

PERSONAL DATA

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EDUCATION

Ph.D. in Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece
Direction-Expertise: Materials Science – Environmental Chemical Engineering
Ph.D. thesis: Dyes removal from aqueous systems with sorption process
M.Sc. in Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece
Direction-Expertise: Materials Science – Environmental Chemical Engineering
M.Sc. thesis: Multiparametric study for the removal of environmental pollutants in sorptive beds
B.Sc. in Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece
Direction-Expertise: Chemical Technology – Industrial Chemical Engineering
B.Sc. thesis: Study of the reuse of flotated dye-samples on textile dyeing

LANGUAGES

Native: Greek
English: Excellent (Level C2)
Italian: Very Good (Level C1)
French: Good (Level B2)

TEACHING

2009 – now Adjunct Lecturer at Technological Educational Institute of Kavala, Greece (Department of Oenology and Beverage Technology) for courses:
(i) Physical Processes
(ii) Wastewater Management
(iii) General Inorganic Chemistry
(iv) Quantitative Chemical Analysis
(v) Physical Chemistry I
(vi) Physical Chemistry II

2012 – 2014 External Collaborator at InterBalcan Institute of Public Administration (I.I.P.A.) for courses in educational projects:
(i) Management of natural resources for prevention/treatment of natural disasters (INTERREG III – GeoPromotion)
(ii) Medical Wastes Management

2006 – 2009 Teaching personnel at Aristotle University of Thessaloniki, Greece (Department of Chemistry) for lab courses:
(i) Introduction to Chemical Technology
(ii) Physical Processes

RESEARCH PROJECTS

2016 - 2018	Multifunctional super-adsorbent materials for efficient decontamination of oil spills and heavy metal effluents
2016	Green composites and 3D objects
2015	Use of chitosan and its derivatives for drug nanoencapsulation and their application in ophthalmic formulations
2014 - 2015	Advanced microextraction approaches based on novel nano- polymers to measure pharmaceuticals, personal care products and their transformation products in the aquatic environment
2013 - 2015	Advanced Molecularly Imprinted Polymers (MIPs) as materials for the selective binding and recovery of various high-added value environmental targets with application to industrial-scale adsorption columns
2013	Synthesis, characterization and application of novel polymeric biosorbents for the environmental-friendly removal of various pollutants from industrial effluents
2013 - 2014	Implementation of monitoring programme of biotic and abiotic parameters and support of self supervision to the Lake Koronia Volvi
2012 – 2013	Nanocapillary©
2011 – 2013	Preparation and characterization of plastic pipes with enhanced performance and thermal conductivity for geothermal applications of heating and cooling by using conductive nanoparticles
2006 – 2008	Dyes removal from aqueous solutions by sorption onto molecularly imprinted polymers (MIPs)
2005 – 2006	Pollutants removal from aqueous solutions with super-adsorbents materials
2004 – 2005	Application of novel processes in the treatment of liquid textile industrial effluents

AWARDS & HONORS

- Excellence honor as the best Ph.D. student of 2009 at the Department of Chemistry of A.U.Th. – Full Annual Fellowship (*Research Committee of A.U.Th., Greece*).
- Excellence honor as the best PostDoc Researcher of 2013 at the Department of Chemistry of A.U.Th. – Full Annual Fellowship (*Research Committee of A.U.Th., Greece*).
- IKY Fellowships of Excellence for PostDoc studies in Greece – Siemens Program 2013 – 2015 (*IKY – State Scholarships Foundation of Greece*).
- Young Scientist Fellowship for PostDoc studies 2016 - 2018 (*Stavros Niarchos Foundation*)

MEMEBRSHIPS

- American Chemical Society (A.C.S.)
- Society for Molecular Imprinting (S.M.I.)
- Society of the Greek Chemists (E.E.X.)
- Association of Chemists of North Greece (Σ.X.B.E.)
- Society of Petroleum engineers (S.P.E.)

