

CV – Prof. Konstantinos Komnitsas

1. GENERAL INFORMATION

DATE	December 2017
NAME	Konstantinos Komnitsas
OCCUPATION	Dr. Metallurgical Engineer (PhD in Hydrometallurgy) Professor, School Mineral Resources Engineering Technical University Crete, Greece Director of Laboratories <ol style="list-style-type: none">1. Waste Management and Soil Rehabilitation2. Ore Beneficiation3. Ceramics and Glass Technology
HOME ADDRESS	161, March 25 th str, PO Box 1014 73142 Kounoupidiana Chania, Crete, Greece tel: +30-28210-49098
WORK ADDRESS	Technical University Crete School Mineral Resources Engineering 73100 Akrotiri Chania, Crete, Greece tel: +30 28210 37686 fax: +30 28210 06901 molibe: +30 697 7506744 Email: komni@mred.tuc.gr Webpage: http://www.mred.tuc.gr/4250.html
NATIONALITY	Greek
DATE – BIRTH PLACE	March 18, 1961, Larissa, Greece
MARITAL STATUS	Married, 2 children
LANGUAGES	Greek (Mother tongue) English (Fluent) German (Good)
MEMBERSHIP	<ol style="list-style-type: none">1. Technical Chamber of Greece2. Greek Society of Mining and Metallurgical Engineers3. Greek Society of Mineral Wealth Scientists4. "Alexander S. Onassis" Foundation Scholars5. National Technical University (NTUA) Graduates Union6. ASTM Member (Environmental Forensics)7. EWRA Member (European Water Resources Association)8. GWA (Greek Water Association)9. University Network Biomet (Fate and Transport of Biocolloids in Environmental Systems)

2. EDUCATION

1988-1990:	Post Doctoral Research , University of Wales, Cardiff School of Engineering, Division of Materials and Minerals, U.K, with an EC grant
1984-1988:	PhD , Laboratory of Metallurgy, School of Mining and Metallurgical Engineering, National Technical University of Athens (NTUA)
1978-1983:	Diploma in Engineering School of Mining and Metallurgical Engineering, National Technical University of Athens
1973-1978:	Secondary School , Agia, Larissa, Greece

3. ACADEMIC CAREER DEVELOPMENT

- 10 Apr. '08 - **Technical University Crete**, School Mineral Resources Engineering, Professor
Courses:
- Industrial Ecology
- Ore Beneficiation
- Metallurgical processes – production of metals and ceramics
- Sustainable Development in the mining and metallurgical industry (post-graduate)
- Technologies for decontamination of soils, solid- and liquid wastes (post-graduate)
- 01 Oct. '07 -** **Greek Open University, teaching staff, Postgraduate Program "Waste Management". The program includes Management of Agricultural Wastes and effects on soils and waters.**
- I have supervised over 40 MSc theses and acted as reviewer in over 30 MSc theses
- I have written (1998-2001) 10 chapters for five books of Hellenic Open University
- I developed on-line teaching material for the program "Waste Management"
- Average evaluation over all (10) years 4.6/5
- 12 Feb. '03 – 9 Apr. '08 **Technical University Crete**, School Mineral Resources Engineering, Assoc. Professor
- Jan '93 – 11 Feb. '03: **NTUA**, School of Mining and Metallurgical Engineering, Senior Research Scientist
- July - Dec. '90: **Research Associate**, University of Wales, Cardiff School of Engineering, Division of Materials and Minerals, U.K
- Dec.'88 - May '90: **Post Doctoral Research Fellow**, University of Wales, Cardiff School of Engineering, Division of Materials and Minerals, U.K (European Commission Grant)

4. ACTIVITIES

Distinctions

1. 2016. Promotion committee staff member, University of Nicosia, Cyprus
2. 2015. The Life+ PROSODOL project was selected as one of the best projects among those ended in 2014 by the Life Unit of the European Commission
3. 2014. Promotion committee staff member, Università Politecnica delle Marche, Italy
4. July 2014. The bilateral project between Turkey and Greece «Treatment of Acid Mine Drainage Using Permeable Reactive Barriers (In-Situ Treatment) and Anaerobic Baffled Reactors (Ex-Situ Treatment)» (2011-2013) was declared as success project by Tubitak (Turkish Research Foundation), http://medeniyet.edu.tr/Guncel_Duyurular_ogretim_uyemiz_doc_dr_erkon_sahinkayanin_projesi_tubitak_basari_hik_ayesi_secildi.html
5. July 2014. Member of CASE (Council of Asian Science Editors), Korea
6. Sep. 2013 - : National expert for the action Societal Challenge 'Climate action, environment, resource efficiency and raw materials', Horizon 2020
7. Sep. 2013. Expert (European Commission) for the roadmap of metallurgy for Europe, Horizon 2020
8. Nov. 2009. The Laboratory of "Management of Mining/Metallurgical Wastes and Rehabilitation of Contaminated Soils" was selected with fifteen other European laboratories by the European standardisation committee CEN in the line of inter-laboratory evaluation, for the determination of neutralization potential of mining wastes as part of the implementation of the Directive on the management of wastes from the extractive industries, based on the validation of preliminary standard prEN 15875 (<http://www.cen.eu/cenorm/homepage.htm>)
9. Oct. 2006 – Jan. 2009. National Representative FP7 (2006-2013) for International Cooperation
10. Sep. 2003. "Alexander S. Onassis Foundation", 18 month research grant
11. Nov. 2002 – Oct. 2004. National Representative for the Horizontal Action "Integrating and Strengthening the European Research Area (FP6)
12. Jan. 2002 – Mar. 2003. National representative for the definition of financial rules of participants (model contracts) in FP6
13. Sep. 2003: Alexander S. Onassis Foundation. Grant for implementation of research project after a competitive call
14. 3 May 2002: Abdi İpekçi prize as Editor-in-Chief of the *European Journal of Mineral Processing and Environmental Protection*
15. 01/12/88 - 31/05/90: European Commission (Directorate Biology - Division Biotechnology). Research grant. Research was carried out at Cardiff School of Engineering
16. 1984-1986: "Alexander S. Onassis Foundation", Grant for PhD studies

Member of journal Editorial Boards

1. July 2015. Associate Editor of *Frontiers in Environmental Science: Wastewater Management*, <http://journal.frontiersin.org/journal/environmental-science/section/wastewater-management#about>
2. Member of the Editorial Board of the journal *Information Processing in Agriculture* (Elsevier), <http://www.elsevier.com/journals/information-processing-in-agriculture/2214-3173>, (since 08/2013)
3. Member of the Editorial Board of the journal *Environmental Forensics* (Taylor and Francis), <http://www.environmentalforensics.org/journal.htm>, (since 01/2005)
4. Member of the Editorial Board of the journal *Minerals Engineering* (Elsevier), <http://www.elsevier.nl/locate/issn/08926875> (since 04/2000)

Evaluator of Research Proposals

1. Nov. 2017. 2 post-doc proposals, University Calabria, Italy, remote
2. Oct. 2017. 15 proposals National Centre of Science and Technology Evaluation Kazakhstan, remote
3. Oct. 2017. 7 proposals bilateral program Greece-Israel (energy sector), GSRT, remote
4. Oct. 2017. 1 post-doc proposal, University of Insubria, Italy, remote
5. Aug. 2017. 32 proposals bilateral program Greece-Germany (Energy sector) GSRT, remote
6. May 2017. 1 proposal Russian NSF, remote
7. May 2017. 1 proposal Swiss NSF, remote
8. Mar. 2017. 1 proposal. Politecnico di Torino (networks), remote
9. Feb. 2017. 4 proposals. National Science Foundation, Russia, remote
10. Feb. 2017. 2 proposals. National Center of Research and Development Poland, remote
11. Nov. 2016. 2 proposals M-ERA.NET (remote)
12. Sep. 2016. 18 proposals, Executive Agency for Higher Education, Research, Development and Innovation Funding, Romania, remote
13. July 2016. 3 proposals, Fifth Open Grant Competition of the Government of the Russian Federation "On measures designed to attract leading scientists to Russian institutions of higher learning", remote
14. July 2016. 6 proposals ERANETMED2, remote
15. June 2016. 9 proposals H2020-NMBP-BIO_2016, BIOTEC-02-2016, Stage 2, (Appointment letter CT-EX2002B000337-124), remote
16. June 2016. 1 proposal, Czech Science Foundation, remote
17. May 2016. 1 proposal, MIUR (the Italian Ministry for Education, University and Research), call for proposals "PRIN 2015", remote
18. Apr. 2016. 6 proposals. National Center of Research and Development Poland, remote
19. Mar. 2016. National Center of Research and Development Poland. Mid-term review of ongoing project
20. Feb. 2016. 11 proposals, Russian Science Foundation, remote
21. Feb. 2016. 8 proposals H2020-NMBP-GV-2016, (Appointment letter CT-EX2002B000337-123), One stage call, remote
22. Jan. 2016. 16 proposals H2020-NMBP-BIO_2016, BIOTEC-02-2016, Stage 1, (Appointment letter CT-EX2002B000337-122), remote
23. Non. 2015. NSF (National Science Foundation) Russia, 6 proposals, remote
24. Oct. 2015. DLR Germany, 5 proposals, remote
25. Sep. 2015. University of Insubria, Italy, 1 proposal, remote
26. Aug. 2015. NCRD, Poland, 3 proposals, remote
27. May 2015. 1 proposal, NSF Russia, remote
28. May 2015. Politecnico di Torino. 1 proposal for "TALENT RESEARCH" (LA RICERCA DEI TALENTI) call, remote
29. May 2015. ERA.NET RUS Plus, 3 proposals (remote)
30. Apr. 2015. 3 proposals National Centre for Research and Development (NCRD) Poland (remote)
31. Feb. 2015. 2 proposals M-ERA.NET (remote)

32. Feb. 2015. 9 proposals H2020 SPIRE Call 2015_Topic 6, (Appointment letter CT-EX2002B000337-121), remote and Brussels
33. Feb. 2015. Rustaveli Foundation, Georgia, 2 προτάσεις (remote)
34. Dec. 2014. ERA.NET RUS Plus, 3 προτάσεις (remote)
35. Dec. 2014. MIUR (Italian Ministry for Education, University and Research), 1 proposal, remote
36. Nov. 2014. 1 post-doc research proposal, University of Insubria, Italy, remote
37. Nov. 2014. 10 proposals, National Centre of Research and Technology, Kazakhstan, remote
38. Nov. 2014. 2 proposals, Ministry of Research, Montenegro, remote
39. Oct. 2014. 2 proposals (environment), National Centre for Research and Development, Poland, remote
40. Aug. 2014. 1 proposal (environment), Bulgarian Science Fund, remote
41. Apr. 2014. 6 proposals in materials / metallurgy for National Centre for Research and Development, Poland, remote
42. Mar. 2014. M-ERA.NET, 4 proposals in materials, remote
43. Mar. 2014. Romanian Executive Agency for Higher Education, Research, Development and Innovation Funding (www.uefiscdi.gov.ro), 6 environmental proposals, remote
44. Jan. 2014. 2 proposals, Montenegro Ministry of Research, remote
45. Nov. 2013. 7 proposals, Ministry of Education and Science, Russian Federation, remote
46. Oct. 2013. 1 proposal, National Commission for Scientific and Technological Research (CONICYT), Chile, remote
47. Sep. 2013. 2 proposals, Shota Rustaveli National Science Foundation's (SRNSF), Georgia, remote
48. Aug. 2013. 7 bilateral Greek-German proposals in the field of energy, GSRT, remote
49. July 2013. Technical review of a finished FP7 Collaborative project, (Appointment letter CT-EX2002B000337-120), remote
50. May 2013. 3 proposals M-ERA.NET 2012 Call (remote)
51. Apr. 2013. 6 proposals FP7-ENV2013, 6.3.2 (Eco-innovative demonstration projects) 2nd stage, (Appointment letter CT-EX2002B000337-119), remote and Brussels
52. Mar. 2013. 5 proposals in environment/materials for reintegrating scientists, Ministry of Education and Science, Russian Federation
53. Feb. 2013. 6 proposals in materials/metallurgy for the National Centre for Research and Development, Poland
54. Jan. 2013. Technical review of an ongoing FP7 Collaborative project, Appointment letter CT-EX2002B000337-118
55. Nov. 2012. 10 proposals FP7-ENV2013, 6.3.2 (Eco-innovative demonstration projects) one and 2 stage, Appointment letter CT-EX2002B000337-117
56. Oct. 2012. Portuguese Center of Research and Technology (FCT), remote
57. July 2012. National Centre of Research and Technology of Kazakhstan (remote)
58. July 2012. Bilateral proposals Greece-Slovak Republic (remote)
59. 11-15 June 2012. European Commission, Stage 2 proposal evaluation, call "NMP.2012.1.2-1 Nanotechnology solutions for in-situ soil and groundwater remediation", Appointment letter CT-EX2002B000337-116
60. 11 Feb. 2012. Basic research proposals, National Technical University of Athens
61. 1-4 Feb. 2012. Greek Ministry of Education, GSRT, Support of new SMEs in RTD activities
62. 24/11-8/12/11. European Commission, 10 proposals, stage 1 proposal evaluation, "NMP.2012.1.2-1 Nanotechnology solutions for in-situ soil and groundwater remediation", Appointment letter CT-EX2002B000337-115 (remote)
63. Sep. 2011. Science Foundation of Georgia (remote)
64. Sep. 2011. European Commission, Appointment letters CT-EX2002B000337-113 and 114
65. July 2011. Ministry of Education and Science, Russian Federation, proposals for reintegration of Russian scientists
66. 18-20 July 2011. Greek Ministry of Education, GSRT, 36 proposals for supporting research and innovation in SMEs
67. July 2011. Research proposals in materials, Czech Science Foundation (remote)
68. Nov. 2010. Research proposals, National Science Foundation, Arlington, VA, USA (remote)
69. Oct. 2010. Research proposals, Ministry of Education and Science, Russian Federation (remote)

