

# CURRICULUM VITAE



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## **Present Occupation**

Assistant Professor, Analytical Chemistry Laboratory of the Chemical Engineering Department, School of Engineering, Aristotle University of Thessaloniki, Greece.

## **Studies**

1991 **PhD in Chemical Engineering**, Aristotle University of Thessaloniki, Greece.  
1978 **Diploma in Chemical Engineering**, Aristotle University of Thessaloniki, Greece.  
1973 **High School degree** 1<sup>st</sup> Male High School of Serres, Greece.

**Languages:** English (very good)

**Teaching fields:** «Analytical chemistry», «Water quality and treatment», «Design of wastewater treatment plants», «Analytical chemistry laboratory», «Advanced analytical chemistry», «Environmental laboratory»

**Technical skills:** Experience in AAS, ISE, LC, GC, TG-DTA, XRD, HPLC, SEM, UV-VIS and generally in instrumental chemical analysis.

## **Research Projects:**

Participated in 48 research projects and having been the Scientific Coordinator in 33 of them, funded by the European Union, the General Secretariat of Research and Technology, as well as by many Greek and foreign industries.

## **Publications:**

In peer reviewed Scientific Journals	: 42
In international conferences peer reviewed Proceedings	: 56
In national conferences	: 58
Citations more than	: 240

**Books:** **Mitrakas M.**, “Water Quality and Treatment”, Tziolas Pub. Co, 2<sup>nd</sup> Edition, Thessaloniki, 1996.

## **Patents:**

**GR1003977:** «Spectrophotometric determination of bromate in water by phenothiazines»

**GR2008010020:** Method for bromate determination using phenothiazines and test kit for methods implementation.

**GR20100100541:** A method for the synthesis of tetravalent manganese feroxyhite for arsenic removal from water

**WO 2012/042282 A1:** A method for synthesis of tetravalent manganese feroxyhite for arsenic removal.

### **Awards**

**2011:** 1<sup>o</sup> Prize at the competition "Greece Innovates", which was organized by the Association of Greek Industries and the Eurobank EFG for the work titled "Development and utilization of an efficient granular solid adsorbent based on ferric – manganese oxy-hydroxide for the removal of both trivalent and pentavalent arsenic from potable water"

**2013:** Distinction on StartupBootCamp High TechXL competition

### **Professional Experience**

Prof. Manassis Mitrakas has a great (more than 25 years) experience on the field of water and wastewater treatment technologies, wastewater management, reclamation and reuse. He is also serving as an active consultant engineer in several local engineering and constructive enterprises in the field of design and construction of water and wastewater treatment plants. Collaboration with the Industry include consultancy in the fields of:

- Research and Development
- Water analysis
- New water and wastewater treatment plants design and construction supervising
- Quality control and product development
- Reuse/recycling of waste streams
- Evaluation and upgrading processes
- Industrial by-products, evaluation, handling, utilization.

### **Participations in Associations:**

- Member of the Technical Chamber of Greece
- Member of the Chemical Engineering Association of Greece
- European Spa Association

### **• LIST OF PUBLICATIONS**

Karabelas A.J., N. Andritsos, A. Mouza, **M. Mitrakas**, F. Vrouzi and K. Christanes, "Characteristics of Scales from Milos Geothermal Plant", *Geothermics*, **18**, 169-174, 1989 (also presented at the International Workshop on DEPOSITION IN GEOTHERMAL SYSTEMS, Reykjavik, August 16-19, 1988).

**Mitrakas M.**, R. Tsitouridou, B. Kabasakalis and J. Georgiou, "Nitrate Content of Surface and Ground Waters of Northern Greece", *Toxicological and Environmental Chemistry*, **20-21**, 163-168, 1989.

**Mitrakas M.** and Alexiades, "A New Ionic Strength Adjustor for Nitrate Analysis in Water, Soils and Plants using Ion-Selective Electrode", *Microchimica Acta*, **I**, 7-16, 1990.

