Βιογραφικό σημείωμα

Προσωπικές πληροφορίες

Επίθετο / Όνομα	**Πελέκα Ευφροσύνη**
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Εκπαίδευση

Ημερομηνίες	06/2002 – 2/2007
Τίτλος που απονέμεται	Διδακτορικό Δίπλωμα
	Θέμα: "Μελέτη υδραυλικών και λειτουργικών χαρακτηριστικών συνδυασμένου συστήματος επίπλευσης - μικροδιήθησης"
Όνομα και τύπος οργανισμού που παρέχει την εκπαίδευση	Τμήμα Χημείας, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης
Ημερομηνίες	09/1996 – 11/2000
Τίτλος που απονέμεται	Πτυχίο Χημείας
Όνομα και τύπος οργανισμού που παρέχει την εκπαίδευση	Τμήμα Χημείας, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης

Επαγγελματική Εμπειρία

Ημερομηνίες	5/2014 – σήμερα
Απασχόληση	Εργαστηριακό Διδακτικό Προσωπικό με γνωστικό αντικείμενο «Γενική Χημική Τεχνολογία»
Όνομα και διεύθυνση εργοδότη	Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Τμήμα Χημείας, Εργαστήριο Χημικής και Περιβαλλοντικής Τεχνολογίας
Ημερομηνίες	12/2007 – 5/2014
Απασχόληση	Προσωπικό με σύμβαση εργασίας ιδιωτικού δικαίου αορίστου χρόνου ειδικότητας: ΠΕ Περιβάλλοντος
Όνομα και διεύθυνση εργοδότη	Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Τμήμα Χημείας
Ημερομηνίες	3/2001 – 12/2007
Απασχόληση	Χημικός – Ερευνήτρια σε ερευνητικά έργα
Όνομα και διεύθυνση εργοδότη	Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Τμήμα Χημείας

Διδακτική Εμπειρία

Ημερομηνίες	2014 – σήμερα
Απασχόληση	Αυτοδύναμη συνδιδασκαλία του μαθήματος Πράσινη Χημεία και Διδασκαλία των εργαστηριακών ασκήσεων των μαθημάτων Χημική Τεχνολογία, Φυσικές Διεργασίες, Εργαστήριου Βιομηχανικών Διεργασιών, Βασικές Αρχές Αναλυτικής Χημείας, Ποσοτική Χημική Ανάλυση
Όνομα και διεύθυνση εργοδότη	Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Τμήμα Χημείας
Ημερομηνίες	2006-2007
Κύριες δραστηριότητες	Διδασκαλία του μαθήματος «Τεχνολογία υλικών»
Όνομα και διεύθυνση εργοδότη	Τμήμα Αντιρρύπανσης και Τμήμα Βιομηχανικού Σχεδιασμού, ΤΕΙ Δυτικής Μακεδονίας
Ημερομηνίες	2007-σήμερα
Κύριες δραστηριότητες	Συνεπίβλεψη περισσότερων από 15 πτυχιακών εργασιών
Όνομα και διεύθυνση εργοδότη	Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Τμήμα Χημείας

Συμμετοχές σε ερευνητικά έργα ως επιστημονικός συνεργάτης

2001-2004, Εκλεκτικός διαχωρισμός τοξικών μετάλλων από ειδικά βιομηχανικά υγρά απόβλητα για την ανακύκλωση του νερού και των μετάλλων

2002-2005, Αξιολόγηση διακινδύνευσης της Ευρωπαϊκής Πολιτιστικής Κληρονομιάς: Ποσοτικοποίηση προτεραιοτήτων και βελτιστοποίηση στρατηγικών πυροπροστασίας

2003-2008, Εισαγωγή Νέου Ειδικού Μαθήματος "Επιχειρηματικότητα και Καινοτομία" σε επτά τμήματα του Α.Π.Θ.

2002-2006, ΗΡΑΚΛΕΙΤΟΣ (περιβάλλον):Μελέτη υδραυλικών και λειτουργικών χαρακτηριστικών συνδυσαμένου συστήματος επίπλευσης/μικροδιήθησης

2004-2006, ΠΥΘΑΓΟΡΑΣ (περιβάλλον): Εφαρμογή καινοτόμων μεθόδων στην κατεργασία υγρών αποβλήτων βαφείων

2013-2015, Νέες διεργασίες για την αντιμετώπιση της ρύπανσης σε βιοαντιδραστήρες μεμβρανών.

2017-2019, Ερευνητική Υποδομή για την Αξιοποίηση Αποβλήτων και Αειφόρου Διαχείρισης Φυσικών Πόρων.Υποέργο 4.