70. Oct. 2010. Research proposals, Ministry of Science and Technological Development, Serbia (remote)
71. 25 Sep. 2010. Basic research proposals, National Technical University Athens
72. 1-3 Sep. 2010. Innovation proposals (32), General Secretariat of Research and Technology, Athens
73. July 2010. Basic research proposal, Czech Science Foundation (remote)
74. 23 Apr. 2010. Heraklitus proposals, Greek Ministry of Education, Athens
75. Mar. 2010. Materials research proposals (1) for the Cyprus Research Promotion Foundation (remote)
76. Mar. 2010. Cooperation proposals (3), General Secretariat of Research and Technology, Athens
77. 3 Feb. 2010. Student training proposals (3), Greek Ministry of Education, Athens
78. Nov. 2009. Environmental research proposals (2) for the Cyprus Research Promotion Foundation
79. 21-23 Sep. 2009 and 5 Jan. 2010. 31 Heraklitus proposals, Greek Ministry of Education, Athens
80. 8 May. 2009. Independent Expert of an ongoing FP6 IP, NMP3-CT-2005-011783 (Appointment Letter CT-EX2002B000337-111)
81. 3 Mar. 2009. Independent Expert of an ongoing FP6 IP, NMP3-CT-2004-500253 (Appointment Letter CT-EX2002B000337-110)
82. 30 June 2008. Environmental research proposals (2) for the Cyprus Research Promotion Foundation, Athens
83. 7 June 2008. Basic research proposals, National Technical University Athens, Greece
84. 6 Mar. 2008. Independent expert of an ongoing FP6 IP, NMP3-CT-2005-011783 (Appointment Letter CT-EX2002B000337-109)
85. 13 Sep. 2007. Environmental research proposals for the Cyprus Research Promotion Foundation, Athens
86. 7 July 2007. Basic research proposals, National Technical University Athens, Greece
87. Apr. 2007. Remote evaluation of SEE ERA- NET proposals through Extranet of European Commission
88. 9 Dec. 2006. Basic research proposals, National Technical University Athens, Greece
89. 28-29 Nov. 2006. Independent expert for a FP6 NoE project on new materials, NMP3-502243, Brussels, (Appointment Letter CT-EX2002B000337-108)
90. 10-13 Oct. 2006. Reviewer of completed INCO projects, Brussels.
91. 11 Sep. and 2 Oct. 2006. Environmental research proposals for the Cyprus Research Promotion Foundation
92. June-July 2006. INTAS research proposals (through EC Extranet)
93. 10-14 Apr. 2006. Proposals between Greek and Non-EU organizations, General Secretariat of Research and Technology, Greece
94. 3-20 Mar. 2006. Remote evaluation of European Commission Leonardo da Vinci proposals
95. 17 Nov. 2005. Independent expert for a FP6 NoE project on new materials, Brussels
96. 13-14 Oct. 2005. Proposals for DG International Cooperation (Call for Proposals "FP6-2004-INCO-MPC-3"), Brussels
97. 10-13 Oct. 2005. Proposals for DG Research (Call for Proposals "FP6-2004-NMP-TI-4"), Brussels
98. Aug. 2005. INTAS research proposals (through EC Extranet)
99. 19 July 2005. Environmental research proposals for the Cyprus Research Promotion Foundation, Athens, Greece
100. Apr.- May 2005. Proposals for the Regional Network of Technology Supply – RENTS of Crete, Tech. University Crete
101. 6-8 Apr. 2005. Reviewer of completed INCO proposals (Appointment Letter CT-EX2002B000337-102), Brussels
102. 5 Apr. 2005. Environmental research proposals for the Cyprus Research Promotion Foundation, Athens, Greece
103. Feb. 2005. Innovation proposals (CRINNO program), Tech. University Crete
104. 14-16 Dec. 2004. Educational proposals, Greek Ministry of Education
105. 22 Nov. 2004. Environmental research proposals for the Cyprus Research Promotion Foundation, Athens, Greece
106. Sep.-Oct. 2004. INTAS research proposals and innovation grants (through EC Extranet)
107. 15 Sep. 2004. Environmental Greek-French bilateral proposals (GSRT)
108. 13 Sep. 2004. Environmental Greek-Slovenia bilateral proposals (GSRT)
109. 29 Mar. 2004. 3 Environmental proposals for the Cyprus Research Promotion Foundation, Athens, Greece.

110. 22 Mar. 2004. 10 materials-environment Greece-Serbia and Montenegro bilateral co-operation proposals, General Secretariat of Research and Technology, Athens, Greece.
111. 14-18 Mar. 2004. Leonardo da Vinci proposals (CONTRACT NUMBER –2004-99999-27), Brussels.
112. 3 Mar. 2004. 6 environmental Greece-Hungary bilateral co-operation proposals, General Secretariat of Research and Technology, Athens.
113. Sep. 2003. INTAS proposal (on-line evaluation through INTAS extranet)
114. 10 – 13 June 2003. FP6 WBC STREPs (Appointment Letter CT-EX2002B000337-101), Brussels.
115. June 2003. 16 research proposals, Greek Ministry of Education, Athens, Greece.
116. 31 Mar. – 5 Apr. 2003. FP6 NMP NoEs (stage 1), Appointment Letter FP6-2002-NPM-1-00042, Brussels.
117. 13 May 2002: 4 environmental research proposals for the Cyprus Research Promotion Foundation, Athens, Greece.
118. May 2002. Greek proposals for post-graduate research, Greek Ministry of Education, Greece.
119. 2-6 July 2001: FP5 proposals (Contract Letter IEA2-CT2001-0013), Brussels.
120. 6 Mar. 2001. 4 environmental research proposals for the Cyprus Research Promotion Foundation, Athens, Greece.
121. 17-19 May 2000: FP5 proposals (Contract Letter IEA2-CT2000-00003), Brussels.
122. 4-15 Oct. 1999: FP5 proposals (Contract Letter ERBIEA2CT995033), Brussels.
123. Mar. 1994. Greek research proposals, Greek Secretariat of Research and Technology (GSRT)

Conference co-chair

1. ILR-SUD 2010 – Co-organiser, 2nd International Conference on Indicators for Land Rehabilitation and Sustainable Development, 18-19 Sep. 2010, Beijing, China, <http://www.iccta.cn/ilrsud/en/index.html>
2. Co-chair "3rd International Conference on Advances in Mineral Resources Management and Environmental Geotechnology", 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/amireg2009>
3. ILR-SUD 2008 – Co-organiser, 1st International Conference on Indicators for Land Rehabilitation and Sustainable Development, 20-21 Oct. 2008, Beijing, China, <http://www.ilr-sud.cn/cicta/ilr-sud/en/index.html>
4. Co-chair "2nd International Conference on Advances in Mineral Resources Management and Environmental Geotechnology", 25-27 Sep. 2006, Chania, Crete, Greece, <http://heliotopos.conferences.gr/amireg2006>
5. Co-chair Geoenvironmental and Geotechnics Workshop, 12-14 Sep. 2005, Milos, Greece, <http://milos.conferences.gr/index.php?id=1751>
6. Co-chair of the "1st International Conference on Advances in Mineral Resources Management and Environmental Geotechnology", 7-9 June 2004, Chania, Crete, Greece, <http://heliotopos.conferences.gr/amireg2004>

Member in conference scientific committees

1. Member of International Advisory Panel – 1st International Conference "Mining in Europe", Aachen, 18-19 May 2016, <http://www.aims.rwth-aachen.de/>
2. 5th International Conference on Industrial and Hazardous Waste Management - Crete 2016, Chania, 27-30 Sep. 2016, <http://www.hwm-conferences.tuc.gr/>
3. Bauxite Residue Valorisation and Best Practices Conference, Leuven, 5-7 Oct. 2015, <http://conference2015.redmud.org/>
4. 4th Conference «Green Chemistry and Sustainable Development» Ioannina, 30 Oct.-1 Nov. 2014.
5. 4th International Symposium on Green Chemistry for Environment, Health and Development, Sep. 24-26, 2014, Kos island, Greece, <http://www.greenchem4.prd.uth.gr/>
6. International Mineral Processing Congress (IMPC) 2014, 20-24 Oct. 2014, Santiago, Chile, <http://www.impc2014.org/2014/>
7. IWA Regional Symposium on Water, Wastewater & Environment: Traditions & Culture, under the Aegis of UNESCO, 22-24 March 2014, Patras, <http://wwetc2014.env.uwg.gr/wms/>
8. 6th International Conference "Sustainable Development in the Minerals Industry (SDIMI 13)", 30 June-2 July 2013, Milos, Greece, <http://sdimi2013.conferences.gr/sdimi2013-home.html>
9. 13th International Conference of the Geological Society of Greece, 5-8 Sep. 2013, Chania, <http://www.ege13.gr/>
10. International Symposium "Olive oil mill wastes and environmental protection", 16-18 Oct. 2012, Chania, Crete, <http://www.prosodol.gr/Crete2012/?q=node/5>

11. 3rd International Symposium on Green Chemistry for Environment and Health, Skiathos, Oct. 3-5, 2012, <http://www.greenchem3.prd.uth.gr/>
12. 2nd International Symposium on Green Chemistry for Environment and Health, Mykonos, Sep. 27-29, 2010, <http://www.greenchem2.prd.uth.gr/organization.html>
13. INGESUB 2008. Member of the Scientific Committee, International Conference on Subsoil Research, Oviedo, Spain, 10-11 Nov. 2008.
14. Scientific Committee of International Workshop on Geoenvironment and Geotechnics, 8-9 Sep. 2008, Milos, Greece, <http://milos.conferences.gr/geoenv2008>
15. Scientific Committee of 3rd International Conference on Sustainable Development Indicators in the Mineral Industries (SDIMI), June 17-20, 2007, Milos, <http://milos.conferences.gr/sdimi2007>
16. Scientific Committee of TMS Fall 2006 Extraction & Processing Meeting: Sohn International Symposium, 27-31 Aug. 2006, San Diego, California. <http://www.tms.org/Meetings/Specialty/FallExt2006/FallExt2006-organizingcommittee.html>
17. Scientific Committee of Mine Water Association Congress 2005 (IMWA '05), 5-8 Sep. 2005, Oviedo, Spain, <http://www.imwa.info/>
18. Scientific Committee of 5th Conference "Integrated Management of Water Resources organized by the Greek committee for management of water resources, Xanthi, Greece, 6-9 April 2005, <http://www.waterinfo.gr/>
19. Organizing Committee of 15th International Biohydrometallurgy Symposium, IBS, 14-19 Sep. 2003, Athens, <http://www.nereusgroup.gr/congress/ibs2003/>.
20. Scientific committee of International Workshop Sustainable Development Indicators in the Mineral Industries (SDIMI), 21-23 May 2003, Milos island, Greece, <http://www.heliotopos.net/conf/sdimi2003/index.htm>.

5. TUTORIALS

Post-graduate courses

Technical University Crete (TUC), School Mineral Resources Eng.

1. Sep. 2014-Feb. 2015. ERASMUS MUNDUS PROGRAM, International Master in Advanced Clay Science (IMACS), course: Geomaterials and Civil Engineering - Assessment and Processing
2. Sustainable development in the mining and metallurgical industry (2003-today)
3. Technologies for decontamination of soils, solid- and liquid wastes (2003-today)
4. Physico-chemical processes (2003-2006)

Greek Open University

1. Hazardous Waste Management (2007- today). Involves Management of Municipal, Industrial and Agricultural wastes

National Technical University of Athens (NTUA), School of Mining and Metallurgical Eng.

1. Soil decontamination technologies (1998-2002)
2. Refractory materials (1986-1988)

Graduate courses

Technical University Crete (TUC), School Mineral Resources Eng.

1. Industrial ecology (Sep. 2015-)
2. Ore beneficiation (Feb. 2015-)
3. Particle Engineering (Sep. 2014-2016)
4. Metallurgical processes. Production of metalsand Ceramics (2004-)
5. Technologies for pollution prevention and control and environmental rehabilitation (2000-2015)
6. Applied geostatistics (2001-2002)

National Technical University of Athens (NTUA), School of Mining and Metallurgical Eng.

7. Off gases treatment technologies (2000-2002)
8. Metallurgy of non-ferrous metals (2000-2001)
9. Iron and Steel Metallurgy (2000-2002)

6. SCIENTIFIC PUBLICATIONS

Books – Chapter in Books

1. Doula, M.K., Moreno-Ortego, J.L., Tinivella, F., Inglezakis, V., Sarris, A., **Komnitsas, K.** 2017. Olive Mill Waste: Recent Advances for the Sustainable Management of Olive Oil Industry (ch. 2), in *Olive mill waste: recent advances for sustainable management*, ed. Ch. Galanakis, ISBN: 9780128053140, p. 29-56.
2. Kamenopoulos, S.N., Agioutantis, Z., **Komnitsas, K.** 2015. A framework for sustainable mining of REEs, in *Rear Earths Industry: Technological, Economic, and Environmental Implications*, Chapter 7, (eds. Prof. W. Leal, Dr. I. Lima), ISBN-9780128023280, pp. 111-120.
3. **Komnitsas, K.**, Xenidis, A., Papassiopi, N., Angelakis, A. 2014. Evolution of Water and Industrial Wastewater Management in Lavrion, Ch. 25, p.481-492, in *Evolution of Sanitation and Wastewater Technologies Through the Centuries*, eds. A.N. Angelakis, J.B. Rose, IWA Publishing, ISBN: 9781780404844
4. Doula, M.K., Tinivella, F., Sarris, A., Kavvadias, V., Moreno Ortego, J., **Komnitsas, K.** 2014. Agricultural wastes: protecting soil quality by sustainable disposal and reuse in agriculture, book chapter in *Sustainability behind Sustainability* (ed. A. Zorpas), Nova Publishers, New York, ISBN:978-1-63321-595-5 (e-Book) p. 243-274.
5. **Komnitsas, K.**, Xenidis, A., Papassiopi, N., Angelakis, A. (2014). Evolution of Water and Industrial Wastewater Management in Lavrion, Ch. 25, in *Evolution of Sanitation and Wastewater Technologies Through the Centuries*, eds. A.N. Angelakis, J.B. Rose, IWA Publishing, ISBN: 9781780404844
6. Kavvadias, V., Doula, M., **Komnitsas, K.** (2011). Long term effects of olive mill wastes disposal on soil fertility and productivity. In: *Hazardous Materials: Types, Risks and Control* (Editors: Satinder Kaor Brar), 2011 Nova Science Publishers, Inc., ISBN: 978-1-61324-425-8.
7. Modis, K., **Komnitsas, K.** (2011). How Many Data Are Enough? Estimation of an Optimum Sampling Density in Mining and Environmental Applications, in *Mine Drainage and Related Problems* (ed. B.C. Robinson), Nova Publishers. ISBN: 978-1-61668-643-7
8. **Komnitsas, K.**, Zaharaki, D. (2009). Utilisation of low-calcium slags to improve the strength and durability of geopolymers (Chapter 16), in *Geopolymers: structure, processing, properties and industrial applications*, (eds. J. L. Provis & J.S.J. van Deventer), Woodehead Publishing Ltd, UK, ISBN 978 1 84569 449 4.
9. **Komnitsas, K.** (2003). Management of radioactive wastes (Chapter 5), Rehabilitation of soils contaminated from disposal of hazardous wastes (Chapter 6), Prevention of contamination at waste disposal sites (Chapter 7), Sampling and characterization of hazardous wastes (Chapter 8), Selection and cost estimation of integrated waste management technologies (Chapter 9), pp. 93-321, in *Hazardous Wastes*, Vol. 2, Hellenic Open University, 2003, ISBN: 960-538-372-1.
10. **Komnitsas, K.** (2003). Liquid effluents of the mining-metallurgical industry (Chapter 11, p.p. 177-234), in *Industrial Liquid Effluents*, vol. 2, Hellenic Open University, 2003, ISBN: 960-538-370-5.
11. **Komnitsas, K.** (2003). Demolition wastes (Chapter 8), Solid mining and metallurgical wastes (Chapter 9), pp. 181-214, in *Municipal and other non hazardous wastes*, vol. 1, Hellenic Open University, 2003, ISBN: 960-538-371-3.
12. **Komnitsas, K.**, Belavilas, N., Polyzos, I. (2001). Clean up and remediation of sites affected by mining and processing activities, Chapter 1, pp. 15-64, in *Bioclimatic Planning of Cities and Buildings*, Vol. 2, Hellenic Open University, 2001, ISBN: 960-538-383-7.

