Βιογραφικό-Ιωάννης Φωτίδης

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ReasercherID: J-7284-2016, **Scopus Author ID:** 26641019500, **Scholar profile**

Κύρια Ερευνητικά Πεδία

- Ανανεώσιμες μορφές ενέργειας.
- Διαχείριση αποβλήτων.
- Κυκλική οικονομία και Βιοοικονομία.
- Βελτιστοποίηση των διαδικασιών αναερόβιας αποικοδόμησης.

Εργασιακή Εμπειρία

2024- **Επίκουρος Καθηγητής**, Τμήμα Γεωπονίας, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (Γνωστ. αντ. «Ανανεώσιμες Μορφές Ενέργειας στη Γεωργία»).

2021-Παρόν **Επίκουρος Καθηγητής**, Τμήμα Περιβάλλοντος, Ιόνιο Πανεπιστήμιο (Γνωστ. αντ. «Μηχανική Περιβάλλοντος με Έμφαση στη Διαχείριση Αποβλήτων»).

2019-Παρόν **Επισκέπτης Καθηγητής,** Σχολή Πολιτικών Μηχανικών, Νοτιοανατολικό Πανεπιστήμιο, Ναντζίνγκ, Κίνα.

2021-2021 **Αναπληρωτής Καθηγητής**, Σχολή Μηχανικών και Φυσικών Επιστημών, Επιστήμη Υλικών και Μηχανική Περιβάλλοντος, Πανεπιστήμιο Τάμπερε, Φιλανδία.

2018-2021 **Αναπληρωτής Καθηγητής**, Τμήμα Μηχανικών Περιβάλλοντος, Τεχνολογικό Πανεπιστήμιο Δανίας (DTU).

2016-2018 **Ανώτερος Ερευνητής**, Τμήμα Μηχανικών Περιβάλλοντος, DTU.

2010-2016 **Μόνιμος Ερευνητής και Μεταδιδακτορικός Ερευνητής**, Τμήμα Μηχανικών Περιβάλλοντος, DTU.

2008-2010 **Επιστημονικός Συνεργάτης**, Τμήμα Γεωπονίας, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (ΑΠΘ), Ελλάδα.

2008-2009 **Γεωπόνος**, Ελληνικός Οργανισμός Γεωργικής Ασφάλισης (ΕΛΓΑ).

2007-2008 **Στρατιωτική θητεία**

2006-2007 **Γεωπόνος**, Ελληνικός Οργανισμός Γεωργικής Ασφάλισης (ΕΛΓΑ).

2006-2008 **Επιστημονικός Συνεργάτης**, Τμήμα Γεωπονίας, ΑΠΘ, Ελλάδα.

Πτυχία

2011 **Διδακτορικό Δίπλωμα (PhD)**-Γεωργικής Μηχανικής και Υδατικών Πόρων, Τμήμα Γεωπονίας, ΑΠΘ, Ελλάδα.

2012 **Μεταπτυχιακό Δίπλωμα (MSc)**-Διαχείριση Αποβλήτων, Τμήμα Επιστήμης και Τεχνολογίας, Ελληνικό Ανοικτό Πανεπιστήμιο, Ελλάδα.

2008 **Μεταπτυχιακό Δίπλωμα (MSc)**-Γεωργικής Μηχανικής και Υδατικών Πόρων, Τμήμα Γεωπονίας, ΑΠΘ.

2004 **Μεταπτυχιακό Δίπλωμα (MEng) και Πτυχίο (BSc)**, Τμήμα Γεωπονίας, ΑΠΘ.

2019 **Δίπλωμα-Εκπαίδευση στην πανεπιστημιακή διδασκαλία-UDTU**, LearningLab, DTU.

2018 **Δίπλωμα-Η Διαδικασία Επίβλεψης Διδακτορικού: Μέθοδοι και Εργαλεία**, LearningLab, DTU.

2013 **Πιστοποιητικό-Επίβλεψη Φοιτητών-από Προπτυχιακό έως Διδακτορικό επίπεδο,** LearningLab, DTU.

2013 **Δίπλωμα-Εκπαιδευτικό Πρόγραμμα Βοηθού Διδασκαλίας στο DTU**, LearningLab, Τεχνολογικό DTU.

Υποτροφίες

2024 **Κινητικότητα προσωπικού Erasmus+ για διδασκαλία και κατάρτιση**, University in Córdoba, Spain.

2023 **Κινητικότητα προσωπικού Erasmus+ για διδασκαλία και κατάρτιση**, Τεχνολογικό Πανεπιστήμιο Κύπρου.

