

CURRICULUM VITAE

SIMEON AGATHOPOULOS

Diploma of Chemistry, Ph.D. of Chemical Engineering

Assistant Professor of “Ceramics Technology”

in the Dept. of Materials Science and Engineering of the University of Ioannina, Greece

Born : 31 January 1966, Athens, Greece
Citizenship : Greek
Current Address : Department of Materials Science and Technology
University of Ioannina
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Education, Research and Professional Experience:

1971-1983 : Basic studies, Athens, Greece.
1983-1988 : Dept. of Chemistry, University of Patras, Greece.
1989-1994 : Doctoral Thesis in Chemical Engineering Dept., University of Patras.
Lab. of Physical Metallurgy, Greece
1994-1996 : Post-Doctoral in Joint Research Centre,
Institute for Advanced Materials, Petten, The Netherlands.
1999-2005 : Post-Doctoral Researcher in Dept. of Ceramic and Glass Engineering,
University of Aveiro, Portugal.
2005-2006 : Assistant Professor, Dept. of Materials Science and Technology
University of Ioannina, Greece.
2006-2008 : Excellent Scientist invited by the Dept. of Materials Science and Technology
University of Ioannina, Greece for the European Project ENTER.
2009- : Assistant Professor of “Ceramics Technology”
Dept. of Materials Science and Engineering, University of Ioannina, Greece.

Military service:

1997-1998 : Greek Navy Force

Fellowships:

1989-1993 : Post graduate researcher of Institute of Chemical Engineering
and High Temperature Chemical Processes, (ICE/HT), Patras.
1994-1996 : Post-Doctoral Researcher of Human Capital and Mobility,
J.R.C., Inst. for Advanced Materials (IAM), Petten, The Netherlands.
1999-2000 : Post-Doctoral Researcher of University of Aveiro, Portugal.
2000-2006 : Post-Doctoral Researcher of the Portuguese Foundation of Science and
Technology ("FCT"), Portugal.

2006-2007 : Project of Introducing Ph.D. Researchers from Abroad in the Greek R & D System (ENTER), Greek General Secretariat of Research and Technology, and European Union.

Honours:

- 1996 : Excellent Scientist (by the Greek Ministry of National Defence).
- 2005 : Chair of the Session “Synthesis and Manufacturing” of the Symposium “S11-Bioceramics: Materials and Applications” of the 107th Annual Meeting & Exposition of the American Ceramic Society, Baltimore, MD, USA, April 10-13, 2005.
- 2006: Member of the International Advisory Committee of the Fifth China International Conference on High-Performance Ceramics, Changsha, China, May 10-13, 2007.
- 2007: Chair of Wetting Session of the 5th High Temperature Capillarity (HTC-2007) Congress, Alicante Spain, March 21-24, 2007.
- 2009: Organization of the 6th International High Temperature Capillarity (HTC-2009) Conference, Athens, Greece, May 6-9, 2009.
- 2009: Member of the Local Organizing Committee of the Workshop of the Greek Metallurgy Association and the Greek Ceramic Association, Metal-Ceramics for Advanced Technologies, Ioannina, April 3, 2009.
- 2009: Member of the Scientific Board of the First International Ceramic, Glass, Enamel, Glaze and Pigment Congress, SERES 09, Anadolu University, Yunusemre Campus, Congress Centre, Eskisehir, October 12-14, 2009.
- 2010: Chairman of the 4th Greek Conference of the Hellenic Society of Biomechanics, HSB (ELEMBIO), Ioannina, 4-6 June, 2010.
- 2011: Member of the International Advisory Committee of the Seventh China International Conference on High-Performance Ceramics, Xiamen, China, November 4-7, 2011.

Research Interests:

His research is in the area of ceramics glasses, glass ceramics and composites for biomedical, functional and structural applications. Specifically:

1. Ceramics (preparation methods), mechanical and thermal properties, surface characterization).
2. Bioceramics (application of ceramics in biomedicine, biocompatibility).
3. Ceramic-Metal interfaces, (wettability, work of adhesion, interfacial energy), and ceramic-metal composites (joining techniques, brazing).

Member of Scientific Societies:

1. The Greek Chemistry Society
2. The Hellenic Ceramic Society - The European Ceramic Society
3. The American Ceramic Society, (Engineering Ceramics Division).
4. European Society for Biomaterials
5. International Society for Ceramics in Medicine (ISCM).
6. Hellenic Society of Biomechanics (member of the Assembly, 2010-), (which is associated member of the International Society of Biomechanics)
7. Hellenic Society of Biomaterials (which is associated member of the European Society of Biomaterials).
8. Hellenic Society of Metal Materials (which is associated member of FEMS).
9. Marie Curie Fellowship Association - The Greek and Portuguese branches of M.C.F.A.
10. National Institute of Ceramic Engineers (NICE) of USA.

Participation in European and National Research Projects:

1. EUREKA (EU-294):
Biomaterials, medical materials (main researcher).
2. SCIENCE (SCI-0384-C):
The influence of oxygen on the interfaces formed between metals and oxide ceramics.
3. JOULE (JOU2-CT92-0063):
New SOFC materials and technology.
4. HUMAN CAPITAL AND MOBILITY (No 950153):
The kinetics of active metal braze spreading of ceramics (main researcher).
5. PORTUGUESE FOUNDATION OF SCIENCE & TECHNOLOGY (SFRH/1619/2000):
 - (a) Determination of Interfacial Interactions between Ceramic Oxides and Other Phases, with relevance to Biomedical Applications.
 - (b) Fabrication of short mullite fibres from kaolin to reinforce CMC bioceramic materials.
 - (c) Production and characterization of novel materials which involve ceramics and glasses for advanced applications with relevance to biomedicine and environmentally friendly aims.
6. UNIVERSITY OF AVEIRO:
 - (a) Biosensors made of zirconia and Ti-alloys.
 - (b) Composite scaffolds for bone tissue engineering (Institute for Investigation, I & DT Projects for Health Science and Technology 2002, budget 99.900 €, duration: 36 months).
7. PYTHAGORAS (II YP.14):
Development of bioactive and bio-mimetic inorganic materials via sol-gel method and surface bio-activation of glasses and glass-ceramics. (Financially supported by the Greek Minister of Education; duration: 9 months).

8. ENTER (04EP26):

Development of new ceramic and glass materials for dental applications (main researcher). (Carried out in the Department of Materials Science and Technology, University of Ioannina, Greece; Financially supported by the Greek General Secretariat of Research and Technology and the European Union; budget 78.000 €; duration: 24 months).

9. RESEARCH COMMITTEE OF THE UNIVERSITY OF IOANNINA (Code 80000):

Hydrogen storage materials for solar energy applications. 01/11/07-28/02/08. Sponsored by Innova Technolgy Solutions SRL.

Member of the Editorial Board of Journals:

The Open Crystallography Journal (ISSN 1874-8465) (*until 2010*)

Journals reviewer:

1. Biomaterials (IF 7.882)
2. Journal of Biomedical Materials Research A&B (IF 5.264)
3. Journal of Materials Chemistry (IF 5.099)
4. Acta Biomaterialia (IF 4.822)
5. Journal of the European Ceramic Society (IF 2.574)
6. Biomedical Materials (IF 2.467)
7. Materials Chemistry and Physics (IF 2.353)
8. Journal of Solid State Chemistry (IF 2.261)
9. Journal of Biomaterials Applications (IF 2.246)
10. Journal of the American Ceramic Society (IF 2.167)
11. Materials Research Bulletin (IF 2.145)
12. Journal of Alloys and Compounds (IF 2.134)
13. Materials Letters (IF 2.117)
14. Journal of Physics D-Applied Physics (IF 2.105)
15. Surface Science (IF 2.010)
16. Electrochemical and Solid-State Letters (IF 1.967)
17. Journal of Materials Science (IF 1.855)
18. Interface Science (it is now part of the J.Mater.Sci., IF 1.855)
19. Solid State Sciences (IF 1.828)
20. Journal of Luminescence (IF 1.795)
21. Microscopy Research and Technique (IF 1.712)
22. Journal of Materials Processing Technology (IF 1.567)
23. Journal of Non-Crystalline Solids (IF 1.483)
24. Journal of Materials Research (IF 1.395)
25. Journal of Physics and Chemistry of Solids (IF 1.381)
26. International Journal of Photoenergy (IF 1.345)
27. Materials Science and Engineering B (IF 1.100)
28. Vacuum (IF IF 1.048)
29. Metallurgical and Materials Transactions B (IF 0.963)
30. Journal of Materials Science: Materials in Electronics (IF 0.927)
31. Journal of Materials Engineering and Performance (IF 0.639)

32. Physics and Chemistry of Glasses (IF 0.500)
33. Ceramics Transactions (IF 0.000)
34. Materials Science Forum (IF 0.000)

Teaching – Writing

Notes, Books:

1. "Thermal analysis of metals and alloys". (in Greek)
S.Agathopoulos, G.N.Angelopoulos.
New Laboratory Exercise (for students) in Materials Lab, 39 pages.
Supplement of 8 pages about essay of experiment presentation.
2. "Preparation of ceramic powders with Sol-Gel method" (in Greek)
S.Agathopoulos
Notes of university students, pages 14.
3. "Programming and Control: The case of high temperature furnaces" (in Greek)
S.Agathopoulos
Notes of university students, pages 14.
4. "Biomaterials". (in Greek)
S.Agathopoulos.
Notes (for students), pages 300.
5. "100 Experiments of Chemistry". (in Greek)
S.Agathopoulos.
Pages 104.
6. "Brazing – wettability – interfacial diffusion". (in Greek)
S.Agathopoulos
Notes for university students (pages 54).
7. "Ancient Greek Ceramics". (in English and in Portuguese)
S.Agathopoulos
Notes for university students (pages 47).
8. Laboratory exercises on Biomaterials
S.Agathopoulos.
Notes of university students (under writing).