Diploma Thesis

- **Komnitsas, K.:** Kinetic study of sulphuric acid laterite leaching in ambient conditions, NTUA, 1983 (in Greek).

PhD thesis

- **Komnitsas, K.:** Sulphuric acid pressure leaching of Greek laterites. Process simulation, NTUA, 1988 (in Greek-English summary).

Refereed publications in journals

1. Kontopoulos A., **K. Komnitsas.** Sulphuric acid pressure leaching of Greek laterites, *Mineral Wealth*, 45(1986), 81-90 (in Greek, English summary).

2. Kontopoulos A., N. Kouloubi, **K. Komnitsas**. Bauxite-alumina-aluminium industry. Greek and international perspectives, *Mineral Wealth*, 50, 1987, 1-18 (in Greek, English summary).
3. Kontopoulos, A., **K. Komnitsas**. Perspectives of the mixed sulphides industry, *Mineral Wealth*, 52, 1988, 23-35, (in Greek, English summary).
4. **Komnitsas K.**, F.D. Pooley. Mineralogical characteristics and treatment of refractory gold ores. *Minerals Engineering*, 2(4), 1989, 449-457, [http://dx.doi.org/10.1016/0892-6875\(89\)90080-0](http://dx.doi.org/10.1016/0892-6875(89)90080-0)
5. **Komnitsas K.**, F.D.Pooley. Bacterial oxidation of a refractory gold sulphide concentrate from Olympias, Greece, *Minerals Engineering*, 3(3/4), 1990, 295-306, [http://dx.doi.org/10.1016/0892-6875\(90\)90125-U](http://dx.doi.org/10.1016/0892-6875(90)90125-U)
6. **Komnitsas K.**, F.D.Pooley. Optimization of the bacterial oxidation of an arsenical gold sulphide concentrate from Olympias, Greece. *Minerals Engineering*, 4(12), 1991, 1297-1303, [http://dx.doi.org/10.1016/0892-6875\(91\)90173-S](http://dx.doi.org/10.1016/0892-6875(91)90173-S)
7. **Komnitsas K.**, Constructed wetlands: A general overview, *Mineral Wealth*, 92, 1994, 39-54.
8. **Komnitsas K.**, Amenability of overburden and tailings to biooxidation, *Mineral Wealth*, 93, 1994, 37-44.
9. **Komnitsas K.**, Aspects on bacterial leaching technology, *Mineral Wealth*, 96, 1995, 45-50.
10. Kontopoulos A., **K. Komnitsas**, A. Xenidis, N. Papassiopi. Environmental characterisation of the sulphidic tailings in Lavrion, *Minerals Engineering*, 8(10), 1995, 1209-1219, , [http://dx.doi.org/10.1016/0892-6875\(95\)00085-5](http://dx.doi.org/10.1016/0892-6875(95)00085-5)
11. **Komnitsas K.**, A. Xenidis, K. Adam. Oxidation of pyrite and arsenopyrite in sulphidic spoils in Lavrion, *Minerals Engineering*, 8(12), 1995, 1443-1454, [http://dx.doi.org/10.1016/0892-6875\(95\)00109-3](http://dx.doi.org/10.1016/0892-6875(95)00109-3)
12. **Komnitsas K.**, A. Kontopoulos, I. Lazar, M. Cambridge. Risk assessment and proposed remedial actions in coastal tailings disposal sites in Romania, *Minerals Engineering*, 11(12), 1998, 1179-1190, [http://dx.doi.org/10.1016/S0892-6875\(98\)00104-6](http://dx.doi.org/10.1016/S0892-6875(98)00104-6)
13. **Komnitsas K.**, I. Lazar, I.G. Petrisor. Application of a vegetative cover on phosphogypsum stacks, *Minerals Engineering*, 12 (2), 1999, 175-185, [http://dx.doi.org/10.1016/S0892-6875\(98\)00130-7](http://dx.doi.org/10.1016/S0892-6875(98)00130-7)
14. Groudev S., S.G. Batkova, **K. Komnitsas**. Treatment of waters polluted with radioactive elements and heavy metals by means of a laboratory passive system, *Minerals Engineering*, 12 (3), 1999, 261-270, [http://dx.doi.org/10.1016/S0892-6875\(99\)00004-7](http://dx.doi.org/10.1016/S0892-6875(99)00004-7)
15. Hallett C., **K. Komnitsas**, S. Groudev. Mining wastes at Vromos Bay, *Mining Environmental Management*, 7(3), 1999, 10-12.
16. Paspaliaris I., N. Papassiopi, A. Xenidis, **K. Komnitsas**. Remediation of land contaminated by mining and metallurgical activities in Lavrion area, *Mining and Metallurgical Annals*, v. 1-2, 1999, 31-54.
17. Peppas A., **K. Komnitsas**, I. Chalikia. Use of organic covers for acid mine drainage control, *Minerals Engineering*, 13 (5), 2000, 563-574, [http://dx.doi.org/10.1016/S0892-6875\(00\)00036-4](http://dx.doi.org/10.1016/S0892-6875(00)00036-4)
18. Tabouris S., D. Kolitsa, A. Xenidis, **K. Komnitsas**. Environmental impact assessment of sulphidic spoils in Lavrion, *Mineral Wealth*, 114 (2000), 19-32 (in Greek, English summary).
19. **Komnitsas K.** Methodology for the assessment of pollutants risk at industrial and hazardous waste disposal sites (in Greek), *Mining and Metallurgical Annals*, v. 10 (1), 2000, (in Greek, English summary).
20. **Komnitsas K.**, A. Xenidis, S. Tabouris. Composite cover for the prevention of acid mine drainage, *Mining Environmental Management*, v.8 (6), 2000, 14-17.
21. **Komnitsas K.**, A. Peppas, I. Chalikia. Prediction of the life expectancy of organic covers, *Minerals Engineering*, 13(14-15), 2000, 1589-1601, [http://dx.doi.org/10.1016/S0892-6875\(00\)00142-4](http://dx.doi.org/10.1016/S0892-6875(00)00142-4)
22. Groudev S.N., I.I. Spasova, P.S. Georgiev, **K. Komnitsas**. Bioremediation of soil contaminated with radioactive elements, *Hydrometallurgy*, 59, 2001, 311-318, [http://dx.doi.org/10.1016/S0304-386X\(00\)00187-0](http://dx.doi.org/10.1016/S0304-386X(00)00187-0)
23. **Komnitsas K.**, I. Petrisor. Environmental Characterization and risk assessment of Somova waste dumps, *Mineral Wealth*, 118, 2001, 53-60.
24. **Komnitsas K.**, I. Paspaliaris, M. Zilberchmidt, S. Groudev. Environmental impacts at coal waste disposal sites. Efficiency of desulphurization technologies, *Global Nest*, 3(2), 2001, 135-142.
25. Petrisor I., **K. Komnitsas**, I. Lazar, A. Voicu, S. Dobrota, M. Stefanescu. Biosorption of heavy metals from leachates generated at mine waste disposal sites, *The Journal of European Mineral Processing and Environmental Protection*, 2(3), 2002, 158-167.
26. Xenidis, A., N. Papassiopi, **K. Komnitsas**. Carbonate rich mine tailings in Lavrion: Risk assessment and proposed rehabilitation schemes, *Advances in Environmental Research*, vol. 7 (2), 2003, 207-222, [http://dx.doi.org/10.1016/S1093-0191\(02\)00017-5](http://dx.doi.org/10.1016/S1093-0191(02)00017-5)
27. **Komnitsas K.**, A. Xenidis. Acid Mine Drainage – Generation, Impacts and Control in mixed sulphide mines and disposal sites, *Tech. Chron. Sci. J*, v. 1/2, 2001, 19-36 (in Greek, English summary).

28. **Komnitsas K.**, D. Kolitsa, I. Paspaliaris, Use of reactive materials for the clean up of acidic leachates generated from mine waste dumps, *Tech. Chron. Sci. J*, 1/2, 2002, 17-25.
29. Zilberchmidt M., M. Shpirt, **K. Komnitsas**, I. Paspaliaris. Thermal processing of sulfur containing coal wastes, accepted for presentation, *Minerals Engineering*, 17, 2004, 175-182, <http://dx.doi.org/10.1016/j.mineng.2003.10.026>
30. **Komnitsas K.**, G. Bartzas, I. Paspaliaris. Efficiency of limestone and red mud barriers: laboratory column studies, *Minerals Engineering*, 17, 2004, 183-194, <http://dx.doi.org/10.1016/j.mineng.2003.11.006>
31. **Komnitsas K.**, G. Bartzas, I. Paspaliaris, Treatment of inorganic contaminants using fly ash barriers: laboratory column studies, *Global Nest*, 2004, 1, 81-89.
32. Petrisor I., S. Dobrota, **K. Komnitsas**, I. Lazar, C. M. Kuperberg, M. Serban. Artificial inoculation - Perspectives in tailings phytostabilization, *International Journal of Phytoremediation*, 6(1), 2004, 1-15, <http://dx.doi.org/10.1080/16226510490439918>
33. Bartzas, G., **K. Komnitsas**, I. Paspaliaris (2006). Laboratory evaluation of Fe⁰ barriers to treat acidic leachates, *Minerals Engineering*, 19(5), 505-514, <http://dx.doi.org/10.1016/j.mineng.2005.09.032>
34. **Komnitsas, K.**, G. Bartzas, I. Paspaliaris (2006). Inorganic contaminant fate assessment in zero-valent iron treatment walls, *Environmental Forensics*, 7, 207-217, <http://dx.doi.org/10.1080/15275920600840479>
35. **Komnitsas, K.**, G. Bartzas, I. Paspaliaris (2006). Modeling of reaction front progress in fly ash permeable reactive barriers, *Environmental Forensics*, 7, 219-231, <http://dx.doi.org/10.1080/15275920600840552>
36. **Komnitsas, K.**, K. Modis (2006). Soil risk assessment of As and Zn contamination in a coal mining region using geostatistics, *Science of the Total Environment*, 371, 190-196, <http://dx.doi.org/10.1016/j.scitotenv.2006.08.047>
37. **Komnitsas, K.**, D. Zaharaki, V. Perdikatsis (2007). Geopolymerisation of low calcium ferronickel slags, Geopolymerisation of low calcium ferronickel slags, *Journal of Materials Science*, 42(9), Special Section: Advances in Geopolymer Science & Technology (Guest Editors: Grant C. Lukey, Angel Palomo, John L. Provis, Jannie S. J. van Deventer), 3073-3082, <http://dx.doi.org/10.1007/s10853-006-0529-2>
38. **Komnitsas, K.**, G. Bartzas, K. Fytas, I. Paspaliaris (2007). Long-term efficiency and kinetic evaluation of ZVI barriers during clean up of copper containing solutions, *Minerals Engineering*, 20, 1200-1209, <http://dx.doi.org/10.1016/j.mineng.2007.05.002>
39. Triantafyllidis St., Skarpelis N., **Komnitsas K.** (2007). Environmental characterisation of the Kirki (NE Greece) flotation tailings, *Environmental Forensics*, 8(4), 351-359, <http://dx.doi.org/10.1080/15275920701729688>
40. **Komnitsas, K.**, Zaharaki D. (2007). Geopolymerisation. A review, *Minerals Engineering*, 20, 1261-1277, <http://dx.doi.org/10.1016/j.mineng.2007.07.011>
41. Modis, K., **K. Komnitsas** (2007). Optimum sampling density for the prediction of acid mine drainage in an underground sulphide mine, *Mine Water and the Environment*, 26(4), 237-242, [DOI 10.1007/s10230-007-0014-4](http://dx.doi.org/10.1007/s10230-007-0014-4)
42. Modis, K., Papantonopoulos, G., **Komnitsas K.**, Papaodysseus, K (2008). Mapping optimization based on sampling size in earth related and environmental phenomena, *Stochastic Environmental Research and Risk Assessment*, 22, 83-93, <http://dx.doi.org/10.1007/s00477-006-0096-8>
43. Modis, K., **K. Komnitsas** (2008). Dimensionality of heavy metal distribution in waste disposal sites using non linear dynamics, *Journal of Hazardous Materials*, 156, 285-291, <http://dx.doi.org/10.1016/j.jhazmat.2007.12.063>
44. **Komnitsas, K.**, Zaharaki, D., V. Perdikatsis, (2009). Effect of synthesis parameters on the compressive strength of low-calcium ferronickel slag inorganic polymers, *Journal of Hazardous Materials*, 161:760-768, <http://dx.doi.org/10.1016/j.jhazmat.2008.04.055>
45. **Komnitsas, K.**, K. Modis (2009). Geostatistical risk assessment at waste disposal sites in the presence of hot spots, *Journal of Hazardous Materials*, 164(2-3): 1185-1190, <http://dx.doi.org/10.1016/j.jhazmat.2008.09.027>
46. Zaharaki, D., **Komnitsas K.** (2009). Effect of additives on the compressive strength of slag-based inorganic polymers, *Global Nest Journal*, 11(2):137-146.
47. **Komnitsas, K.**, K. Manousaki, D. Zaharaki (2009). Assessment of reactivity of sulphidic tailings and river sludges, *Geochemistry: Exploration, Environment, Analysis*, 9(4):313-318, <http://dx.doi.org/10.1144/1467-7873/09-198>
48. Guo, X., **Komnitsas, K.**, Li, D. (2010). Correlation between herbaceous species and environmental variables at the abandoned Haizhou coal mining site, *Environmental Forensics*, 11(1-2):146-153, <http://dx.doi.org/10.1080/15275920903558877>
49. Zaharaki, D., **K. Komnitsas**, V. Perdikatsis (2010). Use of analytical techniques for identification of inorganic polymer gel composition, *Journal of Materials Science*, 45(10):2715-2724, <http://dx.doi.org/10.1007/s10853-010-4257-2>
50. Guo, X., Li, D., **Komnitsas, K.**, (2010). Spatial heterogeneity of soil nutrients in an abandoned coal mine and waste disposal site of China, *Intelligent Automation and Soft Computing*, 16(6): 953-961.
51. **Komnitsas, K.**, Guo, X., Li, D., (2010). Mapping of soil nutrients in an abandoned Chinese coal mine and waste disposal site, *Minerals Engineering*, 23:627-635, <http://dx.doi.org/10.1016/j.mineng.2010.02.009>

