



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Ioannis Paspaliaris**

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Nationality Greek

Date of birth 20/01/1954

Gender Male

Work experience

Dates 2003 – today

Occupation or position held Professor of Metallurgy in the School of Mining and Metallurgical Engineering, National Technical University of Athens
Chairman in the School of Mining and Metallurgical Engineering, National Technical University of Athens (09/2010 – today)

Name and address of employer National Technical University of Athens, Zografos Campus, 15782, Athens, Greece

Type of business or sector University

Dates 1998-2003

Occupation or position held Associate Professor in the School of Mining and Metallurgical Engineering, National Technical University of Athens

Name and address of employer National Technical University of Athens, Zografos Campus, 15782, Athens, Greece

Type of business or sector University

Dates 1990-1998

Occupation or position held Assistant Professor in the School of Mining and Metallurgical Engineering, National Technical University of Athens

Name and address of employer National Technical University of Athens, Zografos Campus, 15782, Athens, Greece

Type of business or sector University

Dates 1987-1990

Occupation or position held Lecturer in the School of Mining and Metallurgical Engineering, National Technical University of Athens

Name and address of employer National Technical University of Athens, Zografos Campus, 15782, Athens, Greece

Type of business or sector University

Education and training

Dates 1981-1986

Title of qualification awarded PhD

Principal subjects/occupational skills covered Thesis title: Digestion of diasporic bauxites for the production of alumina (Bayer Process).

Name and type of organisation providing education and training School of Mining and Metallurgical Engineering, National Technical University of Athens

Dates 1973-1978

Title of qualification awarded Mining and Metallurgical Engineer

Principal subjects/occupational skills covered Specialization in Metallurgical Engineering

Name and type of organisation providing education and training School of Mining and Metallurgical Engineering, National Technical University of Athens

Personal skills and competences

Mother tongue(s) **Greek**

Other language(s)

Self-assessment
European level ()*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

(*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu/EN/Content/Common-European-Framework-of-Reference-for-Languages)

Social skills and competences Being Professor in National Technical University of Athens, Chairman of School of Mining and Metallurgical Engineering and Member of several European Committees, I possess social skills such as team work, mediating and intercultural skills.

Organisational skills and competences

- Chairman of School of Mining and Metallurgical Engineering,
- Coordinator in several European Research projects
- Member of the Research Committee of the National Technical University of Athens, which is responsible for the management of all the research funds of the university since 2006

Computer skills and competences Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™); Scientific Softwares: HSC Chemistry; FACTSAGE; CAChe Ab Initio; Materials Explorer

Additional information

Practical and theoretical experience in:

- the development and techno-economic evaluation of processing technologies for the treatment of ores and industrial minerals,
- extractive metallurgy and development of new processes for metal production,
- the development of technologies for the production of high added value materials from industrial minerals and mining and metallurgical wastes,
- simulation of Chemical and Metallurgical Processes: mathematical modelling and simulation of chemical, mineral processing, metallurgical and environmental processes for the design of pilot plants
- environmental protection in mining and metallurgical activities and environmental characterisation of contaminated sites, development of soil clean up technologies and ground water decontamination techniques.

Good knowledge of the micro- and macro-economic constraints of the application oriented raw materials sector gained through the coordination of big networks (EUROTHEN, OSNET) and the participation in NESMI network addressing issues relating to technology development, economic constraints and problems in the supply chain of the EU extractive industries.

Good access to relevant scientific, research and business fora through the close links established the last 20 years with university schools specialised in mineral processing and the collaboration with world class mining and metallurgical industries.

Member in OG5 of the EIP on Raw Materials and the Steering Committee of the ERECON Network.

PROJECTS

As a professor of the National Technical University of Athens the last ten years I have coordinated and participated in 59 EC, National and industry funded projects of a total budget of about 14 M€.

