served as one of the main research directions and funding resources of the research institute RCPTM, Olomouc, Czech Republic, as well as of the KAUST-CU center at Cornell University for Energy and Sustainability

- *Production and functionalization of graphene and its derivatives*



**G**raphene presents interesting optical, mechanical and electronic properties that can be custom engineered for a desired purpose through chemical functionalization of the carbon lattice and control of its energy band gap from metal to semiconductor. In this way, a wide range of valuable graphene derivatives can be received suitable for sensing, magnetic, nonlinear optical or biological applications (Chemical Reviews 2012, vol. 112, pp. 6156-6214; Chemical Reviews 2016, vol. 116, pp. 5464-5519). Some notorious articles from our group that have been considered classic in the field of graphene production (e.g., chemical reduction of graphite oxide and liquid phase exfoliation of graphite) include: Langmuir 2003, vol. 19, pp. 6050-6055; Small 2009, vol. 5, pp. 1841-1845; Solid State Communications 2009, vol. 149, pp. 2172-2176 (virtual special issue 2018 “10 years of graphene research in solid state communications”). In this context, significant should be also considered our contribution to fluorographene chemistry (Small 2010, vol. 6, pp. 2885-2891). Our work on graphene/fluorographene chemistry has served as one of the main research directions and funding resources of the research institute RCPTM, Olomouc, Czech Republic, including an ERC grant (Two-dimensional chemistry towards new graphene derivatives, 2D-CHEM Grant agreement ID: 683024, Prof. M. Otyepka) (<https://cordis.europa.eu/project/id/683024>)

- *Hypergolic materials synthesis*



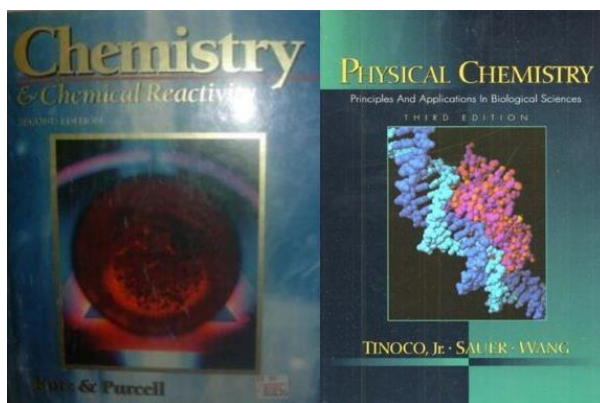
**H**ypergolic materials synthesis is a new preparative technique in materials science, developed from our group, that allows a wide range of carbon (nanosheets, dots, hollow spheres, discs, graphene/graphite) or inorganic (magnetic, photocatalytic, metallic or metal alloy) solids with useful properties to be obtained (Journal of Nanotechnology Research 2022, vol. 4, pp. 31-68). Solely based on simple hypergolic reactions that lift off rockets in space, the method not only permits the fast and spontaneous synthesis of several nanomaterials at ambient conditions but also releases a sizable amount of energy that can be directly converted into useful work, such as chemical, mechanical, photovoltaic, thermoelectric or heating fluids

**Teaching experience (undergraduate-postgraduate):**

- General Chemistry (4 hours/week, fall semester, Physics Department, University of Ioannina) (2012-to date)
- Physical Chemistry I (4 hours/week, fall semester, Physics Department, University of Ioannina) (2012-2022)
- Physical Chemistry II (4 hours/week, spring semester, Physics Department, University of Ioannina) (2012-2022)
- Physical Chemistry (4 hours/week, spring semester, Physics Department, University of Ioannina) (2022-to date)

- Physics Mechanics Lab (4 hours/week 2012-2023 & 8 hours/week 2024-to date, spring semester, Physics Department, University of Ioannina)
- Teaching courses in the interdisciplinary post-graduate study program of Materials Science and Engineering Department, University of Ioannina (2014-to date)
- Experiments demonstration room: demonstration of science experiments to school visitors (exothermic reactions, energy, microwaves, polymers, advanced materials) (Physics Department, University of Ioannina) (2014-to date)
- Outreach UOI Physics Department-YouTube 2022, Section IV (video with oral presentation & experiments for students of the secondary education)
- Advisor of students' spring/summer practicum (9)

***Suggested reading:***



***Notes:***

- A. B. Bourlinos, “Materials synthesis: a practical guide for physicists”, Ioannina 2015 (<http://phys-exp.physics.uoi.gr/wp-content/uploads/2015/09/MatLab.pdf>)
- V. Mouselimis, A. B. Bourlinos, “Physical chemistry of carbon”, Ioannina 2018 (<http://phys-exp.physics.uoi.gr/wp-content/uploads/2018/06/ΦΥΣΙΚΟΧΗΜΕΙΑ-TOY-ΑΝΘΡΑΚΑ.pdf>)
- Analytical class notes on the ecourse platform (<http://ecourse.uoi.gr/>) for the General Chemistry, former Physical Chemistry I & II and current Physical Chemistry undergraduate courses of the Physics Department, University of Ioannina 2022 (roughly a total of 4200 colored power point slides with theory, schemes, images, proofs, working examples and applications)

***Recommendation letters:***

Significant number of letters of recommendation to students for postgraduate or postdoctoral studies in Greece and abroad (> 20)

***Supervisor of undergraduate theses:***

- G. Trivizas, Preparation of functional carbon materials using microwave chemistry, Ioannina 2013
- A. Voulgarides, Preparation and study of hybrid materials of graphene and nanodiamonds with elemental nanoparticles, Ioannina 2014

- A. Gosiou, Materials synthesis: a practical guide for physicists, Ioannina 2015 (the thesis aims to introduce chemistry lab courses for physicists in our department)
- K. Ferendinou & N. Damianides, Materials synthesis I & II, Ioannina 2016
- Actively involved and acknowledged in other undergraduate theses by synthesizing samples provided to the candidates as a key part of their undergraduate study

***Supervisor of Master thesis:***

- G. Trivizas, Nonlinear optical properties of carbon nanoparticles, Ioannina 2015
- V. Mouselimis, Synthesis, characterization and electrical properties of fullerol-graphene derivatives, Ioannina 2018
- I. Bestas, Energy conversion experiments in secondary education, Ioannina 2019
- A. Karakassides, Chemical functionalization of graphene and its effect on the electrical and magnetic properties, Ioannina 2019 (co-supervised with Ass. Prof. V. Georgakilas)
- Actively involved and acknowledged in several MSc theses by synthesizing and characterizing samples provided to the candidates as a key part of their postgraduate study. This is certified by a participation in a large number of three-member advisory committees of MSc (> 25)

***Supervisor of PhD theses:***

- Assisting supervision/mentoring of PhD thesis (supervisor: E. P. Giannelis, Cornell University, USA) of Rafael Herrera, Single component nanocolloids and nanohybrid membranes: synthesis, characterization and properties (2002-2004)
- V. Mouselimis, Fluorographene derivatives and study of their optical properties, Ioannina 2020
- N. Chalmpes, Development and study of novel two dimensional nanostructures for technological applications, Ioannina 2021 (co-supervised with Prof. D. Gournis)
- Actively involved and acknowledged in several PhD theses by synthesizing and characterizing samples provided to the candidates as a key part of their PhD study. This is certified by a participation in a large number of three-member advisory committees of PhDs (> 15) and in more than 25 PhDs committees

***Supervisor of post-docs:***

- Dr. G. Potsi, Derivatives of fluorographene and properties, RCPTM Olomouc, Czech Republic 2017-2019 (co-supervised with Prof. M. Otyepka-Prof. R. Zboril)
- Dr. N. Chalmpes, Hypergolic materials synthesis, Materials Science & Engineering, Cornell University, USA 2023 (co-supervised with Prof. E. P. Giannelis)

***Participation in funded research projects:***

- Sol-gel films on glass substrates as UV filters, 1998 (under the supervision of Dr. D. Petridis & Dr. M. A. Karakassides, Institute of Materials Science, NCSR Demokritos, in collaboration with Prof. D. Katakis, Chemistry Department, University of Athens, Athens, Greece)
- NATO grant “Modification of electrodes with mesoporous solids for catalytic and sensor applications” (1996-1998 France-Greece, Prof. P. Labbè-Dr. M. A. Karakassides-Dr. D. Petridis, Institute of Materials Science, NCSR Demokritos)