52. Kavvadias, V., M.K. Doula, **K. Komnitsas**, N. Liakopoulou (2010). Disposal of olive oil mills wastes in evaporation ponds: Effects on soil properties, *Journal of Hazardous Materials*, 182: 144-155, <http://dx.doi.org/10.1016/j.jhazmat.2010.06.007>
53. Bartzas, G., **Komnitsas, K.**, (2010). Solid phase studies and geochemical modelling of low cost permeable reactive barriers, *Journal of Hazardous Materials*, 183(1-3): 301-308, <http://dx.doi.org/10.1016/j.jhazmat.2010.07.024>
54. **Komnitsas, K.**, Zaharaki, D., Doula, M., Kavvadias, V. (2011). Origin of recalcitrant heavy metals present in olive mill wastewater evaporation ponds and nearby agricultural soils, *Environmental Forensics*, 12:319-326, <http://dx.doi.org/10.1080/15275922.2011.622349>
55. **Komnitsas, K.** (2011). Potential of geopolymer technology towards green buildings and sustainable cities, *Procedia Engineering*, 21: 1023-1032, <http://dx.doi.org/10.1016/j.proeng.2011.11.2108>
56. Altun, M., Sahinkaya, E., Bektas, S., **Komnitsas, K.** (2012). Bioreduction of Cr(VI) from acidic wastewaters in a sulfidogenic ABR, *Minerals Engineering*, 32:38-44, <http://dx.doi.org/10.1016/j.mineng.2012.03.014>
57. Sahinkaya, E., Kilic, A., Altun, M., **Komnitsas, K.**, Lens, P.N.L. (2012). Hexavalent chromium reduction in a sulfur reducing packed-bed bioreactor, *Journal of Hazardous Materials*, 219-220:253-9, <http://dx.doi.org/10.1016/j.jhazmat.2012.04.002>
58. Zaharaki, D., **Komnitsas, K.** (2012). Long term behaviour of ferronickel slag inorganic polymers in various environments, *Fresenius Environmental Bulletin*, 21(8c): 2436-2440.
59. Bazdanis, G., Zaharaki, D., **Komnitsas, K.** (2012). Efficiency of organic/inorganic fixed beds to clean up solutions loaded with heavy metals, *Fresenius Environmental Bulletin*, 21(8c): 2431-2435.
60. **Komnitsas, K.**, Zaharaki, D. (2012). Pre-treatment of olive mill wastewaters at laboratory and mill scale and subsequent use in agriculture: legislative framework and proposed soil quality indicators, *Resources, Conservation & Recycling*, 69:82-89, <http://dx.doi.org/10.1016/j.resconrec.2012.09.009>
61. **Komnitsas, K.**, Zaharaki, D., Bartzas, G. (2013). Effect of sulphate and nitrate anions on heavy metal immobilisation in ferronickel slag geopolymers, *Applied Clay Science*, 73:103-9, <http://dx.doi.org/10.1016/j.clay.2012.09.018>
62. **Komnitsas, K.**, Bazdanis, G., Sahinkaya, E., Bartzas, G., Zaharaki, D. (2013). Removal of heavy metals from leachates using permeable reactive barriers filled with reactive organic/inorganic mixtures, *Desalination and Water Treatment*, 51:3052-3059, <http://dx.doi.org/10.1080/19443994.2012.748456>
63. Altun, M., Sahinkaya, E., Durukan, I., Bektas, S., **Komnitsas, K.** (2014). Arsenic Removal in a Sulfidogenic Fixed-Bed Column Bioreactor, *Journal of Hazardous Materials*, 269:31-7, <http://dx.doi.org/10.1016/j.jhazmat.2013.11.047>
64. **Komnitsas, K.**, Zaharaki, D. (2014). Assessment of human and ecosystem risk due to agricultural waste compost application on soils: A review, *Environmental Forensics*, 15:312-28, <http://dx.doi.org/10.1080/15275922.2014.950775>
65. Hamaideh A., **Komnitsas, K.**, Esaifan, M., Juma'a K. Al-Kafawein, Rahier, H., Alshaaer, M. (2014). Advantages of applying a steam curing cycle for the production of kaolinite-based geopolymers, *Arabian Journal of Science and Engineering* 39:7591-7, doi: [10.1007/s13369-014-1314-1](https://doi.org/10.1007/s13369-014-1314-1)
66. Alshaaer, M., Zaharaki, D., **Komnitsas, K.** (2015). Microstructural characteristics and adsorption potential of zeolitic tuff – metakaolin geopolymers, *Desalination and Water Treatment* 56: 338-345, <http://dx.doi.org/10.1080/19443994.2014.938306>
67. **Komnitsas, K.**, Pylotis, I., Zaharaki, D., Manoutsoglou, E. (2015). Using various guidelines and approaches for the assessment of marine sediment quality, *Environmental Forensics*, 16:109-116, <http://dx.doi.org/10.1080/15275922.2014.991006>
68. **Komnitsas, K.**, Zaharaki, D., Vlachou, A., Bartzas, G., Galetakis, M. (2015). Effect of synthesis parameters on the quality of construction and demolition wastes (CDW) geopolymers, *Advanced Powder Technology* 26(2):368-76, <http://dx.doi.org/10.1016/j.apt.2014.11.012>
69. **Komnitsas, K.**, Zaharaki, D., Pylotis, I., Vamvuka, D., Bartzas, G. (2015). Assessment of pistachio shell biochar quality and its potential for adsorption of heavy metals, *Waste and Biomass Valorization* 6:805-816, <http://dx.doi.org/10.1007/s12649-015-9364-5>
70. Bartzas, G., Tinivella, F., Medini, L., Zaharaki, D., **Komnitsas, K.** (2015). Assessment of groundwater contamination risk in an agricultural area in north Italy, *Information Processing in Agriculture*, **2(2):109-129**, <http://dx.doi.org/10.1016/j.inpa.2015.06.004>
71. Konsolakis, M., Kaklidis, N., Marnellos, G.E., Zaharaki, D., **Komnitsas, K.** (2015). Assessment of biochar as feedstock in a direct carbon Solid Oxide Fuel Cell, *Royal Chemistry Society Advances*, 5(90), 73399-73409, <http://dx.doi.org/10.1039/c5ra13409a>
72. Bartzas, G., Zaharaki, D., **Komnitsas, K.** (2015). Assessment of Aquifer Vulnerability in an Agricultural Area in Spain Using the DRASTIC Model, *Environmental Forensics*, 16(4):356-373, <http://dx.doi.org/10.1080/15275922.2015.1091407>

73. Bartzas, G., Zaharaki, D., **Komnitsas, K.** (2015). Life cycle assessment of open field and greenhouse cultivation of lettuce and barley, *Information Processing in Agriculture*, 2(3-4):191-207, <http://dx.doi.org/10.1016/j.inpa.2015.10.001>
74. Bartzas, G., **Komnitsas, K.** (2015). Life cycle assessment of FeNi production in Greece: A case study, *Resources Conservation and Recycling*, 105:113-122, <http://dx.doi.org/10.1016/j.resconrec.2015.10.016>
75. Pantazopoulou, E.; Zebiliadou, O.; Bartzas, G.; Xenidis, A.; Zouboulis, A.; **Komnitsas, K.** (2015). Industrial solid waste management in Greece: The current situation and prospects for valorization, *Journal of Solid Waste Technology & Management*, 41(4), 383-394.
76. **Komnitsas, K.**, Modis, K., Doula, M., Kavvadias, V., Sideri, D., Zaharaki, D. (2016). Geostatistical estimation of risk for soil and water in the vicinity of olive mill wastewater disposal sites, *Desalination and Water Treatment*, 57(7): 2982-95, <http://dx.doi.org/10.1080/19443994.2014.983988>
77. **Komnitsas, K.**, Zaharaki, D., Bartzas, G., Kaliakatsou, G., Kritikaki, A. (2016). Efficiency of pecan shells and sawdust biochar on Pb and Cu adsorption, *Desalination and Water Treatment*, 57(7): 3237-46, <http://dx.doi.org/10.1080/19443994.2014.981227>
78. Galetakis, M., Vasiliou A., Soultana, A., Piperidi, C., Alevizos, G, Steiakakis, M., **Komnitsas, K.** (2016). Experimental investigation of the utilisation of quarry dust for the production of microcement-based building elements by shelf-flowing moulding casting, *Construction and Building Materials*, 17:247-254, <http://dx.doi.org/10.1016/j.conbuildmat.2016.01.014>
79. **Komnitsas, K.**, Bazdanis, G., Bartzas, G. (2016). Efficiency of composite reactive barriers for the removal of Cr(VI) from leachates, *Desalination and Water Treatment*, 57:8990-9000, <http://dx.doi.org/10.1080/19443994.2015.1035343>
80. Moraetis, D., Papagiannidou, S., Pratikakis, A., Pentari, D., Komnitsas, K. (2016). Effect of zeolite application on potassium release in sandy soils amended with municipal compost, *Desalination and Water Treatment*, 57:13273-84, <http://dx.doi.org/10.1080/19443994.2015.1065440>
81. **Komnitsas, K.**, Zaharaki, D. (2016). Morphology of modified biochar and its potential for phenol removal from aqueous solutions, *Frontiers Environmental Science*, 4:26, <http://dx.doi.org/10.3389/fenvs.2016.00026>
82. Zaharaki, D., **Komnitsas, K.** (2016). Valorization of construction and demolition (C&D) and industrial wastes through alkali activation, *Construction and Building Materials*, 121, 686-693, <http://dx.doi.org/10.1016/j.conbuildmat.2016.06.051>
83. Kritikaki, A., Zaharaki, A., **Komnitsas, K.** (2016). Valorization of industrial wastes for the production of glass ceramics, *Waste and Biomass Valorization*, 7(4), 885-898, <http://dx.doi.org/10.1007/s12649-016-9480-x>
84. Vamvuka, D. Tsamourgeli, V., Zaharaki, D., **Komnitsas, K.** (2016). Potential of Poor Lignite and Biomass Blends in Energy Production, *Energy Sources Part A. Recovery, Utilization and Environmental Effects*, 38(14), 2079-2085, <http://dx.doi.org/10.1080/15567036.2015.1014980>
85. **Komnitsas, K.** (2016). Co-valorization of marine sediments and construction & demolition wastes through alkali activation, *Journal of Environmental Chemical Engineering*, 4, 4661-4669, <http://dx.doi.org/10.1016/j.jece.2016.11.003>
86. **Komnitsas, K.**, G. Bartzas, M.T. Hernández-Fernández (2016). Assessment of groundwater vulnerability to pollution in Barrax, Albacete, Spain, *Acta Horticulturae* 1146, 221-226, <http://dx.doi.org/10.17660/ActaHortic.2016.1146.29>
87. Antivachis, D., Skarpelis, N., **Komnitsas, K.** (2017). Secondary Sulphate Minerals in a Cyprus type ore deposit, Apliki, Cyprus: Mineralogy and Environmental Impact, *Mine Water and the Environment*, <http://dx.doi.org/10.1007/s10230-016-0398-0>
88. Petrakis, E. Stamboliadis, E., **Komnitsas, K.** (2017). Evaluation of the relationship between energy input and particle size distribution in comminution with the use of piecewise regression analysis, *Particulate Science and Technology*, <http://dx.doi.org/10.1080/02726351.2016.1168894>
89. Petrakis, E. Stamboliadis, E., **Komnitsas, K.** (2017). Identification of optimum mill operating parameters during grinding of quartz with the use of population balance modeling, *KONA Powder and Particle Journal*, 34, 213-223, <http://dx.doi.org/10.14356/kona.2017007>
90. Bartzas, G., Zaharaki, D., Doula, M., **Komnitsas, K.** (2017). Evaluation of groundwater vulnerability in a Greek island using GIS-based models, *Desalination and Water Treatment*, 67, 61-73, [doi: 10.5004/dwt.2017.20366](https://doi.org/10.5004/dwt.2017.20366)
91. Kamenopoulos, S. Agioutantis, Z., **Komnitsas, K.** (2017). A new Hybrid Decision Support Tool for evaluating the sustainability of mining projects, *International Journal of Mining Science and Technology*, accepted
92. Bartzas, G., **Komnitsas, K.** (2017). Life cycle analysis of pistachio production in Greece, *Science of the Total Environment*, 595, 13-24, <http://dx.doi.org/10.1016/j.scitotenv.2017.03.251>
93. Bartzas, G., Vamvuka, D., **Komnitsas, K.** (2017) Comparative life cycle assessment of pistachio, almond and apple production, *Information Processing in Agriculture*, 4, 188-198, <http://doi.org/10.1016/j.inpa.2017.04.001>
94. Petrakis, E., **Komnitsas, K.** (2017). Improved modeling of the grinding process through the combined use of matrix and population balance models, *Minerals*, 7, 67, [doi:10.3390/min7050067](https://doi.org/10.3390/min7050067)

95. **Komnitsas, K.**, Doula, M. (2017). Guidelines towards sustainable agriculture in small Mediterranean islands. *European Journal of Sustainable Development*, 6(4), 1-10, [doi: 10.14207/ejsd.2017.v6n4p](https://doi.org/10.14207/ejsd.2017.v6n4p)
96. **Komnitsas, K.**, Doula, M. (2017). Framework to improve sustainability of agriculture in small islands. The case of *Pistacia vera* L. cultivation in Aegina, Greece, *Environmental Forensics*, 18(3), 214-225, <https://doi.org/10.1080/15275922.2017.1340370>
97. Kamenopoulos, S., Agioutantis, Z., **Komnitsas, K.** (2017). A new Hybrid Decision Support Tool for evaluating the sustainability of mining projects, *International Journal of Mining Science and Technology*, <http://dx.doi.org/10.1016/j.ijmst.2017.07.001>, accepted
98. Ekman Nilsson, A., Macias Aragones, M., Royo, F., Dunon, V., Oorts, K., Angel, H., **Komnitsas, K.**, Willquist, K. (2017). A Review of the Carbon footprint of Cu and Zn production from primary and secondary sources, *Minerals*, 7, 168, [doi:10.3390/min7090168](https://doi.org/10.3390/min7090168)
99. **Komnitsas, K.**, Zaharaki, D., Bartzas, G., Alevizos, G. (2017). Adsorption of scandium and neodymium on biochar derived after low-temperature pyrolysis of sawdust, *Minerals*, 7, 200, [doi:10.3390/min7100200](https://doi.org/10.3390/min7100200)

Citations: 1753 (Scopus, 94 papers), 1498 (Web of Science, 73 papers), 2519 (Google Scholar)

h-index: Scopus: **23**, Web of Science: **21**, Google Scholar: **27**

Invited papers

1. **Komnitsas, K.** (2011). Potential of geopolymer technology towards green buildings and sustainable cities, 2011 International Conference on Green Buildings and Sustainable Cities, Bologna, 14-16 Sep. 2011.
2. **Komnitsas, K.**, Kourti, I., Onisei, S., Pontikes, Y., Cheeseman, C., Moldovan, P., Boccaccini, A. (2011) Geopolymerisation potential of metallurgical slags and plasma treated APC residues, 2nd International Slag Valorisation Symposium, 18-20 April 2011, Leuven, Belgium
3. **Komnitsas, K.**, G. Bartzas, I. Paspaliaris (2006). Efficiency of PRBs for the treatment of groundwater contaminated by heavy metals, *NATO ARW (Advanced Research Workshop) in Environmental Security Threats in Urban Settings*, 8-9 June 2006, Athens, Greece, invited paper.
4. **Komnitsas, K.**, A. Kontopoulos, M. Cambridge, S. Groudev, I. Lazar (1998). Proposed rehabilitating actions for mitigating marine pollution caused by mining activities in coastal Black Sea areas, *Eros Symposium on the North Western Black Sea*, Ispra, Italy, 11-13 June.