2019 **Υποτροφία Ακαδημαϊκής Κινητικότητας από το ίδρυμα Otto Mønsted**, 16ο συνέδριο αναερόβιας αποικοδόμησης στο Ντελφτ, Ολλανδία.

2019 **Κινητικότητα προσωπικού Erasmus+ για διδασκαλία και κατάρτιση**, Τεχνολογικό Πανεπιστήμιο Κύπρου.

2017 **Υποτροφία Ακαδημαϊκής Κινητικότητας από το ίδρυμα Otto Mønsted**, 15ο συνέδριο αναερόβιας αποικοδόμησης στο Πεκίνο, Κίνα.

2017 **Κινητικότητα προσωπικού Erasmus+ για διδασκαλία και κατάρτιση,** ΑΠΘ, Ελλάδα.

2015 **Υποτροφία Ακαδημαϊκής Κινητικότητας από το ίδρυμα Otto Mønsted**, 14ο συνέδριο αναερόβιας αποικοδόμησης στο Βίνα ντελ Μαρ, Χιλή.

2008 **Πλήρης Υποτροφία για διδακτορικές σπουδές στο πεδίο Γεωργικές Κατασκευές**, Ίδρυμα Κρατικών Υποτροφιών (ΙΚΥ).

2009 **Κινητικότητα Erasmus για υποψήφιους διδάκτορες**, DTU.

2004 **Πλήρης Υποτροφία για μεταπτυχιακές σπουδές στο πεδίο Γεωργικές Κατασκευές**, ΙΚΥ.

Συμμετοχή σε Χρηματοδοτημένα Ερευνητικά Έργα

2023 MicroPower (PI). Bioaugmentation of specialized microbial consortia to optimize the overall anaerobic digestion process, Basic Research Financing Action (Horizontal support of all Sciences),Sub-action 1. Funding New Researchers, Hellenic Foundation for Research and Innovation (no. 15547), €164.922

2022 CYANOTECH (Co-author). A sustainable and innovative management system for toxic cyanobacteria blooming of surface waters with combined energy production, sustainable agriculture, and food safety, Excellence Hubs (Bridge Programmes)/RESTART, EU & Cyprus, €200.000.

2018 LyoCH_4 (PI). Development of novel lyophilized bioaugmentation inocula to alleviate ammonia toxicity in anaerobic reactors. National Natural Science Foundation of China, €51.000.

2014 WASTE-TREAT. (Role: Design and supervision the of biomethanation of high salinity waste activities). Cost effective solutions for End-of-pipe treatment in salt water RAS. GUDP, 39190. €753.352.

2014 Microbe$StopNH_3$ (Primer author). Innovative bioaugmentation strategies to tackle ammonia inhibition in an-aerobic digestion process. ForskEL, €744.000.

2014 MEMENTO (Role: Design and supervision the FO-AnMBRs pilot reactor activities). Membrane Energy Technology Operations. Innovation Fund Denmark, 4106-00021B. €1.603.000.

2014 ElectroAD (Role: High ammonia anaerobic digestion processes). Innovative bioelectrochemical-anaerobic-digestion coupled system for ammonia recovery and energy production from ammonia-rich residues. DFF, €854.000.

2012 GREEN-AgriChains (Role: External research participant, design, and supervision of specific biomethanation experiments). Innovation Capacity Building by Strengthening Expertise and Research in the Design, Planning and Operations of Green Agrifood Supply Chains. FP7, 316167.

2012 ECO-India (Participant). Energy-efficient, community-based water- and wastewater-treatment systems for deployment in India. FP7 EU, €2.257.195.

2012 Bioenergy Zealand (Role: External research participant, design, and supervision of specific biomethanation experiments). The European Fund for Regional Development, and Growth Forum Zealand. Approx., €215.000.000.

2010 Ammonia Project (Role: Responsible for all project activities). Innovative process for digesting high ammonia wastes. EnergiNet Denmark-ForskEL, 2010-10537. Approx. €340.000.

2008 Application of thermal heating and utilization of the greenhouse installation zone (ZETH) of Ptolemaida municipality (Role: Research assistance, data collection). Aristotle University of Thessaloniki, Funded by Municipality of Ptolemaida and Municipal Heating Company of Ptolemaida.

2006 Creation of a joint postgraduate educational program for graduates of geotechnical and polytechnic schools-Subproject 1 (Role: Research assistance, data collection). Aristotle University of Thessaloniki, INTERREG IIIA/CARDS.