Assistance in Book Editions (in greek):

1. D.C.Papamantellos, "Special Subjects of Metallurgy", Patras 1990.
2. "Guide of Studies in Chemical Engineering Department of University of Patras", 1992-1993.
3. G.H.Sarantoglou, "Mechanical, Electrical and Electronic Designs", Patras 1994.

Teaching

A. Assistance in Chemical Engineering Dept. Univ.Patras, Greece (1989-1994):

1. Introduction to Materials Science (4 semesters).
2. Ceramics and Inorganic Binding Materials (3 semesters).
3. Materials Science and Technology (1 semester).
4. Laboratory of Physical Chemistry and Materials (7 semesters)
5. Laboratory of Metallurgy and Materials (1 semester).
6. Diploma Theses of 24 students.

B. Ceramic and Glass Engineering Department, Univ.Aveiro, Portugal (2000-2005):

1. Materials Joining (1 semester).
2. Advanced ceramics (1 semester).
3. Interfacial interactions between bioceramics and body substances (lecture to post-graduate courses, M.Sc. & Ph.D., in Biomedical Engineering – Univ.Porto).
4. Diploma Thesis of 1 student.
5. Master Thesis of 1 student.

C. Assistant Professor in Materials Science and Engineering Dept., Univ. Ioannina, Greece (2006-):

1. Materials Characterization Methods and Techniques (1 semester).
2. Bioceramics (1 semester).
3. Advanced Ceramics (1 semester).
4. Ceramics (1 semester).
5. Laboratory of Materials I “Introduction to Materials” (1 semester)
6. Laboratory of Materials II “Ceramics and Composites” (1 semester)
7. Diploma Theses: Supervision 3 students, Jury 9 students.
8. Master Theses: Supervision 2 students, Jury of 3 students.

Publications in International Refereed Journals:

Citation Index (September 2009): Total 437, 296 citations of other authors (14 not clarified).

h-index: 11

**: Journals not reported in the ISI*

1. Wettability and Interfacial Energies in SiC-Liquid Metal Systems.
P.Nikolopoulos, S.Agathopoulos, G.N.Angelopoulos, A.Naoumidis, H.Grubmeier.
J.Mater.Sci. 27 (1992) 139-145.
2. Interfacial Phenomena in Al₂O₃-Liquid Metal and Al₂O₃-Liquid Alloy Systems.
P.Nikolopoulos, S.Agathopoulos.
J.Eur.Ceram.Soc., 10 (1992) 415-424.
3. A Method for Estimation of Interfacial Energies in Ceramic-Liquid Metal and Alloy Systems.
S.Agathopoulos, A.Tsoga, P.Nikolopoulos.
Materials Science Forum, 126-128 (1993) 695-698.
4. A Method for the Calculation of Interfacial Energies in Al₂O₃ and ZrO₂/Liquid-Metal and Liquid-Alloy Systems.
P.Nikolopoulos, S.Agathopoulos, A.Tsoga.
J.Mater.Sci. 29 (1994) 4393-4398.
5. Wettability and Interfacial Interactions in Bioceramic-Body-Liquid Systems.
S.Agathopoulos, P.Nikolopoulos.
Journal of Biomedical Materials Research, 29 (1995) 421-429.
6. Preparation and Properties of Binary Oxide Bioceramics.
S.Agathopoulos, P.Nikolopoulos, A.Salomoni, A.Tucci, I.Stamenkovic.
J.Mater.Sci.:Mater.Med., 7 (1996) 629-636.
7. Work of Adhesion in Ceramic Oxide/Liquid Metal Systems.
D.Sotiropoulou, S.Agathopoulos, P.Nikolopoulos.
J.Adhesion Sci.Technol., 10 [10] (1996) 989-998.
8. * Brazing of Zirconia to Ti and Ti6Al4V.
S.Agathopoulos, P.Moretto, S.D.Peteves, J.V.Emiliano, R.N.Correia.
Ceramic Transactions, 77 (1997) 75-82.
9. * Biomaterials and Advanced Technology (in Chinese – Main Article).
Xu Jiayue, S.Agathopoulos.
Feature Article in “KeXue” (Science - Chinese Journal), 53 [3], (2001), p.54-57.
10. * Biomaterials: A review of the market (in Russian – Main Article).
S.Dorozhkin, S.Agathopoulos.
Feature Article in "Khimia i zhizn" (Chemistry and Life – XXI Century, Russian Journal), February 2002, p.8-10.
11. Interactions at Zirconia-Au-Ti Interfaces at High Temperatures.
S.Agathopoulos, R.N.Correia, E.Joanni, J.R.A. Fernandes.
Key Eng.Mater., 206-213 (2002) 487-490.
12. The Influence of BaO on the Reaction of Oxide Ceramics by Molten Aluminium Alloys.
M.I.L.L.Oliveira, S.Agathopoulos, J.M.F.Ferreira.
Key Eng.Mater., 206-213 (2002) 1711-1714.

13. The Influence of BaO Additives on the Reaction of Al₂O₃-SiO₂ Ceramics with Molten Al and Al-Si Alloy.
M.Oliveira, S.Agathopoulos, J.M.F.Ferreira.
Acta Materialia, 50 [6] (2002) 1441-1451.
14. Reactions at the Interface between Al₂O₃-SiO₂ Ceramics with Additives of Alkaline Earth Oxides and Liquid Al-Si Alloy.
M.Oliveira, S.Agathopoulos, J.M.F.Ferreira.
J.Mater.Res., 17 [3] (2002) 641-647.
15. The Influence of MgO, CaO and BaO Additives on the Microstructure and Mechanical Behaviour of Aluminosilicate Ceramics.
M.Oliveira, S.Agathopoulos, J.M.F.Ferreira.
Key Eng.Mater., 224-226 (2002), 385-388.
16. Interfaces in Bioceramics: Surface Energetics and Interfacial Interactions.
S.Agathopoulos.
Key Eng.Mater., 224-226 (2002), 417-424.
17. Refractoriness of Oxide Ceramics to Molten 356.0 Aluminium Alloy: The Influence of BaO, Temperature and Holding Time.
M.I.L.L.Oliveira, S.Agathopoulos, J.M.F.Ferreira.
Key Eng.Mater., 230-232 (2002), 307-311.
- 18.* A Review of Recent Investigations on Zirconia Joining for Biomedical Applications.
S.Agathopoulos, S.Pina, R.N.Correia.
Ceramic Transactions, 138 (2003) 135-147.
19. Structural Interpretation of the *In Vitro* Reactivity of SiO₂-MgO-Na₂O Glasses.
S.Agathopoulos, M.C.Ferro, J.Y.Xu, J.M.Oliveira, P.A.A.P.Marques, R.N.Correia, M.H.V.Fernandes.
Key Eng.Mater., 240-242 (2003) 217-220.
20. Interactions at the Surface of Oxide Bioceramics with Biological Liquids and Blood Cells.
S.Agathopoulos, A.J.Calado, J.Y.Xu, M.C.Ferro, M.H.V.Fernandes, M.Nedea, P.Nikolopoulos, R.N.Correia.
Key Eng.Mater., 240-242 (2003) 675-678.
21. The Fluorapatite-Anorthite System in Biomedicine.
S.Agathopoulos, D.U.Tulyaganov, P.A.A.P.Marques, M.C.Ferro, M.H.V.Fernandes, R.N.Correia.
Biomaterials, 24 [7] (2003) 1317 – 1331.
22. Glass-ceramics in the former Soviet Union: A review on industry-oriented developments.
D.U.Tulyaganov, S.Agathopoulos, V.V.Kharton, F.M.B.Marques.
Ind.Ceram., 23 [2] (2003) 101-115.
- 23.* Utilization of solid wastes from granite cutting processing in porcelain industry.
H.R.Fernandes, P.Torres, S.Agathopoulos, D.Tulyaganov, J.M.F.Ferreira.
Al-Azhar Bull. Sci., Special Edition, March 2003, 33-43.
- 24.* Ceramics and Glasses in Medicine: A Chemical and Structural Approach.
S.Agathopoulos, D.U.Tulyaganov, J.M.F.Ferreira.
Al-Azhar Bull. Sci., Special Edition, March 2003, 103-114.