SCIENTIFIC AREAS – EXPERTISE

Main field: Chemical Technology – Materials synthesis

Sub-fields: Removal of pollutants from wastewaters; Synthesis of adsorbents – Polymeric Chemistry

PUBLICATIONS IN JOURNALS (PEER-REVIEW)

- A78. G.Z. Kyzas*, D.N. Bikiaris, A.C. Mitropoulos, "Chitosan adsorbents for dye removal: A review", *Polymer International* xx (2017) xx-xx (doi: 10.1002/pi.5467).
- A77. P. Sharifi*, M. Seyedsalehi, O. Paladino, G.Z. Kyzas, "Investigation of morphological and phytochemical changes and tolerance threshold of Chamomile under drought stress conditions" *International Journal of Pure and Applied Zoology* 5 (2017) 85-91 (doi: 10.1080/09276440.2017.1361716).
- A76. G.Z. Kyzas*, E.A. Deliyanni, K.A. Matis, N.K. Lazaridis, D.N. Bikiaris, A.C. Mitropoulos, "Emerging nanocomposite biomaterials as biomedical adsorbents: An overview" *Composite Interfaces* xx (2017) xxx-xxx (doi: 10.1080/09276440.2017.1361716).
- A75. I. Anastopoulos*, V.A. Anagnostopoulos, A. Bhatnagar, A.C. Mitropoulos, G.Z. Kyzas*, "A review for chromium removal by carbon nanotubes", *Chemistry and Ecology* 33 (2017) 572-588 (doi: 10.1080/02757540.2017.1328503).
- A74. G.Z. Kyzas, D.N. Bikiaris, D.A. Lambropoulou*, "Effect of humic acid on pharmaceuticals adsorption with sulfonic acid grafted chitosan", *Journal of Molecular Liquids* 230 (2017) 1-5 (doi: 10.1016/j.molliq.2017.01.015).
- A73. I. Anastopoulos*, A. Bhatnagar, D.N. Bikiaris, G.Z. Kyzas*, "Chitin adsorbents for toxic metals: A review", *International Journal of Molecular Sciences* 18 (2017) Article ID 114 (doi: 10.3390/ijms18010114).
- A72. I. Anastopoulos*, M. Karamesouti*, A.C. Mitropoulos, G.Z. Kyzas*, "A review for coffee adsorbents", *Journal of Molecular Liquids* 229 (2017) 555-565 (doi: 10.1016/j.molliq.2016.12.096).
- A71. E.A. Deliyanni, G.Z. Kyzas, K.A. Matis*, "Various flotation techniques for metal ions removal", *Journal of Molecular Liquids* 225 (2017) 260-264 (doi: 10.1016/j.molliq.2016.11.069).
- A70. Z. He, X. Cheng, G.Z. Kyzas*, J. Fu*, "Pharmaceuticals pollution of aquaculture and its management in China", *Journal of Molecular Liquids* 223 (2016) 781-789 (doi: 10.1016/j.molliq.2016.09.005).
- A69. P.I. Siafaka, M. Mone, I.G. Koliakou, G.Z. Kyzas, D.N. Bikiaris*, "Synthesis and physicochemical properties of a new biocompatible chitosan grafted with 5-hydroxymethylfurfural", *Journal of Molecular Liquids* 222 (2016) 268-271 (doi: 10.1016/j.molliq.2016.07.027).
- A68. G.Z. Kyzas, P.I. Siafaka, M. Kostoglou, D.N. Bikiaris*, "Adsorption of As(III) and As(V) onto colloidal microparticles of commercial cross-linked polyallylamine (Sevelamer) from single and binary ion solutions", *Journal of Colloid and Interface Science* 474 (2016) 137-145 (doi: 10.1016/j.jcis.2016.04.027).
- A67. G.Z. Kyzas, K.A. Matis*, "Electroflotation process: A review", *Journal of Molecular Liquids* 220 (2016) 657-664 (doi: 10.1016/j.molliq.2016.04.128).
- A66. I. Anastopoulos*, G.Z. Kyzas*, "Are the thermodynamic parameters correctly estimated in liquid-phase adsorption phenomena?", *Journal of Molecular Liquids* 218 (2016) 174-185 (doi: 10.1016/j.molliq.2016.02.059).
- A65. Z. Terzopoulou, M. Papageorgiou, G.Z. Kyzas, D.N. Bikiaris, D.A. Lambropoulou*, "Preparation of molecularly imprinted solid-phase microextraction fiber for the selective removal and extraction of the antiviral drug abacavir in environmental and biological matrices", *Analytica Chimica Acta* 913 (2016) 63-75 (doi: 10.1016/j.aca.2016.01.059).
- A64. S.N. Nandeshwar, A.S. Mahakalakar, R.R. Gupta, G.Z. Kyzas*, "Green activated carbons from different waste materials for the removal of iron from real wastewater samples of Nag River, India", *Journal of Molecular Liquids* 216 (2016) 688-692 (doi: 10.1016/j.molliq.2015.12.065).
- A63. G.Z. Kyzas*, M.P. Symeonidou, K.A. Matis, "Technologies of winery wastewater treatment: A critical