1. Autonomous Management System Developed for Building and District Levels (AMBASSADOR). EC FP7 Collaborative project 2012.
2. Novel Nano-enabled Energy Efficient and Safe HVAC ducts and systems contributing to a healthier indoor environment (NANO-HVAC). EC FP7 Collaborative project 2012.
3. Raw Materials: Study on Innovative Technologies and Possible Pilot Plants (RAMINTECH). Call for tenders No 112/PP/ENT/CIP/11/C/N06S001.
4. Low Embodied Energy Advanced (Novel) Insulation Materials and Insulating Masonry Components for Energy Efficient Buildings (LEEMA). EC FP7 Collaborative project 2012.
5. SUSTainable, innovative and energy-efficient CONcrete, based on the integration of all-waste materials (SUS-CON). EC FP7 Collaborative project 2012.
6. Envelope Approach to improve Sustainability and Energy efficiency in Existing multi-storey multi-owner residential buildings (EASEE). EC FP7 Collaborative project 2012.
7. Development of a sustainable exploitation scheme for Europe's Rare Earth ore deposits (EURARE). EC FP7 Collaborative project 2013.
8. Sustainable system implementation for natural stone production and use (ECO-STONE). LIFE+ Environment Policy and Governance 2008.
9. Novel technologies for enhanced energy and exergy efficiencies in primary aluminium production industries (ENEXAL). EC FP7 Energy 2009.
10. Development of a novel and cost-effective range of nanotech improved coatings to substantially improve NIR (Near Infrared Reflective) properties of the building envelope (COOL-Coverings). EC FP7 Collaborative project 2010.
11. Development of a Novel Stone Sawing Equipment to valorise Undersized and Irregular Stone Blocks for a more rationale Use of Natural Stone Quarry Resources (XStone). EC FP7 Research for the benefit of SME's 2010.
12. Supporting the roofing SMEs in the development and use of a new generation of roofing

materials applicable with fault tolerant procedures, reducing the use of petroleum-based products (NU-ROOF). EC FP7 Research for SMEs Associations 2008.

13. Smart release of biocides in finishing materials for the sector of construction (Axioma). EC FP7 Collaborative project targeted at SMEs 2009.
14. Efficient exploitation of EU perlite resources for the development of a new generation of innovative and high added value micro-perlite based materials for the Chemical, Construction and Manufacturing industry (ExPerl). EC FP7, Large-scale IP 2008.
15. Development of a clean and energy self-sustained building in the vision of integrating H₂ economy with renewable energy sources (H2SusBuild). EC FP7, Large-scale IP 2007.
16. Eco-efficient and high productive stone processing by multifunctional materials. EC FP6 Collective Research project 2003.
17. Re-engineering of natural stone production chain through knowledge based processes, eco-innovation and new organisational paradigms (I-STONE). EC, IP 2005.
18. Technology development for the production of new materials (lightweight microspheres) based on perlite. National funded project, 2003.
19. Production of new high added value materials from perlite and gypsum wastes and fly ash. National funded project, 2003.
20. The treatment of minewaste to achieve cost effective engineered closure of tailings dams. EC Growth 2001.
21. Network on European sustainable Mining and Processing Industries (NESMI). EC Growth 2001.
22. Valorization of red mud for use in earth covers and plant growth in areas covered with solid wastes. National funded project, 2000.
23. Lifetime engineering of buildings and civil infrastructures. EC Growth 2001
24. Environmental management of hazardous mining wastes and effluents. EC Growth 2000.
25. Long-term Performance of Permeable Reactive Barriers Used for the Remediation of Contaminated Groundwater. EC Energy, environment and sustainable development 2000.
26. Life cycle assessment of mining projects for waste minimisation and long term control of rehabilitated sites (LICYMIN). EC Growth, 2000.
27. Thematic Network on Ornamental Stones (OSNET). EC Growth, 2000.
28. Development of technologies using the activity of sulphate- and metal-reducing bacteria (SMRB) to remove heavy metals and metalloids from ground waters and soils. EC Energy, environment and sustainable development, 2000.
29. Optimisation of a system for the treatment of wastes from lead production unit in Lavrion, Greece, National funded project, 1999.
30. Development of low cost permeable reactive barriers for secure management of mixed sulphide wastes. National funded project, 1998.
31. Laboratory unit for the technical and scientific consultancy in the area of Metallurgy. National funded project
32. An innovative process for the production of high surface area materials from natural acid clays and bentonite by organic acid treatment (HISURFCLAYS). EC Brite-EuRam III, 1998.
33. Precipitation and calcination of monohydrate alumina from the Bayer process liquors. EC Brite-Euram III, 1998.
34. Production of ultra purity quartz in Romania and Albania and coordination at European scale. EC COPERNICUS 1997.
35. Chromium extraction from leather ashes. EC/National funded project 1997
36. European Thematic Network on Extractive Industries (EUROTHEN). EC Brite-Euram III, 1996.
37. Innovative industrial technologies for the rehabilitation of land contaminated from polymetallic sulphide mining and processing operations. EC Brite-Euram III, 1996.