- 25.* The phase diagram of the ternary fluorapatite-anorthite-diopside system and its application for producing glasses and glass-ceramics.
D.Tulyaganov, S.Agathopoulos, J.M.F.Ferreira
Al-Azhar Bull. Sci., Special Edition, March 2003, 115-126.
26. The influence of glucose and bovine serum albumin on the crystallization of a bone-like apatite from revised simulated body fluid.
S.V.Dorozhkin, E.I.Dorozhkina, S.Agathopoulos, J.M.F.Ferreira.
Key Eng.Mater., 254-256 (2004) 327-330.
27. Interfacial Reactions between Aluminosilicate Ceramics Doped with BaO and Molten Aluminium Alloys.
M.Oliveira, S.Agathopoulos, J.M.F.Ferreira.
Silicates Industriels, 69 [1-2] (2004) 3-6.
28. Network Connectivity and Bio-Mineralization of $0.45\text{SiO}_2-(0.45-x)\text{MgO}-x\text{K}_2\text{O}-0.1(3\text{CaO}\cdot\text{P}_2\text{O}_5)$ Glasses.
C.M.Queiroz, S.Agathopoulos, J.R.Frade, M.H.V.Fernandes
Materials Science Forum, 455-456 (2004) 383-387.
29. Interfacial reactions, thermodynamics and kinetics in doped aluminosilicate ceramics/ liquid Al-alloy contacting systems.
M.Oliveira, S.Agathopoulos, J.Lino, J.M.F.Ferreira.
Materials Science Forum, 455-456 (2004) 639-643.
30. Preparation of Mullite Whiskers from Kaolinite using CuSO_4 as Fluxing Agent.
S.Agathopoulos, H.R.Fernandes, D.Tulyaganov, J.M.F.Ferreira.
Materials Science Forum, 455-456 (2004) 818-821.
31. Synthesis of lithium aluminosilicate glass and glass-ceramics from spodumene material.
D.U.Tulyaganov, S.Agathopoulos, H.R.Fernandes, J.M.F.Ferreira.
Ceram.Int. 30 (2004) 1023-1030.
32. Incorporation of granite cutting sludge in industrial porcelain tile formulations.
P.Torres, H.R.Fernandes, S.Agathopoulos, D.U.Tulyaganov, J.M.F.Ferreira.
J.Eur.Ceram.Soc., 24 [10-11] (2004) 3177-3185.
33. Preparation and crystallization of glasses in the system tetrasilicic mica-fluorapatite-diopside.
D.U.Tulyaganov, S.Agathopoulos, H.R.Fernandes, J.M.Ventura, J.M.F.Ferreira.
J.Eur.Ceram.Soc., 24 [13] (2004) 3521-3528.
34. Synthesis and characterization of synthetic F-mica containing glass-ceramics in the system $\text{SiO}_2\cdot\text{Al}_2\text{O}_3\cdot\text{B}_2\text{O}_3\cdot\text{CaO}\cdot\text{MgO}\cdot\text{Li}_2\text{O}\cdot(\text{K},\text{Na})_2\text{O}\cdot\text{F}$
D.U.Tulyaganov, S.Agathopoulos, H.R.Fernandes, J.M.F.Ferreira.
J.Mater.Res., 19 [4] (2004) 1234-1242.
35. The influence of Y_2O_3 -containing sintering additives on the oxidation of Si_3N_4 -based ceramics and the interfacial interactions with liquid Al-alloys.
M.Oliveira, S.Agathopoulos, J.M.F.Ferreira.
J.Eur.Ceram.Soc., 25 (2005) 19-28.
- 36.* Effect of isomorphic substitutions on crystallization of mica and amphibole phases in glasses of the system $\text{SiO}_2\cdot\text{Al}_2\text{O}_3\cdot\text{B}_2\text{O}_3\cdot\text{CaO}\cdot\text{MgO}\cdot\text{Li}_2\text{O}\cdot(\text{K},\text{Na})_2\text{O}\cdot\text{F}$.
S.Pina, H.R.Fernandes, S.Agathopoulos, D.U.Tulyaganov, J.M.F.Ferreira.
Ceramic Transactions, 170 (2005) 225-236.

37. Migration of liquid phase in low temperature sintering of AlN.
R.Fu, K.Chen, S.Agathopoulos, M.C. Ferro, D.U. Tulyaganov, J.M.F.Ferreira.
J.Mater.Sci., 40 (2005) 2425-2429.
38. A New Model Formulation of the SiO₂-Al₂O₃-B₂O₃-MgO-CaO-Na₂O-F glass-ceramics.
S.Agathopoulos, D.U.Tulyaganov, P.Valerio, J.M.F.Ferreira.
Biomaterials, 26 (2005) 2255-2264.
39. Stages of Reactive Wetting.
S.Agathopoulos, D.U.Tulyaganov, J.M.F.Ferreira.
Key Eng.Mater., 280-283 (2005) 1801-1804.
40. The influence of Sintering Temperature on Mechanical and Microstructural Properties of Bovine Hydroxyapatite.
G.Goller, F.N.Oktar, S.Agathopoulos, D.U.Tulyaganov, J.M.F.Ferreira, E.S.Kayali, I.Peker.
Key Eng.Mater., 284-286 (2005) 325-328.
41. Attachment of Blood Cells onto ZrO₂ and SiO₂-Containing Glass.
P.Valerio, S.Agathopoulos, A.J.Calado, M.F.Leite, A.M.Goes
Key Eng.Mater., 284-286 (2005) 671-674.
42. The Influence of Sintering Temperature on the Properties of Composites of Biologic Hydroxyapatite and Zirconia.
F.N.Oktar, Y.Genc, G.Goller, S.Agathopoulos, D.U.Tulyaganov, J.M.F.Ferreira, E.S.Kayali, S.Salman.
Key Eng.Mater., 284-286 (2005) 709-712.
43. Interfacial interactions between liquid new biocompatible model glasses and solid metallic and ceramic substrates used in biomedicine.
I.A.Key, S.Pina, S.Agathopoulos, D.U.Tulyaganov, J.M.F.Ferreira.
Key Eng.Mater., 284-286 (2005), 835-838.
44. Surface energies acting at the interfaces of ceramics and glasses while in contact with organic and biological liquids.
S.Agathopoulos, M.Nedea, B.Ghiban, J.M.F.Ferreira, P.Nikolopoulos
Key Eng.Mater., 284-286 (2005), 1023-1026.
45. Direct nitridation of molten Al (Mg, Si) alloy to AlN.
J.Haibo, K.Chen, Z.Heping, S.Agathopoulos, O.Fabrichnaya, J.M.F. Ferreira.
Journal of Crystal Growth, 281 (2005), 639-645.
46. Hydroxyapatite scaffolds hydrothermally grown from aragonitic cuttlefish bones.
J.H.G.Rocha, A.F.Lemos, S.Kannan, S.Agathopoulos, J.M.F.Ferreira.
J.Mater.Chem., 15 [47] (2005) 5007-5011.
47. Scaffolds for bone restoration from cuttlefish.
J.H.G.Rocha, A.F.Lemos, S.Agathopoulos, P.Valerio, S.Kannan, F.N.Oktar, J.M.F.Ferreira.
Bone, 37 (2005) 850–857.
48. Aqueous tape casting processing of low dielectric constant cordierite based glass-ceramics - Selection of binder.
S.Mei, J.Yang, X.Xu, S.Quaresma, S.Agathopoulos, J.M.F.Ferreira.
J.Eur.Ceram.Soc., 26 (2006) 67–71.
49. Influence of lithium oxide as auxiliary flux on the properties of triaxial porcelain bodies.

- D.U.Tulyaganov, S.Agathopoulos, H.R.Fernandes, J.M.F.Ferreira.
J.Eur.Ceram.Soc., 26 (2006) 1131-1139.
50. Synthesis of glass-ceramics in the CaO-MgO-SiO₂ system with B₂O₃, P₂O₅, Na₂O and CaF₂ additives.
D.U.Tulyaganov, S.Agathopoulos, J.M.Ventura, M.A.Karakassides, O.Fabrichnaya, J.M.F.Ferreira.
J.Eur.Ceram.Soc., 26 (2006) 1463-1471.
 51. Low temperature synthesis of anorthite based glass-ceramics via sintering and crystallization of glass-powder compacts.
V.M.F.Marques, D.U.Tulyaganov, S.Agathopoulos, V.Kh.Gataullin, G.P. Kothiyal, J.M.F.Ferreira.
J.Eur.Ceram.Soc., 26 (2006) 2503-2510.
 52. Processing of glass-ceramics in the SiO₂-Al₂O₃-B₂O₃-MgO-CaO-Na₂O-(P₂O₅)-F system via sintering and crystallization of glass powder compacts.
D.U.Tulyaganov, S.Agathopoulos, H.R.Fernandes, J.M.F.Ferreira.
Ceram.Int., 32 (2006) 195-200.
 53. Influence of Li₂O-doping on non-isothermal evolution of phases in K-Na containing aluminosilicate matrix.
D.U.Tulyaganov, S.Agathopoulos, H.R.Fernandes, O.Fabrichnaya, J.M.F.Ferreira.
J.Am.Ceram.Soc., 89 [1] (2006) 292-297.
 54. Hydrothermal growth of hydroxyapatite scaffolds from aragonitic cuttlefish bones.
J.H.G.Rocha, A.F.Lemos, S.Agathopoulos, S.Kannan, P.Valerio, J.M.F.Ferreira.
J.Biomed.Mater.Res., 77A (2006) 160-168.
 55. Effect of sintering of temperature on mechanical and microstructural properties of bovine hydroxyapatite (BHA).
G.Goller, F.N.Oktar, S.Agathopoulos, D.U.Tulyaganov, J.M.F.Ferreira, E.S.Kayali, I.Peker.
J.Sol-Gel Sci.Techn., 37 (2006) 111-115.
 56. Preparation and characterization of high compressive strength foams from sheet glass.
D.U.Tulyaganov, H.R.Fernandes, S.Agathopoulos, J.M.F.Ferreira.
J.Porous Mater., 13 (2006) 133-139.
 57. Influence of sintering temperature on mechanical properties of biologically derived hydroxyapatite bodies.
F.N. Oktar, H.Aydin, G.Göller, S.Agathopoulos, G.Rocha, B.Sennaroglu, S.Kayali.
Key Eng.Mater., 309-311 (2006) 45-48.
 58. Sintering effect on mechanical properties of composites of bovine hydroxyapatite (BHA) and Li₂O.
F.N.Oktar, M.R.Demirer, O.Gunduz, Y.Genc, S.Agathopoulos, I.Peker, L.S.Ozyegin, S.Salman.
Key Eng.Mater., 309-311 (2006) 49-52.
 59. Sintering effect on mechanical properties of composites of hydroxyapatite lanthanum oxide (HA-La₂O₃).
F.N.Oktar, L.S.Ozyegin, O.Meydanoglu, H.Aydin, S.Agathopoulos, G.Rocha, B.Sennaroglu, S.Kayali.
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Total Impact Factor (TIF)