H-index 30 στο Scholar (3962 αναφορές) και 29 στο Scopus (3062 αναφορές)

Δημοσιεύσεις

49 δημοσιεύσεις ISI (Οκτώβριος 2024) σε γνωστά διεθνή επιστημονικά περιοδικά (π.χ. Renewable & Sustainable Energy Reviews (IF: 16.3), Chemical Engineering Journal (IF: 13.3), Journal of Hazardous Materials (IF: 12.2), Water Research (IF: 11.4), Environmental Science & Technology (IF: 10.8), Bioresource Technology (IF: 9.7), Journal of Cleaner Production (IF: 9.7), κ.α.).

1. Yan, Y., **Fotidis, I. A.**, Fu, D., & Singh, R. P. (2024). Can ozone mass transfer in water treatment be enhanced through independent pressurized ozonation? Journal of Environmental Chemical Engineering, 12(5), 113714. https://doi.org/10.1016/J.JECE.2024.113714

2. Wang, F., Pan, T., Fu, D., **Fotidis, I. A.**, Moulogianni, C., Yan, Y., & Singh, R. P. (2024). Pilot-scale membrane-covered composting of food waste: Initial moisture, mature compost addition, aeration time and rate. Science of The Total Environment, 926, 171797. https://doi.org/10.1016/J.SCITOTENV.2024.171797
3. Yan, Y., Kallikazarou, N. I., Tzenos, C., Kotsopoulos, T. A., Koutsokeras, L., Kokkinidou, DespoinaA., Michael, C., Constantinides, G., Anayiotos, A. S., Botsaris, G., Nisiforou, O., Antoniou, M. G., & **Fotidis, I. A.** (2023). Pilot-scale biogas and in-situ struvite production from pig slurry: A novel integrated approach. Journal of Cleaner Production, 431, 139656. https://doi.org/10.1016/J.JCLEPRO.2023.139656
4. Wang, H., Yan, Q., Zhong, X., Angelidaki, I., & **Fotidis, I. A.** (2023). Metabolic responses and microbial community changes to long chain fatty acids: Ammonia synergetic co-inhibition effect during biomethanation. Bioresource Technology, 386, 129538. https://doi.org/10.1016/J.BIORTECH.2023.129538
5. Yan, Y., Yan, M., Angelidaki, I., Fu, D.; Fotidis, I. A*. (2022). Osmoprotectants boost adaptation and protect methanogenic microbiome during ammonia toxicity events in continuous processes. Bioresource Technology, 364, 128106. https://doi.org/10.1016/J.BIORTECH.2022.128106
6. Yan, Y., Yan, M., Ravenni, G., Angelidaki, I., Fu, D., Fotidis, I. A*. (2022). Biochar enhanced bioaugmentation provides long-term tolerance under increasing ammonia toxicity in continuous biogas reactors. Renewable Energy, 195, 590–597. https://doi.org/10.1016/J.RENENE.2022.06.071
7. Yan, Y., Yan M., Ravenni G., Angelidaki I., Fu, D, **Fotidis, I. A.*** (2022). Novel bioaugmentation strategy boosted with biochar to alleviate ammonia toxicity in continuous biomethanation. Bioresource Technology, 343, 126146. https://doi.org/10.1016/J.BIORTECH.2021.126146
