



### Academic Personnel Short Profile / Short CV

|                             |  |
|-----------------------------|--|
| <b>University:</b>          | Cyprus University of Technology                    |
| <b>Surname:</b>             | Vyrides  |
| <b>Name:</b>                | Ioannis  |
| <b>Rank/Position:</b>       | Assistant Professor                                |
| <b>Faculty:</b>             | Geotechnical Sciences and Environmental Management |
| <b>Department:</b>          | Chemical Engineering                               |
| <b>Scientific Domain: *</b> | Chemical Engineering/Environmental Engineering     |

*\* Field of Specialization*

### Academic qualifications (list by highest qualification)

| Qualification                            | Year | Awarding Institution                                   | Department           | Thesis title (Optional Entry)   |
|--|------|--|----------------------|---|
| PhD                                      | 2009 | Imperial College London, UK                            | Chemical Engineering | Treatment of saline organic wastewater by a Submerged Anaerobic Membrane Bioreactor (SAMBR) |
| Diploma / Master in Chemical Engineering | 2005 | National Technical University of Athens (NTUA), Greece | Chemical Engineering |   |



### Employment history in Academic Institutions/Research Centers – List by the three (3) most recent

| Period of employment |               | Employer  | Location  | Position                                   |
|----------------------|---------------|---|-----------|--|
| From                 | To            |   |           |  |
| September 2010       | December 2010 | Cyprus University of Technology                                   | Cyprus    | Visiting Lecturer                          |
| May 2010             | August 2010   | Imperial College London (UK) - Department of Chemical Engineering | London UK | Postdoctoral Research (Research Associate) |
| April 2009           | April 2020    | Kings College London (UK) – Institute of Pharmaceutical Science   | London UK | Postdoctoral Research (Research Associate) |

**Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)**

| Ref. Number | Year | Title   | Other authors  | Journal and Publisher / Conference            | Vol. | Pages       |
|-------------|------|---|--|---|------|-------------|
| 1           | 2022 | Magnesium ribbon and anaerobic granular sludge for conversion of CO <sub>2</sub> to CH <sub>4</sub> or biogas upgrading                                 | Andronikou, M., Adamou, V., Koutsokeras, L., Constantinides, G | Chemical Engineering Journal                  | 435  | 13488<br>8  |
| 2           | 2022 | Microbial electrolysis cell coupled with anaerobic granular sludge: A novel technology for real bilge water treatment.,                                 | Gatidou, G., Samanides, C.G., Fountoulakis, M.S                | Chemosphere                                   | 296  | 13398<br>8. |
| 3           | 2022 | Calcined eggshells in anaerobic digestion: buffering acidification in AD and evaluating end products from phosphate adsorption as soil conditioners.    | Photiou, P.  | Journal of Environmental Chemical Engineering | 21   | 10795<br>7  |
| 4           | 2022 | Treatment of high-strength saline bilge wastewater by four pilot-scale aerobic moving bed biofilm reactors and comparison of the microbial communities. | Mazioti  | Environmental Technology.                     |      | 1-15        |
| 5           | 2022 | Dairy wastewater management in EU: Produced amounts,  | Stasinakis, A.S., Charalambous, P                              | Journal of environmental management,          | 303  | 11415<br>2. |

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|    |      | existing legislation, applied treatment processes and future challenges.  |   |  |     |             |
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| 7  | 2021 | . Phosphate removal from synthetic and real wastewater using thermally treated seagrass residues of Posidonia oceanica.   | Photiou, P., Koutsokeras, L., Constantinides, G., Koutinas, M. and                                | Journal of Cleaner Production          | 278 | 12329<br>4  |
| 8  | 2020 | Anaerobic granular sludge and zero valent scrap iron (ZVSI) pre-treated with green tea as a sustainable system for conversion of CO <sub>2</sub> to CH <sub>4</sub> . | Menikea, K.K., Kyprianou, A., Samanides, C.G., Georgiou, S.G., Koutsokeras, L., Constantinides, G | Journal of Cleaner Production          |     | 12186<br>0. |
| 9  | 2020 | Methanogenesis Inhibition in Anaerobic Granular Sludge for the Generation of Volatile Fatty Acids from CO <sub>2</sub> and Zero Valent Iron.                          | Samanides, C.G., Koutsokeras, L., Constantinides, G.  | Frontiers in Energy Research.          | 8   | 37          |
| 10 | 2018 | CO <sub>2</sub> conversion to CH <sub>4</sub> using Zero Valent Iron (ZVI) and anaerobic granular sludge:   | Andronikou, M., Kyprianou, A., Modic, A., Filippeti, A.,  | Journal of CO <sub>2</sub> Utilization | 27  | 415-<br>422 |