<i>Journal</i>	<i>Impact factor 2010</i>	<i>Number of Papers</i>	<i>TIF</i>
Biomaterials	7.882	3	23.646
Int. J. Cardiol.	6.802	1	6.802
J.Biomed.Mater.Res.	5.264	2	10.528
J.Mater.Chem.	5.099	1	5.099
Acta Biomaterialia	4.822	1	4.822
Bone	4.601	1	4.601
J. Power Sources	4.283	1	4.283
Acta Mater.	3.781	1	3.781
Mini-Rev. Med. Chem.	2.622	1	2.622
J.Eur.Ceram.Soc.	2.574	12	30.888
J. Electrochem. Soc.	2.420	1	2.420
J.Mater.Sci.:Mater.Med.	2.325	4	9.300
J.Am.Ceram.Soc.	2.167	6	13.002
Mater.Res.Bull.	2.145	2	4.290
J.Alloys Comp.	2.134	1	2.134
Mater.Lett.	2.117	2	4.234
Mater.Sci.Eng.A	2.090	1	2.090
J.Appl.Phys.	2.064	1	2.064
Composite Structures	2.028	1	2.028
Powder Techn.	1.887	1	1.887
J.Mater.Sci.	1.855	4	7.420
J.Lumin.	1.795	2	3.590
J.Cryst.Growth	1.737	2	3.474
Mater. Design	1.696	1	1.696
Opt.Mater.	1.678	1	1.678
J.Mol.Struct.	1.599	1	1.599
Mater.Sci.Eng.B	1.560	1	1.560
J.Sol-Gel Sci.Techn.	1.525	2	3.050
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J.Comp.Mater.	0.968	2	1.936
J.Thermoplast.Compos.	0.865	1	0.865
J.Ceram.Soc.Japan	0.795	2	1.590
Adv.Appl.Ceram.	0.726	2	1.452
J. Electronic Packaging	0.564	1	0.564
J.Optoelectron.Adv.Mater.	0.412	1	0.412
Mater.Sci.Forum*	0.399	4	1.596

Ind.Ceram.	0.286	1	0.286
Key Eng.Mater.*	0.224	29	6.496
Silicates Industriels**	0.071	1	0.071
Int.J.Mech.Mater.Des.	0.000	1	0.000
J.Austr.Ceram.Soc.	0.000	1	0.000
Ceram.Trans.	0.000	3	0.000
Al-Azhar Bull. Sci.	0.000	3	0.000
KeXue	0.000	1	0.000
Khimia i zhizn	0.000	1	0.000
TOTAL		128	201.760

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 98. Bond-coating: The potential of plasma-spray in biomedicine.
F.N.Oktar, S.Agathopoulos, T.M.L.Goerna, I.Peker, J.M.F.Ferreira.
107th Annual Meeting & Exposition of the American Ceramic Society (Symposium S-11-Bioceramics: Materials and Applications), Baltimore, MD, USA, April 10-13, 2005, Abstract Book p. 98.
 99. The effect of Li_2O -doping on K-Na containing aluminosilicate matrices of triaxial porcelain bodies.
S.Agathopoulos, D.U.Tulyaganov, H.R.Fernandes, O.Fabrichnaya, J.M.F. Ferreira.
107th Annual Meeting & Exposition of the American Ceramic Society (Symposium WM-Whitewares & Materials Division General Program), Baltimore, MD, USA, April 10-13, 2005, Abstract Book p. 258.
 100. Joining of bioceramics.
S.Agathopoulos, D.Tulyaganov, J.M.F.Ferreira.
Ninth Conference and Exhibition of the European Ceramic Society, 19-23 June 2005, Portoroz, Slovenia, Abstract Book p. 206.
 101. Influence of lithium oxide as auxiliary flux on the properties of triaxial porcelain bodies.
D.U. Tulyaganov, H.R. Fernandes, S.Agathopoulos, J.M.F. Ferreira.

- Invited Lecture**, Ninth Conference and Exhibition of the European Ceramic Society, 19-23 June 2005, Portoroz, Slovenia, Abstract Book p. 226.
102. The influence of incorporation of ZnO-containing glazes on the properties of hard porcelains.
D.Tulyaganov, H.R.Fernandes, S.Agathopoulos, J.M.F.Ferreira.
Ninth Conference and Exhibition of the European Ceramic Society, 19-23 June 2005, Portoroz, Slovenia, Abstract Book p. 229.
 103. Hydroxyapatite-titanium dioxide (HA-TiO₂) composites.
F.N.Oktar, G.Goller, O.Meydanoglu, S.Agathopoulos, G.Rocha, S.Ozyegin, B.Sennaroglu, S.Kayali.
XIV International Materials Research Congress, Cancun, Mexico, 21-25 August, 2005, Abstract book p. 23 of Symposium 14.
 104. Joining of bioceramics.
S.Agathopoulos, D.U.Tulyaganov, J.M.F.Ferreira, O.Fabrichnaya.
Highlight lecture, European Congress on Advanced Materials and Processes EUROMAT-2005, (Topic Area: Materials Processing, Subtopic: Joining, Interfacial Adhesion and Capillarity), Prague, Czech Republic, 5-8 September, 2005.
 105. Control of morphology of aluminium nitride particles synthesized by self-propagating high-temperature synthesis (SHS).
R.Fu, K.Yang, K.Chen, S.Agathopoulos, J.M.F.Ferreira.
European Congress on Advanced Materials and Processes EUROMAT-2005, (Topic Area: Materials Processing, Subtopic: Powder and Ceramic Processing), Prague, Czech Republic, 5-8 September, 2005.
 106. New formulations of glasses and glass-ceramics designed for clinical applications.
D.U.Tulyaganov, S.Agathopoulos, S.Pina, H.R.Fernandes, J.M.Ventura, J.M.F.Ferreira.
European Congress on Advanced Materials and Processes EUROMAT-2005, (Topic Area: Biomaterials, Subtopic: Biomedical materials), Prague, Czech Republic, 5-8 September, 2005.
 107. Sintering effect on mechanical properties of composites of enamel derived hydroxyapatite (EHA) and titanium.
O.Gunduz, F.N.Oktar, B.Oz, H.Altundal, S.Agathopoulos, S.Salman, L.Ovecoglu.
18th International Symposium on Ceramics in Medicine "Bioceramics-18", Kyoto, Japan, 5-8 December, 2005, Abstract Book p. 22.
 108. Sintering effects on mechanical properties of hydroxyapatite-titanium dioxide (HA-TiO₂) composites.
F.N.Oktar, O.Meydanoglu, G.Goller, S.Agathopoulos, G.Rocha, S.Ozyegin, N.Eruslu, I.Peker, S.Kayali.
18th International Symposium on Ceramics in Medicine "Bioceramics-18", Kyoto, Japan, 5-8 December, 2005, Abstract Book p. 36
 109. Sintering effects on mechanical properties of composites of bovine derived hydroxyapatite (BHA) with titanium.
L.S.Ozyegin, O.Gunduz, F.N.Oktar, B.Oz, S.Agathopoulos, S.Salman, L.Ovecoglu.
18th International Symposium on Ceramics in Medicine "Bioceramics-18", Kyoto, Japan, 5-8 December, 2005, Abstract Book p. 36.
 110. Influence of sintering temperature on mechanical properties of biologically derived hydroxyapatite bodies.