Refereed publications in International Conferences

1. Kontopoulos A., **K. Komnitsas**. Sulphuric acid pressure leaching of low-grade Greek laterites. *Proceedings of the 1st International Symposium on Hydrometallurgy*, (Zheng Yulian, Xu Jiazhong eds.), Pergamon Press, Oxford 1988, 140-144, 12-15 Oct. 1988, Beijing, China.
2. Kontopoulos A., **K. Komnitsas**. Extraction of nickel and cobalt from Greek laterites by sulphuric acid pressure leaching. *Proceedings of the International Seminar on Laterite Ore Acid Leaching Technology*, Ciudad de Moa, Holguin, Cuba, Nov. 10-17, 1991.
3. **Komnitsas K.**, F.D. Pooley. Oxidation of arsenopyrite in bacterial ferric solutions, *Hydrometallurgy '94 Conference Proceedings*, 10-14 July 1994, Cambridge, U.K, 361-367.
4. **Komnitsas K.**, F.D. Pooley. Bacterial oxidation of an auriferous arsenical pyrite concentrate, *Hydrometallurgy '94 Conference Proceedings*, 10-14 July 1994, Cambridge, U.K, 351-359.
5. Adam K., **K. Komnitsas**, N. Papassiopi, A. Kontopoulos, F.D. Pooley, N. Tidy. Stability of arsenical bacterial oxidation products, *Hydrometallurgy '94 Conference Proceedings*, 10-14 July 1994, Cambridge, U.K, 291-311.
6. Kontopoulos A., **K. Komnitsas**, A. Xenidis, E. Mylona, A. Adam. Rehabilitation of the flotation tailings dam in Lavrion. Part I. Environmental Characterisation and Development Studies, *Proceedings of the III International Conference and Workshop on Clean Technologies for the Mining Industry*, Santiago, Chile, 15-17 May 1996, 377-389.
7. Kontopoulos A., **K. Komnitsas**, A. Xenidis. Rehabilitation of the flotation tailings dam in Lavrion. Part II. Field Application, *Proceedings of the III International Conference and Workshop on Clean Technologies for the Mining Industry*, Santiago, Chile, 15-17 May 1996, 391-400.
8. Kontopoulos A., N. Papassiopi, **K. Komnitsas**, A. Xenidis. Environmental characterisation and remediation of the tailings and soils in Lavrion, *Conference Proceedings - Protection and Restoration of the Environment III*, Chania - Greece, 28-30 Aug. 1996, 484-493.
9. Kontopoulos A., **K. Komnitsas**, A. Xenidis. Environmental characterisation of the lead smelter slags in Lavrion, *Proceedings of the IMM Minerals Metals and the Environment II Conference*, 3-6 Sep. '96, Prague, 405-419.

10. Kontopoulos A., A. Xenidis, **K. Komnitsas**, N. Papassiopi. Environmental characterisation of wastes in Lavrion, *Proceedings of Fourth International Symposium on Environmental Issues and Waste Management in Energy and Minerals Production*, R. Ciccu, ed., Cagliari, Italy, Oct. 7-11, 1996, 209-216.
11. Xenidis A., **K. Komnitsas**, N. Papassiopi, A. Kontopoulos. Environmental implications of the mining activities in Lavrion, *Engineering Geology and the Environment Conference Proceedings*, (eds. P.G. Marinou, G.C. Koukias, G.C. Tsiambaos, G.C. Stournaras), Athens, 23-27 June 1997, 2575-2580.
12. Kontopoulos A., **K. Komnitsas**, A. Xenidis. Pollution, risk assessment and rehabilitation at the Lavrion Technological and Cultural Park, Greece, *SWEMP '98 Conference Proceedings on Environmental Issues and Waste Management in Energy and Mineral Production*, (eds. A. G. Pasamehmetoglu, A. Ozgenoglu), Ankara, 18-20 May 1998, 105-110.
13. Groudev S., A. Kontopoulos, I. Spasova, **K. Komnitsas**, A. Angelov, P. Georgiev. Bioremediation in situ of groundwater in a mining area, *Geocongress '98 Conference Proceedings*, Pretoria, S. Africa, 8-10 July 1998, 269-271.
14. Petrisor I.G., **K. Komnitsas**, I. Lazar. Application of a vegetative cover for remediation of sulphidic tailing dumps on a Romanian Black Sea Coastal area, *4th International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe Conference Proceedings (on CD-ROM)*, 15-17 Sep. 98, Warsaw, Poland.
15. Peppas A., **K. Komnitsas**, A. Kontopoulos. Development of remedial actions for rehabilitating Black Sea coastal areas affected by mining activities, *4th International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe Conference Proceedings*, 15-17 Sep. 98, Warsaw, Poland.
16. Groudev S., A. Kontopoulos, I. Spasova, **K. Komnitsas**, A. Angelov, P. Georgiev. In situ treatment of groundwater at Burgas Copper Mines, Bulgaria, by enhancing microbial sulphate reduction. *Proceedings of International Conference on Groundwaters Quality: Remediation and Protection*, IAHS Publications, No 250, ISBN: 1-901502-55-4, Tuebingen, Germany, 21-25 Sep. 1998, 249-255.
17. Groudev S.N., P. Georgiev, I. Spasova, A. Angelov, **K. Komnitsas**. Treatment of Acid Mine Drainage by a Pilot Scale Passive System, International Symposium "Ecology of Post Mining Landscapes", *Ecopol 99 Proceedings*, Cottbus, Germany, March 15-19, 1999.
18. Cambridge M., C. Hallett, **K. Komnitsas**. Selection of remedial actions in tailings disposal sites based on risk assessment studies: Two case studies, *Proc. International Biohydrometallurgy Symposium, IBS 1999*, (eds. R. Amils, A. Ballester), 20-23 June 1999, Madrid, 655-664.
19. **Komnitsas K.**, I. Paspaliaris, I. G. Petrisor, I. Lazar. Remediation of phosphogypsum stacks. Field pilot scale application, *Proc. International Biohydrometallurgy Symposium, IBS 1999*, (eds. R. Amils, A. Ballester), 20-23 June 1999, Madrid, 645-654.
20. Kolitsa D., **K. Komnitsas**, I. Chalikia. Use of water covers for the prevention of acid mine drainage generation, *6th Conference of Environmental Science and Technology*, Samos, Aug. 30-Sep. 2, 1999.
21. Groudev S.N., P.S. Georgiev, **K. Komnitsas**, I.I. Spasova, A. Angelov. Treatment of drainage waters from a flotation pond by a natural wetland. *Proc. Global Symposium on Recycling, Waste Treatment and Clean Technology, REWAS 99*, (eds. I. Gaballah, J. Hager, R. Solozabal), San Sebastian, Spain, 5-9 Sep. 1999, 2133-2140.
22. Groudev S.N., P.S. Georgiev, I.I. Spasova, A. Angelov, **K. Komnitsas**. A pilot scale passive system for the treatment of acid mine drainage, *Proc. of the NATO Advanced Research Workshop on Sustainable Solid Waste Management in the Southern Black Sea Region*, Sep. 27-Oct 1, 1999, Sofia, (B. Nath, Y. Pelovski and S. Stoyanov eds), 2000 Kluwer Academic Publishers, ISBN 0-7923-6680-8, Netherlands, 189-194.
23. Groudev S., T. Mitrov, **K. Komnitsas**, I. Spasova, P. Georgiev, A. Angelov. Leaching of Pollutants from Flotation Tailings in the Vromos Bay area", *Proc. of the NATO Advanced Research Workshop on Sustainable Solid Waste Management in the Southern Black Sea Region*, Sep. 27-Oct 1, 1999, Sofia, (B. Nath, Y. Pelovski and S. Stoyanov eds), 2000 Kluwer Academic Publishers, ISBN 0-7923-6680-8, Netherlands.
24. Groudev S., P. Georgiev, **K. Komnitsas**, I. Spasova, A. Angelov. Treatment of Waters Contaminated with Radioactive Elements and Toxic Heavy Metals by a Natural Wetland, *Proc. International Conference on Wetlands and Remediation*, (J.L. Means, R.E. Hinchee eds.), Salt Lake City, Utah, Nov. 16-17, 1999, 391-397.
25. Groudev S.N., **K. Komnitsas**, I.I. Spasova, P.S. Georgiev. Bioremediation in situ of soils contaminated with radioactive elements, *5th International Symposium In Situ and On Site Bioremediation*, April 19-22, 2000, San Diego, California, v. 5, No4, 103-108.
26. Groudev S.N., P.S. Georgiev, I.I. Spasova, A. Angelov, **K. Komnitsas**. Treatment of acid drainage from a uranium mine by means of a passive system, *Proc. of the 6th International Conference on Environmental Issues and Management of Wastes in Energy and Mineral Production*, SWEMP 2000, Calgary, Alberta, Canada, May 30-June 2, 2000, (R.K. Singhal, A.K. Mehrotra eds.), A.A. Balkema 2000, Rotterdam, 565-568.
27. Petrisor I.G., **K. Komnitsas**, S. Dobrota, M. Serban. Artificial inoculation: An Effective way to improve plant growth on tailing dumps, *Proceedings of the 5th International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe (on CD-ROM)*, 12-14 Sep. 2000, Prague.

28. **Komnitsas K.**, Critical factors concerning rehabilitation of abandoned phosphogypsum stacks, MPES 2000, *Proceedings of International Symposium on Mine Planning and Equipment Selection*, (Panagiotou and Michalakopoulos eds.), November 6-9, 2000, Athens, 913-918.
29. Peppas A., **K. Komnitsas**, I. Halikia. Study of the effectiveness of organic covers for the prevention of acid mine drainage generation, *Proceedings of the 3rd Conference on Mining Wealth*, 23-24 Nov. 2000, Athens, v.1, 217-226 (in Greek).
30. Groudev S., Mitrov T., Nicolova M., Spasova I, **K. Komnitsas**, I. Paspaliaris. Generation of acid drainage in a uranium ore deposit, *Proceedings of International Conference Management of Natural and Technogenic Risks*, June 4-8 2001, Sofia, Bulgaria.
31. Petrisor, I.G., **Komnitsas K.**, Lazar, I., Voicu, A., Dobrota, S., Stefanescu, M., Kuperberg, M. Vegetative Cover for Phosphogypsum Dumps: A Romanian Field Study. *Proceedings of 2001 International Containment & Remediation Technology Conference and Exhibition*, Orlando, June 10-13, 2001.
32. **Komnitsas K.**, C. Stouraiti, I. Paspaliaris. Sulfur removal from coal beneficiation wastes, *Proceedings of the 7th Conference on Environmental Science and Technology*, Hermoupolis, Syros, Sep. 3-6, 2001, 452-459.
33. Agioutantis Z., **K. Komnitsas**. Life cycle of a tailings facility, "New frontiers in reclamation: Facts and procedures in extractive industry" Conference Proceedings (ed. Z. Agioutantis), 19-21 Sep. 2001, Milos, Greece, 207-213.
34. **Komnitsas K.**, Z. Agioutantis. Risk calculation as a key tool for the rehabilitation of mixed sulphide disposal sites, "New frontiers in reclamation: Facts and procedures in extractive industry" Conference Proceedings (ed. Z. Agioutantis), 19-21 Sep. 2001, Milos, Greece, 99-103.
35. Groudev S.N., I.I. Spasova, **K. Komnitsas**, I. Paspaliaris. Microbial heap leaching of copper and gold from a sulphide ore, *International Biohydrometallurgy Symposium IBS-2001*, (eds. V.S.T. Ciminelli, O. Garcia Jr.), Ouro Preto, Minas Gerais, Brazil, Sep. 16-19, 2001, Process Metallurgy Series, Elsevier, ISBN: 0444506233 (A&B), 581-586.
36. Zilberchmidt, M., M. Shpirt, **K. Komnitsas**, I. Paspaliaris. Environmental and economic potential of thermal treatment of high-sulfur coal wastes, *SWEMP 02 Conference Proceedings* (ed. R. Ciccu), October 2002, Cagliari, 507-514.
37. **Komnitsas K.**, Z. Agioutantis. Environmental assessment and sustainable development framework in the mining industry, *Sustainable Development Indicators in the Mineral Industries (SDIMI)*, Conference Proceedings (ed. Z. Agioutantis), 2003, Milos, 53-58.
38. Groudev S. N., **K. Komnitsas**, I. I. Spasova, P.S. Georgiev, I. Paspaliaris. Feasible rehabilitation schemes at an abandoned uranium mine site, *Sustainable Development Indicators in the Mineral Industries (SDIMI)*, Conference Proceedings (ed. Z. Agioutantis), 2003, Milos, 323-328.
39. Groudev, S.N., **K. Komnitsas**, I.I. Spasova & I. Paspaliaris, Clean-up of Mine Waters from a Uranium Deposit by Means of a Constructed Wetland, *IBS 2003 proceedings* (M. Tsezos, ed.), 14-19 Sep. 2003, Athens, Greece, 57-64.
40. Groudev S., I. Spasova, **K. Komnitsas**, I. Paspaliaris, P. Georgiev, M. Nicolova. Factors and mechanisms affecting seasonal bioremediation of contaminated leachates in a natural wetland, *AMIREG 2004 Conference proceedings* (eds. Z. Agioutantis, K. Komnitsas), 7-9 June 2004, Chania, Crete, 525-529.
41. Triantafyllou, G., **K. Komnitsas**. Sustainability of the cement industry, *AMIREG 2004 Conference proceedings* (eds. Z. Agioutantis, K. Komnitsas), 7-9 June 2004, Chania, Crete, 299-304.
42. **Komnitsas K.**, G. Bartzas, I. Paspaliaris. Evaluation of low cost materials for the decontamination of acidic leachates using permeable reactive barriers, *Proceedings of the International Conference on Sustainable Post Mining Land Management*, (eds. C. Heberstreit, J. Kudelko, J. Kulczycka), 4-6 Nov. 2004, Krakow, Poland, 161-170.
43. **Komnitsas K.** (2005). Clean up of leachates and groundwater using permeable reactive barriers, *Proceedings of the 5th National Conference for the Management of Water Resources*, 6-9 April, Xanthi, Greece, 87-94 (in Greek).
44. Agioutantis, Z., **K. Komnitsas**, K. Mpounou (2005). Risk quantification in the mineral sector, 2nd Conference on "Sustainable Development Indicators in the Minerals Industry" Proceedings, SDIMI 2005, 18-20 May 2005, 701-713.
45. **Komnitsas K.**, G. Bartzas, I. Paspaliaris (2005). Hydraulic performance of laboratory PRBs for the decontamination of acidic mine waters, *Proceedings of the IMWA '05 – 9th International Mine Water Association Congress*, Sep. 5-7, Oviedo, Spain, 347-354.
46. Zaharaki, D., **K. Komnitsas** (2005). Use of factorial design in environmental, geotechnical and waste management experimentation – a case study, *Proceedings of the International Workshop "Geoenvironment and Geotechnics"* (eds. Z. Agioutantis, K. Komnitsas), Sep. 12-14, 2005, Milos island, Greece, 261-268.
47. **Komnitsas K.**, G. Bartzas, I. Paspaliaris (2006). Efficiency of PRBs for the treatment of groundwater contaminated by heavy metals, *NATO ARW (Advanced Research Workshop)*, 8-9 June 2006, Athens, Greece.