38. Marine pollution in the Black Sea due to mining activities. EC COPERNICUS, 1996.
39. Synthesis of bleaching earths from Bentonite. National funded project. 1996.
40. Energy management of dedusting units on rotary kilns. NATO (Scientific Affairs Division) Science for Stability Research Projects 1995.
41. Development of a new technology for boehmitic and diasporic bauxite processing. National funded project 1996.
42. Removal of iron from quartz - Development of a continuous integrated organic acid leaching/effluent treatment system. EC, Brite Euram III, 1995.
43. Precipitation of monohydrate alumina in the Bayer process. EC Joule III, 1995.
44. Effect of Bauxite mineralogical composition on Alumina production based on Bayer method, National funded project/Private services.
45. Application of informative systems for the design and operation of industrial units. National funded project, 1993
46. Removal of iron from industrial minerals - Mechanisms of dissolution and precipitation. EC Brite-Euram II, 1992.
47. Bioremediation of acid mine drainage with accelerated bioleaching. EC Environment Programme, 1992.
48. Environmental management in mining and metallurgical industries. EC Tempus Programme 1992-95.
49. Prediction and treatment of acid mine drainage, EC, Brite-Euram II, 1992.
50. Development of a control hybrid system for the operation of calcination furnace for alumina production. CEC Joule II 1992.
51. Development of a control system for the determination of malfunctions in hydrometallurgical processing, National funded project, 1991.
52. Development of simulation software for hydrometallurgical processes. National funded project, 1991.
53. Optimisation of AlF_3 feeding process of the electrolytic cells used in aluminum production. National funded project/Private services.
54. Removal of iron from industrial minerals. EC Brite-Euram 1991.
55. Study of additives influence on diasporic bauxite leaching with Bayer process. National funded project, 1989.
56. Study of the thermal decomposition of industrial minerals. National funded project, 1988.
57. Gallium determination in Bauxites. Private services.
58. Iron removal from Bauxite using hydrochloric acid. Private services, 1987.
59. Study of energy losses during electrolysis in Aluminum production chain. National funded project, 1985.

PUBLICATIONS

130 papers in refereed journals and conferences, totalling 742 citations, h Index 15 (based on Scopus, Science Citation Index Expanded).

1. D.I. Gerogiorgis, P.M. Angelopoulos, I. Paspaliaris, "A Response Surface Method (RSM) for Model-based Optimization of Expanded Perlite Production", TMS 2014, 143rd Annual Meeting And Exhibition, February 16-20 2014, San Diego, California, USA (Accepted for publication)
2. E. Balomenos, I. Giannopoulou, D. Gerogiorgis, D. Panias, I. Paspaliaris. "Resource-efficient and economically viable pyrometallurgical processing of industrial ferrous by-products", Waste and Biomass Valorization, 11, 2013; DOI:DOI 10.1007/s12649-013-9280-5
3. D.I. Gerogiorgis, P.M. Angelopoulos, I. Paspaliaris, "Model-based optimization of perlite expansion via a Response Surface Method (RSM)", 5th IC-EpsMsO, International Conference on Experiments/Process/System Modeling/ Simulation/Optimization, July 3-6 2013, Athens,