- F.N.Oktar, H. Aydin, G.Goller, S.Agathopoulos, G.Rocha, B.Sennaroglu, S.Kayali.
18th International Symposium on Ceramics in Medicine “Bioceramics-18”, Kyoto, Japan, 5-8 December, 2005, Abstract Book p. 40.
111. Sintering effect on mechanical properties of composites of bovine hydroxyapatite (BHA) and Li_2O .
F.N.Oktar, M.R.Demirer, O.Gunduz, Y.Genc, S.Agathopoulos, I.Peker, S.L. Ozyegin, S.Salman.
18th International Symposium on Ceramics in Medicine “Bioceramics-18”, Kyoto, Japan, 5-8 December, 2005, Abstract Book p. 40.
 112. Sintering effect on mechanical properties of composites of hydroxyapatite lanthanum oxide ($\text{HA-La}_2\text{O}_3$).
F.N.Oktar, S.Ozyegin, O.Meydanoglu, H.Aydin, S.Agathopoulos, G.Rocha, B.Sennaroglu, S.Kayali.
18th International Symposium on Ceramics in Medicine “Bioceramics-18”, Kyoto, Japan, 5-8 December, 2005, Abstract Book p. 40.
 113. Biocompatibility of the outer prismatic and the inner nacreous layers of four different molluscs.
F.N.Oktar, P.Valério, G.Göller, S.Agathopoulos, A.M.Goes, M.F.Leite.
18th International Symposium on Ceramics in Medicine “Bioceramics-18”, Kyoto, Japan, 5-8 December, 2005, Abstract Book p. 43.
 114. Sintering effects on mechanical properties of bovine derived hydroxyapatite (BHA) doped with 8% yttria stabilized zirconia.
F.N.Oktar, O.Gunduz, B.Oz, L.Ovecoglu, S.Agathopoulos, S.Salman.
1st Chinese-European Symposium Biomaterials in Regenerative Medicine, Suzhou, China, 3-7 April, 2006.
 115. Bioceramics in medical applications (in Greek).
S.Agathopoulos, D.U.Tulyaganov, A. Saranti, M.A.Karakassides.
Invited Lecture, 1st National Congress of the Hellenic Society of Biomechanics, Trikala, Greece, 15-16 April 2006.
 116. Influence of lithium oxide on the properties of porcelain bodies. (in Greek).
S.Agathopoulos.
Chemical Eng. Dept., National Technical Univ. Athens, Greece, 29 May 2006.
 117. Improvement of the microstructure of bovine hydroxyapatite with addition of commercial machineable cordierite and potassium mica.
F.N.Oktar, G.Goller, S.Agathopoulos, L.S. Ozyegin, O. Meydanoglu, E.S. Kayali.
3rd International Sol-Gel Conference, Guanajuato, Mexico, 3-8 September 2006.
 118. Production and properties of MgSiO_3 -containing glass-ceramics aiming for sealants in the technology of SOFC.
A.Goel, D.U.Tulyaganov, S.Agathopoulos, M.A.Karakassides, J.M.F.Ferreira.
8th ESG Conference, Sunderland, UK, 10-14 September, 2006, Abstract Book p. 113.
 119. Hydroxyapatite scaffolds for bone restoration from cuttlefish
J.H.G.Rocha, A.F.Lemos, S.Agathopoulos, J.M.F.Ferreira.
20th European Conference (ESB-2006), September 27 to October 1, 2006, Nantes, France, Program Book p. 40 (P24).
 120. Bovine Hydroxyapatite (BHA) Magnesium Oxide Composites.
S. Ozyegin, O. Gunduz, N. Demirkol, S. Agathopoulos, I. Peker, F. Oktar.

- 20th European Conference (ESB-2006), September 27 to October 1, 2006, Nantes, France, Program Book p. 55 (P265).
121. Bioceramics and Bioglasses (in Greek).
S.Agathopoulos, A.Stamboulis, D.U.Tulyaganov, M.A.Karakassides.
First workshop of the Hellenic Society of Biomaterials “Biomaterials in Greece Today”, War Museum of Athens, Athens, Greece, 7-8 October, 2006.
 122. Measurements of F-delivery from dental materials: In vitro methodology (in Greek).
A.Spiliotopoulos, S.Agathopoulos, M.A.Karakassides.
First workshop of the Hellenic Society of Biomaterials “Biomaterials in Greece Today”, War Museum of Athens, Athens, Greece, 7-8 October, 2006.
 123. Improvement of microstructure of bovine hydroxyapatite (BHA) with calcium fluoride.
L.S.Ozyegin, F.N.Oktar, S.Agathopoulos, S.Salman, Y.Bozkurt, E.Demirkesen, N.Eruslu.
19th International Symposium on Ceramics in Medicine “Bioceramics-19”, Chengdu, China, 10-13 October, 2006.
 124. Sintering effect on mechanical properties of commercial inert glass containing bovine hydroxyapatite (BHA) composites.
S.Salman, F.N.Oktar, O.Gunduz, S.Agathopoulos, M.L.Ovecoglou, S. Kayali,.
19th International Symposium on Ceramics in Medicine “Bioceramics-19”, Chengdu, China, 10-13 October, 2006.
 125. Improvement of the microstructure of bovine hydroxyapatite (BHA) with yttria.
L.S.Ozyegin, S.Salman, F.N.Oktar, S.Agathopoulos, O.Meydanoglu, S.Akesi, I Yukler.
19th International Symposium on Ceramics in Medicine “Bioceramics-19”, Chengdu, China, 10-13 October, 2006.
 126. Highly bioactive porous composites of bovine hydroxyapatite (BHATi, BHA-TiO₂, BHA-Li₂O).
F.N.Oktar, S.Agathopoulos, G.Goller, H.Gökçe, S. Kayali, S.Salman.
19th International Symposium on Ceramics in Medicine “Bioceramics-19”, Chengdu, China, 10-13 October, 2006.
 127. Natural hydroxyapatite magnetron sputtered films.
A.Slav, G.E.Stan, C.Morascanu, F.N.Oktar, S.Agathopoulos, L.S.Özyeğin, A.Inanculescu.
BiomMedD 2006, A Doua Conferinta Internationala “Biomaterials & Medical Devices” Sı A 5-A Adunare Generala A Societati Romane De Biomateriale, Iasi, 09-11 Noiembrie 2006 Romania.
 128. The influence of bond-coating on plasma sprayed alumina-titania,doped with biologically derived hydroxyapatite, on stainless steel.
S.Salman, B.Cal, O.Gunduz, S.Agathopoulos, F.N.Oktar.
53rd International Symposium & Exhibition of the American Vacuum Society (AVS), San Francisco, CA, USA, November 12-17, 2006.
 129. New bioactive glasses based on the CaO-MgO-SiO₂ system with B₂O₃, Na₂O, CaF₂ and P₂O₅ additives.
D.U.Tulyaganov, S.Agathopoulos, H.R.Fernandes, J.M.G.Ventura, J.M.F.Ferreira.
VSR Murthy memorial symposium, IIT-Kanpur, India, 8 December, 2006.
 130. Glass-ceramics aiming for sealants in the technology of SOFC.
J.M.F.Ferreira, A.Goel, D.U.Tulyaganov, S.Agathopoulos.

- Advances in Nuclear Materials, Processing, Performance and Phenomena, Satellite conference on Materials Behaviour: Far From Equilibrium. Bhabha Atomic Centre, Mumbai, India, December 12-16, 2006.
131. Wetting and interfacial interactions between clinopyroxenes and SOFC components.
S.Agathopoulos, A.Goel, D.U.Tulyaganov, J.M.F.Ferreira.
5th High Temperature Capillarity Conference (HTC-2007), Alicante, Spain, March 21-24, 2007, Abstract book 52.
 132. Interfaces in composite dental biomaterials using new bioactive glasses and glass-ceramics.
S.Agathopoulos, A.Goel, A.Spiliotopoulos, D.U.Tulyaganov, J.M.F.Ferreira, M.A.Karakassides.
5th High Temperature Capillarity Conference (HTC-2007), Alicante, Spain, March 21-24, 2007, Abstract book 106.
 133. Carbon nano-structured composites.
D.Gournis, S.Agathopoulos, M.A.Karakassides.
Invited Lecture in the College of Materials Science and Technology, Nanjing University of Aeronautics and Astronautics, Nanjing, China, 8 May, 2007.
 134. Composites with carbon nano-structures: Filling interlayers and nano-tubes.
D.Gournis, S.Agathopoulos, M.A.Karakassides.
Plenary Lecture in the Fifth Chinese International Conference on High-Performance Ceramics (CICC-5), Changsha, China, May 10-13, 2007. Abstract book p. 84.
 135. Joining of bioceramics.
S.Agathopoulos.
Invited Lecture in the Fifth Chinese International Conference on High-Performance Ceramics (CICC-5), Changsha, China, May 10-13, 2007. Abstract book p. 150-151.
 136. New formulations of glasses and glass-ceramics for clinical applications.
S.Agathopoulos, D.U.Tulyaganov, M.A.Karakassides.
Invited Lecture in the Fifth Chinese International Conference on High-Performance Ceramics (CICC-5), Changsha, China, May 10-13, 2007. Abstract book p. 159.
 137. Joining of bioceramics.
S.Agathopoulos.
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 138. Design of new composition of glass-ceramics aiming for SOFC sealants.
S.Agathopoulos, A.Goel, D.U.Tulyaganov, J.M.F.Ferreira.
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S.Agathopoulos.
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 140. Carbon nano-structured composites.
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141. Carbon nano-structured composites.
D.Gournis, S.Agathopoulos, M.A.Karakassides.
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142. Synthesis and characterization of sol-gel derived bioactive glasses containing magnetic nanoparticles.
M.Baikousi, S.Agathopoulos, I.Panagiotopoulos, A.D. Georgoulis, M.Louloudi, M.A.Karakassides.
Magnetic Nanoparticles: Challenges and Future Prospects, the Netherlands, 18-22 June 2007.
143. Nanosized Semiconductor Particles within Porous Solids: Synthesis and Characterization
M.A.Karakassides, K.Dimos, I.Koutselas, A.Bourlinos, D.Gournis, S.Agathopoulos.
Invited Lecture in the 8th International Balkan Workshop on Applied Physics held in Constanta-Romania, in 5-7 July 2007.
144. The influence of bond-coating on plasma-sprayed alumina-titania, doped with biological derived hydroxyapatite, on stainless steel.
S.Salman, B.Cal, O.Gunduz, S.Agathopoulos, F.N.Oktar.
3rd International Conference on Advanced Research in Virtual and Rapid Prototyping, Lieria, Portugal, 24-29 September 2007. Proceedings pp. 289-294.
145. Contribution to the study of fracture strength tests for all-ceramic restorations.
A.Spiliotopoulos, E.Dokos, S.Agathopoulos, M.A.Karakassides.
31st Annual Conference of the European Prosthodontic Association, "From metal to glass and polymer", Athens, Greece, 11-13 October, 2007.
146. Rough bioglass films prepared by magnetron sputtering.
A.Slav, A.Ianculescu, C.Morosanu, A.Saranti, I.Koutselas, S.Agathopoulos, M.A.Karakassides.
20th International Symposium on Ceramics in Medicine "Bioceramics-20", Nantes, France, 24-26 October, 2007.
147. Improvement of microstructure of bovine hydroxyapatite (BHA) with machineable fluorapatite glass (MFG).
O.Gunduz, E.S.Kayali, G.Goller, I.Goker, S.Agathopoulos, F.N.Oktar.
20th International Symposium on Ceramics in Medicine "Bioceramics-20", Nantes, France, 24-26 October, 2007.
148. Synthesis and characterization magnetic bioactive glasses (in Greek).
M.Baikousi, I.Panagiotopoulos, S.Agathopoulos, M.Louloudi, M.A.Karakassides.
3rd Greek Congress on Porous Materials, Thessaloniki, 1-2 November 2007.
149. Hydroxyapatite bioaterials with biological origin (in Greek).
S.Agathopoulos, F.N.Oktar, M.A.Karakassides.
2nd Workshop of the Greek Society of Biomaterials, Athens, 30 November – 1 December, 2007.
150. New lithium-containing porcelains: Form laboratory to industry. (in Greek).
S.Agathopoulos.
Department of Materials Science and Engineering, University of Ioannina, Greece, 10 January, 2008.