8. Wang, H., **Fotidis, I. A.***, Yan, Q., Angelidaki, I. (2021). Feeding strategies of continuous biomethanation processes during increasing organic loading with lipids or glucose for avoiding potential inhibition. Bioresource Technology, 327, 124812. https://doi.org/10.1016/J.BIORTECH.2021.124812
9. Yan, M., Zhu, X., Treu, L., Ravenni, G., Campanaro, S., Goonesekera, E. M., Ferrigno, R., Jacobsen, C. S., Zervas, A., Angelidaki, I., **Fotidis, I. A.*** (2021). Comprehensive evaluation of different strategies to recover methanogenic performance in ammonia-stressed reactors. Bioresource Technology, 336, 125329. https://doi.org/10.1016/J.BIORTECH.2021.125329
10. Mancini, E., Tian, H., Angelidaki, I., **Fotidis, I. A.*** (2021). The implications of using energy-rich industrial wastewaters as biomethanation feedstocks. Renewable & Sustainable Energy Reviews, 144, 110987. https://doi.org/10.1016/j.rser.2021.110987
11. Schneider, C., Oñoro, A.E., Hélix-Nielsen, C., **Fotidis, I. A.*** (2021). Start-up of forward-osmosis anaerobic-membrane bioreactors for brewery wastewater remediation. Separation and Purification Technology, 257, 15, 117786. https://doi.org/10.1016/j.seppur.2020.117786
12. Hatami, B., Ebrahimi, A., Ehrampoush, M.H., Salmani, M.H., Dalvand, A., Pirmoradi, N., Angelidaki, I., **Fotidis, I. A.**, Mokhtari, M., (2021). Recovery of Intermittent Cycle Extended Aeration System Sludge by Conversion into Biodiesel by in-situ transesterification. Renewable Energy, 163, 56-65. https://doi.org/10.1016/j.renene.2020.08.116
13. Yan, M., Treu, L., Zhu, X., **Fotidis, I. A.**, Tian, H., Campanaro, S., Angelidaki, I., (2020). Insights into ammonia adaptation and methanogenic precursor oxidation by genome-guided analysis. Environmental Science and Technology, https://doi.org/10.1021/acs.est.0c01945
14. Letelier-Gordo, C.O., Mancini, E., Pedersen, P.B., Angelidaki, I., **Fotidis, I. A.*** (2020). Saline fish wastewater in biogas plants-Biomethanation toxicity and safe use. Journal of Environmental Management, 275, 111233. https://doi.org/10.1016/j.jenvman.2020.111233
15. Yan, M., Treu, L., Campanaro, S., Tian, H., Zhu, X., Khoshnevisan, B., Tsapekos, P., Angelidaki, I., **Fotidis, I. A.*** (2020). Effect of ammonia on anaerobic digestion of municipal solid waste: inhibitory performance, bioaugmentation and microbiome functional reconstruction. Chemical Engineering Journal, 401, 126159. https://doi.org/10.1016/j.cej.2020.126159
16. Garcia-Aguirre, J., Alvarado-Morales, M., **Fotidis, I. A.**, Angelidaki, I., (2020). Up-concentration of succinic acid, lactic acid, and ethanol fermentations broths by forward osmosis. Biochemical Engineering Journal, 155, 107482. https://doi.org/10.1016/j.bej.2019.107482