2018-2021, Αξιοποίηση βιομηχανικών μεταλλευτικών αποβλήτων στην παραγωγή καινοτόμων πυρίμαχων προϊόντων

2018-2021, Καινοτόμα Υλικά Επίστρωσης Αγωγών Αποχετευτικών Δικτύων για Έλεγχο της Διάβρωσης

2018-2021, Αναστολή της έμφραξης των μεμβρανών σε βιοαντιδραστήρες μεμβρανών με ελεγχόμενη ανάπτυξη νηματοειδών οργανισμών

Ερευνητικά ενδιαφέροντα

Τεχνολογία Περιβάλλοντος, Επεξεργασία υγρών αποβλήτων
Πράσινη χημεία, εφαρμογή αρχών κυκλικής οικονομίας
Διεργασίες μεμβρανών
Υλικά με περιβαλλοντικές εφαρμογές

Δημοσιεύσεις σε διεθνή περιοδικά

1. Deliyanni E.A., Bakoyannakis D.N., Zouboulis A.I. and Peleka E.N., 2003, Removal of arsenic and cadmium by akaganeite fixed-beds, Separation Science and Technology, 38(16), 3967-3981.
2. Deliyanni E.A., Lazaridis N.K., Peleka E.N. and Matis K.A., 2004, Metals removal from aqueous solutions by iron based bonding agents, Environmental Science and Pollution Research (ESPR), 11(1), 18-21.

3. Matis K.A., Peleka E.N., Zamboulis D., Erwe T. and Mavrov V., 2004, Air sparging during the solid/liquid separation by microfiltration: Application of flotation, Separation and Purification Technology, 40, 1-7.
4. Lazaridis N.K., Peleka E.N., Karapantsios Th.D. and Matis K.A., 2004, Copper removal from effluents by various separation techniques, Hydrometallurgy, 74, 149-156.
5. Zouboulis A.I., Peleka E.N., Zamboulis D. and Matis K.A., 2004, Application of flotation for the separation of metal-loaded resins, Separation Science and Technology, 40, 861-876.
6. Peleka E.N., Matis K.A., Erwe T. and Mavrov V., 2004, Bonding of toxic metal ions, The Encyclopedia of water, 1, 586-591.
7. Peleka, E.N., Lazaridis, N.K., Mavros, P., Matis, K.A., 2005, A new hybrid flotation-microfiltration cell, Australasian Institute of Mining and Metallurgy Publication Series 2005, Pages 251-256
8. Peleka E.N., Fanidou M.M., Mavros P. and Matis K.A., 2006, A Hybrid Flotation - Microfiltration Cell for S/L Separation: Operational Characteristics, Desalination, 194(1-3), 135-145.
9. Peleka E.N., Lazaridis N.K., Mavros P. and Matis K.A., 2006, A new hybrid flotation – microfiltration cell, Separation Science and Technology, 41(14), 3229-3243.
10. Peleka E.N., Mavros P., Zamboulis D. and Matis K.A., 2006, Removal of phosphates from water by a hybrid flotation-membrane filtration cell, Desalination, 198(1-3), 198-207.
11. Deliyanni E.A., Peleka E.N. and Matis K.A., 2007, Effect of cationic surfactant on the adsorption of arsenites onto akaganéite nanocrystals, Separation Science and Technology, 42(5), 993-1012.
12. Deliyanni E.A., Peleka E.N. and Lazaridis N., 2007, Comparative study of phosphates removal from aqueous solutions by nanocrystalline akaganeite and hybrid surfactant-akaganeite, Separation and Purification Technology, 52(3), 478-486.
13. Deliyanni E.A., Peleka E.N. and Matis K.A., 2007, Removal of zinc ion from water by sorption onto iron-based nanoadsorbent, 141(1), 176-184.
14. Gallios G., Deliyanni E.A., Peleka E.N. and Matis K.A., 2007, Flotation of chromite and serpentite, Separation and Purification Technology, 55(2), 232-237.
15. Peleka E.N., Matis K.A., Blöcher C., Nenov V. and Mavrov V., 2007, The recovery of copper from a copper mine effluent in a hybrid flotation/microfiltration celll, International Journal of Environment and Pollution, 30(2), 273-286.
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17. Peleka E.N. and Matis K.A., 2008, Application of flotation as a pretreatment process during desalination, Desalination, 222(1-3), 1-8.
18. Deliyanni E.A., Peleka E.N. and Matis K.A., 2008, Removal of arsenites onto akaganéite-type nanocrystals, International Journal of Environment and Waste Management, 2(3), 279-291.
19. Nalbandian L., Delimitis A., Zaspalis V.T., Deliyanni E.A., Bakoyannnakis D.N. and Peleka E.N., 2008, Hydrothermally prepared nanocrystalline Mn-Zn ferrites: Synthesiss and characterization, Microporous and mesoporous materials, 114 (1-3), 465-473.
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Industrial and Engineering Chemistry Research, 50(2), 421-430.
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29. Zamboulis D., Peleka E.N., Lazaridis N.K. and Matis K.A., 2011, Metal ion separation and recovery from environmental sources using various flotation and sorption techniques, Journal of Chemical Technology and Biotechnology 86 (3), 335-344.
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31. Deliyanni E.A., Peleka E.N., Gallios G.P. and Matis K.A., 2011, A critical review of the separation of arsenic oxyanions from dilute aqueous solution (the contribution of LGICT), International Journal of Environment and Waste Management , 8(3-4), 286-304.
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36. Peleka E.N. and Matis K.A., 2016, Hydrodynamic aspects of flotation separation, Open Chemistrty, 14, 132-139.
37. Gkotsis P.K., Batsari E.L., Peleka E.N., Tolkou A.K. and Zouboulis A.I., 2017, Fouling control in a lab-scale MBR system: comparison of several commercially applied coagulants, Journal of Environmental Management, 203(2), 838-846.
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40. Peleka E.N., Gallios G.P., Matis K.A., 2018, A perspective on flotation: a review, Journal of Chemical Technology and Biotechnology.
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42. A.I. Zouboulis*, E.N. Peleka and A. Ntolia, 2019, Treatment of tannery wastewaters with vibratory shear enhanced processing membrane filtration, Separations 2019, 6, 20; doi:10.3390/separations6020020.