48. Triantafyllidis, S., N. Skarpelis, **K. Komnitsas** (2006). Environmental impact assessment of the Kirki (Thrace, NE Greece) flotation tailings disposal site, *AMIREG 2006 Conference Proceedings*, (eds. Z. Agioutantis, K. Komnitsas), 25-27 Sep., Chania, Crete.
49. Zaharaki, D., **K. Komnitsas**, V. Perdikatsis (2006). Factors affecting synthesis of ferronickel slag based geopolymers, *AMIREG 2004 Conference proceedings* (eds. Z. Agioutantis, K. Komnitsas), 25-27 Sep., Chania, Crete.
50. Fafoutis, I., **K. Komnitsas** (2006). Manganese and copper removal from leachates using slag and red mud barriers, *AMIREG 2006 Conference proceedings* (eds. Z. Agioutantis, K. Komnitsas), 25-27 Sep., Chania, Crete, 735-740
51. Modis, K., **K. Komnitsas** (2007). Optimum sampling density for the prediction of acid mine drainage in an underground sulphide mine, *Proceedings of International Mine Water Association (IMWA) Symposium 2007*, (F. Frau and R. Cidu eds.), 27-31 May 2007, Cagliari, Italy, 99-103.
52. Valta, K., **K. Komnitsas**, M. Grossou-Valta (2007). Sustainable Development Indicators for the Greek Industrial Minerals' Sector, *Proceedings 3rd International Conference on Sustainable Development Indicators in the Minerals Industry*, (ed. Z. Agioutantis), June 17-20, Milos Island, Greece, 189-196.
53. Zhu X., D. Li, **K. Komnitsas** (2007). Development of an indicator based revegetation SDSS in areas affected by mining activities, *Proceedings 3rd International Conference on Sustainable Development Indicators in the Minerals Industry*, (ed. Z. Agioutantis), June 17-20, Milos Island, Greece, 267-274.
54. Konialis, K., **K. Komnitsas**, Z. Agioutantis (2007). Rethinking capacity building, *Proceedings 3rd International Conference on Sustainable Development Indicators in the Minerals Industry*, (ed. Z. Agioutantis), June 17-20, Milos Island, Greece, 389-396.
55. **Komnitsas, K.**, K. Valta, M. Grossou-Valta (2007). Sustainable development in the Greek Mining and Minerals Industry, In *Proc. of SECOTOX Conference and the International Conference on Environmental Management, Engineering, Planning and Economics*, (eds. A. Kungolos, K. Aravossis, A. Karagiannidis and P. Samaras), Skiathos, June 24-28, 2767-2772.
56. Zaharaki, D., **K. Komnitsas**, V. Perdikatsis (2007). Factors affecting the production of waste-based geopolymers, *VI International Congress on Valorisation and Recycling of Industrial Wastes (VARIREI)*, L'Aquila, Italy, 27-29 June 2007, in CD-ROM.
57. **Komnitsas, K.**, K. Manousaki, D. Zaharaki (2007). Assessment of reactivity of sulphidic tailings and river sludges, *Proceedings of the 23rd International Applied Geochemistry Symposium (IAGS 2007)*, Oviedo, Spain, June 14-19.
58. **Komnitsas, K.**, Bartzas, G., Zaharaki D. and Fytas, K. (2007). Treatment of highly acidic mine discharges in multi-component permeable reactive barriers: Column and modelling studies. In: *Proceedings of 3rd International symposium on PRBs and RZs*, (ed. M. Petraglini-Papini), November 8-9, Rimini, Italy, 63-67.
59. Zaharaki, D., **K. Komnitsas** (2008). Effect of additives on the compressive strength of slag-based inorganic polymers, *Proceedings (on CD ROM) of 2nd International Conference on Engineering for Waste Valorisation*, Patras, Greece, 3-5 June 2008.
60. Zaharaki, D., **K. Komnitsas**, G. Bartzas (2008). Geotechnical stability of slag-based inorganic polymers in several environments, *Proceedings of GeoEnv08 (International Workshop on Geoenvironment and Geotechnics*, Milos, 8-9 Sep. 2008, 187-192.
61. Basdanis, G., **K. Komnitsas**, Zaharaki, D. (2008). Stabilisation of sulphidic talings using red mud, *Proceedings 1st International Conference on "Hazardous Waste Management"*, Chania, Oct. 1-3, 2008.
62. Zaharaki, D., **K. Komnitsas** (2008). Durability of slag-based inorganic polymers, *Proceedings of the 1st International Conference on Indicators for Land Rehabilitation and Sustainable Development (ILR-SUD) 2008*, Beijing, China, Oct. 20-21, 2008.
63. Zaharaki, D., **K. Komnitsas** (2008). Durability of slag-based inorganic polymers, *Proceedings of the 1st International Conference on Indicators for Land Rehabilitation and Sustainable Development (ILR-SUD) 2008* (eds. D. Li, K. Komnitsas), Beijing, China, Oct. 20-21, 2008.
64. Agioutantis, Z., **K. Komnitsas**, D. Vavadakis, J. Klerkx (2008). Groundwater flow modeling in the vicinity of a metallurgical processing plant in the D.R. Congo, *Proceedings of the 1st International Conference on Indicators for Land Rehabilitation and Sustainable Development (ILR-SUD) 2008* (eds. D. Li, K. Komnitsas), Beijing, China, Oct. 20-21, 2008.
65. Agioutantis, Z., **K. Komnitsas**, D. Vavadakis, J. Klerkx (2008). Contaminant transport modeling in the vicinity of a metallurgical processing plant in the D.R. Congo, *Proceedings of the International Symposium on RESEARCH AND MANAGEMENT OF SUBSOIL RESOURCES (INGESUB'2008)*, (eds. J.A López-Geta, J. Pérez-Loredo, L. Ruiz-Fernández, J.M. Liera-Pernia), 10-11 Nov. 2008, Oviedo, Spain, 171-182.
66. Zaharaki, D., **K. Komnitsas** (2009). Role of alkali metals on the synthesis of low Ca ferronickel slag-based inorganic polymers, *3rd Amireg International Conference Proceedings: Assessing the Footprint of Resource Utilization and Hazardous Waste Management* (eds. Z. Agioutantis, K. Komnitsas), 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/?amireg2009>, in CDR

67. Zaharaki, D., **K. Komnitsas** (2009). Existing and emerging technologies for the treatment of olive oil mill wastewaters, 3rd Amireg International Conference Proceedings: Assessing the Footprint of Resource Utilization and Hazardous Waste Management (eds. Z. Agioutantis, K. Komnitsas), 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/?amireg2009>, in cd-rom
68. Bazdanis, G., D. Zaharaki and K. Komnitsas (2009). Study of mechanisms of manganese removal from leachates, 3rd Amireg International Conference Proceedings: Assessing the Footprint of Resource Utilization and Hazardous Waste Management (eds. Z. Agioutantis, K. Komnitsas), 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/?amireg2009>, in cd-rom.
69. Guo, X., Li, D., **Komnitsas, K.** (2009). Change of vegetation coverage at the abandoned haizhou coal mining and waste disposal site, in China, using Markov chain models, 3rd Amireg International Conference Proceedings: Assessing the Footprint of Resource Utilization and Hazardous Waste Management (eds. Z. Agioutantis, K. Komnitsas), 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/?amireg2009>, in cd-rom
70. Katsimicha, D., Pentari, D., Perdikatsis, V., **Komnitsas, K.** (2009). Determination of Hg in selected Greek soils and sea sediments, 3rd Amireg International Conference Proceedings: Assessing the Footprint of Resource Utilization and Hazardous Waste Management (eds. Z. Agioutantis, K. Komnitsas), 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/?amireg2009>, in cd-rom
71. Zaharaki, D., **Komnitsas, K.**, Perdikatsis, V. (2009). Identification of inorganic polymer gel composition, the 6th International Conference on Instrumental Methods of Analysis – Modern Trends and Applications, 4-8 Oct. 2009, Athens, Greece, http://www.chem.uoa.gr/ima2009/ima_01_homepage1.htm
72. Bartzas, G., **Komnitsas, K.** (2009). Solid phase studies and geochemical modelling of low-cost permeable reactive barriers, , the 6th International Conference on Instrumental Methods of Analysis – Modern Trends and Applications, 4-8 Oct. 2009, Athens, Greece, http://www.chem.uoa.gr/ima2009/ima_01_homepage1.htm
73. Zaharaki, D., **Komnitsas, K.** (2009). Durability of slag-kaolinite inorganic polymers in various environments, 5th Panellenic Ceramics Conference, NTUA, Athens, 22-23 Oct. 2009 (in Greek)
74. Kavvadias, V., Sarris, A., Doula, M., Zaharaki, D., Arapoglou, D., **Komnitsas, K.** (2010). Soil quality monitoring in olive oil mill waste disposal sites, 2nd International Conference "Hazardous and Industrial Waste Management", Chania, Crete, October 5th - 8th, 2010.
75. Zaharaki, D., **Komnitsas, K.** (2010). Long term behaviour of ferronickel slag inorganic polymers in various environments, 2nd International Symposium on Green Chemistry for Environment and Health, Mykonos, Sep. 27-29, 2010, <http://www.greenchem2.prd.uth.gr/>
76. Bazdanis, G., Zaharaki, D., **Komnitsas, K.** (2010). Efficiency of organic/inorganic fixed beds to clean up leachates, 2nd International Symposium on Green Chemistry for Environment and Health, Mykonos, Sep. 27-29, 2010, <http://www.greenchem2.prd.uth.gr/>
77. Bazdanis, G., **Komnitsas, K.**, Sahinkaya, E., Zaharaki, D. (2011). Removal of heavy metals from leachates using permeable reactive barriers filled with reactive organic/inorganic mixtures, 3rd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference, Skiathos, June 19-24, 2011, <http://www.cemepe3.prd.uth.gr/>
78. **Komnitsas, K.**, Bazdanis, G., Bartzas, G., Zaharaki, D., Sahinkaya, E. (2012). Prevention of groundwater contamination in waste disposal sites using composite reactive barriers, *Protection and Restoration of the Environment XI*, 3-6 July 2012, Thessaloniki, <http://www.pre11.org/>
79. **Komnitsas, K.**, Zaharaki, D., Hernández, M.T., Moreno Ortego, J.L., Izquierdo, C.G., Tinivella, F., Minuto, G., Medini, L., Micharikopoulos, D. and Tavlaki, E. (2012). Best practices for Agricultural Wastes (AW) treatment and reuse in the Mediterranean countries (WasteReuse), *ATHENS 2012 International Conference on Sustainable Solid Waste Management*, 28-29 June 2012, <http://uest.ntua.gr/athens2012/>
80. **Komnitsas, K.**, Zaharaki, D. (2012). Low cost pre-treatment of olive mill wastewaters: Effect on spinach and beetroot growth, in Proceedings of International Symposium "Olive oil mill wastes and environmental protection", 16-18 Oct. 2012, Chania, Crete, p. 82-91, <http://www.prosodol.gr/Crete2012/?q=node/5> (in Greek).
81. **Komnitsas, K.**, Zaharaki, D. (2012). Life+ Prosodol project: After Life communication plan, in Proceedings of International Symposium "Olive oil mill wastes and environmental protection", 16-18 Oct. 2012, Chania, Crete, p. 180-188, <http://www.prosodol.gr/Crete2012/?q=node/5>
82. Kavvadias, V., Doula, M., Thecharopoulos, S., **Komnitsas, K.**, Zaharaki, D. (2012). Lettuce cultivation at an olive mill waste disposal area, in Proceedings of International Symposium "Olive oil mill wastes and environmental protection", 16-18 Oct. 2012, Chania, Crete, p. 92-100, <http://www.prosodol.gr/Crete2012/?q=node/5>
83. **Komnitsas, K.**, Zaharaki, D. (2012). Establishment of weighted indicators for the evaluation of agricultural waste treatment technologies, 4th international conference on *Management of solid wastes in crisis: new challenges and prospects*, Nov. 30- Dec. 1, 2012, Athens, <http://conference2012.eedsa.gr/default.aspx?lang=gr>
84. **Komnitsas, K.**, Zaharaki, D., Vamvuka, D. (2013). Factors affecting quality of compost produced from agricultural waste: assessment of risk, *Istanbul International Solid Waste, Water and Wastewater Congress* 2013, 22-24 May 2013, <http://www.istanbul3wcongress.org/>