- NATO grant No. ENVIR.LG960569 “Interactions of heavy metal cations with swelling clay minerals” (1996-1998 Slovakia-Greece, Prof. P. Komadel-Dr. M. A. Karakassides-Dr. D. Petridis, Institute of Materials Science, NCSR Demokritos)
- Nano-free rotors, EC-CRAFT (1998-2000, Dr. D. Niarchos-Dr. D. Petridis-Dr. A. Simopoulos, Institute of Materials Science, NCSR Demokritos)
- Colorimetric determination of iron in rosins, 2000 (under the supervision of Dr. D. Petridis and Dr. M. A. Karakassides, Institute of Materials Science, NCSR Demokritos, in collaboration with AFOI PAPANIMITRAKOPOULOI A.E., HLEIA, Greece)
- NATO Science Program: “Graphite Oxide: Intercalation properties and synthesis of graphite oxide/polymer composites”, PST, CLG 977550 (2001-2002 Hungary-Greece, Prof. I. Dékány & Dr. D. Petridis, Institute of Materials Science, NCSR Demokritos)
- Self-assembled nanoparticles and nanopatterned arrays for high density magnetorecording (HIDEMAR), Synthesis and magnetic properties of CoPt nanoparticles (2002, NCSR Demokritos, Greece). Principal investigator: Dr. D. Niarchos
- Roam & Haas (intercalated clay polymer composites as novel paint additives) and Eastman Kodak (laser annealing of ITO nanofilms and their electronic properties) (2002-2004, Cornell USA). Principal investigator: Prof. E.P. Giannelis
- Proton conductivity of clay-Nafion composite membranes for fuel cells (2002-2004, Cornell USA). Principal investigator: Prof. E.P. Giannelis
- NESSHY (E-1268), STORHY (E-1142) & NanoHy (E-1484), Hybrid carbon materials for hydrogen storage (2005-2011, NCSR Demokritos, Greece). Principal investigators: Dr. T. Steriotis-Dr. A. Stubos-Dr. G. Charalampopoulou
- HYCONES (STRP 032970), Separation and surface modification of carbon nanocones (2005-2011, NCSR Demokritos, Greece). Principal investigators: Dr. T. Steriotis-Dr. A. Stubos-Dr. G. Charalampopoulou
- THALES research grant # 377278 (600.000 Euro from the Greek Ministry of Education), Aristotle University of Thessaloniki, Chemistry Department: Advanced nanocomposite materials-polymer reinforcement by silica and carbon nanostructures. Principal investigator: Prof. K. Triantafyllides
- THALES research grant # 80790 (600.000 Euro from the Greek Ministry of Education), University of Ioannina, Physics Department: Hybrid micro- and mesoporous materials for environmental applications. Principal investigator: Prof. Y. Deligiannakis
- Research associate in Regional Centre of Advanced Technologies and Materials (RCPTM), Department of Physical Chemistry, Palacky University, Olomouc (Czech Republic) (<http://www.rcptm.com/research-divisions/carbon-nanostructures-and-biomacromolecules/>) (2012-2019) (formal collaboration at Universities level, 25/5/2012)
- Magnetic nanoparticles for the assessment of oil tanks (research grant # 81872, The Petroleum Institute Khalifa University of Science & Technology), Materials Science & Engineering, University of Ioannina, Greece 2015-2020. Principal investigator: Prof. D. Gournis

- SEMI-WEB, ΕΣΠΑ «ΕΡΕΥΝΩ-ΔΗΜΙΟΥΡΓΩ-ΚΑΙΝΟΤΟΜΩ» 2020-2023. Principal investigator: Prof. M. Karakassides (University of Ioannina, Department of Materials Science and Engineering)
- DEMIGOD, ΕΣΠΑ «ΕΡΕΥΝΩ-ΔΗΜΙΟΥΡΓΩ-ΚΑΙΝΟΤΟΜΩ» 2020-2023. Principal investigator: Prof. D. Gournis (University of Ioannina, Department of Materials Science and Engineering)
- Eco-Bio-H<sub>2</sub>-FCs, ΕΣΠΑ «ΕΡΕΥΝΩ-ΔΗΜΙΟΥΡΓΩ-ΚΑΙΝΟΤΟΜΩ» 2020-2023. Principal investigator: Prof. I. Yentekakis (University of Crete, ELKE)

***Scientific collaborations:***

Collaborations with laboratories in Greece (University of Ioannina, University of Patras, NCSR Demokritos) and abroad (Cornell University USA, RCPTM Czech Republic)

***Visiting scientists:***

- Mrs. K. Hola (15/10/2012-16/11/2012, 1 month) from RCPTM, Olomouc (Czech Republic)
- Dr. J. Perman (15/9/2014-15/11/2014, 2 months) from RCPTM, Olomouc (Czech Republic)
- Dr. M. Gawande (25/5/2015-21/6/2015, 1 month) from RCPTM, Olomouc (Czech Republic)
- Dr. P. Dallas (9/7/2016-12/7/2016, 4 days) from Department of Materials, Oxford University (UK)

***Oral presentations:***

- “Carbon materials”, invited seminar lecture for Materials Science & Engineering, University of Ioannina (2009)
- “Functional carbonaceous materials: synthesis, characterization and properties”, Panhellenic conference on solid-state physics and materials science, Ioannina 26/9-29/9 (2010) Greece
- “Functional carbonaceous materials: synthesis, characterization and properties”, NANOCON 2010, Olomouc 12/10-14/10 (2010) Czech Republic (invited speaker)
- “Carbon allotropes”, NANOCON 2011, Brno 21/9-23/9 (2011) Czech Republic
- “Photoluminescent carbon dots”, NANOCON 2013, Brno 16/10-18/10 (2013) Czech Republic
- “Carbon materials for environmental applications”, NANOCON 2014, Brno 5/11-7/11 (2014) Czech Republic
- “Carbon allotropes”, Seminar courses-Section IV, Physics Department, University of Ioannina, Ioannina 4/3 (2016) Greece
- “Carbon sorbents”, 7<sup>th</sup> Panhellenic Symposium on Porous Materials, University of Ioannina, Ioannina 2/6-4/6 (2016) Greece (invited speaker & chairs)
- “Physics in Chemistry”, Department lecture on welcome reception of 1<sup>st</sup> year undergraduates, Physics Department, University of Ioannina, Ioannina 1/10 (2018) Greece
- “Carbon applications”, Seminar courses of the Physics Department, University of Ioannina, Ioannina 15/3 (2019) Greece
- “Hypergolic synthesis of carbon nanomaterials”, Seminar courses of the Physics Department, University of Ioannina, Ioannina 26/3 (2021) Greece
- “A material world”, Department lecture on welcome reception of 1<sup>st</sup> year undergraduates, Physics Department, University of Ioannina, Ioannina 3/10 (2022) Greece



- “Carbon science and technology: the case of pencil”, Seminar courses of the Physics Department, University of Ioannina, Ioannina 19/5 (2023) Greece
- “Elements & Periodic Table”, Seminar courses conducted by the students' Physics Society of Ioannina (PSI), Physics Department, University of Ioannina, Ioannina 1/6 (2023) Greece
- “Relativistic gold”, Department lecture on welcome reception of 1<sup>st</sup> year undergraduates, Physics Department, University of Ioannina, Ioannina 2/10 (2023) Greece

***Conference proceedings (4):***

- “Shape fabrication of cotton-derived inorganic hollow ribbons”, A. B. Bourlinos, N. Boukos, D. Petridis, T. Tsakalakos, et al. (eds), Chapter 2: Synthesis of nanostructures, pp. 111-116, Nanostructures: Synthesis, Functional Properties and Applications, NATO Science Series II: Mathematics, Physics and Chemistry-vol. 128, 2003 Kluwer Academic Publishers
- “High quality, low cost continuous poly-GaN film on Si and glass substrates produced by spin coating”, H. Wu, A. Bourlinos, E. P. Giannelis, M. G. Spencer, Materials Research Society Symposium Proceedings 2005, vol. 831, E8.2.1-6
- “Electron spin resonance in magnetic nanoparticles: effects of temperature and interparticle interactions”, N. Noginova, F. Chen, A. Andreyev, J. McClure, E. P. Giannelis, A. B. Bourlinos, V. A. Atsarkin, Materials Research Society Symposium Proceedings 2007, vol. 984, 0984-MM05-03
- “NMR and spin relaxation in systems with magnetic nanoparticles”, T. Weaver, N. Noginova, M. King, A. B. Bourlinos, Materials Research Society Symposium Proceedings 2007, Vol. 984, 0984-MM07-19

***Reviewer in international journals:***

Reviewer in about 40 international scientific journals of the publishing houses ACS, Wiley, Elsevier, RSC, Springer, MDPI

***Administration:***

Significant administrative contribution to the Department of Physics, UoI (Vice Head 2022-2024, Director of Section IV 2020-2022, Chair of Committees)

***Scientific instrument operator:***

X-ray diffraction unit (XRD), Institute of Materials Science, NCSR Demokritos (1999-2002)