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ  
CYPRUS AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION



|  |  |  |                                  |  |  |  |
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|  |  | Optimum batch conditions and microbial pathways. | Yiakoumis, C., & Samanides, C. G |  |  |  |
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| Exhibitions (where applicable). List the five (5) more recent and other five (5) selected.<br>(max total 10) |      |       |                       |           |                    |
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| Ref. Number  | Date | Topic | International / Local | Location* | Role in Exhibition |
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*\*Specify venue, geographic location etc*

| Research Projects. List the five (5) more recent and other five (5) selected (max total 10) |                              |   |  |                                       |
|---|------------------------------|---|--|---------------------------------------|
| Ref. Number   | Date                         | Title   | Funded by  | Project Role*                         |
| 1   | June 2022-December 2023      | On the Market of BioMethane as a Drop-In-Marine-BioFuel: Developing a Virtual Gas-Grid Solution                                       | Cyprus RIF ENTERPRISES/0521/0162   | Scientific coordinator for CUT        |
| 2   | February 2022-February 2022. | “IroNGaSweetening”, Cyprus,   | RIF CONCEPT-HYDRO/0421/014   | Scientific coordinator of the project |
| 3   | November 2018-April 2022,    | Utilization of CO2 through novel BioElectroCathode systems for production of biofuels (CH4 and ethanol). “BElectroCathode”, ,         | Cyprus RIF, P2P/M-ERA.NET/0317/0008  | Scientific coordinator of the project |
| 4   | April 2019-March 2022,       | Sulphur removal from oil by Biodesulfurization (BDS) technology, “OilEcoDesulfur”,.   | Cyprus RIF POST-DOC/0916/0121  | Scientific coordinator for CUT        |
| 5   | March 2020-February 2022     | Development of A Novel Submerged Anaerobic Electrochemical Membrane Bioreactor (e-SAnMBR) for bilge water treatment, “ElectroSAnMBR”, | Marie Curie Individual Fellowship to Dr Georgia Gatidou to be hosted at Environmental Engineering laboratory | Scientific coordinator of the project |

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| 6 | January 2019-April 2021,     | Treatment of Bilge Water using Submerged Anaerobic Membrane Bioreactor (SAnMBR) and aerobic Moving Bed Biofilm Reactor (MBBR), "MicrobEatBilge" | Cyprus RIF, OPPORTUNITY/0916/MSCA/0006         | Scientific coordinator of the project |
| 7 | October 2017-December 2020,  | A digital Solid waste reuse platform for Balkan, "S.W.A.N" INTERREG V-B "BALKAN MEDITERRANEAN 2014-2020",                                       | INTERREG V-B "BALKAN MEDITERRANEAN 2014-2020", | Scientific coordinator for CUT        |
| 8 | September 2017-November 2020 | Optimization of decentralized domestic wastewater treatment and sanitation via Constructed Wetlands, "DOMUS_CW"                                 | INTERREG V-B "BALKAN MEDITERRANEAN 2014-2020"  | Scientific coordinator for CUT        |
| 9 | May 2019-December 2020       | On the Market of BioMethane as a Renewable Transport Fuel: An Off-Grid Mobile Solution."  | Cyprus RIF Waste-toWheel" START-UPS/0618/0027  | Scientific coordinator for CUT        |

*\*Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*



| <b>Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees.<br/>List the five (5) more recent (Optional Entry)</b> |               |                         |  |                       |
|---|---------------|-------------------------|--|-----------------------|
| <b>Ref. Number</b>  | <b>Period</b> | <b>Organization</b>     | <b>Title of Position or Service</b>  | <b>Key Activities</b> |
|   | 2022-now      |                         | Representative for CUT in Limassol Municipality's Participation in the EU Mission for 100 'Climate Neutral and Smart Cities' |                       |
| 1   | 2018-now      |                         | Member of the committee for the Pancyprian Environmental Awards for Organizations and Businesses – EnvAwards                 |                       |
| 2   | 2019-2020     | Ministry of Agriculture | Member of an ad hoc committee regarding waste management   |                       |



**Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected.  
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| Ref. Number | Date             | Title   | Awarded by:   |
|-------------|------------------|---|---|
| 1           | June - July 2012 | Project "Adaptation Mechanism of <i>Thermus thermophiles</i> to extreme environment", University of Limerick (Ireland), | European Molecular Biological Organization (EMBO) short term fellowship |
| 2           | 2005-2009        | PhD Scholarship   | A.G. Leventis Foundation  |
| 3           |                  |   |   |



| Other Achievements. List the five (5) more recent and other five (5) selected.<br>(max total 10) (Optional Entry) |                         |   |                 |
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| 1   | 29 - 31<br>October 2014 | <b>Organization of The second Training School of the COST Action Water 2020</b><br>titled "Wastewater Resource Recovery Technologies", Nicosia, Cyprus<br>Participation of 20 international and 20 local students |                 |
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| <b>University:</b>          | Τεχνολογικό Πανεπιστήμιο Κύπρου                           |
| <b>Surname:</b>             | Βυρίδης   |
| <b>Name:</b>                | Ιωάννης   |
| <b>Rank/Position:</b>       | Επίκουρη Καθηγήτρια                                       |
| <b>Faculty:</b>             | Σχολή Γεωτεχνικών Επιστημών και Διαχείρισης Περιβάλλοντος |
| <b>Department:</b>          | Χημικών Μηχανικών   |
| <b>Scientific Domain: *</b> | Χημική Μηχανική/Περιβαλλοντική Μηχανική Engineering       |

*\* Field of Specialization*

### Academic qualifications (list by highest qualification)

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| PhD                                | 2009 | Imperial College London, UK               | Chemical Engineering    | Treatment of saline organic wastewater by a Submerged Anaerobic Membrane Bioreactor (SAMBR) |
| Δίπλωμα / Μάστερ Χημικού Μηχανικού | 2005 | Εθνικό Μετσόβιο Πολυτεχνείο (ΕΜΠ), Ελλάδα | Τμήμα Χημικών Μηχανικών |   |



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