- Mitrakas M.**, V. Keramidas and C. Tzimourtas, "Nitrate Determination in Sugar Beet Sap Extracted with  $\text{Pb}(\text{CH}_3\text{COO})_2\text{-PbO}$  Using Ion-Selective Electrode", *Communications in Soil Science and Plant Analysis*, **22**, 589-596, 1991.
- Mitrakas, M.**, C. Alexiades and V. Keramidas, "Nitrate Ion-selective Electrodes Based on Quaternary Phosphonium Salts in Plasticized Poly(vinyl chloride) and Influence of Membrane Homogeneity on their Performance", *Analyst*, **116**, 361-367, 1991.
- Mitrakas, M.** and C. Sikalidis, "Chemical and Mineralogical Characteristics of Greek Muds and Peloids", *Chimica Chronica New Series*, 1993.
- Topitsoglou, V., P. Dagalis, **M. Mitrakas** and D. Lambrou, "An Appliance for Fluoridating Drinking Water for Domestic Use", *Hellenic Dent. J.*, **5**, 21-25, 1995.
- Mitrakas, M.**, G. Papageorgiou, A. Docoslis and G. Sakelaropoulos, "Evaluation of Various Pre-treatment Methods for Olive Oil Mill Wastewaters", *EWPCA*, **6**, 10-16, 1996.
- Mitrakas, M.** and N. Pistofidis, «Water Saving in Dyeing Processes of Cotton Fabric with Reactive and Direct Dyes», *Fresenius Envir. Bull.*, **8**, 471-477, 1999.
- Boitsidis, P. and **M. Mitrakas**, «Anionic Surfactants in Surface and Potable Water of Greece», *Fresenius Envir. Bull.*, **8**, 662-667, 1999.
- Zarkadas, D. and **M. Mitrakas**, "On the Applicability of a Plug Flow Immersion Freezer – Theoretical Consideration", *Lebensmittel – Wissenschaft und Technologie*, **32**, 548-552, 1999.
- Moustaka – Gouni, M., K. Albanakis, **M. Mitrakas** and A. Psilovikos, "Planktic Autotrophs and Environmental Conditions in the Newly – Formed Thesaurus Reservoir in Nestos River, Greece", *Archiv fur Hydrobiologie*, **149(3)**, 507-526, 2000.
- Kabasakalis, V. and **M. Mitrakas**, "A Rapid and Simple Fluorimetric Determination of Iodide in Iodized Table Salts", *Analisis*, **28**, 1-5, 2000.
- Mitrakas M.**, R. Tzimou-Tsitouridou and V. Keramidas, "Interference of Humic Substances in the Spectrophotometric Determination of Bromate by Phenothiazines in Natural Waters", *Intern. J. Env. Anal. Chem.*, **78(3-4)**, 343-351, 2000.
- Albanakis K., **M. Mitrakas**, M. Moustaka-Gouni and A. Psilovikos, "Determination of the Environmental Parameters that Influence Sulphide Formation in the Newly Formed UThesaurus Reservoir, in Nestos River, Greece, *Fresenius Envir. Bul.*, **10(6)**, 566-571, 2001.
- Mitrakas M.**, "A Survey of Arsenic Levels in Tap, Underground, and Thermal Mineral Waters of Greece, *Fresenius Envir. Bul.*, **10(6)**, 717-721, 2001.
- Mitrakas M.** and K. Simeonidis, "Bromate Formation in Bottled Water During Ozone Disinfection", *Ozone Science & Engineering*, **25**, 167-175, 2003.
- Mitrakas M.**, G. Bougiouklis and N. Andritsos, "Removal of Particulates and Organics from Aliakmon River Water", *Fresenius Envir. Bul.*, **12(10)**, 1218-1227, 2003.