***Memberships:***

Association of Greek Chemists (EEX), American Chemical Society (ACS)

***Patents (3):***

1. “Functionalized nanostructures with liquid-like behavior”, Giannelis, E. P.; Bourlinos, A. B., US Patent 9,034,371 (2015)
2. “Group III nitride coatings and methods”, Wu, H.; Spencer, M. G.; Giannelis, E. P.; Bourlinos, A. B., US Patent 7,772,288 (2010)

3. “Carbon materials for hydrogen storage”, Bourlinos, A. B.; Steriotis, T. A.; Stubos, A.; Miller, M. A., US Patent 9,440,850 (2016)

***Publications (peer-reviewed journals) (153):***

1. “First synthesis of 2D materials by hypergolic reactions and evaluation of their dispersions for ink formulation: hexagonal boron nitride and fluorinated carbon nanosheets”, Chalmpes, N.; Bourlinos, A. B.; Alsmail, A. W.; Aljarrah, A. S.; Salmas, C. E.; Karakassides, M. A.; Giannelis, E. P., *Materials Research Express* 2024 (in press)
2. “Intriguing prospects of a novel magnetic nanohybrid material: ferromagnetic FeRh nanoparticles grown on nanodiamonds”, Ziogas, P.; Bourlinos, A. B.; Chatzopoulou, P.; Dimitrakopoulos, G. P.; Kehagias, T.; Markou, A.; Douvalis, A. P., *Metals* 2022, vol. 12, 1355 (20 pages)
3. “New precursors towards the hypergolic synthesis of inorganic materials with peculiar morphologies”, Bourlinos, A. B., *Journal of Nanotechnology Research* 2022, vol. 4, pp. 111-116
4. “Isolation, characterization and hydrogen sulfide H<sub>2</sub>S sorption properties at room temperature of magnetite sludge from radiator”, Ziogas, P.; Douvalis, A. P.; Bourlinos, A. B.; Papachristodoulou, C.; Chalmpes, N.; Karakassides, M. A.; Giannakas, A. E.; Salmas, C. E., *Journal of Nanotechnology Research* 2022, vol. 4, pp. 97-110
5. “Graphene nanobeacons with high-affinity pockets for combined, selective, and effective decontamination and reagentless detection of heavy metals”, Panáček, D.; Zdražil, L.; Langer, M.; Šedajová, V.; Baďura, Z.; Zoppellaro, G.; Yang, Q.; Nguyen, E. P.; Álvarez-Diduk, R.; Hrubý, V.; Kolařík, J.; Chalmpes, N.; Bourlinos, A. B.; Zbořil, R.; Merkoçi, A.; Bakandritsos, A.; Otyepka, M., *Small* 2022, vol. 18, 2201003 (13 pages)
6. “Graphene oxide-cytochrome c multilayered structures for biocatalytic applications: decrypting the role of surfactant in Langmuir-Schaefer layer deposition”, Chalmpes, N.; Patila, M.; Kouloumpis, A.; Alatzoglou, C.; Spyrou, K.; Subrati, M.; Polydera, A. C.; Bourlinos, A. B.; Stamatis, H.; Gournis, D., *ACS Applied Materials & Interfaces* 2022, vol. 14, pp. 26204-26215
7. “From waste tea to carbon rocket fuels through a piranha solution-mediated carbonization treatment”, Asimakopoulos, G.; Moschovas, D.; Avgeropoulos, A.; Bourlinos, A. B.; Tantis, I.; Šedajová, V.; Tomanec, O.; Salmas, C. E.; Gournis, D.; Karakassides, M. A., *Journal of Nanotechnology Research* 2022, vol. 4, pp. 31-44
8. “Hypergolic materials synthesis: a review”, Bourlinos, A. B.; Chalmpes, N.; Gournis, D.; Karakassides, M. A., *Journal of Nanotechnology Research* 2022, vol. 4, pp. 59-96
9. “Use of a hybrid porous carbon material derived from expired polysaccharides snack/iron salt exhibiting magnetic properties, for hexavalent chromium removal”, Baikousi, M.; Moustaklis, K.; Karakassides, A.; Asimakopoulos, G.; Moschovas, D.; Avgeropoulos, A.; Bourlinos, A. B.; Douvalis, A. P.; Salmas, C. E.; Karakassides, M. A., *Polysaccharides* 2022, vol. 3, pp. 326-346

10. "Biomass waste carbonization in piranha solution: a route to hypergolic carbons?", Chalmpes, N.; Baikousi, M.; Giouisis, T.; Rudolf, P.; Salmas, C. E.; Moschovas, D.; Avgeropoulos, A.; Bourlinos, A. B.; Tantis, I.; Bakandritsos, A.; Gournis, D.; Karakassides, M. A., *Micro* 2022, vol. 2, pp. 137-153
11. "A new generation of carbon-containing hypergolic fuels based on water-ignitable C-NaH mixtures", Bourlinos, A. B., *Journal of Nanotechnology Research* 2022, vol. 4, pp. 1-9
12. "The use of activated bio-carbon derived from *Posidonia oceanica* sea-waste for lithium-sulfur batteries applications", Spyrou, A. V.; Tantis, I.; Baikousi, M.; Bourlinos, A. B.; Salmas, C. E.; Zboril, R.; Karakassides, M. A., *Sustainable Energy Technologies and Assessments* 2022, vol. 53, 102748 (9 pages)
13. "Intracellular trafficking of cationic carbon dots in cancer cell lines MCF-7 and HeLa-Time lapse microscopy, concentration-dependent uptake, viability, DNA damage, and cell cycle profile", Havrdová, M.; Urbančič, I.; Tománková, K. B.; Malina, L.; Poláková, K.; Štrancar, J.; Bourlinos, A. B., *International Journal of Molecular Sciences* 2022, vol. 23, 1077 (14 pages)
14. "Microwave synthesis, characterization and perspectives of wood pencil-derived carbon", Chalmpes, N.; Asimakopoulos, G.; Baikousi, M.; Salmas, C. E.; Moschovas, D.; Avgeropoulos, A.; Bourlinos, A. B.; Tantis, I.; Bakandritsos, A.; Gournis, D.; Karakassides, M. A., *Applied Sciences* 2022, vol. 12, 410 (20 pages)
15. "Fast and direct microwave synthesis of carbon from bovine blood waste: a feedstock material for extractive metallurgy, carbon dots production and graphite synthesis", Chalmpes, N.; Asimakopoulos, G.; Baikousi, M.; Moschovas, D.; Avgeropoulos, A.; Bourlinos, A. B.; Šedajová, V.; Bakandritsos, A.; Gournis, D.; Karakassides, M. A., *Journal of Nanotechnology Research* 2021, vol. 3, pp.11-28
16. "Nanoporous carbon magnetic hybrid derived from waterlock polymers and its application for hexavalent chromium removal from aqueous solution", Asimakopoulos, G.; Karakassides, A.; Baikousi, M.; Gioti, C.; Moschovas, D.; Avgeropoulos, A.; Bourlinos, A. B.; Douvalis, A. P.; Salmas, C. E.; Karakassides, M. A., *C-Journal of Carbon Research* 2021, vol. 7, 69 (19 pages)
17. "Hypergolic synthesis of inorganic materials by the reaction of metallocene dichlorides with fuming nitric acid at ambient conditions: the case of photocatalytic titania", Chalmpes, N.; Asimakopoulos, G.; Baikousi, M.; Bourlinos, A. B.; Karakassides, M. A.; Gournis, D., *Sci* 2021, vol. 3, 46 (11 pages)
18. "Self-targeting of carbon dots into the cell nucleus: diverse mechanisms of toxicity in NIH/3T3 and L929 cells", Havrdová, M.; Urbančič, I.; Tománková, K. B.; Malina, L.; Štrancar, J.; Bourlinos, A. B., *International Journal of Molecular Sciences* 2021, vol. 22, 5608 (16 pages)
19. "Hypergolic ignition of 1,3-cyclodienes by fuming nitric acid towards the fast and spontaneous formation of carbon nanosheets at ambient conditions", Chalmpes, N.; Moschovas, D.; Bourlinos, A. B.; Spyrou, K.; Vasilopoulos, K. C.; Avgeropoulos, A.; Karakassides, M. A.; Gournis, D., *Micro* 2021, vol. 1, pp. 15-27