17. Yan, M., **Fotidis, I. A.***, Jéglot, A., Treu, L., Tian, H., Palomo, A., Zhu, X., Angelidaki, I., (2020). Long-term preserved and rapidly revived methanogenic cultures: Microbial dynamics and preservation mechanisms. Journal of Cleaner Production, 121577. https://doi.org/10.1016/j.jclepro.2020.121577
18. Tian, H., Treu, L., Konstantopoulos, K., **Fotidis, I. A.***, Angelidaki, I., (2019). 16s rRNA gene sequencing and radioisotopic analysis reveal the composition of ammonia acclimatized methanogenic consortia. Bioresource Technology, 272, 54-62. https://doi.org/10.1016/j.biortech.2018.09.128
19. Omar, B., El-Gammal, M., Abou-Shanab, R., **Fotidis, I. A.**, Angelidaki, I., Zhang, Y., (2019). Biogas upgrading and biochemical production from gas fermentation: impact of microbial community and gas composition. Bioresource Technology, 286, 121413. https://doi.org/10.1016/j.biortech.2019.121413
20. Yan, M., **Fotidis, I. A.***, Tian, H., Khoshnevisan, B., Treu, L., Tsapekos, P., Angelidaki, I., (2019). Acclimatization contributes to stable anaerobic digestion of organic fraction of municipal solid waste under extreme ammonia levels: Focusing on microbial community dynamics. Bioresource Technology, 286, 121376. https://doi.org/10.1016/j.biortech.2019.121376
21. Tian, H., Mancini, E., Treu, L., Angelidaki, I., **Fotidis, I. A.***, (2019). Bioaugmentation strategy for overcoming ammonia inhibition during biomethanation of a protein-rich substrate. Chemosphere, 231, 415-422. https://doi.org/10.1016/j.chemosphere.2019.05.140
22. Tian, H., Yan, M., Treu, L., Angelidaki, I., **Fotidis, I. A.***, (2019). Hydrogenotrophic methanogens are the key for a successful bioaugmentation to alleviate ammonia inhibition in thermophilic anaerobic digesters. Bioresource Technology, 293, 122070. https://doi.org/10.1016/j.biortech.2019.122070
23. Tian, H., **Fotidis, I. A.***, Kissas, K., Angelidaki, I., (2018). Effect of different ammonia sources on aceticlastic and hydrogenotrophic methanogens. Bioresource Technology, 250, 390-397. https://doi.org/10.1016/j.biortech.2017.11.081
24. Tian, H., **Fotidis, I. A.***, Mancini, E., Treu, L., Mahdy, A., Ballesteros, M., González-Fernández, C., Angelidaki, I., (2018). Acclimation to extremely high ammonia levels in continuous biomethanation process and the associated microbial community dynamics. Bioresource Technology, 247, 616-623. https://doi.org/10.1016/j.biortech.2017.09.148
25. Podevin, M., **Fotidis, I. A.**, Angelidaki, I. (2018). Microalgal process-monitoring based on high-selectivity spectroscopy tools: status and future perspectives. Critical Reviews in Biotechnology, 38, 704-718. https://doi.org/10.1080/07388551.2017.1398132
26. Omar, B., Abou-Shanab, R., El-Gammal, M., **Fotidis, I. A.**, Kougias, P.G., Zhang, Y., Angelidaki, I., (2018). Simultaneous biogas upgrading and biochemicals production using anaerobic bacterial mixed cultures. Water Research, 142, 86-95. https://doi.org/10.1016/j.watres.2018.05.049
27. Tian, H., Karachalios, P., Angelidaki, I., **Fotidis, I. A.***, (2018). A proposed mechanism for the ammonia-LCFA synergetic co-inhibition effect on anaerobic digestion process. Chemical Engineering Journal, 349, 574-580. https://doi.org/10.1016/j.cej.2018.05.083
28. Mahdy, A., **Fotidis, I. A.***, Mancini, E., Ballesteros, M., González-Fernández, C., Angelidaki, I. (2017). Ammonia tolerant inocula provide a good base for anaerobic digestion of microalgae in 3rd generation biogas process. Bioresource Technology, 225: 272-278. https://doi.org/10.1016/j.biortech.2016.11.086
29. Podevin, M., **Fotidis, I. A.**, De Francisci, D., Møller, P., Angelidaki, I. (2017). Detailing the start-up and microalgal growth performance of a full-scale photobioreactor operated with bioindustrial wastewater. Algal Research, 25, 101-108. https://doi.org/10.1016/j.algal.2017.04.030
30. **Fotidis, I. A.***, Treu, L., Angelidaki, I. (2017). Enriched ammonia-tolerant methanogenic cultures as bioaugmentation inocula in continuous biomethanation processes. Journal of Cleaner Production, 166, 1305-1313. https://doi.org/10.1016/j.jclepro.2017.08.151
31. Murray A.M., **Fotidis, I. A.***, Isenschmid A., Haxthausen K.R.A., Angelidaki I. (2017). Wirelessly powered submerged-light illuminated photobioreactors for efficient microalgae cultivation. Algal Research, 25, 244-251. https://doi.org/10.1016/j.algal.2017.05.015
32. Tian, H., **Fotidis, I. A.***, Mancini, E., Angelidaki, I., (2017). Different cultivation methods to acclimatise ammonia-tolerant methanogenic consortia. Bioresource Technology, 232, 1-9. https://doi.org/10.1016/j.biortech.2017.02.034