Βιβλία - Άρθρα σε βιβλία

1. Ζουμπούλης Α., Πελέκα Ε. Και Τριανταφυλλίδης Κ., 2015, Πράσινη χημεία και τεχνολογία στη βιώσιμη ανάπτυξη. [ηλεκτρ. βιβλ.] Αθήνα: Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών. Διαθέσιμο στο: http://hdl.handle.net/11419/2320.
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4. Deliyanni E.A., Peleka E.N. and Matis K.A., 2010, “Sorption of metal ions on aqueous solutions on fixed-beds of iron-based adsorbents” in Water treatment Technologies for the Removal of High-toxicity Pollutants, Springer Science & Business Media B.V.

Συμμετοχές σε διεθνή συνέδρια

1. Matis K.A., Peleka E.N., Lazaridis N.K. and Zamboulis D., 2002, "Removal of metal ions by zeolites and their MF/UF separation", in P. Misaelides (Ed.), Book of Abstracts, 6th Int. Conf. Occurrence, Properties and Utilization of Natural Zeolites (Zeolite '02, Thessaloniki, Greece, 3/6-6/6), pp.116.
2. Peleka E.N., Gallios G.P., Lazaridis N.K. and Matis K.A., 2002, "Simulation of Zn(II) and Cr(VI) Sorptive Flotation by Goethite", in P. Siskos (Ed.), Book of Abstracts, 8th FECS Conference on Chemistry and the Environment: Chemistry for a Sustaining World (Athens, Greece, 31/8-4/9), pp. 71-72.
3. Deliyanni E.A., Peleka E.N., Matis K.A. and Bakoyannakis D.N., 2002, "Removal of Arsenic and Cadmium by Akaganeite Fixed-beds", in P. Siskos (Ed.), Book of Abstracts, 8th FECS Conference on Chemistry and the Environment: Chemistry for a Sustaining World (Athens, Greece, 31/8-4/9), pp. 227-228.
4. Peleka E., Mavros P., Zamboulis D. and Matis K., 2002, "Removal of phosphoric ions from water by adsorption onto synthetic goethite", 25th anniversary years of the Chemistry Department of the University of Ioannina – 5th Conference "Basic and Applied Chemical Research", (Ioannina, Greece, 22/10-24/10).
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6. Peleka E., Lazaridis N., Mavros P., Zamboulis D. and Matis K., 2004, "Solid / liquid separation by a hybrid microfiltration flotation process", Book of abstracts, Protection and Restoration of the Environment VII (Myconos, Greece, 28/6-1/7).
7. Peleka F., Mavros P., Zamboulis D. and Matis K.A., 2004, "A new hybrid membrane – flotation cell for water treatment and purification", Book of abstracts, Water resources management: risks and challenges for the 21st century (Izmir, Turkey, 2/9-4/9), pp. 509-518.
8. Matis K.A., Peleka E., Mavros P. and V. Mavrov, 2004, "Metal ions recovery from industrial effluents: a new hybrid process", 36th International October Conference (Danube, Serbia, 29/9-2/10), pp. 638-647.
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10. Peleka E., Mavros P., Zamboulis D. and Matis K.A., 2005, "Removal of phosphates from water by a hybrid flotation – membrane filtration cell", 5th Pan Hellenic Scientific Conference of Chemical Engineering, (Thessaloniki, Greece, 26/5-28/5), pp. 85-88.
11. Peleka E.N., Lazaridis N.K., Mavros P. and Matis K.A., 2005, "A new hybrid flotation-microfiltration cell", Centenary of Flotation 2005 Symposium (Brisbane, Australia 5/6 – 9/6), pp. 251-256.
12. Peleka E.N., Lazaridis N.K., Mavros P., Zamboulis D. and Matis K.A., 2005, "A hybrid flotation – microfiltration cell for metal ions recovery", 7th World Congress of Chemical Engineeing (Secc, Glasgow, Scotland, 10/7-14/7).
13. Peleka E., Deliyanni E.A. and Matis K.A., 2005, "Removal of zinc ions from water by sorption onto iron-based nanoadsorbent", NATO Advanced Research Workshop, Combined and Hybrid Adsorbents: Fundamentals and Applications (Kiev, Ukraine, 15/9-17/9).
14. Peleka E., Mavros P., Zamboulis D. and Matis K.A., 2005, "Removal of phosphates from water by a hybrid flotation-membrane filtration cell", PERMEA–2005: Membrane Science and Technology Conference (Polanica Zdrój, Poland, 18/9-22/9).
15. Peleka E., Mavros P., Zamboulis D. and Matis K.A., 2005, "Removal of phosphates ions from water by a hybrid flotation-membrane filtration process", 2nd Macedonian Environmental Conference, (Thessaloniki, Greece, 8/10–12/10).
16. Peleka E.N., Mavros P., Matis K.A. and Mavrov V., 2005, "A hybrid flotation-microfiltration process for effluent treatment", MESAEP: 13th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region (Thessaloniki, Greece, 8/10–12/10).
17. Matis K.A., Lazaridis N.K., Peleka E.N. and Mavrov V., 2005, "A hybrid flotation-microfiltration cell for effluent treatment: a review", Pollution control and recourse reuse for a better tomorrow and sustainable economy (Shanghai, China, 18/10-21/10).
18. Deliyanni E.A., Peleka E.N. and Lazaridis N.K., 2005, "Sorption of phosphates onto