20. "Carbon nanostructures formation through hypergolic reaction of conductive polymers with fuming nitric acid at ambient conditions", Chalmpes, N.; Moschovas, D.; Tantis, I.; Bourlinos, A. B.; Bakandritsos, A.; Fotiadou, R.; Patila, M.; Stamatis, H.; Avgeropoulos, A.; Karakassides, M. A.; Gournis, D., *Molecules* 2021, vol. 26, 1595 (15 pages)
21. "Advanced Cr(VI) sorption properties of activated carbon produced via pyrolysis of the *Posidonia oceanica* seagrass", Baikousi, M.; Asimakopoulos, G.; Salmas, C.; Bourlinos, A. B.; Zboril, R.; Karakassides, M. A., *Journal of Hazardous Materials* 2021, vol. 405, 124274 (13 pages)
22. "Synthesis of 2D germanane (GeH): a new, fast and facile approach", Giousis, T.; Potsi, G.; Kouloumpis, A.; Spyrou, K.; Georgantas, Y.; Chalmpes, N.; Dimos, K.; Antoniou, M-K.; Papavassiliou, G.; Bourlinos, A. B.; Kim, H. J.; Wadi, V. K. S.; Alhassan, S.; Ahmadi, M.; Kooi, B. J.; Blake, G.; Balazs, D. M.; Loi, M.; Gournis, D.; Rudolf, P., *Angewandte Chemie International Edition* 2021, vol. 60, pp. 360-365
23. "Nanocarbon from rocket fuel waste: the case of furfuryl alcohol-fuming nitric acid hypergolic pair", Chalmpes, N.; Bourlinos, A. B.; Talande, S.; Bakandritsos, A.; Moschovas, D.; Avgeropoulos, A.; Karakassides, M. A.; Gournis, D., *Nanomaterials* 2021, vol. 11, 1 (13 pages)
24. "Novel magnetic nanohybrids: from iron oxide to iron carbide nanoparticles grown on nanodiamonds", Ziogas, P.; Bourlinos, A. B.; Tucek, J.; Malina, O.; Douvalis, A. P., *Magnetochemistry* 2020, vol. 6, 73 (22 pages)
25. "Nanoporous activated carbon derived via pyrolysis process of spent coffee: structural characterization. Investigation of its use for hexavalent chromium removal", Asimakopoulos, G.; Baikousi, M.; Kostas, V.; Papantoniou, M.; Bourlinos, A. B.; Zboril, R.; Karakassides, M. A.; Salmas, C., *Applied Sciences* 2020, vol. 10, 8812 (20 pages)
26. "Hypergolic materials synthesis through reaction of fuming nitric acid with certain cyclopentadienyl compounds", Chalmpes, N.; Bourlinos, A. B.; Šedajová, V.; Kupka, V.; Moschovas, D.; Avgeropoulos, A.; Karakassides, M. A.; Gournis, D., *C-Journal of Carbon Research* 2020, vol. 6, 61 (12 pages)
27. "Rapid carbon formation from spontaneous reaction of ferrocene and liquid bromine at ambient conditions", Chalmpes, N.; Tantis, I.; Bakandritsos, A.; Bourlinos, A. B.; Karakassides, M. A.; Gournis, D., *Nanomaterials* 2020, vol. 10, 1564 (13 pages)
28. "Diethylamino-fluorographene: a 2D material with broadband and efficient optical limiting performance (from 500 to 1800 nm) with very large nonlinear optical response", Papadakis, I.; Stathis, A.; Bourlinos, A. B.; Couris, S., *Nano Select* 2020, vol. 1, pp. 395-404
29. "Hypergolics in carbon nanomaterials synthesis: new paradigms and perspectives", Chalmpes, N.; Spyrou, K.; Vasilopoulos, K. C.; Bourlinos, A. B.; Moschovas, D.; Avgeropoulos, A.; Gioti, C.; Karakassides, M. A.; Gournis, D., *Molecules* 2020, vol. 25, 2207 (11 pages)

30. "Functional carbon materials derived through hypergolic reactions at ambient conditions", Chalmpes, N.; Asimakopoulos, G.; Spyrou, K.; Vasilopoulos, K.; Bourlinos, A. B.; Moschovas, D.; Avgeropoulos, A.; Karakassides, M. A.; Gournis, D., *Nanomaterials* 2020, vol. 10, 566 (13 pages)
31. "Synthesis of highly crystalline graphite from spontaneous ignition of in-situ derived acetylene and chlorine at ambient conditions", Chalmpes, N.; Spyrou, K.; Bourlinos, A. B.; Moschovas, D.; Avgeropoulos, A.; Karakassides, M. A.; Gournis, D., *Molecules* 2020, vol. 25, 297 (6 pages)
32. "Large enhancement of the nonlinear optical response of fluorographene by chemical functionalization: the case of diethylamino-fluorographene", Papadakis, I.; Kyrginas, D.; Stathis, A.; Couris, S.; Potsi, G.; Bourlinos, A. B.; Tomanec, O.; Otyepka, M.; Zboril, R., *Journal of Physical Chemistry C* 2019, vol. 123, pp. 25856-25862
33. "Intrinsic photoluminescence of amine-functionalized graphene derivatives for bioimaging applications", Potsi, G.; Bourlinos, A. B.; Mouselimis, V.; Polakova, K.; Chalmpes, N.; Gournis, D.; Kalytchuk, S.; Tomanec, O.; Blonski, P.; Medve, M.; Lazar, P.; Otyepka, M.; Zboril, R., *Applied Materials Today* 2019, vol. 17, pp. 112-122
34. "Direct production of carbon nanosheets by self-ignition of pyrophoric lithium dialkylamides in air", Baikousi, M.; Chalmpes, N.; Spyrou, K.; Bourlinos, A. B.; Avgeropoulos, A.; Gournis, D.; Karakassides, M. A., *Materials Letters* 2019, vol. 254, pp. 58-61
35. "Thiophenol-modified fluorographene derivatives for nonlinear optical applications", Stathis, A.; Papadakis, I.; Karampitsos, N.; Couris, S.; Potsi, G.; Bourlinos, A. B.; Otyepka, M.; Zboril, R., *ChemPlusChem* 2019, vol. 84, pp. 1288-1298
36. "Dramatic enhancement of the nonlinear optical response of hydrogenated fluorographene: the effect of midgap states", Papadakis, I.; Bouza, Z.; Couris, S.; Mouselimis, V.; Bourlinos, A. B., *Journal of Physical Chemistry C* 2018, vol. 122, pp. 25573-25579
37. "Molecular Mn-catalysts grafted on graphitic carbon nitride (gCN): the behavior of gCN as support matrix in oxidation reactions", Simaioforidou, A.; Georgiou, Y.; Bourlinos, A. B.; Louloudi, M., *Polyhedron* 2018, vol. 153, pp. 41-50
38. "Highly efficient arsenite As(III) adsorption by a MIL-100(Fe) metal-organic framework: structural and mechanistic insights", Georgiou, Y.; Perman, J.; Bourlinos, A. B.; Deligiannakis, Y., *Journal of Physical Chemistry C* 2018, vol. 122, pp. 4859-4869
39. "Hydrogenated fluorographene: a 2D counterpart of graphane with enhanced nonlinear optical properties", Papadakis, I.; Bouza, Z.; Couris, S.; Bourlinos, A. B.; Mouselimis, V.; Kouloumpis, A.; Gournis, D.; Bakandritsos, A.; Ugolotti, J.; Zboril, R., *Journal of Physical Chemistry C* 2017, vol. 121, pp. 22567-22575