85. Altun, M., Sahinkaya, E., Durukan, I., Bektas, S., **Komnitsas, K.** (2013). Arsenic Removal in a Sulfidogenic Fixed-Bed Column Bioreactor, 3rd International Conference on "Research Frontiers in Chalcogen Cycle Science and Technology", May 27-28, Delft, The Netherlands, www.unesco-ihe.org/G16
86. Tzeferis, P., Kavalopoulos, **Komnitsas, K.**, (2013). Production data and Sustainable Development Indicators (SDIs) for the Greek Mining/Metallurgical Industry in the period 2007-2011, *Proceedings 6th International Conference "Sustainable Deveoplent in the Minerals Industry (SDIMI)"*, 30 June - 3 July 2013, Milos, Greece, pp. 269-276, <http://sdimi2013.conferences.gr/sdimi2013-home.html>
87. Blengini, G.A., Moltre, A., Valbusa, M., **Komnitsas, K.**, Agioutantis, Z., Garbarino, E., (2013). Data and methodologies for a resource-efficient planning of primary and secondary aggregates in South East Europe (SEE) countries, *Proceedings 6th International Conference "Sustainable Deveoplent in the Minerals Industry (SDIMI)"*, 30 June - 3 July 2013, Milos, Greece, <http://sdimi2013.conferences.gr/sdimi2013-home.html>
88. **Komnitsas, K.**, Agioutantis, Z., Shields, D., Blengini, G.A., Tzeferis, P.G. (2013). Stakeholder identification in the planning phase of aggregate and quarrying projects, *Proceedings 6th International Conference "Sustainable Deveoplent in the Minerals Industry (SDIMI)"*, 30 June - 3 July 2013, Milos, Greece, pp. 294-301, <http://sdimi2013.conferences.gr/sdimi2013-home.html>
89. Agioutantis, Z., **Komnitsas, K.**, Athousaki, A. (2013). Aggregate Transport and Utilization in Urban Areas: Ecological Footprint and Environmental Impacts, *13th International Congress of the Geological Society of Greece*, 5-8/9/2013, Chania, Crete, <http://www.ege13.gr/>
90. Katsimicha, D., Pentari, D., **Komnitsas, K.** (2013). Effect of grinding on the sorption potential of a Greek natural zeolite for the removal of heavy metals from solutions, *13th International Congress of the Geological Society of Greece*, 5-8/9/2013, Chania, Crete, <http://www.ege13.gr/>
91. Zaharaki, D., Katsimicha, D., **Komnitsas, K.** (2013). Effect of the addition of biopolymers on the strength of ferronickel slag geopolymers, *Proceedings of the 5th Panhellenic Conference on Metallic Materials* (Eds G.N. Chaidemenopoulos, A.D. Zervaki, E. Kamoutsi), University of Thessaly, Volos, Greece (20-22 November), 373-378 (in Greek)., Volos, 21-22 Nov. 2013
92. **Komnitsas, K.**, Bazdanis, G. 2014. Chromium(VI) removal from acidic wastewaters in composite reactive beds, *IWA Regionanl Symposium on Water, Wastewater and Environment, Traditions, and Culture*, 22-24 March 2014, Patras, Greece, <http://wwetc2014.env.uwg.gr/wms/>
93. Zaharaki, D. Vlachou, A., **Komnitsas, K.** 2014. Geopolymerization potential of construction and demolition wastes, *5th Environmental Conference of Macedonia*, 14-16 March 2014, Thessaloniki (in Greek, english abstract), <http://persynmak.blogspot.gr/2013/09/5.html>
94. Zaharaki, D., Pylotis, I., **Komnitsas, K.** 2014. Environmental characterisation and assessment of heavy metal contamination of marine sediments from Souda port, Crete, Greece, *5th Environmental Conference of Macedonia*, 14-16 March 2014, Thessaloniki, Proceedings in CD-ROM (in Greek, english abstract), <http://persynmak.blogspot.gr/2013/09/5.html>
95. **Komnitsas, K.**, Zaharaki, D., Pylotis, I., Vamvuka, D., Bartzas, G. 2014. Assessment of pistachio shell biochar quality and its potential for adsorption of heavy metals, Athens 2014, 2nd International Conference "Sustainable Solid Waste Management", 12-14 June 2014, <http://athens2014.biowaste.gr/>
96. Zaharaki, D., **Komnitsas, K.**, Vlachou, A., Galetakis, M. 2014. Geopolymerization potential of construction and demolition wastes (CDW), Crete 2014, 4th International Conference, Industrial and Hazardous Waste Management, Sep. 2-5, 2014, Chania, Greece, <http://hwm-conferences.tuc.gr/>
97. Galetakis, M., **Komnitsas, K.**, Leventakis, K., Vasiliou, A., Peperidi, C., Zaharaki, D., Stavroulakis, N., Ginos, M. 2014. Assessment of construction and demolition wastes as raw materials for the building industry, Crete 2014, 4th International Conference, Industrial and Hazardous Waste Management, Sep. 2-5, 2014, Chania, Greece, <http://hwm-conferences.tuc.gr/>
98. **Komnitsas, K.**, Pylotis, I., Zaharaki, D., Manoutsoglou, E. 2014. Assessment of heavy metal contamination in Souda marine sediments, Crete 2014, 4th International Conference, Industrial and Hazardous Waste Management, Sep. 2-5, 2014, Chania, Greece, <http://hwm-conferences.tuc.gr/>
99. Zaharaki, D., Kaliakatsou, G., Kritikaki, A., Bartzas, G., **Komnitsas, K.** 2014. Quality of biochar produced from pyrolysis of pecan shells and sawdust, 4th International Symposium on Green Chemistry, Environment, Health and Development, September 24-26, 2014, Kos Island, Greece, <http://www.greenchem4.prd.uth.gr/>
100. **Komnitsas, K.**, Bartzas, G. 2014. Life cycle assessment of process options for FeNi production in Greece, Minerals in Circular Economy (MINCE) Conference, Espoo, Finland, 26-27 November 2014, <http://www.mince.fi/index.html>
101. Pantazopoulou, E., Zebiliadou, O., Bartzas, G. Xenidis, A. Zouboulis, A., Komnitsas, K. 2015. Industrial solid waste management in Greece: The current situation and prospects for valorization, International Conference on Solid Waste Technology and Management, 15-18 March 2015, Philadelphia, USA, <http://solid-waste.org/2015-conference-2/>
102. Zaharaki D., A. Vlachou and **K. Komnitsas** (2015). Co-utilization of slags with construction wastes or red mud for geopolymer production, *Proceedings of the Fourth International Slag Valorisation Symposium - Zero Waste* (Eds Annelies Malfliet and Yiannis Pontikes), Leuven, Belgium (15-17 April), pp. 297-300, <http://slag-valorisation-symposium.eu/>

103. **Komnitsas, K.**, D. Zaharaki, M.T. Hernández-Fernández, 2015. Assessment of groundwater vulnerability to pollution in Barrax, Albacete, Spain, III International Symposium on Organic Matter Management and Compost Use in Agriculture, 20-24 April 2015, Murcia, Spain, <http://www.verticesur.es/congresos/CFH2015/>
104. Zaharaki, D., F. Tinivella, L. Medini, M.T. Hernández, C. Garcia, J.L. Moreno, D. Vamvuka, **K. Komnitsas**, 2015. Effect of biochar and zeolite addition on the toxicity of anaerobically digested sewage sludge, III International Symposium on Organic Matter Management and Compost Use in Agriculture, 20-24 April 2015, Murcia, Spain, <http://www.verticesur.es/congresos/CFH2015/>
105. Bartzas, C., **Komnitsas, K.** 2015. Life cycle assessment of FeNi production in Greece: A case study, Processing of Nickel Ores and Concentrates '15, Falmouth, Cornwall, UK, May 13-14, 2015, <http://www.min-eng.com/nickelprocessing15/index.html>
106. **Komnitsas, K.**, Zaharaki, D. 2015. Co-utilization of construction and demolition with industrial wastes for the production of geopolymers, International Conference "Industrial Waste & Wastewater Treatment & Valorisation", 21-23 May 2015, Athens, Greece, <http://www.iwwatv.uest.gr/index.php/conference/register>
107. Tinivella F., A. Minuto, D. Zaharaki, L. Medini, M.T. Hernández, C. Garcia, J.L. Moreno Ortego, **K. Komnitsas**, Effetto dell'aggiunta di biochar di segatura e zeolite sulla qualità di compost derivante da rifiuti agricoli (English title: Effect of sawdust biochar and zeolite addition on the quality of compost deriving from agricultural wastes), SOI 2015 Technical Conference: Growing substrates for horticultural and nursery crop production, Pescia, Italy, 27-28 May 2015
108. Kritikaki, A., Zaharaki, D., **Komnitsas, K.** 2015. Valorization of industrial wastes for the production of glass ceramics, 3rd International Conference on Sustainable Solid Waste Management, 2-4 July 2015, Tinos, <http://www.tinos2015.uest.gr/>
109. Zaharaki, D., **Komnitsas, K.**, Bartzas, G. 2015. Use of analytical techniques for the identification of the morphology of geopolymers, 3rd International Conference on Sustainable Solid Waste Management, 2-4 July 2015, Tinos, <http://www.tinos2015.uest.gr/>
110. Pantazopoulou, E., **Komnitsas, K.**, Xenidis, A., Zouboulis, A. 2015. Leaching and EU landfill legislation in Greece, 3rd International Conference on Sustainable Solid Waste Management, 2-4 July 2015, Tinos, <http://www.tinos2015.uest.gr/>
111. Kamenopoulos, S.N., Agioutantis, Z., Partsinevelos, P., **Komnitsas, K.** (2015). A New Tool for the Geopolitical Assessment of REE projects, SDIMI 2015 conference, 12-15 July 2015, Vancouver, Canada, <http://sdimi2015.com/>
112. **Komnitsas K.**, D. Zaharaki and K. Leonidaki (2015). Co-utilization of marine sediments and construction/demolition wastes for the synthesis of geopolymers, Proceedings of the 14th International Conference on Environmental Science and Technology (<http://cest.qnest.org/>), Rhodes island, Greece (3-5 September)
113. Bartzas, G., Zaharaki, D., **Komnitsas, K.** 2016. Evaluation of groundwater vulnerability in Aegina island, Greece, using GIS-based methods, 4th International Conference on Sustainable Solid Waste Management, Limassol, 23-25 June 2016, <http://www.cyprus2016.uest.gr/>
114. Bartzas, G., Zaharaki D., **Komnitsas, K.** 2016. Life cycle analysis of pistachio production in Greece, CYPRUS 2016, 4th International Conference on Sustainable Solid Waste Management, Limassol, 23-25 June 2016, <http://www.cyprus2016.uest.gr/>
115. **Komnitsas, K.**, Bartzas, G., Zaharaki, D., Vamvuka, D. 2016. Comparative life cycle assessment of three water-intensive tree cropping systems, 13th International Conference on Protection and Restoration of the Environment, Mykonos island, Greece, 3-8 July 2016, Mykonos, Greece, <http://pre13.civil.auth.gr/>
116. Doula, M.K., **Komnitsas, K.**, Zorpas, A.A., Kavvadias, V., Zaharaki, D. 2016. Movement of Cu, Mn, Fe and Zn at high soil depths due to the disposal of Olive Mill Waste, 13th International Conference on Protection and Restoration of the Environment, Mykonos island, Greece, 3-8 July 2016, Mykonos, Greece, <http://pre13.civil.auth.gr/>
117. Doula, M.K., **Komnitsas, K.**, Zorpas, A.A., Kavvadias, V., Zaharaki, D. 2016. Soil Degradation at high depths at olive mill waste disposal areas: The case of soil organic matter and polyphenols, 5th International Conference on Industrial and Hazardous Waste Management, Crete 2016, 27-30 Sep. 2016, <http://www.hwm-conferences.tuc.gr/>
118. Kritikaki, A., **Komnitsas, K.** 2016. Characterization of porous ceramics produced from marine sediments, hospital waste incineration ash and coal fly ash, 5th International Conference on Industrial and Hazardous Waste Management, Crete 2016, 27-30 Sep. 2016, <http://www.hwm-conferences.tuc.gr/>
119. Zaharaki, D., **Komnitsas, K.** 2016. Spectroscopic studies of alkali activated materials produced from wastes, 5th International Conference on Industrial and Hazardous Waste Management, Crete 2016, 27-30 Sep. 2016, <http://www.hwm-conferences.tuc.gr/>
120. Galetakis, M., Piperidi, C., Soutana, A., **Komnitsas, K.**, Zaharaki, D. 2016. Mechanical and durability properties of building elements produced from quarry by-products and recycled aggregates, 5th International Conference on Industrial and Hazardous Waste Management, Crete 2016, 27-30 Sep. 2016, <http://www.hwm-conferences.tuc.gr/>

121. Vamvuka, D., Trikouvertis, M., Pentari, D., **Komnitsas, K.** 2016. Vineyard wastes as a promising fuel for large scale combustion units, 5th International Conference on Industrial and Hazardous Waste Management, Crete 2016, 27-30 Sep. 2016, <http://www.hwm-conferences.tuc.gr/>
122. Bartzas, G., **Komnitsas, K.** 2017. Assessment of groundwater vulnerability in Aegina island due to Pistacia vera L. cultivation. Proceedings of the 6th Environmental Conference of Macedonia, Book of Abstracts and CD of papers, 5-7 May 2017 Thessaloniki, p. 60, <http://persynmak.blogspot.gr/>
123. Valiotis, A., **Komnitsas, K.** 2017. Framework for optimised management and energy recovery for animal by-products, Proceedings of the 6th Environmental Conference of Macedonia, Book of Abstracts and CD of papers, 5-7 May 2017 Thessaloniki, p. 77, <http://persynmak.blogspot.gr/>
124. Kyriannakis, E., **Komnitsas, K.** 2017. The contribution of infrared and microwaves electromagnetic radiation in sludge and wastewater management, Proceedings of the 6th Environmental Conference of Macedonia, Book of Abstracts and CD of papers, 5-7 May 2017 Thessaloniki, p. 168, <http://persynmak.blogspot.gr/>
125. Kaklidis, N., Zaharaki, D., **Komnitsas, K.**, Marnellos, G., Konsolakis, M. Energetic valorization of agricultural residues as feedstock in a direct carbon solid oxide fuel cell, 11th Greek Conference of Chemical Engineering, 25-27 May 2017, Thessaloniki (in Greek), <http://www.11pesxm.gr/>
126. Kamenopoulos, S., **Komnitsas, K.**, Agioutantis, Z. 2017. A historical comparison and two global market mechanisms to overcome REE market manipulation ERES 2017 – The 2nd conference on European Rare Earth Resources, 28-31 May 2017, Santorini, Greece
127. Kamenopoulos, S., Agioutantis, Z., **Komnitsas, K.**, 2017. Sustainable evaluation of mining projects: a Decision Support System based in Multi-criteria Decision Analysis, 2nd International Conference Mining in Europe, 07 - 08 June 2017, Aachen, Germany, <http://www.aims.rwth-aachen.de/>
128. Petrakis, E., **Komnitsas, K.** 2017. Improved modeling of the grinding process through the combined use of matrix and population balance models, 2nd International Conference Mining in Europe, 07 - 08 June 2017, Aachen, Germany, <http://www.aims.rwth-aachen.de/>
129. Galetakis, M., **Komnitsas, K.**, Xenidis, A., Zervas, M. 2017. Time series forecasting models for controlling daily quality variations of run-of-mine ores and fuels in LARCO's metallurgical plant, 2nd International Conference Mining in Europe, 07 - 08 June 2017, Aachen, Germany, <http://www.aims.rwth-aachen.de/>
130. Ekman Nilsson, A., Macias Aragones, M., Royo, F., Dunon, V., Oorts, K., Angel, H., **Komnitsas, K.**, Willquist, K. 2017. Carbon footprint of Cu and Zn production from primary and secondary sources: A critical review, 2nd International Conference Mining in Europe, 07 - 08 June 2017, Aachen, Germany, <http://www.aims.rwth-aachen.de/>
131. Doula, M.K., **Komnitsas, K.** 2017. Small, low cost systems for agricultural waste management at field level-The case of pistachio waste, ATHENS 2017 5th International Conference on Sustainable Solid Waste Management, 21-24 June, <http://www.athens2017.uest.gr/>
132. Bartzas, G., **Komnitsas, K.** 2017. Energy flow analysis of irrigated pistachio production in Aegina, Greece, ATHENS 2017 5th International Conference on Sustainable Solid Waste Management, 21-24 June, <http://www.athens2017.uest.gr/>
133. Doula, M., Sarris, A., **Komnitsas, K.** (2017). LIFE PROSODOL: Strategies and tools developed by capitalizing project's achievements, Int. Conference Climate Changing Agriculture, 29 Aug.-2Sep. 2017, Chania, <http://www.climate2017.eu/>
134. **Komnitsas, K.**, Doula, M. 2017. Guidelines towards sustainable agriculture in small Mediterranean islands, 5th International Conference on Sustainable Development, Rome, Italy, 6-7 September 2017, <http://ecsdev.org/index.php/conference> (the paper was published in a special issue of the European Journal of Sustainable Development)
135. Bartzas, G., **Komnitsas, K.** 2017. A composite indicator-based methodology to assess the sustainability of agriculture in small islands: The case of Pistacia vera L. cultivation in Aegina, Greece, 5th International Conference on Sustainable Development, Rome, Italy, 6-7 September 2017, <http://ecsdev.org/index.php/conference>
136. **Komnitsas, K.**, Bartzas, G. (2017). Sustainability assessment of Pistacia vera L. cultivation in Aegina, Greece: A two-stage multi-criteria analysis, IV International Symposium on Pomegranate and Minor Mediterranean Fruits, 17-22 Sep. 2017, Elche, Spain, <http://pomegranate2017.org/>
137. **Komnitsas, K.**, Alevizos, G., Petrakis, E., Pantelaki, O., Kritikaki, A. (2017). Characterisation and magnetic separation of fayalitic slag, 5th International Conference of the Hellenic Solid Waste Management Association "The Contribution of Solid Waste Management to Circular Economy", Athens, 14-15 Dec. 2017, <http://conference2017.eedsa.gr/>