151. Engineering of single crystalline, fine-grained glass ceramic material from fly ash wastes.
K.C.Vasilopoulos, D.U.Tulyaganov, S.Agathopoulos, M.A.Karakassides, J.M.F.Ferreira, D.Tsipas.
Advanced Processing for Novel Functional Materials “APNFM 2008”, Dresden, Germany, 23-25 January, 2008.
152. Bioceramics joining: Practice and analysis (in Greek).
S.Agathopoulos.
Invited Lecture in the “1st Workshop of Introduction to Academic and Industrial Research”, Scientific and Technology Park of Epirus, Ioannina, 27 March, 2008.
153. Influence of TCP sintering process on osteoblast viability.
U.Tuyel, I.Peixoto, P.Valerio, E.Toksoy, A.M.Goes, S.Agathopoulos, F.N.Oktar.
18th Interdisciplinary Research Conference on Injectable Biomaterials/ Biomechanics for Minimally Invasive Clinical Applications “Griboi 2008”, Montreal, Canada, 5-6 May, 2008, Abstract book p. 12.
154. Sintering Effect on Mechanical Properties of Composites of Bovine hydroxyapatite (BHA) and Boroxide Containing Bioactive Bioglass (BBB).
O.Gunduz, S. Salman, S.Agathopoulos, F.N.Oktar.
Minimally Invasive Clinical Applications “Griboi 2008”, Montreal, Canada, 5-6 May, 2008, Abstract book p. 68.
155. Production and characterization of bioceramic powders of natural-biological origin from common nacre *Venus Verrucosa* with ultrasonic method.
U. Tuyel, E.Toksoy Oner, S.Agathopoulos, F.N.Oktar.
15th International Vascular Biology Meeting “IVBM-2008”, Sydney, Australia, 1-5 June, 2008, P-034.
156. Influence of boroxide containing bioactive bioglasses (BBB) on osteoblast viability.
P.Valerio, A.M.Goes, S.Agathopoulos, S.Yilmaz, F.N.Oktar.
15th International Vascular Biology Meeting “IVBM-2008”, Sydney, Australia, 1-5 June, 2008, P-035.
157. Conversion of low-silica fly-ash into bulk nucleated fine grained mono-mineral glass-ceramic.
K.C.Vasilopoulos, D.U.Tulyaganov, S.Agathopoulos, M.A.Karakassides, J.M.F.Ferreira, D.Tsipas.
9th Conference of the European Society of Glass (ESG) “Glass, the Challenge for the 21st Century”, Trencin, Slovakia, 22-26 June, 2008.
158. Glasses chemical durability.
I. Koutselas, E. Diamanti, M. A. Karakassides, S. Agathopoulos.
9th Conference of the European Society of Glass (ESG) “Glass, the Challenge for the 21st Century”, Trencin, Slovakia, 22-26 June, 2008.
159. Production of bioactive nano-powders of TCP and hydroxyapatite from cuttlefish bone by hot-plate method.
U.Tuyel, E.Toksoy Oner, S.Agathopoulos, O. Gunduz, F.N.Oktar.
5th International Conference on Nanosciences & Nanotechnologies “NN08”, Aristotle University of Thessaloniki, Greece, 14-16 July, 2008, (P4-19).
160. Scaffolds of bovine derived hydroxyapatite (BHA) composites doped with magnesium fluoride.

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XXXV Annual Congress of the European Society of Artificial Organs (ESAO), Geneva, Switzerland, 3-6 September, 2008, The International Journal of Artificial Organs, 31 (2008) 611.
161. Joining of Bioceramics: Interfacial Interactions.
S. Agathopoulos.
Invited Lecture in the XXIV Panhellenic (Greek) Conference on Solid State Physics and Materials Science, Heraklion-Crete, Greece, 21-24 September, 2008.
 162. Release of fluorine from conventional and resin glass ionomer powders.
A. Spiliotopoulos, E. Dokos, S. Agathopoulos, M. Karakassides.
International Conference of Dentistry of FDI, Stockholm, Sweden, 24-27 September, 2008.
 163. Bovine hydroxyapatite (BHA) Boron Oxide Composites.
O. Gunduz, L.S. Ozyegin, S. Dorozhkin, N. Eruslu, S. Kayali, S. Agathopoulos, F.N. Oktar.
21st International Symposium on Ceramics in Medicine "Bioceramics-21", Búzios Rio de Janeiro, Brazil, 21-24 October, 2008.
 164. Bovine hydroxyapatite (BHA) Strontium Oxide Composites.
O. Gunduz, L.S. Ozyegin, S. Dorozhkin, N. Eruslu, S. Kayali, S. Agathopoulos, F.N. Oktar.
21st International Symposium on Ceramics in Medicine "Bioceramics-21", Búzios Rio de Janeiro, Brazil, 21-24 October, 2008.
 165. Effect of sintering temperature on mechanical properties and microstructure of sheep-bone derived hydroxyapatite (SHA).
U. Karacayli, O. Gunduz, S. Salman, L.S. Ozyegin, S. Agathopoulos, F.N. Oktar.
The 13th International Conference on Biomedical Engineering, 3-6 December 2008, Singapore.
 166. Kinetics and thermodynamics of ceramic-metal joining with emphasis to bioceramics (in Greek).
S. Agathopoulos.
Workshop of the Greek Metallurgy Association and the Greek Ceramic Association, Metal-Ceramics for Advanced Technologies, (Opening Lecture), Scientific and Technology Park of Epirus, Ioannina, April 3, 2009.
 167. Influence of boroxide bioactive bioglasses (BBB) on osteoblast viability.
P. Valerio, A.M. Goes, U. Karacayli, O. Gunduz, U. Tüyel, S. Yilmaz, S. Agathopoulos, F.N. Oktar.
Proceedings of the I International Conference on Biodental Engineering, Porto, Portugal, 26-27 June, 2009, pp. 99-104.
 168. Effect of sintering temperature on mechanical and microstructural properties of zeolite (clinoptilolite) reinforced bovine hydroxyapatite (BHA) composites.
U. Karacayli, O. Gunduz, S. Salman, L.S. Ozyegin, U. Tüyel, A.Z. Sengil, S. Agathopoulos, F.N. Oktar.
Proceedings of the I International Conference on Biodental Engineering, Porto, Portugal, 26-27 June, 2009, pp. 105-108.
 169. A novel biomaterial: Chicken hydroxyapatite (CHA).
N. Demirkol, U. Karacayli, O. Gunduz, S. Salman, S. Agathopoulos, E.S. Kayali, F.N. Oktar.