Greece

4. P. Angelopoulos, D.I. Gerogiorgis, I. Paspaliaris, "Modeling expanded perlite production in a vertical electrical furnace", XV Balkan Mineral Processing Congress, June 12-16 2013, Sozopol, Bulgaria
5. P.M. Angelopoulos, D.I. Gerogiorgis, I. Paspaliaris. "Model-based sensitivity analysis and experimental investigation of perlite grain expansion in a vertical electrical furnace", *Ind. Eng. Chem. Res.*, 2013, DOI: 10.1021/ie401144r
6. P.M. Angelopoulos, D.I. Gerogiorgis, I. Paspaliaris. "Mathematical modeling and process simulation of perlite grain expansion in a vertical electrical furnace", *Appl. Math. Model.*, 2013, DOI: 10.1016/j.apm.2013.09.019
7. E. Balomenos, D. Panias, I. Paspaliaris. "Exergy analysis of metal oxide carbothermic reduction under vacuum – Sustainability prospects", *International Journal of Applied Thermodynamics*, 15(3), 2012, pp. 141-148
8. P.M. Angelopoulos, D.I. Gerogiorgis, I. Paspaliaris, "Dynamic modeling and sensitivity analysis of perlite grain expansion in a vertical electrical furnace", *International Conference on Differential Equations, Difference Equations and Special Functions*, September 3-7, 2012, Patras, Greece.
9. P. Angelopoulos, D.I. Gerogiorgis, I. Paspaliaris, "Mathematical modeling and simulation of perlite grain expansion in a vertical electrical furnace", *Proceedings of the 5th International Conference from Scientific Computing to Computational Engineering*, July 4-7, 2012, Athens, Greece, pp.331-338
10. P. Angelopoulos, C. Kapralou, M. Taxiarchou, "CFD Modeling of vertical electrical furnace for perlite expansion –Study of air temperature and velocity profile", *Proceedings of the 7th International Congress on Computational Mechanics*, Athens, 3 June – 2 July 2011, Greece
11. I. Paspaliaris, M. Taxiarchou, A. Peppas, P.G. Benardos, S. Carosio, G. Urbano, A. Monero, R. De Laurentiis. "Implementation of a hybrid energy system combining RES and H₂ in an office building in Lavrion Greece", *International Conference on Hydrogen Production (ICH2P-2011)*, 19 - 22 June 2011, Thessaloniki, Greece.
12. E Balomenos, I Gianopoulou, D Panias, I Paspaliaris. "A Novel Red Mud Treatment Process : Process design and preliminary results", *TRAVAUX*, 36(40), 2011, pp. 255-266
13. E. Balomenos, D. Panias, I. Paspaliaris, "Theoretical Investigation of the Volatilization Phenomena Occurring in the Carbothermic Reduction of Alumina", *World of Metallurgy – ERZMETALL*, 64(6), 2011, pp. 312-320
14. M Samouhos, R. Hutcheon, I. Paspaliaris. "Microwave reduction of copper (II) oxide and malachite concentrate", *Minerals Engineering*, 2011, article in press.
15. E. Balomenos, D. Panias, I. Paspaliaris, "Energy and Exergy Analysis of the Primary Aluminium Production Processes – A Review on Current and Future Sustainability", *Mineral Processing and Extractive Metallurgy Review*, 32(2), 2011, pp. 69-89.
16. E. Balomenos, I. Gianopoulou, D. Panias, I. Paspaliaris, "ENEXAL: Novel technologies for enhanced energy and exergy efficiencies in primary aluminium production industry", *Metalurgija-Journal of Metallurgy*, 15(4), 2009, pp. 203-217
17. K. Vaxevanidou, N. Papassiopi, I. Paspaliaris. "Removal of heavy metals and arsenic from contaminated soils using bioremediation and chelant extraction techniques", *Chemosphere*, 70 (8), 2008, pp. 1329-1337.
18. I. Douni, C. Kapralou, M. Taxiarchou, I. Paspaliaris. "The effect of inorganic additives on the formation of crystalline calcium silicate hydrates". *International Congress on Materials Science and Engineering (MSE 2008)*. Nurnberg 2008, Germany.
19. K. Komnitsas, G. Bartzas, K. Fytas, I. Paspaliaris. "Long-term efficiency and kinetic evaluation of ZVI barriers during clean-up of copper containing solutions", *Minerals Engineering*, 20 (13), 2007, p.p. 1200-1209
20. K. Komnitsas, G. Bartzas, K. Fytas, I. Paspaliaris. "Inorganic contaminant fate assessment in zero-valent iron treatment walls", *Environmental Forensics*, 7(3), 2006, pp.207-217
21. E. Balomenos, D. Panias, I. Paspaliaris. "A semi-empirical hydration model (SEHM) for describing aqueous electrolyte solutions. II. Mixing rules for multiple electrolyte systems at 25