surfactant modified – akaganeite", International Conference of New Water Culture of South East European countries, (Athens, Greece, 21/10-23/10).

19. Peleka E.N., Mavros P. and Zamboulis D., 2006, "Effect of air sparging on the performance of a hybrid flotation - microfiltration membrane cell", Small scale wastewater treatment plants, (Portaria, Volos, Greece, 8/4 – 9/4).
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22. Peleka E.N. and K.A. Matis, 2007, "Application of flotation as a pretreatment process during desalination" Desalination and the Environment, (Sani, Halkidiki, Greece, 22/4-25/4).
23. Deliyanni E.A. , Peleka E.N. and Matis K.A., 2007, " Nanocrystalline hybrid surfactant-akaganéite: Preparation, structural analysis and sorption", 1st Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) (Skiathos, Greece, 24/6-28/6).]
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26. E.N. Peleka, P. Mavros, A.I. Zouboulis and K.A. Matis, 2008, "A Hybrid flotation-microfiltration cell for effluent treatment" Small and Decentralized Water and Wastewater Treatment Units (Skiathos, Greece, 2/5-4/5).
27. E.N. Peleka, T. Karapantsios, M. Kostoglou and K.A. Matis, 2008, "Particle – bubble interactions in flotation systems", Cost P21: Coating and protecting droplets (Capri, Italy, 12/5-16/5).
28. E.A. Deliyanni E.N. Peleka and K.A. Matis, 2008, "Akaganeite sorption process for the removal of surfactants from water" Protection and restoration of the environment IX (Kefalonia, Greece, 29/6-3/7).
29. E.N. Peleka, T. Karapantsios, M. Kostoglou and K.A. Matis, 2008, "Collision and Attachment of Particles on Bubbles in Flotation Systems" Eufoam Conference (Noordwijk, The Netherlands, 8/7-10/7).
30. E.N. Peleka, M.I. Spantidaki and K.A. Matis, 2008, "Metals biosorption and separation in a novel unit" AQUA 2008, 3rd International Conference Water Science and Technology with emphasis on water & climate (Athens, 16-19/07/2008).
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32. E.N. Peleka and K.A. Matis, 2009, "Water separation process and sustainability", 3rd Symposium of Green Chemistry and Sustainable Development (Thessaloniki, 25 – 27/09/2009).
33. E.N. Peleka and K.A. Matis, 2009, "Water Separation Processes and Sustainability", Symposium on New Frontiers in Chemical & Biochemical Engineering", (Thessaloniki, 26-27/11/2009)
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