- approach", *Desalination and Water Treatment* 57 (2016) 3372-3386 (doi: 10.1080/19443994.2014.986535).
- A62. S. Liu, Y. Luo, J. Fu*, J. Zhou, G.Z. Kyzas*, "Molecular docking and 3D-QSAR studies on the glucocorticoid receptor antagonistic activity of hydroxylated polychlorinated biphenyls", *SAR and QSAR in Environmental Research* 27 (2016) 87-98 (doi: 10.1080/1062936X.2015.1134653).
- A61. G.Z. Kyzas, K.A. Matis*, "Methods of arsenic wastes recycling: Focus on flotation", *Journal of Molecular Liquids* 214 (2016) 37-45 (doi: 10.1016/j.molliq.2015.11.028).
- A60. G.Z. Kyzas, E.A. Deliyanni*, K.A. Matis, "Activated carbons produced by pyrolysis of waste potato peels: Cobalt ions removal by adsorption", *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 490 (2016) 74-83 (doi: 10.1016/j.colsurfa.2015.11.038).
- A59. D.A. Giannakoudakis, G.Z. Kyzas, A. Avranas, N.K. Lazaridis*, "Multi-parametric adsorption effects of the reactive dye removal with commercial activated carbons", *Journal of Molecular Liquids* 213 (2016) 381-389 (doi: 10.1016/j.molliq.2015.07.010).
- A58. G.Z. Kyzas*, D.N. Bikiaris, "Characterization of binding properties of silver ion-imprinted polymers with equilibrium and kinetic models", *Journal of Molecular Liquids* 212 (2015) 133-141 (doi: 10.1016/j.molliq.2015.09.018).
- A57. G.Z. Kyzas, E.A. Deliyanni, K.A. Matis*, "Recent research activities related to flotation process", *Trends in Green Chemistry* 1 (2015) Article ID 4 (<http://green-chemistry.imedpub.com/archive.php>).
- A56. G.Z. Kyzas, A. Koltsakidou, S.G. Nanaki, D.N. Bikiaris, D.A. Lambropoulou*, "Removal of beta-blockers from aqueous media by adsorption onto graphene oxide", *Science of the Total Environment* 537 (2015) 411-420 (doi: 10.1016/j.scitotenv.2015.07.144).
- A55. G.Z. Kyzas, Z. Terzopoulou, V. Nikolaidis, E. Alexopoulou, D.N. Bikiaris*, "Low-cost hemp biomaterials for nickel ions removal from aqueous solutions", *Journal of Molecular Liquids* 209 (2015) 209-218 (doi: 10.1016/j.molliq.2015.05.060).
- A54. G.Z. Kyzas, M. Kostoglou*, "Swelling-adsorption interactions during mercury and nickel ions removal by chitosan", *Separation and Purification Technology* 149 (2015) 92-102 (doi: 10.1016/j.seppur.2015.05.024).
- A53. G.Z. Kyzas*, J. Fu, N.K. Lazaridis, D.N. Bikiaris, K.A. Matis, "New approaches on the removal of pharmaceuticals from wastewaters with adsorbent materials", *Journal of Molecular Liquids* 209 (2015) 87-93 (doi: 10.1016/j.molliq.2015.05.025).
- A52. S. Liu, J. Liu, J. Zhao, D. Xia, F. Pan*, C. Liu, G.Z. Kyzas, J. Fu*, "Palygorskite changes heavy metal bioavailability and microbial functional diversity in sewage sludge composting", *Environmental Technology* 36 (2015) 2855-2862 (doi: 10.1080/09593330.2015.1050071).
- A51. I. Anastopoulos, G.Z. Kyzas*, "Progress in batch biosorption of heavy metals onto algae", *Journal of Molecular Liquids* 209 (2015) 77-86 (doi: 10.1016/j.molliq.2015.05.023).
- A50. Z. Terzopoulou, G.Z. Kyzas, D.N. Bikiaris*, "Recent advances in nanocomposite materials of graphene derivatives with polysaccharides", *Materials* 8 (2015) 652-683 (doi: 10.3390/ma8020652).
- A49. I. Anastopoulos, G.Z. Kyzas*, "Composts as biosorbents for decontamination of various pollutants: A review", *Water, Air and Soil Pollution* 226 (2015) Article ID 61 (doi: 10.1007/s11270-015-2345-2).
- A48. S.G. Nanaki, G.Z. Kyzas, A. Tzereme, M. Papageorgiou, M. Kostoglou, D.N. Bikiaris, D.A. Lambropoulou*, "Synthesis and characterization of modified carrageenan microparticles for the removal of pharmaceuticals from aqueous solutions", *Colloids and Surfaces B: Biointerfaces* 127 (2015) 256-265 (doi: 10.1016/j.colsurfb.2015.01.053).
- A47. G.Z. Kyzas, S.G. Nanaki, M. Kechagia, A. Koltsakidou, M. Papageorgiou, D.N. Bikiaris, D.A. Lambropoulou*, "Effectively designed molecularly imprinted polymers for selective isolation of the antidiabetic drug metformin and its transformation product guanlyurea from aqueous media",