40. "Graphene/carbon-dot hybrid thin films prepared by a modified Langmuir-Schaefer method", Kouloumpis, A.; Thomou, E.; Chalmpes, N.; Dimos, K.; Spyrou, K.; Bourlinos, A. B.; Koutselas, I.; Gournis, D.; Rudolf, P., *ACS Omega* 2017, vol. 2, pp. 2090-2099
41. "Fullerol-graphene nanobuds: novel water dispersible and highly conductive nanocarbon for electrochemical sensing", Bourlinos, A. B.; Georgakilas, V.; Mouselimis, V.; Kouloumpis, A.; Mouzourakis, E.; Koutsioukis, A.; Antoniou, M-K.; Gournis, D.; Karakassides, M. A.; Deligiannakis, Y.; Urbanova, V.; Cepe, K.; Bakandritsos, A.; Zboril, R., *Applied Materials Today* 2017, vol. 9, pp. 71-76
42. "Fe(III)-functionalized carbon dots-Highly efficient photoluminescence redox catalyst for hydrogenations of olefins and decomposition of hydrogen peroxide", Bourlinos, A. B.; Rathi, A. K.; Gawande, M. B.; Hola, K.; Goswami, A.; Kalytchuk, S.; Karakassides, M. A.; Kouloumpis, A.; Gournis, D.; Deligiannakis, Y.; Giannelis, E. P.; Zboril, R., *Applied Materials Today* 2017, vol. 7, pp. 179-184
43. "Cyanographene and graphene acid-emerging derivatives enabling high-yield and selective functionalization of graphene", Bakandritsos, A.; Pykal, M.; Blonski, P.; Jakubec, P.; Chronopoulos, D. D.; Poláková, K.; Georgakilas, V.; Čépe, K.; Tomanec, O.; Ranc, V.; Bourlinos, A. B.; Zbořil, R.; Otyepka, M., *ACS Nano* 2017, vol. 11, pp. 2982-2991
44. "Room temperature organic magnets derived from  $sp^3$  functionalized graphene", Tucek, J.; Hola, K.; Bourlinos, A. B.; Blonski, P.; Bakandritsos, A.; Ugolotti, J.; Dubecky, M.; Karlicky, F.; Ranc, V.; Cepe, K.; Otyepka, M.; Zboril, R., *Nature Communications* 2017, vol. 8, 14525 (12 pages)
45. "Graphene nanobuds: synthesis and selective organic derivatisation", Georgakilas, V.; Bourlinos, A. B.; Ntararas, E.; Imbraliou, A.; Gournis, D.; Dimos, K.; Kouloumpis, A.; Zboril, R., *Carbon* 2016, vol. 110, pp. 51-55
46. "Development of novel FePt/nanodiamond hybrid nanostructures:  $L1_0$  phase size-growth suppression and magnetic properties", Douvalis, A. P.; Bourlinos, A. B.; Tucek, J.; Cepe, K.; Bakas, T.; Zboril, R., *Journal of Nanoparticle Research* 2016, vol. 18, 115 (19 pages)
47. "Surface decoration of amine-rich carbon nitride with iron nanoparticles for arsenite ( $As^{III}$ ) uptake: the evolution of the Fe-phases under ambient conditions", Georgiou, Y.; Mouzourakis, E.; Bourlinos, A.B.; Zboril, R.; Karakassides, M.A.; Douvalis, A.P.; Bakas, Th.; Deligiannakis, Y., *Journal of Hazardous Materials* 2016, vol. 312, pp. 243-253
48. "Toxicity of carbon dots-effect of surface functionalization on the cell viability, reactive oxygen species generation and cell cycle", Havrdova, M.; Hola, K.; Skopalik, J.; Tomankova, K.; Petr, M.; Cepe, K.; Polakova, K.; Tucek, J.; Bourlinos, A. B.; Zboril, R., *Carbon* 2016, vol. 99, pp. 238-248
49. "Noncovalent functionalization of graphene and graphene oxide for energy materials, biosensing, catalytic, and biomedical applications", Georgakilas, V.; Tiwari, J. N.; Kemp, K. C.; Perman, J.; Bourlinos, A. B.; Kim, K.; Zboril, R., *Chemical Reviews* 2016, vol. 116, pp. 5464-5519

50. "Nonlinear optical response of gold-decorated nanodiamond hybrids", Potamianos, D.; Papadakis, I.; Kakkava, E.; Bourlinos, A. B.; Trivizas, G.; Zboril, R.; Couris, S., *Journal of Physical Chemistry C* 2015, vol. 119, pp. 24614-24620
51. "Synthesis and characterization of robust zero valent iron/mesoporous carbon composites and their applications in arsenic removal", Baikousi, M.; Georgiou, Y.; Daikopoulos, C.; Bourlinos, A. B.; Filip, J.; Zboril, R.; Deligiannakis, Y.; Karakassides, M. A., *Carbon* 2015, vol. 93, pp. 636-647
52. "Thiofluorographene-hydrophilic graphene derivative with semiconducting and genosensing properties", Urbanova, V.; Holá, K.; Bourlinos, A. B.; Čépe, K.; Ambrosi, A.; Loo, A. H.; Pumera, M.; Karlický, F.; Otyepka, M.; Zbořil, R., *Advanced Materials* 2015, vol. 27, pp. 2305-2310
53. "Green and simple route toward boron doped carbon dots with significantly enhanced non-linear optical properties", Bourlinos, A. B.; Trivizas, G.; Karakassides, M. A.; Baikousi, M.; Kouloumpis, A.; Gournis, D.; Bakandritsos, A.; Hala, K.; Kozak, O.; Zboril, R.; Papagiannouli, I.; Aloukos, P.; Couris, S., *Carbon* 2015, vol. 83, pp. 173-179
54. "Nonlinear optical properties of colloidal carbon nanoparticles: nanodiamonds and carbon dots", Papagiannouli, I.; Bourlinos, A. B.; Bakandritsos, A., Couris, S., *RSC Advances* 2014, vol. 4, pp. 40152-40160
55. "Quaternized carbon dot-modified graphene oxide for selective cell labeling-controlled nucleus and cytoplasm imaging", Datta, K. K. R.; Kozak, O.; Ranc, V.; Havrdova, M.; Bourlinos, A. B.; Safarova, K.; Hala, K.; Tomankova, K.; Zoppellaro, G.; Otyepka, M.; Zboril, R., *Chemical Communications* 2014, vol. 50, pp. 10782-10785
56. "Arsenite remediation by an amine-rich graphitic carbon nitride synthesized by a novel low-temperature method", Daikopoulos, C.; Georgiou, Y.; Bourlinos, A. B.; Baikousi, M.; Karakassides, M. A.; Zboril, R.; Steriotis, T. A.; Deligiannakis, Y., *Chemical Engineering Journal* 2014, vol. 256, pp. 347-355
57. "Third-order nonlinear optical response and optical limiting of colloidal carbon dots", Aloukos, P.; Papagiannouli, I.; Bourlinos, A. B.; Zboril, R.; Couris, S., *Optics Express* 2014, vol. 22, pp. 12013-12027
58. "A functionalized phosphonate-rich organosilica layered hybrid material (PSLM) fabricated through a mild process for heavy metal uptake", Daikopoulos, C.; Bourlinos, A. B.; Georgiou, Y.; Deligiannakis, Y.; Zboril, R.; Karakassides, M. A., *Journal of Hazardous Materials* 2014, vol. 270, pp. 118-126
59. "Photoluminescence effects of graphitic core size and surface functional groups in carbon dots: COO<sup>-</sup> induced red-shift emission", Hala, K.; Bourlinos, A. B.; Kozak, O.; Berka, K.; Siskova, K. M.; Havrdova, M.; Tucek, J.; Safarova, K.; Otyepka, M.; Giannelis, E. P.; Zboril, R., *Carbon* 2014, vol. 70, pp. 279-286
60. "Fluoro-graphene: nonlinear optical properties", Liaros, N.; Bourlinos, A. B.; Zboril, R.; Couris, S., *Optics Express* 2013, vol. 21, pp. 21028-21039

61. "Novel ordered mesoporous carbon with innate functionalities and superior heavy metal uptake", Baikousi, M.; Daikopoulos, C.; Georgiou, Y.; Bourlinos, A. B.; Zboril, R.; Deligiannakis, Y.; Karakassides, M., *Journal of Physical Chemistry C* 2013, vol. 117, pp. 16961-16971
62. "Carbon-dot organic surface modifier analysis by solution-state NMR spectroscopy", Philippidis, A.; Spyros, A.; Anglos, D.; Bourlinos, A. B.; Zboril, R.; Giannelis, E. P., *Journal of Nanoparticle Research* 2013, vol. 15, 1777 (9 pages)
63. "Tuning the dispersibility of carbon nanostructures from organophilic to hydrophilic: towards the preparation of new multipurpose carbon-based hybrids", Georgakilas, V.; Kouloumpis, A.; Gournis, D.; Bourlinos, A. B.; Trapalis, C.; Zboril, R., *Chemistry-A European Journal* 2013, vol. 19, pp. 12884-12891
64. "Lipid enhanced exfoliation for production of graphene nanosheets", Pykal, M.; Safarova, K.; Machalova-Siskova, K.; Jurecka, P.; Bourlinos, A. B.; Zboril, R.; Otyepka, M., *Journal of Physical Chemistry C* 2013, vol. 117, pp. 11800-11803
65. "Synthesis, characterization and non-linear optical response of organophilic carbon dots", Bourlinos, A. B.; Karakassides, M. A.; Kouloumpis, A.; Gournis, D.; Bakandritsos, A.; Papagiannouli, I.; Aloukos, P.; Couris, S.; Hola, K.; Zboril, R.; Krysmann, M.; Giannelis, E. P., *Carbon* 2013, vol. 61, pp. 640-643
66. "A hydrogen sorption study on a Pd-doped CMK-3 type ordered mesoporous carbon", Giasafaki, D.; Charalambopoulou, G.; Bourlinos, A. B.; Stubos, A.; Gournis, D.; Steriotis, T., *Adsorption* 2013, vol. 19, pp. 803-811
67. "Gd(III)-doped carbon dots as a dual fluorescent-MRI probe", Bourlinos, A. B.; Bakandritsos, A.; Kouloumpis, A.; Gournis, D.; Krysmann, M.; Giannelis, E. P.; Polakova, K.; Safarova, K.; Hola, K.; Zboril, R., *Journal of Materials Chemistry* 2012, vol. 22, pp. 23327-23330
68. "A facile synthetic route toward air-stable magnetic nanoalloys with Fe-Ni/Fe-Co core and iron oxide shell", Douvalis, A.; Zboril, R.; Bourlinos, A. B.; Tucek, J.; Spyridi, S.; Bakas, T., *Journal of Nanoparticle Research* 2012, vol. 14, 1130 (16 pages)
69. "Synthesis and properties of core-shell fluorescent hybrids with distinct morphologies based on carbon dots", Markova, Z.; Bourlinos, A. B.; Safarova, K.; Polakova, K.; Tucek, J.; Medrik, I.; Siskova, K.; Petr, J.; Krysmann, M.; Giannelis, E. P.; Zboril, R., *Journal of Materials Chemistry* 2012, vol. 22, pp. 16219-16223
70. "Water dispersible functionalized graphene fluoride with significant nonlinear optical response", Bourlinos, A. B.; Bakandritsos, A.; Liaros, N.; Couris, S.; Safarova, K.; Otyepka, M.; Zboril, R., *Chemical Physics Letters* 2012, vol. 543, pp. 101-105
71. "Functionalization of graphene: covalent and non-covalent approaches, derivatives and applications", Georgakilas, V.; Otyepka, M.; Bourlinos, A. B.; Chandra, V.; Kim, N.; Kemp, K. C.; Hobza, P.; Zboril, R.; Kim, K. S., *Chemical Reviews* 2012, vol. 112, pp. 6156-6214