33. Kovalovszki, A., Alvarado-Morales, M., **Fotidis, I. A.**, Angelidaki, I., (2017). A systematic methodology to extend the applicability of a bioconversion model for the simulation of various co-digestion scenarios. Bioresource Technology, 235, 157-166. https://doi.org/10.1016/j.biortech.2017.03.101
34. Wang, H., **Fotidis, I. A.***, and Angelidaki, I. (2016). Ammonia-LCFA synergetic co-inhibition effect in manure-based continuous biomethanation process. Bioresource Technology, 209: 282-289. https://doi.org/10.1016/j.biortech.2016.03.003
35. Luo, G., **Fotidis, I. A.**, and Angelidaki, I. (2016). Comparative analysis of taxonomic, functional, and metabolic patterns of microbiomes from 14 full-scale biogas reactors by metagenomic sequencing and radioisotopic analysis. Biotechnology for Biofuels, 9: 1-12. https://doi.org/10.1186/s13068-016-0465-6
36. **Fotidis, I. A.***, Laranjeiro, T.F.V.C., and Angelidaki, I. (2016). Alternative co-digestion scenarios for efficient fixed-dome reactor biomethanation processes. Journal of Cleaner Production, 127: 610-617. https://doi.org/10.1016/j.jclepro.2016.04.008
37. Holliger, C., Alves, M., Andrade, D., Angelidaki, I., Astals, S., Baier, U., Bougrier, C., Buffière, P., Carballa, M., de Wilde, V., Ebertseder, F., Fernández, B., Ficara, E., Fotidis, I. et al. (2016). Towards a standardization of biomethane potential tests. Water Science and Technology, 74, 2512-2522. https://doi.org/10.2166/wst.2016.336
38. Alvarado-Morales, M., Gunnarsson, I. B., **Fotidis, I. A.**, Vasilakou, E., Lyberatos, G., & Angelidaki, I. (2015). Laminaria digitata as a potential carbon source for succinic acid and bioenergy production in a biorefinery perspective. Algal Research, 9, 126-132. https://doi.org/10.1016/j.algal.2015.03.008
39. Flores, G.A.E., **Fotidis, I. A.**, Karakashev, D.B., Kjellberg, K., Angelidaki, I. (2015). Effects of Benzalkonium Chloride, Proxel LV, P3 Hypochloran, Triton X-100 and DOWFAX 63N10 on anaerobic digestion processes. Bioresource technology, 193, 393-400. https://doi.org/10.1016/j.biortech.2015.06.125
40. Søndergaard, M.M., **Fotidis, I. A.***, Kovalovszki, A., Angelidaki, I. (2015). Anaerobic co-digestion of agricultural byproducts with manure for enhanced biogas production. Energy & Fuels, 29, 8088-8094. https://doi.org/10.1021/acs.energyfuels.5b02373
41. Symsaris, E.C., **Fotidis, I. A.**, Stasinakis, A.S., Angelidaki, I. (2015). Effects of triclosan, diclofenac, and nonylphenol on mesophilic and thermophilic methanogenic activity and on the methanogenic communities. Journal of Hazardous Materials, 291, 45-51. https://doi.org/10.1016/j.jhazmat.2015.03.002
42. Wang, H., **Fotidis, I. A.**, Angelidaki, I. (2015). Ammonia effect on hydrogenotrophic methanogens and syntrophic acetate oxidizing bacteria. FEMS Microbiology Ecology, 91. https://doi.org/10.1093/femsec/fiv130
43. **Fotidis, I. A.**, Karakashev, D., Angelidaki, I. (2014). The dominant acetate degradation pathway/methanogenic composition in full-scale anaerobic digesters operating under different ammonia levels. International Journal of Environmental Science and Technology, 11, 2087-2094. https://doi.org/10.1007/s13762-013-0407-9
44. **Fotidis, I. A.**, Wang, H., Fiedel, N.R., Luo, G., Karakashev, D.B., Angelidaki, I. (2014) Bioaugmentation as a solution to increase methane production from an ammonia-rich substrate. Environmental Science and Technology, 48, 7669-76. https://doi.org/10.1021/es5017075
45. **Fotidis, I. A.**, Karakashev, D., Kotsopoulos, T.A., Martzopoulos, G.G., Angelidaki, I. (2013). Effect of ammonium and acetate on methanogenic pathway and methanogenic community composition. FEMS Microbiology Ecology, 83, 38-48. https://doi.org/10.1111/j.1574-6941.2012.01456.x
46. **Fotidis, I. A.**, Kougias, P.G., Zaganas, I.D., Kotsopoulos, T.A., Martzopoulos, G.G. (2014). Inoculum and zeolite synergistic effect on anaerobic digestion of poultry manure. Environmental Technology, 35, 1219-1225. https://doi.org/10.1080/09593330.2013.865083
47. Kougias, P., **Fotidis, I. A.**, Zaganas, I., Kotsopoulos, T., Martzopoulos, G. (2013). Zeolite and swine inoculum effect on poultry manure biomethanation. International Agrophysics, 27, 169-173. https://doi.org/10.2478/v10247-012-0082-y
48. **Fotidis, I. A.**, Karakashev, D., Angelidaki, I. (2013). Bioaugmentation with an acetate-oxidising consortium as a tool to tackle ammonia inhibition of anaerobic digestion. Bioresource Technology, 146, 57-62. https://doi.org/10.1016/j.biortech.2013.07.041

49. Kotsopoulos, T.A., **Fotidis, I. A.**, Tsolakis, N., Martzopoulos, G.G. (2009). Biohydrogen production from pig slurry in a CSTR reactor system with mixed cultures under hyper-thermophilic temperature (70°C). Biomass and Bioenergy, 33, 1168-1174. https://doi.org/10.1016/j.biombioe.2009.05.001