- Analytica Chimica Acta 866 (2015) 27-40 (doi: 10.1016/j.aca.2015.01.045).
- A46. G.Z. Kyzas*, K.A. Matis, "Nanoadsorbents for pollutants removal: A review", *Journal of Molecular Liquids* 203 (2015) 159-168 (doi: 10.1016/j.molliq.2015.01.004).
- A45. Q. Wang, J. Fu*, G.Z. Kyzas, S.M.R. Billah, S. An*, "Synthesis, characterization, and catalytic evaluation of $\text{Co}_3\text{O}_4/\gamma\text{-Al}_2\text{O}_3$ as methane combustion catalysts: Significance of Co species and the redox cycle", *Applied Catalysis B: Environmental* 168-169 (2015) 42-50 (doi: 10.1016/j.apcatb.2014.12.016).
- A44. G.Z. Kyzas, P.I. Sifaka, D.N. Bikiaris*, E.N. Koukaras, G.E. Froudakis, "Alternative use of cross-linked polyallylamine (known as Sevelamer pharmaceutical compound) as biosorbent", *Journal of Colloid and Interface Science* 442 (2015) 49-59 (doi: 10.1016/j.jcis.2014.11.036).
- A43. G.Z. Kyzas*, D.N. Bikiaris, "Recent modifications of chitosan for adsorption applications: A critical and systematic review", *Marine Drugs* 13 (2015) 312-337 (doi: 10.3390/md13010312).
- A42. E.A. Deliyanni, G.Z. Kyzas, K.S. Triantafyllidis, K.A. Matis*, "Activated carbons for heavy metal ions removal: A systematic review of recent literature focused on lead and arsenic ions", *Open Chemistry* 13 (2015) 699-708 (doi: 10.1515/chem-2015-0087).
- A41. G.Z. Kyzas*, E.A. Deliyanni, "Modified activated carbons from potato peels as green environmental-friendly adsorbents for the treatment of pharmaceutical effluents", *Chemical Engineering Research and Design* 97 (2015) 135-144 (doi: 10.1016/j.cherd.2014.08.020).
- A40. G.Z. Kyzas, P.I. Sifaka, E.G. Pavlidou, K.J. Chryssafis, D.N. Bikiaris*, "Synthesis and adsorption application of succinyl-grafted chitosan for the simultaneous removal of zinc and cationic dye from binary hazardous mixtures", *Chemical Engineering Journal* 259 (2015) 438-448 (doi: 10.1016/j.cej.2014.08.019).
- A39. G.Z. Kyzas*, S. Azizian, M. Kostoglou "Novel approaches in designing natural/synthetic materials for environmental application", *Advances in Materials Science and Engineering 2015* (2015) Article ID 820854 (doi: 10.1155/2015/820854).
- A38. I. Anastopoulos, G.Z. Kyzas*, "Agricultural peels for dye adsorption: A review of recent literature", *Journal of Molecular Liquids* 200 (2014) 277-285 (doi: 10.1016/j.molliq.2014.11.006).
- A37. G.Z. Kyzas, E.A. Deliyanni*, N.K. Lazaridis*, "Magnetic modification of microporous carbon for dye adsorption", *Journal of Colloid and Interface Science* 430 (2014) 166-173 (doi: 10.1016/j.jcis.2014.05.049).
- A36. G.Z. Kyzas*, J. Fu*, K.A. Matis, "New biosorbent materials: Selectivity and bioengineering insights", *Processes* 2 (2014) 419-440 (doi: 10.3390/pr2020419).
- A35. G.Z. Kyzas*, D.N. Bikiaris, E.A. Deliyanni, "Advanced low-swelling chitosan/graphite oxide-based biosorbents", *Materials Letters* 128 (2014) 46-49 (doi: 10.1016/j.matlet.2014.04.129).
- A34. G.Z. Kyzas, N.K. Lazaridis, M. Kostoglou*, "Adsorption/Desorption of a dye by a chitosan derivative: Experiments and phenomenological modeling", *Chemical Engineering Journal* 248 (2014) 327-336 (doi: 10.1016/j.cej.2014.03.063).
- A33. G.Z. Kyzas*, D.N. Bikiaris "Molecular imprinting for high-added value metals: An overview of recent environmental applications", *Advances in Materials Science and Engineering 2014* (2014) Article ID 932637 (doi: 10.1155/2014/932637).
- A32. G.Z. Kyzas, K.A. Matis*, "Flotation of biological materials", *Processes* 2 (2014) 293-310 (doi: 10.3390/pr2010293).
- A31. J. Fu, C. Zhao, Y. Luo, C. Liu*, G.Z. Kyzas, Y. Luo, D. Zhao, S. An, H. Zhu*, "Heavy metals in surface sediments of the Jialu River, China: Their relations to environmental factors", *Journal of Hazardous Materials* 270 (2014) 102-109 (doi: 10.1016/j.jhazmat.2014.01.044).
- A30. G.Z. Kyzas*, M. Kostoglou, "Green adsorbents for wastewaters: A critical review", *Materials* 7 (2014) 333-364 (doi: 10.3390/ma7010333).