- Sikalidis C. and **M. Mitrakas**, "Utilization of Electric Arc Furnace Dust as Raw Materials for the Production of Ceramic and Concrete Building Products", J. Environ. Sci. Health, Part A, Vol A41(9), 1943-1954, 2006.
- Mitrakas M.**, Sikalidis C. and Th. Karamanli, "Immobilization of EAFD Heavy Metals Using Acidic Materials" J. Environ. Sci. Health, Part A, Vol. A42(4), 535-541, 2007.
- Mitrakas M.**, "Bromate Determination in Waters by Chlorpromazine after Correction of Chlorinating Agents and Humic Substances Interference", J. Anal. Chem., Vol. 62(11), 1055-1063, 2007.
- Mitrouli S., Yiantsios S., Karabelas A., **Mitrakas M.**, Follesdal M., P. Kjolseth, "Pretreatment for Desalination of Seawater from an Open Intake by Dual-media Filtration: Pilot Testing and Comparison of two Different Media", Desalination, 222, 24-37, 2007.
- Mitrakas M.**, Patsos A., Tzimou – Tsitouridou R. and C. Sikalidis, "Effect of Temperature on Ct Value and Bromate Formation During Ozonation of Bottled Water", Fresenius Envir. Bul.,17(3), 341-346, 2008.
- Tsaligopoulos M, **Mitrakas M.**, et al., Hydrotherapy (Project Hydriades), Aristotle University Medical Journal, 6(I), 53-56, 2009.
- Gialamoudis D., **Mitrakas M.**, Liakopoulou – Kyriakides M., "Biosorption of Nickel Ions from Aqueous Solutions by Pseudomonas sp. and Staphylococcus Xylosus Cells" Desalination, 253, 1-8, 2009.
- Mitrakas M.**, Panteliadis P., Keramidas V., Tzimou-Tsitouridou R., Sikalidis C., "Predicting  $\text{Fe}^{3+}$  Dose for As(V) Removal at pHs and Temperatures Commonly Encountered in Natural Waters", J. Chem. Engin. 155, 716-721, 2009.
- Gialamoudis D., **Mitrakas M.**, Liakopoulou – Kyriakides M., "Equilibrium, Thermodynamic and Kinetic Studies on Biosorption of Mn(II) from Aqueous Solution by Pseudomonas sp., Staphylococcus Xylosus and Blakeslea Triptora Cells" J. Haz. Mat., 182(1-3), 672-680, 2010.
- C. Sikalidis, **M. Mitrakas**, R. Tsitouridou, "Immobilization of Electric Arc Furnace Dust Toxic Elements within the Matrix of Concrete Based Products", Global. NEST Journal, 2010, Accepted.
- K. Simeonidis, T. Gkinis, S. Tresintsi, C. Martinez-Boubeta, G. Vourlias, I. Tsiaousis, G Stauroopoulos, M. Mitrakas, M. Angelakeris, Effective arsenic removal by hematite-coated  $\text{Fe}_3\text{O}_4$  particles", J. Chem. Engin. 168, 1008-1015, 2011.
- T. Sawidis, E. Metentzoglou, **M. Mitrakas**, E. Vasara, "A study of Chromium, Cooper and Lead distribution from lignite fuels using cultivated and non-cultivated plants as biological monitors", Water Air Soil Polut., 220(1-4), 339-352, 2011.
- M. Mitrakas**, A. Pantazatou, R. Tzimou-Tsitouridou, C Sikalidis, "Influence of pH and temperature on Cr(VI) removal from a natural water using Fe(II): A pilot and full scale case study" Desalination and Water Treatment J., 33, 77-55, 2011.
- M. Mitrakas**, A. Bakaloulis, K. Ginis, "Influence of the aluminum anodizing sludge physicochemical characteristics on arsenic adsorption", Desalination and Water Treatment J., 39, 235-247, 2012.