- °C". *Fluid Phase Equilibria*, 247 (1-2), 2006, pp. 1-7
22. K. Komnitsas, G. Bartzas, I. Paspaliaris. "Modeling of reaction front progress in fly ash permeable reactive barriers", *Environmental Forensics*, 7 (3), 2006, pp. 219-231
 23. E. Balomenos, D. Panias, I. Paspaliaris. "Theoretical method for interconverting concentrations scales for single and mixed aqueous solutions using ionic radii". *Journal of Chemical and Engineering Data*, 51 (4), 2006, pp. 1261-1267
 24. E. Balomenos, D. Panias, I. Paspaliaris. "A semi-empirical hydration model (SEHM) for describing aqueous electrolyte solutions. I. Single strong electrolytes at 25 °C". *Fluid Phase Equilibria*, 243 (1-2), 2006, pp. 29-37
 25. G. Bartzas, K. Komnitsas, I. Paspaliaris. "Laboratory evaluation of FeO barriers to treat acidic leachates". *Minerals Engineering*, 19 (5), 2006, pp. 505-514
 26. E. Balomenos, D. Panias, I. Paspaliaris. "Modeling chemical equilibrium of electrolyte solutions". *Mineral Processing and Extractive Metallurgy Review*, 27 (1), 2006, pp. 1-60
 27. D. Panias, M. Taxiarchou, I. Douni, I. Paspaliaris "Removal of iron from industrial minerals by chemical treatment with oxalic acid", paper accepted for publication in the edition dedicated to Prof. A. Fragiscos, 2005, pp. 217-230
 28. M. Zilberchmidt, M. Shpirt, K. Komnitsas, I. Paspaliaris. "Feasibility of thermal treatment of high sulfur coal wastes", *Minerals Engineering*, 17 (2), 2004, pp. 175-182
 29. S.N. Groudev, I.I. Spasova, K. Komnitsas, I. Paspaliaris. "Treatment of acid mine drainage in a copper ORE deposit by means of a natural wetland". *Remediation of Contaminated Sediments 2003: Proceedings of the Second International Conference on Remediation of Contaminated Sediments*, pp. 393-398
 30. K. Komnitsas, G. Bartzas, I. Paspaliaris. "Efficiency of limestone and red mud barriers: Laboratory column studies", *Minerals Engineering*, 17 (2), 2004, pp. 183-197
 31. I. Douni, M. Taxiarchou, I. Paspaliaris.. "Life Cycle Analysis in the industry of metallurgy: Application to copper ores", edition dedicated to Prof. A. Kontopoulos, 2004, pp. 345-362
 32. I. Douni, M. Taxiarchou, I. Paspaliaris, Y. Kirillidi, E. Frogoudakis. "LCA as a tool for decision making in the metal industry: the case of nickel". *Proceedings of the International Conference on Advances in Mineral Resources Management and Environmental Geotechnology, (AMIREG 2004)*. Chania 2006, Greece, pp. 285-292
 33. D. Panias, I. Paspaliaris. "Boehmite process - A new approach in alumina production". *Erzmetall: Journal for Exploration, Mining and Metallurgy*, 56 (2), 2003, pp. 75-81
 34. C. Skoufadis, D. Panias, I. Paspaliaris. "Kinetics of boehmite precipitation from supersaturated sodium aluminate solutions". *Hydrometallurgy*, 68 (1-3), 2003, pp. 57-68
 35. K. Komnitsas, G. Bartzas, I. Paspaliaris. "Treatment of inorganic contaminants using fly ash barriers: Laboratory column studies", *Proceedings of the 8th Conference on Environmental Science and Technology*, Lemnos 2003, pp. 469-476
 36. E. Mylona, N. Papassiopi, A. Xenidis, I. Paspaliaris, "Field performance of dry covers and limestone addition for acid generation control of Lavrion sulphidic tailings, Greece", *Proceedings of the 6th International Conference on Acid Rock Drainage*, ICARD, Australia 2003, pp. 319-326
 37. I. Douni, M. Taxiarchou, I. Paspaliaris, "Life cycle inventory methodology in the mineral processing industries", *Proceedings of the International Conference on Sustainable Development Indicators in the Mineral Industries*, SCDIMI, Milos 2003, Greece, pp. 129-134
 38. A. Xenidis, E. Mylona, I. Paspaliaris. "Potential use of lignite fly ash for the control of acid generation from sulphidic wastes". *Waste Management*, 22 (6), 2002, pp. 631-641
 39. N. Papassiopi, K. Vaxevanidou, I. Paspaliaris. "Investigating the use of iron reducing bacteria for the removal of arsenic from contaminated soils". *Water, Air, and Soil Pollution: Focus* 3 (3), 2003, pp. 81-90
 40. A. Stouraiti, A. Xenidis, I. Paspaliaris. "Reduction of Pb, Zn and Cd-availability from tailings and contaminated soils by the application of lignite fly ash". *Water, Air, and Soil Pollution*, 137 (1-4), 2002, pp. 247-265
 41. S. Tampouris, N. Papassiopi, I. Paspaliaris. "Removal of contaminant metals from fine grained soils, using agglomeration chloride solutions and pile leaching techniques". *Journal of*

