Dr. Ioanna Vasiliadou received her Degree (2004) and PhD (2008) both from the Dep. of Environmental and Natural Resources Management, University of Ioannina, Greece. In her PhD thesis she studied the Biological removal of nitrates from drinking water.

She worked as postdoctoral researcher (2008/10) and lecturer in Civil Engineering Dep., University of Patras, Greece, where she studied the transport of colloids in porous media. Dr. Vasiliadou also worked as postdoctoral researcher and lecturer (2011/12) at the Materials Science and Engineering and Chemical Engineering Dep., University Carlos III de Madrid, Spain, where she expanded her skills in mathematical modeling. She spent two years (2012/14) working as postdoctoral researcher awarded by **Marie Curie Actions IEF**, at the Chemical and Environmental Technologies Dep., Rey Juan Carlos University of Madrid, Spain. During this stay she combined Biological and Advanced oxidation processes for wastewater treatment with simultaneous biodiesel production of the biomass generated.

She spent one year (2015) as research associate at the Chemical Engineering Dep., University of Patras, where she theoretically studied the behavior of microbial cultures in bio-engineering schemes. Finally, she worked (2016) at the Dep. of Engineering and Architecture, University of Trieste (Italy), on the minimization of excess sludge during wastewater treatment. Currently, she works as postdoctoral researcher on smart electrochemical engineering towards resources and energy recovery from wastewater, **awarded** the **International Excellence "Smart Energy" Program** from Rey Juan Carlos and Alcalá Universities of Madrid.

She has taught various undergraduate and graduate courses in Chemical and Environmental Engineering and Mathematical modeling. She had the supervision of several students on their diploma and PhD thesis. She is the author of **24 peer-reviewed articles** in professional journals (**citations: 516, h-index: 10**), one book chapter and **29 international and national** conference proceedings publications. She serves as peer **reviewer** for **25 Journals**. She has been participated in **5 research projects** and has been awarded with **5 personal competitive postdoctoral** research grants. The total budged of the personal funds conquest is approximately 530000€.

Dr. Vasiliadou's research has focused on the field of **Chemical Technology and Engineering**, including **Environmental technologies, Environmental remediation, Biotechnological processes** and **Biomass Waste valorisation**. She has expertise in: **i)** Designing and optimization of bioreactors for **water and wastewater treatment**, **ii) Advanced bio-oxidation processes** for wastewater treatment, **iii) Sewage sludge use for Biodiesel** production, **iv) Sludge minimization** during wastewater treatment, **v) Resources and energy recovery** from wastewater and **vi) Soil and groundwater bioremediation**. The development of mathematical models capable of describing processes considered in **chemical and environmental bio-engineering schemes** represents one of the main topics of her research field.

Dr. Vasiliadou has gained high-caliber international research experience. As a postdoctoral research, she worked in **three countries** (Greece, Spain and Italy) and **four institutes**. Her several postdoctoral stays allowed her to develop her **personal research network** in European level and formed her multidisciplinary research profile.