- Martinez-Boureta C., K. Simeonidis, D. Serantes, I. Conde-Leboran, I. Kazakis, G. Stefanou, L. Pena, R. Galceran, L. Balcells, C. Monty, D. Baldomir, **M. Mitrakas** and M. Angelakeris, "Adjustable hyperthermia response of self-assembled ferromagnetic Fe-MgO core-shell nanoparticles by tuning dipole-dipole interactions", *Advanced Functional Materials*, 22(17), 3737-3744, 2012.
- S. Tresintsi, K. Simeonidis, G. Vourlias, G. Stavropoulos and **M. Mitrakas**, "Kilogram-scale synthesis of iron oxy-hydroxides with improved arsenic removal capacity: Study of Fe(II) oxidation-precipitation parameters" *Water Research*, 46(16), 5255-5267, 2012.
- Tresintsi S., Simeonidis K., Zouboulis A., **Mittrakas M.**, "Comparative study of As(V) removal by ferric coagulation and oxy-hydroxides adsorption: Laboratory and full scale case studies", *Desalination and Water Treatment J.*, 51(13-15), 2872-2880, 2013.
- M. Mitrakas**, P. Samaras, S. Stylianou, C. Kakalis, A. Zouboulis, «Artificial destratification of Dipotamos reservoir in Northern Greece by low energy air injection». *Water Science and Technology: Water Supply*. 13.4, 1046-1055, 2013.
- Simeonidis K., Tziomaki M., Angelakeris M., Martinez-Boubeta M., Balcells L., Monty C., **Mittrakas M.**, Vourlias G., Andritsos N. "Development of iron-based nanoparticles for Cr(VI) removal from drinking water", *EPJ Web of Conferences* **40**, 08007(1-4), 2013. DOI: 10.1051/epjconf/20134008007 Article available at <http://www.epj-conferences.org> or <http://dx.doi.org/10.1051/epjconf/20134008007>.
- Simeonidis K., Martinez-Boubeta C., Balcells L., Monty C., Stavropoulos G., **Mittrakas M.**, Matsakidou A., Vourlias G. and Angelakeris M. "Fe-based nanoparticles as tunable magnetic particle hyperthermia agents" *Journal of Applied Physics* 114, 103904(1-8), 2013.
- Tresintsi S., Simeonidis K., Estradé S., Martinez-Boubeta C., Vourlias G., Pinakidou F., Katsikini M., Paloura E., Stavropoulos G. and **Mittrakas M.** «Tetravalent manganese ferrihydrite: a novel nano-adsorbent equally selective for As(III) and As(V) removal from drinking water». *Environmental Science & Technology*, [dx.doi.org/10.1021/es4009932](http://dx.doi.org/10.1021/es4009932), 47 (17) , pp. 9699-9705, 2013..
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- Katsoyiannis I., Zouboulis A., **Mittrakas M.**, Althoff H. W. and Bartel H. "A hybrid system incorporating a pipe reactor and microfiltration for biological iron, manganese and arsenic removal from anaerobic groundwater", *Fresenius Environmental Bulletin*, 22-12c, 3848-3853, 2013.
- Tresintsi S., Simeonidis K., Katsikini, Paloura E.C., Bantsis G., M., **Mittrakas M.**, "A novel approach for arsenic adsorbents regeneration using MgO", *Journal of Hazardous Material*, 265, 217-225, 2014.
- Tresintsi S., Simeonidis K., Pliatsikas N., Vourlias G., Patsalas P., **Mittrakas M.**, "The role of  $\text{SO}_4^{2-}$  Surface distribution in arsenic removal by iron oxy-hydroxides", *Journal of Solid State Chemistry*, 213, 145-151, 2014.

Tresintsi S., Simeonidis K., **Mitrakas M.**, "Mn-feroxyhyte: The role of synthesis conditions on As(III) and As(V) removal capacity", *Chemical Engineering Journal*, 251, 192-198, 2014.

Kokkinos E., K. Simeonidis, Zouboulis and **Mitrakas M.**, "Mercury removal from drinking water by single iron and binary iron manganese oxy-hydroxides" *Desalination and Water Treatment Journal*, Accepted for publication.

Kaprara A, Zouboulis A., Simeonidis K. and **Mitrakas M.**, "Inorganic Sulfur Reductants and their Potential Application for Cr(VI) Removal at sub-ppb Level", *Desalination and Water Treatment Journal*, Accepted for publication.

Katsoyianis I., **Mitrakas M.** and Zouboulis A., "Arsenic occurrence in Europe: Emphasis in Greece and description of the applied full scale treatment plants", *Desalination and Water Treatment J.*, Accepted for publication.