Hazardous Materials, 84 (2-3) 2001, pp. 297-319

42. A. Moirou, A. Xenidis, I. Paspaliaris. "Stabilization Pb, Zn, and Cd-contaminated soil by means of natural zeolite". *Soil and Sediment contamination*, 10(3), 2001, pp. 251-267
43. D. Panias, P. Asimidis, I. Paspaliaris. "Solubility of boehmite in concentrated sodium hydroxide solutions: Model development and assessment". *Hydrometallurgy*, 59(1), 2001, pp. 15-29
44. D. Panias, I. Paspaliaris, A. Amanatidis, H.W. Schmidt, A. Hollnagel. "Boehmite process: An alternative technology in alumina production", *Light Metals*, New Orleans, USA, 2001, pp. 97-103
45. K. Komnitsas, I. Paspaliaris, M. Zilberchmidt, S. Groudev, "Environmental Impacts at Coal Waste Disposal Sites-Efficiency of Desulphurization Technologies", *Global Nest: the International Journal*, 3(2), July 2001, pp. 109-116
46. E. Chammas, D. Panias, M. Taxiarchou, G.N. Anastasakis, I. Paspaliaris "Removal of iron and other major impurities from silica sand for the production of high added value materials", *IX Balkan Mineral Processing Congress*, Instabul 2001, pp. 289-295
47. S. Tampouris, N. Papassiopi, I. Paspaliaris, "Removal of contaminant metals from fine grained soils, using agglomeration, chloride solutions and pile leaching techniques", *Journal of Hazardous Materials*, B84, 2001, pp. 297-319
48. I. Paspaliaris, D. Panias, C. Skoufadis, "Precipitation and calcination of monohydrate alumina from the Bayer process liquors", *Proceedings of the Fourth Annual Eurothen Workshop (Eurothen 2001)*, Stockholm, Sweden, July 2001, pp. 438-456
49. A.W.L. Dudeney, G. Torre, C. Abbruzzese, M. Petrakakis, I. Paspaliaris, K. de Hoop, P. Criscuoli, P. Persod, V. Kaloidas, F. Veglio, "Removal of Iron from Quartz: Development of a Continuous Organic Acid Leach/Effluent Treatment System - Quartztreat", *Proceedings of the Fourth Annual Eurothen Workshop (Eurothen 2001)*, Stockholm, Sweden, July 2001, pp. 431-436
50. I. Paspaliaris, K. Komnitsas, S. Durucan, A. Korre, M. Zilberschmidt, V. Nosach, S. Groudev, "Environmental Management of Hazardous Mining Wastes and Effluents", *Proceedings of the Fourth Annual Eurothen Workshop (Eurothen 2001)*, Stockholm, Sweden, July 2001, pp. 166-176
51. S. Durucan, A. Korre, I. Paspaliaris, K. Adam, J. Kulczycka, H. Wirth, E. Frogoudakis, "Life Cycle assessment of Mining Projects for Waste Minimisation and Long Term Control of Rehabilitated Sites", *Proceedings of the Fourth Annual Eurothen Workshop (Eurothen 2001)*, Stockholm, Sweden, July 2001, pp. 140-148
52. I. Ignatiadis, F. Battaglia-Brunet, M. Bruschi, C. Michel, B. Ollivier, J.L. Garcia, F. Glombitza, D. Van der Diels, I. Paspaliaris, N. Papassiopi, K. Polychronopoulou, E. Efstathiou, "Development of Technologies Using the Activity of Sulfate and Metal Reducing Bacteria to Remove Heavy Metals and Metalloids from Ground Waters and Soils", *Proceedings of the Fourth Annual Eurothen Workshop (Eurothen 2001)*, Stockholm, Sweden, July 2001, pp. 95-128
53. D. Panias, A. Xenidis, E. Christodoulou, I. Paspaliaris, "Metallurgical Solid Wastes: Legislation, Characterization and Management", *Wastes From and For the Metallurgy 2001*, Varna, Bulgaria, 26 – 28 June 2001, pp. 53-71
54. E. Christodoulou, D. Panias, I. Paspaliaris, "Calculated Solubility of Trivalent Iron and Aluminum in Oxalic Acid Solutions at 25°C", *Canadian Metallurgical Quarterly*, Vol.40, No 4, 2001, pp. 421-432
55. E. Komnitsas, C. Stouraiti, I. Paspaliaris, "Sulfur removal from coal beneficiation wastes" *Proceedings of the 7th Conference on Environmental Science and Technology*, Hermoupolis, Syros, September 3-6, 2001.
56. D. Panias, C. Skoufadis, I. Paspaliaris, "Boehmite Process: An Innovative variation of the Bayer Process", *European Metallurgical Conference 2001*, Friedrichsaffen, Germany, September 2001, Volume 2, pp. 371-384
57. D. Panias, I. Paspaliaris, A. Amanatidis, H.W. Schmidt, A. Hollnagel, "Boehmite Process: An Alternative technology in alumina production", *Light Metals 2001*, New Orleans, USA, February 2001, pp. 97-103