- European Congress and Exhibition on Advanced Materials and Processes, Euromat 2009, 7-10 September, Glaskow, UK.
170. Bioceramics joining: Thermodynamics and kinetics approach
S. Agathopoulos
Invited Lecture in the Conference on Cast Composites, CC'2009, Kocierz, Poland, October 11-14, 2009
 171. Improvement of compositions of traditional ceramics (in greek).
D.Karasoulis, P.Torres, H.Fernandes, D.U.Tulyaganov, M.J.Ribeiro, M.Karakasides, J.M.Ferreira, S.Agathopoulos.
4th Greek Conference on Ceramics, Athens, 22-23 October, 2009.
 172. Study of bioactivity mechanism of glasses in the system CaO-B₂O₃-P₂O₅ (in Greek).
A.Saranti, A.Pinaka, I.Koutselas, P.Valerio, S.Agathopoulos, M.Karakasides.
4th Greek Conference on Ceramics, Athens, 22-23 October, 2009.
 173. A novel natural hydroxyapatite: Sheep derived hydroxyapatite.
O.Gunduz, U.Karacayli, S.Salman, E.S.Kayali, A.Z.Sengil, S.Agathopoulos, F.N.Oktar.
22nd International Symposium on Ceramics in Medicine “Bioceramics-22”, Daegu, Korea, 26-29 October, 2009. Proceedings pp. 483-486.
 174. Nb-oxide – hydroxyapatite composites
O. Gunduz, U. Karacayli, S. Salman, E.S. Kayali, A.Z. Sengil, U. Tuyel, S.Agathopoulos, F.N. Oktar
22nd International Symposium on Ceramics in Medicine “Bioceramics-22”, Daegu, Korea, 26-29 October, 2009. Proceedings pp. 607-610.
 175. Thermodynamics and kinetics at solid-liquid-vapour reactive interfaces and boundaries at elevated tempratures.
S.Agathopoulos.
Invited Lecture in the Workshop at the Research Institute for Copper (ELKEME) of Stasinopoulos Group, Athens, 22 December 2009.
 176. Thermodynamics and kinetics at ceramic-oxide/metal interfaces.
S.Agathopoulos.
“Triple Lines Symposium”, Grenoble, 27-29 May 2010.
 177. New generation of natural calcium phosphate materials
F.N. Oktar, P. Valeiro, S. Agathopoulos.
4th Greek Conference of the Hellenic Society of Biomechanics, HSB (ELEMBIO), Ioannina, 4-6 June, 2010, Abstract Book p. 125.
 178. A novel hydroxyapatite: Sheep bone derived hydroxyapatite (SHA)
N. Demirkol, U. Karacayli, L.S. Ozyegin, S. Kayali, F.N. Oktar, O. Gunduz, S.Agathopoulos.
4th Greek Conference of the Hellenic Society of Biomechanics, HSB (ELEMBIO), Ioannina, 4-6 June, 2010, Abstract Book p. 126.
 179. Synthesis and characterization of bioactive glasses which contain magnetic nano-particles aiming for hyperthermia-therapies.
M. Baikousi, I. Panagiotopoulos, S. Agathopoulos, M. Louloudi, M. Karakassides.
4th Greek Conference of the Hellenic Society of Biomechanics, HSB (ELEMBIO), Ioannina, 4-6 June, 2010, Abstract Book p. 140.
 180. A new source for natural ceramics: Chicken bone hydroxyapatite (CHA).

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4th Greek Conference of the Hellenic Society of Biomechanics, HSB (ELEMBIO), Ioannina, 4-6 June, 2010, Abstract Book p. 150.
181. Hydroxyapatite nano-lanthanum-oxide composites
S.S. Pazarlioglu, S. Salman, L.S. Ozyegin, F.N. Oktar, A. Yelten, S. Yilmaz, S.Agathopoulos.
4th Greek Conference of the Hellenic Society of Biomechanics, HSB (ELEMBIO), Ioannina, 4-6 June, 2010, Abstract Book p. 151.
182. Corderite and potassium mica doped hydroxyapatite composites
S. Salman, F.N. Oktar, E.S. Kayali, S. Agathopoulos.
4th Greek Conference of the Hellenic Society of Biomechanics, HSB (ELEMBIO), Ioannina, 4-6 June, 2010, Abstract Book p. 152.
183. Comparative study of mechanical properties of bone pore in the case of bone-loss replacement via allograft implantation.
G.N.Manoudis, M.D.Vekris, A.B.Korompilias, A.Saranti, S.Agathopoulos, A.E.Beris.
4th Greek Conference of the Hellenic Society of Biomechanics, HSB (ELEMBIO), Ioannina, 4-6 June, 2010, Abstract Book p. 158.
184. Synthesis and study of behaviour of resorbable biomaterials made of acidic cellulose and PGA composites after implantation at myocardial sites of mice.
K. Dimos, A. Vilaeti, N. Tsitou, E. Lampri, I. Mourouzis, A. Papalois, K. Pantos, V.Malamou-Mitsi, Th. M. Kolettis, S. Agathopoulos.
4th Greek Conference of the Hellenic Society of Biomechanics, HSB (ELEMBIO), Ioannina, 4-6 June, 2010, Abstract Book p. 161.
185. Artificial neural network based prediction for mechanical properties of BHA-Li₂O composites.
H.H.Celik, O. Gunduz, F.N. Oktar, N. Ekren, S.Agathopoulos.
Electrocereamics XII International Conference, Norwegian University of Science and Technology, NTNU, Trondheim, Norway, 13-16 June, 2010, Abstract Book p. 17.
186. Production and characterization of composites of hydroxyapatite reinforced with nano-Ba-Sr-Ti-oxide.
H.Gökçe, D.Ağaoğulları, M.Yetmez, O.Gündüz, C.Aktaş, L.Öveçoğlu, S.Agathopoulos, F.N.Oktar.
International Participated V. National Biomechanics Congress, Çeşme (Ismir), Turkey, 23-25 September, 2010.
187. Mechanical properties of bovine enamel derived hydroxyapatite.
N.Demirkol, M.Yetmez, U.Karacayli, E.S.Kayali, O.Gunduz, S.Agathopoulos, F.N.Oktar.
Artificial Organs Conference, FYROM, 2010. International Journal of Artificial Organs, (Special Issue) 33 (2010) 467-467. (IF=1.417).
188. A new safe method to produce bioceramic nano-powders from nacre venus verrucosa.
F.N.Oktar, U.Tuyel, N.Demirkol, O.Gunduz, R.Samur, S.Kannan, S.Agathopoulos.
Artificial Organs Conference, FYROM, 2010. International Journal of Artificial Organs, (Special Issue) 33 (2010) 467-468. (IF=1.417).
189. Mechanical properties of hydroxyapatite-tantalum composites.
M.Yetmez, N.Demirkol, F.N.Oktar, S.Pazarlikoglu, E.S.Kayali, S.Agathopoulos.

- Artificial Organs Conference, FYROM, 2010. International Journal of Artificial Organs, (Special Issue) 33 (2010) 468-468. (IF=1.417).
190. Comparative study of mechanical strength of callus after bridging of segmental bone defects with the use of allografts in immunodeficient mice.
G.Manoudis, M.Vekris, A.Korompilias, S.Agathopoulos, A.Beris.
10th International Workshop on Biomedical Engineering, Kos Island, Greece, 5-7 October 2011.
191. Biomechanical and in vivo comparison of three fixation devices for the long lasting maintenance of a critical size bone defect in the rat femur _ A proposed model for segmental bone defect research.
G.Mataliotakis, S.Agathopoulos, M.Vekris, G.Mitsionis.
10th International Workshop on Biomedical Engineering, Kos Island, Greece, 5-7 October 2011.
192. Comparative study of mechanical strength of callus after bridging of segmental bone defects with the use of allografts in immunodeficient mice.
G.N.Manoudis, M.D.Vekris, A.V.Korompilias, S.Agathopoulos, A.E.Beris.
EFORT 2012, Berlin, Germany, 23 - 25 May 2012.

Conference and Course Attendance (without the above mentioned):

1. 10th Greek Congress of Chemistry "Applied Chemical Research and Technology", Patras, 2-7 December 1985, Greece.
2. "New Advanced Materials", 4-6 December 1989, Athens, Greece.
3. "Biomaterials: Materials, Products and Clinical Applications in the 1990s", Course by prof. D.F.Williams (Univ. of Liverpool), 3-6 June 1990, Patras, Greece.
4. "Materials Characterization", Technological Park of Patras, 20.9.91-25.12.91, Patras, Greece.
5. 7th International Conference International and Interface Boundaries in Materials, June 26-29, 1995, Lisbon, Portugal.
6. "Advanced Course on Biomaterial-Cells Interactions", Course in the "Instituto de Engenharia Biomedica" (INEB - Porto), 12-14 June 2000, Porto, Portugal.
7. "Biomineralization of Implant Materials", Workshop in the "Instituto Superior Tecnico", University of Lisbon, 15 June 2000, Lisbon, Portugal.
8. "High Temperature Capillarity-2000", Kurashiki, Japan, 19-22 November 2000, (invited).
9. "Advanced Course in Biomaterials: Cell-Material Interactions", Course in the "Instituto de Engenharia Biomedica" (INEB - Porto), 18-20 June 2001, Porto, Portugal.
10. "Advanced Course in Biomaterials: Biomedical Ceramics and Polymers", Course in the "Instituto de Engenharia Biomedica" (INEB - Porto), 21-22 June 2001, Porto, Portugal.
11. 3rd Workshop of the Greek Society of Biomaterials, Athens, 21 – 22 November, 2008.
12. 4th Workshop of the Greek Society of Biomaterials, Athens, 27 – 29 November, 2009.
13. "Electrocereamics and Applications", Attendance and Charing of Workshop of the Greek Society of Ceramics (EKE), University of Ioannina, 29 September, 2010.
14. 4th National Conference of the Greek Society of Metals, Thessaloniki, 4-5 November, 2010.