- **Participation in International and National Conferences**

- **Publications in Symposia Proceedings**

Antagonists in Hypertention, 25 Anniversary International Symposium Basel, Switzerland, 11-12 February, 1988. Syrganis C., A. Lasaridis, C. Kaisis, **M. Mitrakas** and A. Tourkantonis, "The Effects of Calcium Channel Blocade on Blood Pressure and Calcium Metabolism". *Calcium*

**Mitrakas M.** and Z. Angelides, "Thermal Springs and Spas in Greece", 10<sup>th</sup> International Conference on Thermalism, Bucarest, May 26-31, 1991.

Anagnostopoulos A., S. Hadjispyrou, A. Malpantis, **M. Mitrakas**, «Lead in dust of Thessaloniki area», 4<sup>th</sup> Int. Conference on Environmental Pollution, Thessaloniki August 31 – September 1, 1998.

**Mitrakas M.**, and R. Tzimou – Tsitouridou, «Methods of Bromate Ion Determination and Interference on their Application» 3<sup>rd</sup> Euroconference on Environmental Analytical Chemistry, Chalkidiki October 9 –15, 1999.

Anagnostopoulos A., Sp. Hadjispyrou. **M. Mitrakas**, L. Hamatsou, «Lead in dust of Cyprus greeater area – Nicosia, Limassol, Larnaca, Paphos», 5<sup>th</sup> Int. Conference on Environmental Pollution, Thessaloniki August 28 – September 1, 2000.

**Mitrakas M.**, V. Kabasakalis, S. Papadopoulou, G. Karkatsela, «A study on the simultaneous removal of ammonium, phosphate and fluoride from wastes of a phosphate fertilizers industry», 5<sup>th</sup> Int. Conference on Environmental Pollution, Thessaloniki August 28 – September 1, 2000.

**Mitrakas M.**, P. Zournatzidou and E. Tsaloni, «Giardia and Cryptosporidium control», 1077-1080, 3<sup>rd</sup> Nat., Conference of the Chemical Engineering Association of Greece, Athens May 31 – June 2, 2001.

**Mitrakas M.**, I. Bougiouklis and N. Andritsos, "Optimum Use of Coagulants for the Removal of Particulates and Organics from Aliakmon River Water", 99- 106, VI Int. Conf. Protection and Restoration of the Environment, Skiathos, 1-5 July, 2002.

- Mitrakas M.**, I. Bougiouklis and N. Andritsos, "Direct Sand Filtration for Particulates Removal from Aliakmon River Water", 541-547, *XXX IAHR Congress: Water Engineering and Research in a Learning Society, Thessaloniki, 24-29 August 2003*.
- Mitrakas M.** and I. Bougiouklis, "Differences in the Treatment for Particulates Removal from Surface and Ground Waters: The Case of Sidirokastro and Velvendo", 580-587, *8<sup>th</sup> International Conference Environmental Science and Technology*, Greece, 8-10 September 2003.
- Mitrakas M.**, "Bromate Determination in Ozonated Waters by Phenothiazines", 792-795, *3<sup>th</sup> International Conference in Instrumental Methods of Analysis Modern Trends and Applications, Thessaloniki, 23-27 September 2003*.
- Mitrakas M.** and I. Bougiouklis, «Optimization of arsenic removal from water using  $\text{Fe}^{3+}$  and  $\text{Al}^{3+}$ », *5<sup>th</sup> International Conference in Environmental Technology HELECO '05, Athens 3-6 February, 2005*.
- Karakitsiou M., B. Sarasidis, **M. Mitrakas** and C. Sikalidis, «Parameters influencing  $\text{Mn}^{2+}$  removal during water filtration through pack bed of BIRM», 237-240, *5<sup>th</sup> Nat., Conference of the Chemical Engineering Association of Greece, Thessaloniki May 26-28, 2005*.
- Sikalidis M. and **M. Mitrakas**, "Electric Arc Furnace Dust as Raw Material for Powder Pressed Ceramics", A-1348, *9<sup>th</sup> International Conference Environmental Science and Technology*, Rhodes island, Greece, 1-3 September 2005.
- Mitrouli S., Yiantisios S., Karabelas A., **Mitrakas M.**, Follesdal M., P. Kjolseth, "Preatreatment for desalination of seawater from an open intake by dual-media filtration: Pilot testing and comparison of two different media", *Conference on Desalination and the Environment, Sani Resort, Halkidiki – Greece, 22-25 April 2007*.
- Panteliadis P., **M. Mitrakas**, and D. Boutsas, «Influence of pH and temperature on As(V) co-precipitation with  $\text{Fe}^{3+}$ », 653-656, *3<sup>rd</sup> Nat., Conference of the Chemical Engineering Association of Greece, Athens May 31 – June 2, 2007*.
- Mitrakas M.**, P. Panteliadis, V. Keramidas, Tzimou-Tsitouridou P. and C. Sikalidis, "Predicting  $\text{Fe}^{3+}$  dose, for effective As(V) removal, at any pH, temperature and initial arsenic concentration of natural waters", 1475-1481, *SECOTOX Conference and International Conference on Environmental Management Engineering, Planning and Economics, Skiathos, June 24-28, 2007*.
- Gialomoudis D, **Mitrakas M.** and Liakopoupou – Kiriakides M. "Biosorption of Ni(II) ion from aqueous solutions by Pseudomonas sp. and Staphylococcus xylosus" 175-180, *2<sup>nd</sup> Conference on Small and Decentralized Water and Wastewater Treatment Plants, Skiathos May 2-4, 2008*.
- Mitrakas M.** and P. Panteliadis, "Arsenic removal by Fe(III) precipitation of adsorption on iron oxyhydroxides?" 327-333, *2<sup>nd</sup> Conference on Small and Decentralized Water and Wastewater Treatment Plants, Skiathos May 2-4, 2008*.
- Mihailidou A. and **Mitrakas M.** "A new test kit for bromate determination in water", 40-43, *2<sup>nd</sup> Nat., Conference of DEDYTY on Nutritional Challenges and Food Quality and Safety, Thessaloniki June 6-8, 2008*.