72. "Aqueous-dispersible fullerol-carbon nanotube hybrids", Bourlinos, A. B.; Georgakilas, V.; Bakandritsos, A.; Kouloumpis, A.; Gournis, D.; Zboril, R., *Materials Letters* 2012, vol. 82, pp. 48-50
73. "Synthesis and characterization of  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>/carbon hybrids and their application in removal of hexavalent chromium ions from aqueous solutions", Baikousi, M.; Bourlinos, A. B.; Douvalis, A.; Bakas, T.; Anagnostopoulos, D.; Tucek, J.; Safarova, K.; Zboril, R.; Karakassides, M., *Langmuir* 2012, vol. 28, pp. 3918-3930
74. "Surface decoration of carbon nanosheets with amino-functionalized organosilica nanoparticles", Baikousi, M.; Dimos, K.; Bourlinos, A. B.; Zboril, R.; Papadas, I.; Deligiannakis, Y.; Karakassides, M. A., *Applied Surface Science* 2012, vol. 258, pp. 3703-3709
75. "A water-dispersible, carboxylate-rich carbonaceous solid: synthesis, heavy metal-uptake and EPR study", Tselepidou, A.; Drosos, M.; Stathi, P.; Bourlinos, A. B.; Zboril, R.; Deligiannakis, Y., *Journal of Materials Science* 2012, vol. 47, pp. 3140-3149
76. "Synthesis and characterisation of nanoporous carbon-metal composites for hydrogen storage", Giasafaki, D.; Bourlinos, A. B.; Charalambopoulou, G.; Stubos, A.; Steriotis, T., *Microporous and Mesoporous Materials* 2012, vol. 154, pp. 74-81
77. "Luminescent surface quaternized carbon dots", Bourlinos, A. B.; Zboril, R.; Petr, J.; Bakandritsos, A.; Krysmann, M.; Giannelis, E. P., *Chemistry of Materials* 2012, vol. 24, pp. 6-8
78. "The production of chemically converted graphenes from graphite fluoride", Bourlinos, A. B.; Safarova, K.; Siskova, K.; Zboril, R., *Carbon* 2012, vol. 50, pp. 1422-1444
79. "Nanoporous carbon-metal composites for hydrogen storage", Giasafaki, D.; Bourlinos, A. B.; Charalambopoulou, G.; Stubos, A.; Steriotis, T., *Central European Journal of Chemistry* 2011, vol. 9, pp. 948-952
80. "Fabrication of fluorescent nanodiamond@C core-shell hybrids via mild carbonization of sodium cholate-nanodiamond complexes", Bourlinos, A. B.; Zboril, R.; Kubala, M.; Stathi, P.; Deligiannakis, Y.; Karakassides, M. A.; Steriotis, T. A.; Stubos, A. K., *Journal of Materials Science* 2011, vol. 46, pp. 7912-7916
81. "Magnetic/SiO<sub>2</sub> nanocomposite thin films prepared by sol-gel dip coating modified method", Baikousi, M.; Kostoula, O.; Panagiotopoulos, I.; Bakas, T.; Douvalis, A. P.; Koutselas, I.; Bourlinos, A. B.; Karakassides, M. A., *Thin Solid Films* 2011, vol. 520, pp. 159-165
82. "Enhanced hydrogen storage by spillover on metal-doped carbon foam: an experimental and computational study", Psfogiannakis, G. M.; Steriotis, T. A.; Bourlinos, A. B.; Kouvelos, E. P.; Charalambopoulou, G. C.; Stubos, A. K.; Froudakis, G. E., *Nanoscale* 2011, vol. 3, pp. 933-936

83. "Pyrolytic formation of a carbonaceous solid for heavy metal adsorption", Bourlinos, A. B.; Karakassides, M. A.; Stathi, P.; Deligiannakis, Y.; Zboril, R.; Dallas, P.; Steriotis, T. A.; Stubos, A. K.; Trapalis, C., *Journal of Materials Science* 2011, vol. 46, pp. 975-982
84. "Graphene fluoride: a stable stoichiometric graphene derivative and its chemical conversion to graphene", Zboril, R.; Karlicky, F.; Bourlinos, A. B.; Steriotis, T. A.; Stubos, A. K.; Georgakilas, V.; Safarova, K.; Jancik, D.; Trapalis, C.; Otyepka, M., *Small* 2010, vol. 6, pp. 2885-2891
85. "Fullerol ionic fluids", Fernandes, N.; Dallas, P.; Rodriguez, R.; Bourlinos, A. B.; Georgakilas, V.; Giannelis, E. P., *Nanoscale* 2010, vol. 2, pp. 1653-1656
86. "Organic functionalisation of graphenes", Georgakilas, V.; Bourlinos, A. B.; Zboril, R.; Steriotis, T. A.; Dallas, P.; Stubos, A. K.; Trapalis, C., *Chemical Communications* 2010, vol. 46, pp. 1766-1768
87. "Cornet-like phosphotriazine/diamine polymers as reductant and matrix for the synthesis of silver nanocomposites with antimicrobial activity", Dallas, P.; Zboril, R.; Bourlinos, A. B.; Jancik, D.; Niarchos, D.; Panacek, A.; Petridis, D., *Macromolecular Materials and Engineering* 2010, vol. 295, pp. 108-114
88. "The synthesis and properties of nanoscale ionic materials", Rodriguez, R.; Herrera, R.; Bourlinos, A. B.; Li, R.; Amassian, A.; Archer, L. A.; Giannelis, E. P., *Applied Organometallic Chemistry* 2010, vol. 24, pp. 581-589
89. "Silver nanoparticles and graphitic carbon through thermal decomposition of a silver/acetylenedicarboxylic salt", Dallas, P.; Bourlinos, A. B.; Komninou, P.; Karakassides, M.; Niarchos, D., *Nanoscale Research Letters* 2009, vol. 4, pp. 1358-1364
90. "Aqueous-phase exfoliation of graphite in the presence of polyvinylpyrrolidone for the production of water-soluble graphenes", Bourlinos, A. B.; Georgakilas, V.; Zboril, R.; Steriotis, T. A.; Stubos, A. K.; Trapalis, C., *Solid State Communications* 2009, vol. 149, pp. 2172-2176
91. "Solvent-mediated pathways to gelation and phase separation in suspensions of grafted nanoparticles", Anyfantakis, M.; Bourlinos, A. B.; Vlassopoulos, D.; Fytas, G.; Giannelis, E. P.; Kumar, S. K., *Soft Matter* 2009, vol. 5, pp. 4256-4265
92. "Liquid-phase exfoliation of graphite towards solubilized graphenes", Bourlinos, A. B.; Georgakilas, V.; Zboril, R.; Steriotis, T. A.; Stubos, A. K., *Small* 2009, vol. 5, pp. 1841-1845
93. "Direct synthesis of carbon nanosheets by the solid-state pyrolysis of betaine", Bourlinos, A. B.; Steriotis, T. A.; Zboril, R.; Georgakilas, V.; Stubos, A., *Journal of Materials Science* 2009, vol. 44, pp. 1407-1411
94. "Pyrolytic formation and photoluminescence properties of a new layered carbonaceous material with graphite oxide-mimicking characteristics", Bourlinos, A. B.; Georgakilas, V.; Zboril, R.; Bakandritsos, A.; Stassinopoulos, A.; Anglos, D.; Giannelis, E. P., *Carbon* 2009, vol. 47, pp. 519-526