- A29. G.Z. Kyzas*, D.N. Bikiaris, M. Seredych, T.J. Bandosz, E.A. Deliyanni*, "Removal of dorzolamide from biomedical wastewaters with adsorption onto graphite oxide/poly(acrylic acid) grafted chitosan nanocomposite", *Bioresource Technology* 152 (2014) 399-406 (doi: 10.1016/j.biortech.2013.11.046).
- A28. G.Z. Kyzas, E.A. Deliyanni*, S.I. Bele, K.A. Matis, "Nano-adsorbent for arsenates: iron oxyhydroxide impregnated microporous activated carbon", *Current Environmental Engineering* 1 (2014) 1-8 (doi: 10.2174/2212717801666140307002141).
- A27. J. Fu, G.Z. Kyzas*, "Wet air oxidation for decolorization of dyeing wastewaters: An overview of the last two decades", *Chinese Journal of Catalysis* 35 (2014) 1-7 (doi: 10.1016/S1872-2067(12)60724-4).
- A26. G.Z. Kyzas*, P.I. Siafaka, D.A. Lambropoulou, N.K. Lazaridis, D.N. Bikiaris*, "Poly(itaconic acid)-grafted chitosan adsorbents of different cross-linking for Pb(II) and Cd(II) uptake", *Langmuir* 30 (2014) 120-131 (doi: 10.1021/la402778x).
- A25. G.Z. Kyzas, E.A. Deliyanni*, K.A. Matis, "Graphene oxide and its application as adsorbent to wastewater treatment", *Journal of Chemical Technology and Biotechnology* 89 (2014) 196-205 (doi: 10.1002/jctb.4220).
- A24. G.Z. Kyzas, N.A. Travlou, E.A. Deliyanni*, "The role of chitosan as nanofiller of graphite oxide for the removal of toxic mercury ions", *Colloids and Surfaces B: Biointerfaces* 113 (2014) 467-476 (doi: 10.1016/j.colsurfb.2013.07.055).
- A23. G.Z. Kyzas*, J. Fu, K.A. Matis, "The change from past to future for adsorbent materials in treatment of dyeing wastewaters", *Materials* 6 (2013) 5131-5158 (doi: 10.3390/ma6115131).
- A22. G.Z. Kyzas, N.K. Lazaridis, E.A. Deliyanni*, "Oxidation time effect of activated carbons for drug adsorption", *Chemical Engineering Journal* 234 (2013) 491-499 (doi: 10.1016/j.cej.2013.06.024).
- A21. G.Z. Kyzas, N.K. Lazaridis, M. Kostoglou*, "On the simultaneous adsorption of reactive dye and hexavalent chromium from aqueous solutions onto grafted chitosan", *Journal of Colloid and Interface Science* 407 (2013) 432-441 (doi: 10.1016/j.jcis.2013.05.052).