- M. Mitrakas**, P. Panteliadis and J. Georgiou, “Health implications of arsenic and best current technologies for its removal from potable water” . 2<sup>nd</sup> Nat., Conference of DEDYTY on Nutritional Challenges and Food Quality and Safety, Thessaloniki June 6-8, 2008
- Mitrakas M.**, “Using surface reservoirs for potable water production: advantages – disadvantages”, 2<sup>nd</sup> Nat., Conference of DEDYT on Nutritional Challenges and Food Quality and Safety, Thessaloniki June 6-8, 2008.
- Delenikou A., **Mitrakas M.**, Sikalidis C., “DSC and FT-IR studies of extremely potentized aqueous dilutions of calcium carbonate” 40, MEDICTA 2009, 9<sup>th</sup> Mediterranean Conference on Calorimetry and Thermal Analysis, Marseille, France, June 15-18, 2009.
- Gialamoudis D., **Mitrakas M.**, Liakopoulou – Kyriakides M., “Biosorption of  $Mn^{2+}$  from aqueous solutions with the use of Pseudomonas sp., Staphylococcus and Blakeslea trispora cells”, 2<sup>nd</sup> International Conference on “Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference” Mykonos, Greece, June 21-26, 2009.
- Sikalidis C., Tzimou – Tsitouridou R., **Mitrakas M.**, Stergioudis G., Hatzopoulou A., “Characterization of particular matter emitted due to production processes of sanitary wares and tiles in ceramic factories”, 2<sup>nd</sup> International Conference on “Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference” Mykonos, Greece, June 21-26, 2009.
- Mitrakas M.**, Pantazatou A., Tzimou – Tsitouridou R., Sikalidis C., “ Parameters influencing Cr(VI) removal from water using Fe(II)”, 2<sup>nd</sup> International Conference on “Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference” Mykonos, Greece, June 21-26, 2009.
- Sikalidis C., **Mitrakas M.**, Tzimou-Tsitouridou R., “Immobilization of electric arc furnace dust toxic elements within the matrix of concrete based products”, 864-870, 11<sup>th</sup> International Conference on Environmental Science and Technology, Chania Crete, Greece, September 3-5, 2009.
- Gkinis Th., Tresintsi S., Moschou P., Simeonidis K., **Mitrakas M.**, Kehagias Th., Kalogirou O. and Angelakeris M., “Evaluation of iron oxide nanoparticles prepared by high – energy ball milling in drinking water treatment”, 189-190, XXV Pan-Hellenic Conference on Solid State Physics and Materials Science, Thessaloniki, Greece, September 20-23, 2009.
- Mitrakas M.**, “Is really Cr(VI) a natural or an anthropogenic pollutant”, Medichem International Workshop – Risk Assessment and Human Exposure to Hazardous Materials, Thessaloniki, Greece, October 21-24, 2009.
- Mitrakas M.**, Panteliadis P., Tresintsi S., “Cost of As(V) removal using either by Fe(III) precipitation or adsorption onto iron oxy-hydroxides”, Cost Action 637, 3<sup>rd</sup> International Conference, Ioannina, Greece, October 21-23, 2009.
- Mitrakas M.**, «Physicochemical characteristics of the natural mud deposits in Sagiada Thesprotia», Geothermal Energy in the Spotlight, International Forum, Thessaloniki, Greece, December 11-12, 2009.