7. IMPLEMENTATION OF RESEARCH PROJECTS

Completed

1. *Jan.-Oct. '85*: Leaching and flotation of magnesite ores, funded by FIMISCO S.A., Greece, principal researcher, supervised by late Prof. A. Kontopoulos (NTUA).
2. *Oct. '85-Feb. '87*: Present status and development prospects of the Greek metallurgical industry during 1985-1995, funded by the Greek General Secretariat of Research and Technology (GSRT), member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
3. *Oct. '86-Aug. '88*: Development of an industrial method for sulphuric laterites leaching, funded by the GSRT, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
4. *Sep. '87-Aug. '88*: Recovery of magnesium from flotation tailings, funded by ELEVME, Greece, principal researcher, supervised by late Prof. A. Kontopoulos (NTUA).
5. *Jan.-Aug. '88*: Strength of iron ores at low temperatures, funded by Parnassos Bauxites S.A, Greece, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
6. *May-Dec. '90*: Bacterial leaching of zinc flotation tailings, funded by HZL, India, principal researcher, supervised by Prof. F.D. Pooley (University of Wales, College Cardiff, U.K).
7. *May-Dec. '90*: Recovery of metals from flotation tailings, funded by SOMINCOR Portugal, principal researcher, supervised by Prof. F.D. Pooley (University of Wales, College Cardiff, U.K).
8. *Jan. '93-June '95*: Optimization of bacterial leaching for the treatment of refractory arseniferous gold ores, funded by EC, Contract No MA2M-CT90-0055, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
9. *Jan. '93-Feb. '94*: Modern technologies for the production of secondary lead from used batteries, funded by GSRT, Contract No 90 BE 63, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
10. *Aug. '93-Jan. '96*: Bioremediation of sites affected by acid mine drainage by accelerated bioleaching of mine wastes, funded by EC, Contract No EV5V-CT93-0248, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
11. *Nov. '93-Oct. '95*: Kinetic study of pressure laterite leaching and determination of precipitated compounds, funded by GSRT, PAVE program, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
12. *Sep. '92-Aug. '97*: Environmental management in the mining and metallurgical industry, 2 consecutive TEMPUS projects, Contract Nos, JEP-03657-92 και JEP-03657-BG95, funded by Tempus Office, member of a team, supervised by late Prof. A. Kontopoulos (NTUA).
13. *Apr. -June '95*: Remediation actions at Lavrion Technological Park (ex lead smelter), Greece, funded by NTUA, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
14. *July '95-Feb. '96*:Lavrion slags toxicity – potential use for the extension of Lavrion harbour, funded by Alfa Techniki S.A, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
15. *Nov. '95-Apr. '96*: Environmental Assessment at Lavrion Technological Park, funded by Greek Structural Fund, member of a research team, supervised by Prof. K. Kassios (NTUA).
16. *Dec. '95- Nov. '96*: Rehabilitation of a tailings dam at Lavrion Technological Park, funded Greek Structural Fund, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
17. *Feb. '97-July'99*: Pollution at Black Sea coastal areas due to mining activities. Pilot scale rehabilitation actions, funded by EC, Contract No IC15-CT96-0114, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
18. *Apr. '97-June'99*: Prevention of acidic mine drainage generation at Lavrion by wet-dry covers, funded by GSRT, PENED program, Contract No 95 ED 917, member of a research team, supervised by late Prof. A. Kontopoulos – Prof. I. Halikia (NTUA).
19. *June '97-May '98*: Risk assessment at lignite mines, funded by the Greek Power Corporation (DEH), member of a research team, supervised by Prof. K. Kassios (NTUA).
20. *Sep. '98-Aug.2000*: Study and application of remediation technologies for mitigation of pollution emanating from uranium wastes in Romania, funded by GSRT, Greek-Romania bilateral cooperation program, principal researcher, supervised by Prof. I. Halikia (NTUA).
21. *Jan. '98-Dec. '99*: Pollution prevention and rehabilitation techniques at mining areas, funded by the Greek Ministry of labour, ADAPT program, member of a research team, supervised by Prof. K. Kassios (NTUA).
22. *Oct. '99-Mar. '01*: Optimized system for waste management at a lead smelter, funded by GSRT, program EPET II, principal researcher, supervised by Prof. I. Paspaliaris (NTUA).
23. *Oct.99-Dec. 2000*: Integrated soil rehabilitation at Lavrion Technological Park, funded by Greek Structural Fund, member of a research team, supervised by Prof. P. Neou (NTUA).
24. *Sep. '00-Dec. '03*: Environmental management of hazardous mining wastes and effluents (Enviman), funded by EC, Copernicus II project, Contract No ICA2-CT-2000-10010, principal researcher, supervised by Prof. I. Paspaliaris (NTUA).

25. Mar.'00–Feb.'03. Life cycle assessment of mining and metallurgical projects (Licymin). Funded by EC, Growth Program, Contract No G1RD-CT2000-00162, member of a research team, supervised by Prof. I. Paspaliaris (NTUA).
26. Oct. 2003- May 2005. Prevention of groundwater pollution from effluents produced by mining and metallurgical activities with the use of permeable reactive barriers, Funded by: "Alexander S. Onassis" Foundation, Scientific Coordinator TUC.
27. Aug '04–Jul. '07. Integrated treatment of industrial wastes towards prevention of regional water resources contamination (INTREAT), INCO C.1 Environment STREP, funded by the EC, budget TUC 170,000 €, scientific co-ordinator TUC, Webpage: <http://www.labmet.ntua.gr/intreat/>
28. Sep '04 – Aug '06. Integrated industrial solid waste management in Albania (INSWAM – AL), INCO C.1 Environment, SSA, funded by the EC, budget TUC 70,000 €, scientific co-ordinator TUC, Webpage: <http://www.mred.tuc.gr/projects/inswab/index.htm>
29. Mar.'04 - Aug.'06. Innovative technologies for the management of hazardous mining wastes towards prevention of groundwater contamination, funded by the Greek Ministry of Education, PYTHAGORAS program, budget 50,000 €, scientific coordinator TUC.
30. Sep. '05 – Aug. '07. Management and remediation of hazardous industrial wastes in the Western Balkan Countries (INDUWASTE). INCO C.1 Environment, SSA, funded by the EC, budget TUC 40,000 €, webpage: <http://www.ibes.be/induwaste/>, scientific coordinator TUC
31. Apr. '06 – Dec. '06. Risk assessment study at the Somika plant, Katanga province, Kongo, Contrat No 48/Copirep/SE/03/2006, funded by COPIREP, budget TUC 30,000 €, consultancy (coordinator IBES, BE).
32. Jan. '06 – Dec. '07. Strategic plan for prevention of regional water resources contamination from mining and metallurgical activities in Western Balkan Area (PREWARC), INCO C.1 Environment, SSA, funded by the EC, budget TUC 25,000 €, scientific co-ordinator TUC, webpage: <http://www.labmet.ntua.gr/prewarc/index.htm>
33. Jan. '06 – Dec. '07. Integrated system for the rehabilitation of contaminated areas in waste disposal sites with the use of innovative technologies, Bilateral Sino-Greek cooperation project, funded by the Greek General Secretariat of Research and Technology, budget TUC 11,150 €, scientific co-ordinator TUC, <http://www.mred.tuc.gr/projects/GR-China/index.htm>
34. Oct. '06. - Sep. '07. Elucidation of inorganic polymers synthesis mechanisms, funded by the Research Committee of Technical University Crete, basic research project, scientific coordinator.
35. June '06 – May '08. Optimization of the permeable reactive barriers performance for the decontamination of leachates and groundwater, bilateral Greek-Canada cooperation project, funded by the Greek General Secretariat of Research and Technology, budget TUC 40,000 €, scientific co-ordinator TUC, <http://www.mred.tuc.gr/p042.htm>
36. Oct. '07 – Sep. '08. Elucidation of manganese removal mechanisms from metallurgical process solutions and leachates generated at waste disposal sites, funded by the Research Committee of Technical University Crete, basic research project, scientific coordinator, <http://www.mred.tuc.gr/projects/GeoImmob/GeoImmob.html>
37. Jan. 08 – Dec. 10: Consultancy services for the development of an ISO 14001 Environmental Management System at LARCO S.A, funded by Speed Ltd, consultancy
38. Oct. '08 – Sep. '10. Elucidation of heavy metal immobilisation mechanisms in inorganic polymers synthesized from electric arc ferronickel slag funded by the Research Committee of Technical University Crete, basic research project, scientific coordinator.
39. Jan. 2009 – Dec. 2012. Strategies to improve and protect soil quality from the disposal of olive oil mills' wastes in the Mediterranean region, Life+ project (PROSODOL), funded by the European Commission, Budget TUC 312.493 €, scientific coordinator, <http://www.prosodol.gr/>
40. July 2011-July 2012. Strategic study for the development of good practices towards the improvement of working environment in Greek Enterprises, participants: Technical University Crete, Eco- Efficiency Consulting and Engineering Ltd, Athanassakis – Bogris Co., Funded by STEGI of Hellenic Federation of Enterprises, Budget TUC: 45.000 €.
41. July 2011-June 2013. Treatment of Acid Mine Drainage Using Permeable Reactive Barriers (In-Situ Treatment) and Anaerobic Baffled Reactors (Ex-Situ Treatment), bilateral cooperation Greece-Turkey, cooperation with Harran University, funding by General Secretariat of Research and Technology, scientific coordinator TUC, <http://www.tuc.gr/treatamd.html>
42. Jan. 2012 – June 2015. Development of an integrated methodology for the management, treatment and valorisation of hazardous waste (WasteVal), Thalís project. Partners: Laboratory of Metallurgy (NTUA), Laboratory of Electron Microscopy, Department of Physics (AUTH), General and Inorganic Chemical Technology, Department of Chemistry (AUTH), Research Unit of Mining / Metallurgical Waste Management and Rehabilitation of Contaminated Soils (TUC), Budget: 521.000€, funded by the Greek Ministry of Education, <http://excellence.minedu.gov.gr/thalis/en/thalisprojects/420>
43. Jan. 2013 – June 2015. Recycling of quarry dust and construction and demolition wastes for the production of novel ecological building elements, Cooperation Project, Participants: Research unit of Quality Control-Health and Safety in Minerals Industry (TUC, coordinator), Research unit of Management of mining / metallurgical wastes

- and rehabilitation of contaminated soils (MWSR), Technobeton S.A, Finobeton S.A, funded funded by General Secretariat of Research and Technology, Project budget: 504.250 €, MWSR TUC budget: 102.500 €, <http://www.durecobel.gr/>
44. Jan. 2013- June 2015. Development of Mathematical Predictive Model coupled with Neural Network smoothing algorithms to Optimize Operating Conditions and Improve Energy Efficiency of Rotary Kiln and Electric Arc Furnaces in Ferronickel Production Plants (MANNFENI), Cooperation Project, Participants: NTUA (Lab. of Metallurgy, coordinator), TUC, LARCO (FeNi plant), ELKEME, TEC, funded by General Secretariat of Research and Technology, Project budget: 821.421 €, TUC budget: 69.100 €
45. Sept. 2011-Aug. 2015. Best practices for agricultural WASTES (AW) treatment and REUSE in the Mediterranean countries, LIFE+ Environment Policy and Governance 2010, Participants: TUC, Centro de Edafologia y Biologia Aplicada del Segura, Consejo Superior de Investigaciones Cientificas (CEBAS-CSIC) (Spain), Regional Center for Agricultural Experimentation and Assistance (CERSAA) (Italy), Chemical Laboratory of the Chamber of Commerce of Savona (Laboratorio Chimico CCIAA) (Italy), SIGNOSIS SPRL. (SIGNOSIS), (Belgium), funded by EC, Total project budget 1.384.799 €, TUC budget: 277.088 €, TUC coordinator, www.wastereuse.eu
46. July 2014-June 2016. Development of functional geopolymer – based construction materials for passive cooling of buildings, funded by Salman Bin Abdul-Aziz University, Saudi Arabia, Prof. Komnitsas acts as external expert, budget TUC 8.000 €
47. Oct. 2012 – Sep. 2017. Sustainable strategies for the improvement of seriously degraded agricultural areas:The example of Pistachia vera L. LIFE+ Environment Policy and Governance 2011, Participants: TUC, Hellenic Agricultural Organization "ELGO-DEMETER"-Soil Science Institute of Athens (coordinator), Institute of Mediterranean Studies Foundation for Research and Technology, funded by EC, Total project budget 1.026.509 €, TUC budget: 175.233 €, <http://www.agrostrat.gr/>

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48. Feb. 2016-Jan. 2020. Metal Recovery from Low Grade Ores and Wastes (Metgrow+), Research and Innovation Action (RIA), H2020 project, funded by the European Commission, 19 participants, coordinator VTT Finland, Budget TUC: 437.125 €, <http://metgrowplus.eu/>
49. Nov. 2017 – Oct. 2019. ENGINEERING and Industry Innovative Training for Engineers, Erasmus+ programme, AGREEMENT NUMBER – 2017-1-CY01-KA202-026728, partners, Technological University Cyprus (coord.), TUC, AALBORG UNIVERSITET, GRANTXPRT CONSULTING LIMITED, CUBEIE L.L.C., LONDON SOUTH BANK UNIVERSITY LBG, Useful Simple Projects Limited, Budget 219.655 €, TUC budget 32.,086 € (coordinator), <https://www.enginite.eu/>
50. Jan. 2018 – Dec. 2019. INVALOR: Research Infrastructure for the Valorization of Wastes and Sustainable Management of Resources, partners: University Patras (coord.), AUTH, AUA, DUTH, Forth Institute of Chemical Engineering Sciences, TUC, funded by the Greek Minister of Economy and Development, Budget TUC 700.000 €