- A20. G.Z. Kyzas*, E.A. Deliyanni, "Mercury(II) removal with modified magnetic chitosan adsorbents", *Molecules* 18 (2013) 6193-6214 (doi: 10.3390/molecules18066193).
- A19. G.Z. Kyzas*, N.A. Travlou, O. Kalogirou, E.A. Deliyanni, "Magnetic graphene oxide: Effect of preparation route on Reactive Black 5 adsorption", *Materials* 6 (2013) 1360-1376 (doi: 10.3390/ma6041360).
- A18. G.Z. Kyzas, M. Kostoglou, N.K. Lazaridis*, D.A. Lambropoulou, D.N. Bikiaris*, "Environmental friendly technology for the removal of pharmaceutical contaminants from wastewaters using modified chitosan adsorbents", *Chemical Engineering Journal* 222 (2013) 248-258 (doi: 10.1016/j.cej.2013.02.048).
- A17. N.A. Travlou, G.Z. Kyzas, N.K. Lazaridis, E.A. Deliyanni*, "Functionalization of graphite oxide with magnetic chitosan for the preparation of a nanocomposite dye adsorbent", *Langmuir* 29 (2013) 1657-1668 (doi: 10.1021/la304696y).
- A16. G.Z. Kyzas*, E.N. Peleka, E.A. Deliyanni, "Nanocrystalline akaganeite as adsorbent for surfactant removal from aqueous solutions", *Materials* 6 (2013) 184-197 (doi: 10.3390/ma6010184).
- A15. N.A. Travlou, G.Z. Kyzas, N.K. Lazaridis, E.A. Deliyanni*, "Graphite oxide/chitosan composite for reactive dye removal", *Chemical Engineering Journal* 217 (2013) 256-265 (doi: 10.1016/j.cej.2012.12.008).
- A14. G.Z. Kyzas, M. Kostoglou, N.K. Lazaridis, D.N. Bikiaris*, "N-(2-Carboxybenzyl)grafted chitosan as adsorptive agent for simultaneous removal of positively and negatively charged toxic metal ions", *Journal of Hazardous Materials* 244-245 (2013) 29-38 (doi: 10.1016/j.jhazmat.2012.11.049).
- A13. G.Z. Kyzas, N.K. Lazaridis, D.N. Bikiaris*, "Optimization of chitosan and β -cyclodextrin molecularly imprinted polymer synthesis for dye adsorption", *Carbohydrate Polymers* 91 (2013) 198-208 (doi: 10.1016/j.carbpol.2012.11.049).