58. N. Papassiopi, K. Vaxevanidou and I. Paspaliaris, "Investigating the use of iron reducing bacteria, as an option for the remediation of As contaminated soils", *Proceedings of the 1st European Bioremediation Conference*, Chania, Crete, Greece, July 2-5, 2001, pp. 161-164
59. I. Paspaliaris, A. Xenidis, N. Papassiopi, R. Dessi, M. Cambridge, J. Gomes, R. de Sousa, A. Nefeloudis, K. Adam, "Innovative industrial technologies for the rehabilitation of land contaminated from polymetallic sulphide mining and processing operations", *EUROTHEN (EC 4th European Thematic Network)*, Stockholm, 4-6 July 2001
60. A. Xenidis, E. Mylona, I. Paspaliaris, K. Theodoridis, "Application of lignite fly ash for the remediation of pyrite concentrates", *Proceedings of the Intern. Conf. on Ecological Protection of the Planet Earth I, Xanthi, Greece (Tsihrintzis, V.A. and P. Tsalidis eds.)*, 5-8 June 2001, pp. 357-367
61. A. Xenidis, A. Moirou, P. Theodoratos, I. Paspaliaris, "Design, construction and monitoring of the field tests for the stabilization of contaminated land", *Proceedings of the Intern. Conf. on Ecological Protection of the Planet Earth I, Xanthi, Greece (Tsihrintzis, V.A. and P. Tsalidis eds.)*, 5-8 June 2001, pp. 369-377
62. A. Xenidis, A. Peppas, I. Paspaliaris, "Use of slugs from lead metallurgy in structural works", *Mineral Wealth 2001*
63. A. Xenidis, A. Moirou, I. Paspaliaris, "A review on reactive materials and attenuation processes for permeable reactive barriers. Case studies for uranium remediation", *Ορυκτός Πλούτος 2001*
64. C. Stouraiti, A. Xenidis, I. Paspaliaris, "Reduction of Pb, Zn and Cd from tailings and contaminated soils by the application of lignite fly ash", *Water, Air and Soil Pollution*, 2001
65. A. Moirou, A. Xenidis, I. Paspaliaris, "Stabilisation of Pb, Zn and Cd contaminated soil by means of natural zeolite", *Journal of soil and sediment contamination*, 10(3), 2001, pp. 251-267
66. I. Paspaliaris, N. Papassiopi, "Concern for soils restoration", *Newspaper EXPRESS*, November 2000
67. A. Xenidis, N. Papassiopi and I. Paspaliaris « Stabilisation of oxidic tailings and contaminated soils using a mixture of phosphates and peated lignite- Field tests», 3rd Mineral Wealth Conference, 22-24 November 2000, Athens, Greece, V1, pp. 329-338, 2000
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GRANTED PATENTS

Significant scientific reputation justified by 3 Patents (2 National and 1 International) on ore processing technologies:

1. "Iron removal from industrial minerals through leaching with oxalic acid in the presence of ferrous ions", *Greek Patent 1002723 (1995)*.
2. "Process for production of monohydrate alumina (boehmite) through precipitation from supersaturated aluminate solutions at temperatures lower than 100°C", *Greek Patent 1002926 (1997)*.
3. "Process for production of monohydrate alumina from supersaturated aluminate solutions", *International Patent, WO/1998/058876*.

DISTINCTIONS

- John Phillips Medal of the international organisation MIRO (Mineral Industry Research Organisation), (1995) for research work in industrial minerals processing, which combines innovation and industrial application.
- 3rd Prize of the Greek Industrial Property Organisation for the most successful patent for the period 1995-2001, concerning the production of monohydrate alumina.