95. "Easy deposition of amorphous carbon films on glass substrates", Bourlinos, A. B.; Georgakilas, V.; Zboril, R., *Carbon* 2008, vol. 46, pp. 1801-1804
96. "Reaction of graphite fluoride with NaOH-KOH eutectic", Bourlinos, A. B.; Georgakilas, V.; Zboril, R.; Jancik, D.; Karakassides, M. A.; Stassinopoulos, A.; Anglos, D.; Giannelis, E. P., *Journal of Fluorine Chemistry* 2008, vol. 129, pp. 720-724
97. "Photoluminescent carbogenic dots", Bourlinos, A. B.; Stassinopoulos, A.; Anglos, D.; Zboril, R.; Georgakilas, V.; Giannelis, E. P., *Chemistry of Materials* 2008, vol. 20, pp. 4539-4541
98. "Multi-purpose organically modified carbon nanotubes: from functionalization to nanotube composites", Georgakilas, V.; Bourlinos, A. B.; Gournis, D.; Tsoufis, T.; Trapalis, C.; Mateo-Alonso, A.; Prato, M., *Journal of the American Chemical Society* 2008, vol. 130, pp. 8733-8740
99. "Synthesis, characterization and aspects of superhydrophobic functionalized carbon nanotubes", Georgakilas, V.; Bourlinos, A. B.; Zboril, R.; Trapalis, C., *Chemistry of Materials* 2008, vol. 20, pp. 2884-2886
100. "Surface functionalized carbogenic quantum dots", Bourlinos, A. B.; Stassinopoulos, A.; Anglos, D.; Zboril, R.; Karakassides, M.; Giannelis, E. P., *Small* 2008, vol. 4, pp. 455-458
101. "Synthesis and characterization of PbI<sub>2</sub> semiconductor quantum wires within layered solids", Koutselas, I.; Dimos, K.; Bourlinos, A. B.; Gournis, D.; Avgeropoulos, A.; Agathopoulos, S.; Karakassides, M. A., *Journal of Optoelectronics and Advanced Materials* 2008, vol. 10, pp. 58-65
102. "Synthesis and characterization of 2-D and 3-D covalent networks derived from triazine central cores and bridging aromatic diamines", Dallas, P.; Bourlinos, A. B.; Petridis, D.; Boukos, N.; Papadokostaki, K.; Niarchos, D.; Guskos, N., *Polymer* 2008, vol. 49, pp. 1137-1144
103. "Observation of multiple quantum transitions in magnetic nanoparticles", Noginova, N.; Weaver, T.; Giannelis, E. P.; Bourlinos, A. B.; Atsarkin, V. A.; Demidov, V. V., *Physical Review B* 2008, vol. 77, 014403 (5 pages)
104. "Large-scale synthesis, size control, and anisotropic growth of  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles: organosols and hydrosols", Tzitzios, V. K.; Bakandritsos, A.; Georgakilas, V.; Basina, G.; Boukos, N.; Bourlinos, A. B.; Niarchos, D.; Petridis, D., *Journal of Nanoscience & Nanotechnology* 2007, vol. 7, pp. 2753-2757
105. "Preparation of a water-dispersible carbon nanotube-silica hybrid", Bourlinos, A. B.; Georgakilas, V.; Zboril, R.; Dallas, P., *Carbon* 2007, vol. 45, pp. 2136-2139
106. "Magnetic resonance in nanoparticles: between ferro- and paramagnetism", Noginova, N.; Chen, F.; Weaver, T.; Giannelis, E. P.; Bourlinos, A. B.; Atsarkin, V. A., *Journal of Physics: Condensed Matter* 2007, vol. 19, 246208 (15 pages)

107. "Biopolymer networks for the solid-state production of porous magnetic beads and wires", Bakandritsos, A.; Bourlinos, A. B.; Tzitzios, V.; Boukos, N.; Devlin, E.; Steriotis, T.; Kouvelos, V.; Petridis, D., *Advanced Functional Materials* 2007, vol. 17, pp. 1409-1416
108. "Silicone-functionalized carbon nanotubes for the production of new carbon-based fluids", Bourlinos, A. B.; Georgakilas, V.; Boukos, N.; Dallas, P.; Trapalis, C.; Giannelis, E. P., *Carbon* 2007, vol. 45, pp. 1583-1585
109. "Preparation of a water-dispersible carbon-silica composite derived from a silylated molecular precursor", Bourlinos, A. B.; Bakandritsos, A.; Zboril, R.; Karakassides, M.; Trapalis, C., *Carbon* 2007, vol. 45, pp. 1108-1111
110. "Effect of magnetic nanoparticles to NMR and nuclear spin relaxation in liquid and solid hosts", Noginova N.; Weaver T.; King M.; Bourlinos A. B.; Giannelis E. P.; Atsarkin V. A., *Journal of Applied Physics* 2007, vol. 101, 09C102 (3 pages)
111. "NMR and spin relaxation in systems with magnetic nanoparticles", Noginova N.; Weaver T.; King M.; Bourlinos A. B.; Giannelis E. P.; Atsarkin V. A., *Journal of Physics: Condensed Matter* 2007, vol. 19, 076210 (10 pages)
112. "Synthesis, characterization and gas sorption properties of a molecularly-derived graphite oxide-like foam", Bourlinos, A. B.; Steriotis, T. A.; Karakassides, M.; Sanakis, Y.; Tzitzios, V.; Trapalis, C.; Kouvelos, E.; Stubos, A., *Carbon* 2007, vol. 45, pp. 852-857
113. "Synthesis of tunable sized capped magnetic iron oxide nanoparticles highly soluble in organic solvents", Dallas, P.; Bourlinos, A. B.; Niarchos, D.; Petridis, D., *Journal of Materials Science* 2007, vol. 42, pp. 4996-5002
114. "Synthesis and characterization of a  $\pi$ -conjugate, covalent layered network derived from condensation polymerization of the 4,4'-bipyridine-cyanuric chloride couple", Bourlinos, A. B.; Dallas, P.; Sanakis, Y.; Stamopoulos, D.; Trapalis, C.; Niarchos, D., *European Polymer Journal* 2006, vol. 42, pp. 2940-2948
115. "Functionalized carbon nanotubes: synthesis of meltable and amphiphilic derivatives", Bourlinos, A. B.; Georgakilas, V.; Tzitzios, V.; Boukos, N.; Herrera, R.; Giannelis E. P., *Small* 2006, vol. 2, pp. 1188-1191
116. "Surface functionalized nanoparticles with liquid-like behavior: the role of the constituent components", Bourlinos, A. B.; Giannelis, E. P.; Zhang, Q.; Archer, L. A.; Floudas, G.; Fytas, G., *The European Physical Journal E* 2006, vol. 20, pp. 109-117
117. "A graphite oxide-like carbogenic material derived from a molecular precursor", Bourlinos, A. B.; Giannelis, E. P.; Sanakis, Y.; Bakandritsos, A.; Karakassides, M.; Gjoka, M.; Petridis, D., *Carbon* 2006, vol. 44, pp. 1906-1912