Other scientific activities

1. Workshop for the presentation of the Project "Improving Human Research Potential and the Socio-Economic knowledge Base (IHP)", 5th framework of Research, Technology and Development and presentation of European Community 1998-2002, Official Presentation of the Greek Branch of MCFA, National Foundation of Research, Athens, Greece, 15 April, 1999.
2. Conference "Investing in Europe's Human Research Potential", Organized by European Commission (DG-Research)/GSRT(GGET)/MCFA/FORTH, Heraklion, Crete, 4-7 October 2000.
3. Conference, "Competitive European Research - The vision of young scientists", organized by ESF/MCFA/MPG, Max Planck Institute, Stuttgart, 3-4 November, 2000.
4. Organisation of the 4th National Meeting of the MCFA-PT, Ceramics & Glass Engineering Department, University of Aveiro, 7 December, 2000.
5. Donation of an original copy a red-figured lekithos vase, of the 5th century b.C. with a figure of diskovolos, which is exhibited in the National Archaeological Museum of Athens with the number 1305, by the Greek Government to the Department of Ceramics and Glass Engineering of University of Aveiro in Portugal.
6. Design and built of vacuum furnace, which reaches vacuum of 2×10^{-6} mbar and temperature of 1800°C, and has facilities of direct side- and top-view, movement of the sample and quenching.
7. Invitation of Prof. Ik Jin Kim, of the Department of Materials Science and Engineering of the University of Hanseo of South Korea, to visit the Department of Materials Science and Engineering of the University of Ioannina and give a lecture entitled "Advanced host-guest materials based on zeolites for semiconductor nano-cluster", 18 February 2008.
8. Invitation of Dr. Valerio Patricia, of the Department of Biophysics, Physiology and Immunology of the Federal University of Minas Gerais of the State of Belo Horizonte of Brazil, to visit the Department of Materials Science and Engineering of the University of Ioannina and give a lecture entitled "Road-map in bone physiology & bone tissue engineering", 31 March 2008.
9. Invitation of the Associate Professor Faik N. Oktar, of the Department of Industrial Engineering of the Polytechnic School of Marmara University of Constantinople, to visit the Department of Materials Science and Engineering of the University of Ioannina and give a lecture entitled "Naturally Derived Biomaterials", 31 March 2008.
10. Development of the new web-page of the Department of Materials Science and Engineering of the University of Ioannina (2008).
11. Invitation of Professor Qiang Zheng, of the Research Centre of Nano-Science and Nano-Technology, Advance Material Composite and Dispersion Technology of the Engineering Centre of Ministry of Education of China, Shanghai University, 5-9 December 2009.
12. Invitation of Professor KeXin Chen, of Tsinghua University of Beijing and the Foundation of Research of Technology of China, 5-9 December 2009.

Articles written by others in daily press exclusively about our research:

Biomaterials: Ceramic Implants, an Advanced Research Program in Patras.
"Ta Nea", 29 June 1993, p.21.

Invited Visits to Research Centres and Universities:

1. CERECO (Ceramics and Refractories Technological Development Company S.A.), Halkida, Greece.
2. Centro Ceramico of Bologna, Italy.
3. Materials Dept. of Queen Mary & Westfield College, (Univ. of London), London, July 1990.
4. Laboratories of TEMAV, Medicina, Italy, October 1990.
5. Institute of Metallurgy, RWTH-Aachen, Germany, September 1993.
6. Laboratoire de Thermodynamique et de Physico-Chimie Metallurgiques, Institute National Polytechnique de Grenoble, Grenoble, France, November 1993, February 1995.
7. Istituto di Chimica Fisica Applicata dei Materiali, Genova, Italy, November 1993.
8. College de France, Chemistry Dept., Paris, France, November 1994, February 1995.
9. Universidade de Aveiro, Dep. de Engenharia Ceramica e do Vidro, Aveiro, Portugal, June 1995.
10. Centre of Characterization and Development of Materials (CCDM), USFCar/UNESP, Sao Carlos/Sao Paulo, Brasil, (meeting with Dr. Carlos Alberto Correa), 21 February 1996.
11. Metal-Ceramic Division of Materials Engineering Dept. of the Federal University of Sao Carlos/Sao Paulo, Brasil, (meetings with Prof. Maurizio Ferrante, Ceramic-Metal Joining and Prof. Sousa, Polymers), 21 February 1996.
12. National Laboratory of Light Sincrotron (LNLS), Campinas/Sao Paulo, Brasil, (meeting with Dipl.Eng. Osmar R.Bagnato, Ceramic-Metal Joining), 22 February 1996.
13. Materials Engineering Division of Mechanical Engineering Dept. of University of Campinas/Sao Paulo, Brasil, (meeting with Prof. Cecilia Amelia de C.Zavaglia and Dipl.Eng. Mayard Samis Zolotar), 22 February 1996.
14. Centre of Technology of Ceramics (CTC), Crisuma/Santa Catarina, Brasil, (meeting with the director Robinson Carlos Dudley Cruz and Dr. J.V.Emiliano), 25 February 1996.
15. Polytechnic Institute of the National University of Rio de Janeiro, Nova Friburgo/Rio de Janeiro, Brasil, (meeting with Prof. Maria Regina Tavares Filgueiras), 29 February 1996.
16. University of Lulea, Sweden, 9 July 1996.
17. Institute for Biomedical Engineering ("INEB"), Porto, 2000, Portugal.
18. "Instituto Superior Tecnico" ("IST"), Chem.Engineering Dept., University of Lisbon, Lisbon, 2000, Portugal.
19. Physics Department and INESC, University of Porto, 2000, Portugal.
20. Max Planck Institute, Stuttgart, November 2000 and March 2005, Germany.
21. Joining and Welding Research Institute, Osaka University, November 2000, Japan.

22. Dept of Metallurgy and Materials Engineering, Catholic University of Leuven, Belgium, 14 September, 2001.
23. Dept. of Materials Science and Engineering, Tsinghua University, Beijing, China, 7 November, 2001.
24. China University of Mining and Technology, Xuzhou-Jiangsu, China, November, 2001.
25. Shanghai Institute of Ceramics, Chinese Academy of Science, Shanghai, China, November, 2001.
26. Dept. of Chemistry, University of Technology of Sydney (UTS), Sydney, Australia, December, 2002.
27. Dept. of Physics, Faculty of Education, Physics Department, Karl El-Sheikh, University of Tanta, Egypt, 29 March, 2003.
28. Dept. of Chemistry, Faculty of Science, Al-Azhar University, Cairo, Egypt, 30 March, 2003.
29. Science Center for Detection and Remediation of Environment Hazards, (Director Prof. M. Emara), Nasr City, Cairo, Egypt, 30 March, 2003.
30. Novo University of Lisbon, Caparica, Portugal, April 2003.
31. Belgian Ceramic Research Centre, “CRIBC” and “INISMa”, September 2003.
32. Department of Chemistry, University of Oslo, Oslo, Norway, 30 January 2004.
33. Scientific Research Institute of Space Engineering of Uzbekistan, Laboratory of Advanced Materials Processing, (Dir. Dr. V.Kh. Gataullin), Tashkent, Uzbekistan, May 2004.
34. Surgical Stomatology in the First Tashkent Medical Institute of Stomatology, (Professor Dr. Yuldashev Sharif Yuldashevich), Tashkent, Uzbekistan, 1 May 2004.
35. Centre of Organism Manufacturing Engineering of the Institute of Biomedicine and Rapid Forming Technology Laboratory, Department of Mechanical Engineering, Tsinghua University, Beijing, China, 7 May 2004.
36. Electronic Materials Research Key Laboratory, Xi'an Jiaotong University, Xi'an, China, 14 May 2004.
37. Department of Inorganic Non-metal Materials (DINM), School of Materials Science and Engineering, University of Science and Technology Beijing, Beijing, China, 16 May, 2004.
38. Department of Materials Science and Engineering, University of Ioannina, Greece, 26 August 2004.
39. Max-Planck-Institut fuer Metallforschung, Department of Materials Synthesis and Microstructure Design (Dir. Prof. Dr. F. Aldinger), Stuttgart, Germany, 21-23 March 2005.
40. Department of Engineering of Natural Resources, Technical University of Crete, Greece, 14-15 September 2005.
41. Polytechnic School of Viana do Castelo, Engineering Department, Sector of Ceramics, Portugal, 18 January 2006.
42. College of Materials Science and Technology, Nanjing University of Aeronautics and Astronautics, Nanjing, China, 8 May, 2007.

43. Department of Materials Science and Engineering, Zhejiang University, Hangzhou, China, 15 May, 2007.
44. School of Materials Science and Engineering, Beijing Institute of Technology, Beijing, China, 19 May, 2007.
45. Technical Institute of Physics and Chemistry (TIPS), Chinese Academy of Science, Beijing, China, 20 May, 2007.
46. Physics Department, Laboratory of Nanostructures and Low Dimensional Physics, Pekin University, Beijing, China, 21 May, 2007.
47. Chemistry Department, Pekin University, Beijing, China, 21 May, 2007.
48. National Institute for Materials Physics, Bucharest, Romania, 4-5 June 2007.
49. Physics Department of the University of Bucharest, Romania, 4 June 2007.
50. Institute of Biochemistry, Bucharest, Romania, 5 June 2007.
51. Polytechnic School of Bucharest, Department of Chemical Engineering, Bucharest, Romania, 6 June 2007.
52. Foundry Research Institute, Krakow, Poland, 14 October, 2009.