- Mitrakas M.**, A Bakaloulis, K. Ginis, "Aluminum Anodizing Sludge as a Potential As(V) adsorbent", 2<sup>nd</sup> International Conference on Hazardous and Industrial Waste Management, Chania, Crete, Greece, October 5-8, 2010.
- Katsikini M., Simeonidis K., Tresintsi S., **Mitrakas M.**, Papageorgiou D., Pinakidou F., Paloura E.C., "XAFS study of nanoporous Fe, Mn oxy-hydroxides used for removal of As from drinking water", 10th European Conference on Accelerators in Applied Research and Technology, September 2010, Athens.
- Gialamoudis D., **Mitrakas M.**, Liakopoulou – Kyriakides M., "Biosorption of Ni(II) and Mn(II) from aqueous solutions with the use of Pseudomonas sp. and Staphylococcus Xylosus cells. Kinetics, equilibrium and thermodynamic studies". 1<sup>st</sup> International conference on Advances in Biotechnology – Industrial Microbial Biotechnology, 3-5 November 2010, Thessaloniki Greece.
- Tresintsi S., Simeonidis K., Georgiou I., Vourlias G., Stavropoulos G., **Mitrakas M.**, "Effect of precipitation pH on arsenic removal by single Fe and binary Fe/Mn oxy-hydroxides". IWA Specialist Conference – Water and Industry 2011, 1-4 May 2011, Valladolid Spain.
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- Delenikou A., **Mitrakas M.**, Sikalidis C., "DSC and FT-IR studies of extremely potentized aqueous dilutions of calcium carbonate" 40, MEDICTA 2009, 9<sup>th</sup> Mediterranean Conference on Calorimetry and Thermal Analysis, Marseille, France, June 15-18, 2009.
- Gialamoudis D., **Mitrakas M.**, Liakopoulou – Kyriakides M., "Biosorption of Mn<sup>2+</sup> from aqueous solutions with the use of Pseudomonas sp., Staphylococcus and Blakeslea trispora cells", 2<sup>nd</sup> International Conference on "Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference" Mykonos, Greece, June 21-26, 2009.
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- Mitrakas M.**, Pantazatou A., Tzimou – Tsitouridou R., Sikalidis C., "Parameters influencing Cr(VI) removal from water using Fe(II)", 2<sup>nd</sup> International Conference on "Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference" Mykonos, Greece, June 21-26, 2009.

- Sikalidis C., **Mitrakas M.**, Tzimou-Tsitouridou R., "Immobilization of electric arc furnace dust toxic elements within the matrix of concrete based products", 864-870, 11<sup>th</sup> International Conference on Environmental Science and Technology, Chania Crete, Greece, September 3-5, 2009.
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- **Scientific activity**

Dr. Manassis Mitrakas has supervised more than 100 Diploma theses and 4 Ph.D and acts as a reviewer/evaluator for scientific publications, as well as for several national research projects and he was a member of the Organizing and Scientific Committees of several national and international conferences (over 15).