- 10.1016/j.carbpol.2012.08.016).
- A12. G.Z. Kyzas*, N.K. Lazaridis, A.C. Mitropoulos, "Optimization of batch conditions and application to fixed-bed columns for a sequential technique of total color removal using "Greek coffee" residues as materials for real dyeing effluents", *Journal of Engineering Science and Technology Review* 5 (2012) 66-75 (<http://www.jestr.org/downloads/Volume5Issue2/fulltext14050212.pdf>).
- A11. G.Z. Kyzas*, "A decolorization technique with spent "Greek coffee" grounds as zero-cost adsorbents for industrial textile wastewaters", *Materials* 5 (2012) 2069-2087 (doi: 10.3390/ma5112069).
- A10. G.Z. Kyzas*, "Commercial coffee wastes as materials for adsorption of heavy metals from aqueous solutions", *Materials* 5 (2012) 1826-1840 (doi: 10.3390/ma5101826).
- A09. G.Z. Kyzas, N.K. Lazaridis, M. Kostoglou*, "Modelling the effect of pre-swelling on adsorption dynamics of dyes by chitosan derivatives", *Chemical Engineering Science* 81 (2012) 220-230 (doi: 10.1016/j.ces.2012.07.007).
- A08. G.Z. Kyzas*, N.K. Lazaridis, A.C. Mitropoulos, "Removal of dyes from aqueous solutions with untreated coffee residues as potential low-cost adsorbents: Equilibrium, reuse and thermodynamic approach", *Chemical Engineering Journal* 189-190 (2012) 148-159 (doi: 10.1016/j.cej.2012.02.045).
- A07. G.Z. Kyzas, M. Kostoglou, A.A. Vassiliou, N.K. Lazaridis*, "Treatment of real effluents from dyeing reactor: Experimental and modelling approach by adsorption onto chitosan", *Chemical Engineering Journal* 168 (2011) 577-585 (doi: 10.1016/j.cej.2011.01.026).
- A06. G.Z. Kyzas, M. Kostoglou, N.K. Lazaridis*, "Relating interactions of dye molecules with chitosan to adsorption kinetic data", *Langmuir* 26 (2010) 9617-9626 (doi: 10.1021/la100206y).
- A05. G.Z. Kyzas, M. Kostoglou, N.K. Lazaridis*, "Copper and chromium(VI) removal by chitosan derivatives – Equilibrium and kinetic studies", *Chemical Engineering Journal* 152 (2009) 440-448 (doi: 10.1016/j.cej.2009.05.005).
- A04. G.Z. Kyzas, D.N. Bikiaris, N.K. Lazaridis*, "Selective separation of basic and reactive dyes by molecularly imprinted polymers (MIPs)", *Chemical Engineering Journal* 149 (2009) 263-272 (doi: 10.1016/j.cej.2008.11.002).
- A03. G.Z. Kyzas, N.K. Lazaridis*, "Reactive and basic dyes removal by sorption onto chitosan derivatives", *Journal of Colloid and Interface Science* 331 (2009) 32-39 (doi: 10.1016/j.jcis.2008.11.003).
- A02. G.Z. Kyzas, D.N. Bikiaris, N.K. Lazaridis*, "Low-swelling chitosan derivatives as biosorbents for basic dyes", *Langmuir* 24 (2008) 4791-4799 (doi: 10.1021/la7039064).
- A01. N.K. Lazaridis*, G.Z. Kyzas, A.A. Vassiliou, D.N. Bikiaris, "Chitosan derivatives as biosorbents for basic dyes", *Langmuir* 23 (2007) 7634-7643 (doi: 10.1021/la700423j).
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ANNOUNCEMENTS IN INTERNATIONAL CONFERENCES