118. "Functionalized ZnO nanoparticles with liquid-like behaviour and their photoluminescence properties", Bourlinos, A. B.; Stassinopoulos, A.; Anglos, D.; Herrera, R.; Anastasiadis, S. H.; Petridis, D.; Giannelis, E. P., *Small* 2006, vol. 2, pp. 513-516
119. "Facile synthesis of capped  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> and Fe<sub>3</sub>O<sub>4</sub> nanoparticles", Bourlinos, A. B.; Bakandritsos, A.; Georgakilas, V.; Tzitzios, V.; Petridis, D., *Journal of Materials Science* 2006, vol. 41, pp. 5250-5256
120. "Luminescence quenching of dyes by oxygen in core-shell soft-sphere ionic liquids", Han, B.-H.; Winnik, M. A.; Bourlinos, A. B.; Giannelis, E. P., *Chemistry of Materials* 2005, vol. 17, pp. 4001-4009
121. "Functionalized nanostructures with liquid-like behavior: expanding the gallery of available nanostructures", Bourlinos, A. B.; Chowdhury, S. Ray; Herrera, R.; Jiang, D. D.; Zhang, Q.; Archer, L. A.; Giannelis, E. P., *Advanced Functional Materials* 2005, vol. 15, pp. 1285-1290
122. "Weakly solvated PEG-functionalized silica nanoparticles with liquid-like behavior", Bourlinos, A. B.; Chowdhury, S. Ray; Jiang, D. D.; Zhang, Q., *Journal of Materials Science* 2005, vol. 40, pp. 5095-5097
123. "One-pot borohydride synthesis of magnetically modified lepidocrocite", Bourlinos, A. B.; Bakandritsos, A.; Petridis, D., *Chemistry Letters* 2005, vol. 34, pp. 666-667
124. "Surface functionalized nanoparticles with liquid-like behavior", Bourlinos, A. B.; Herrera, R. A.; Chalkias, N.; Jiang, D. D.; Zhang, Q.; Archer, L. A.; Giannelis, E. P., *Advanced Materials* 2005, vol. 17, pp. 234-237
125. "Layered organosilicate nanoparticles with liquid-like behavior", Bourlinos, A. B.; Chowdhury, S. Ray; Jiang, D. D.; An, Y.-U.; Zhang, Q.; Archer, L. A.; Giannelis, E. P., *Small* 2005, vol. 1, pp. 80-82
126. "A liquid derivative of 12-tungstophosphoric acid with unusually high conductivity", Bourlinos, A. B.; Raman, K.; Herrera, R.; Zhang, Q.; Archer, L. A.; Giannelis, E. P., *Journal of the American Chemical Society* 2004, vol. 126, pp. 15358-15359
127. "Shape fabrication of cotton-derived inorganic ultralight hollow ribbons", Bourlinos, A. B.; Bakandritsos, A.; Petridis, D., *Materials Research Innovations* 2004, vol. 8, pp. 71-83
128. "Engineering of silica monoliths and effect of clay doping on their properties", Bourlinos, A. B.; Jiang, D. D.; Das, R. N.; Giannelis, E. P., *Journal of Materials Chemistry* 2004, vol. 14, pp. 1995-2000
129. "Clay-organosiloxane hybrids: a potential route to cross-linked clay particles and fabrication of clay monoliths", Bourlinos, A. B.; Jiang, D. D.; Giannelis, E. P., *Chemistry of Materials* 2004, vol. 16, pp. 2404-2410
130. "Hydrophilic Co-Pt nanoparticles: synthesis, characterization and perspectives", Bourlinos, A. B.; Panagiotopoulos, I.; Niarchos, D.; Petridis, D., *Journal of Materials Research* 2004, vol. 19, pp. 1227-1233
131. "Clays as a host matrix in the synthesis of organic macrocycles", Georgakilas, V.; Gournis, D.; Bourlinos, A. B.; Karakassides, M. A.; Petridis, D., *Chemistry-A European Journal* 2003, vol. 9, pp. 3904-3908

132. "Graphite oxide: chemical reduction to graphite and surface modification with primary aliphatic amines and aminoacids", Bourlinos, A. B.; Gournis, D.; Petridis, D.; Szabó, T.; Szeri, A.; Dékány, I., *Langmuir* 2003, vol. 19, pp. 6050-6055
133. "Magnetic Fe<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub> composites prepared by a modified wet impregnation method", Karakassides, M. A.; Gournis, D.; Bourlinos, A. B.; Trikalitis, P. N.; Bakas, T., *Journal of Materials Chemistry* 2003, vol. 13, pp. 871-876
134. "A novel route towards iron- and chromium-containing MCM-41 materials through melt-exchange of the template", Bourlinos, A. B.; Karakassides, M. A.; Gournis, D.; Georgakilas, V.; Moukarika, A., *Chemistry Letters* 2003, vol. 32, pp. 38-39
135. "Shaped inorganic, organic and inorganic-organic composite shells from surface engineering of crystal templates", Bourlinos, A. B.; Petridis, D., *Journal of Materials Science* 2003, vol. 38, pp. 959-963
136. "A simple route towards magnetically modified zeolites", Bourlinos, A. B.; Zboril, R.; Petridis, D., *Microporous & Mesoporous Materials* 2003, vol. 58, pp. 155-162
137. "Side-chain modification of MCM-41 silica through the exchange of the surfactant template with charged functionalized organosiloxanes: an efficient route to valuable reconstructed MCM-41 derivatives", Bourlinos, A. B.; Karakostas, Th.; Petridis, D., *Journal of Physical Chemistry B* 2003, vol. 107, pp. 920-925
138. "Shape fabrication of millimeter sized metal containing carboxymethyl cellulose hollow capsules", Bourlinos, A. B.; Petridis, D., *Chemical Communications* 2002, pp. 2788-2789
139. "Surface modification of ultrafine magnetic iron oxide particles", Bourlinos, A. B.; Bakandritsos, A.; Georgakilas, V.; Petridis, D., *Chemistry of Materials* 2002, vol. 14, pp. 3226-3228
140. "Synthesis of capped ultrafine  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> particles from iron(III) hydroxide caprylate: a novel starting material for readily attainable organosols", Bourlinos, A. B.; Simopoulos, A.; Petridis, D., *Chemistry of Materials* 2002, vol. 14, pp. 899-903
141. "Environmental effect of MCM-41 mesoporous silica on solid thermochromic N-(5-chlorosalicylidene)aniline", Hadjoudis, E.; Bourlinos, A. B.; Petridis, D., *Journal of Inclusion Phenomena and Macrocyclic Chemistry* 2002, vol. 42, pp. 275-279
142. "Low-temperature water-gas shift reaction over Au/CeO<sub>2</sub> catalysts", Andreeva, D.; Idakiev, V.; Tabakova, T.; Ilieva, L.; Falaras, P.; Bourlinos, A. B.; Travlos, A., *Catalysis Today* 2002, vol. 72, pp. 51-57
143. "Exchange resins in shape fabrication of hollow inorganic and carbonaceous-inorganic composite spheres", Bourlinos, A. B.; Boukos, N.; Petridis, D., *Advanced Materials* 2002, vol. 14, pp. 21-24
144. "Magnetite and cobalt ferrite based clay composites", Bourlinos, A. B.; Devlin, E.; Boukos, N.; Simopoulos, A.; Petridis, D., *Clay Minerals* 2002, vol. 37, pp. 135-141

145. "Magnetic modification of the external surfaces in the MCM-41 porous silica: synthesis, characterization, and functionalization", Bourlinos, A. B.; Simopoulos, A.; Boukos, N.; Petridis, D., *Journal of Physical Chemistry B* 2001, vol. 105, pp. 7432-7437
146. "Synthesis and characterization of hollow clay microspheres through a resin template approach", Bourlinos, A. B.; Karakassides, M. A.; Petridis, D., *Chemical Communications* 2001, pp. 1518-1519
147. "Interlayer formation of cyclobis(paraquat-o-phenylene) by the reaction of laponite-4,4'-bipyridinium intercalates with alpha, alpha'-dibromo-o-xylene: a one electron template synthesis", Bourlinos, A. B.; Petridis, D., *Journal of Inclusion Phenomena and Macrocyclic Chemistry* 2001, vol. 40, pp. 147-151
148. "Silica-maghemite nanocomposites", Bourlinos, A. B.; Simopoulos, A.; Petridis, D.; Okumura, H.; Hadjipanayis, G., *Advanced Materials* 2001, vol. 13, pp. 289-291
149. "Chemical and X-ray diffraction peak broadening analysis, electron microscopy and IR studies of biological apatites", Psycharis, V.; Kalamakis, N.; Boukos, N.; Trapalis, C.; Bourlinos, A.; Karakasides, M., *Materials Science Forum* 2001, vol. 378, pp. 759-764
150. "Synthesis and characterization of magnetically modified clay composites", Bourlinos, A. B.; Karakassides, M. A.; Simopoulos, A.; Petridis, D., *Chemistry of Materials* 2000, vol. 12, pp. 2640-2645
151. "Synthesis and characterization of iron-containing MCM-41 porous silica by the exchange method of the template", Bourlinos, A. B.; Karakassides, M.A.; Petridis, D., *Journal of Physical Chemistry B* 2000, vol. 104, pp. 4375-4380
152. "Synthesis and characterization of copper containing mesoporous silicas", Karakassides, M. A.; Bourlinos, A. B.; Petridis, D.; Guerènte, L. C.; Labbè, P., *Journal of Materials Chemistry* 2000, vol. 10, pp. 403-408
153. "Location of Li(I), Cu(II), and Cd(II) in heated montmorillonite: evidence from specular reflectance infrared and electron spin resonance spectroscopies", Karakassides, M.A.; Madejová, J.; Arvaiová, B.; Bourlinos, A. B.; Petridis, D.; Komadel, P., *Journal of Materials Chemistry* 1999, vol. 9, pp. 1553-1558

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