- BI.32. G.Z. Kyzas, R. Kosheleva, K. Kiourtzidis, E. Bibaj, K. Lysigaki, A. Rodana, A.C. Mitropoulos, "Graphenes as potential oil-spill cleaners", 14th International Conference on Nanosciences και Nanotechnologies (NN17), Thessaloniki, Greece, 04-07 July 2017.
- BI.31. G.Z. Kyzas, R. Kosheleva, K. Kiourtzidis, E. Bibaj, K. Lysigaki, A. Rodana, A.C. Mitropoulos, "Setting-up a materials science laboratory", 6th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2017), Thessaloniki, Greece, 25-30 June 2017.
- BI.30. G.Z. Kyzas, A.C. Mitropoulos, "Green activated carbons for mercury removal", 5th International Conference on Green Chemistry and Technology, Rome, Italy, 24-26 June 2017.
- BI.29. G.Z. Kyzas, A.C. Mitropoulos, "Banana waste residues for environmental applications", 5th International Conference on Sustainable Solid Waste Management, Athens, Greece, 21-24 June 2017.

- BI.28. S.G. Nanaki, G.Z. Kyzas, M. Papageorgiou, C. Kouloktsi, D.N. Bikiaris, D.A. Lambropoulou, "Isocyanate-functionalized carrageenans as absorbents for the removal of Carbamazepine and Diclofenac from aqueous solutions", 13th International Conference on Protection and Restoration of the Environment, Mykonos island, Greece, 03-07 July 2016.
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- BI.18. G.Z. Kyzas, M. Kechagia, D.N. Bikiaris, D.A. Lambropoulou, "Selective isolation and determination of Guanyurea in aqueous matrices using Molecular Imprinting Technique", 16th International Symposium on Advances in Extraction Technologies (ExTech 2014), Chania, Greece, 25-28 May 2014.
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- BN.16. M. Papageorgiou, Z. Terzopoulou, G.Z. Kyzas, D.N. Bikiaris, D.A. Lambropoulou, "Solid-phase microextraction with Molecularly Imprinted Polymers for the selective determination of Abacavir in environmental and biological matrices", 6th National Conference of Metrology (Metrology 2016), Athens, Greece, 15-16 May 2016.
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- BN.09. G.Z. Kyzas, N.K. Lazaridis, M. Kostoglou, "Competitive adsorption of dye molecule and heavy metal ion onto polymeric materials", 9th Panhellenic Scientific Conference of Chemical Engineering, Athens, Greece, 23-25 May 2013.
- BN.08. N.A. Travlou, E.N. Deliyanni, G.Z. Kyzas, N.K. Lazaridis, "Composites of graphite oxide with chitosan and magnetic chitosan: Preparation and characterization", 9th Hellenic Polymer Society Conference, Thessaloniki, Greece, 29-01 December 2012.
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- C08. I. Anastopoulos, G.Z. Kyzas*, “Citrus residues as super-adsorbents”, In: D. Simmons (Ed.), “Citrus Fruits: Production, Consumption and Health Benefits”, Chapter 5, pp. 119-134, Nova Science Publishers, ISBN 978-1-63484-078-1, New York, USA, 2016.
- C07. G.Z. Kyzas*, “Coffee wastes as adsorbents”, In: C.N. Foster (Ed.), “Agricultural Wastes: Characteristics, Types and Management”, Chapter 9, pp. 463-492, Nova Science Publishers, ISBN 978-1-63482-359-3, New York, USA, 2015.
- C06. G.Z. Kyzas*, N.K. Lazaridis*, “Treatment of wastewaters with cellulose derivatives”, In: I.H. Mondal (Ed.), “Cellulose and Cellulose Derivatives: Synthesis, Modification, and Applications”, Chapter 24, pp. 497-516, Nova Science Publishers, ISBN 978-1-63483-150-5, New York, USA, 2015.
- C05. G.Z. Kyzas*, “Advanced composite adsorbents: Chitosan versus Graphene”, In: A. Tiwari, L. Uzun (Eds.), “Advanced Functional Materials”, Chapter 11, pp. 463-492, WILEY-Scrivener, ISBN 978-1-118-99827-4, New York, USA, 2015.
- C04. G.Z. Kyzas, K.A Matis*, “Layered double hydroxides and certain environmental applications (the contribution of LGICT)”, In: I.T. Sherman (Ed.), “Layered Double Hydroxides (LDHs): Synthesis, Characterization and Applications”, Chapter 6, pp. 121-131, Nova Science Publishers, ISBN 978-1-63482-040-0, New York, USA, 2015.
- C03. G.Z. Kyzas*, “Adsorption as the last and most promising decolorization technique in the chain of treatment of dyeing effluents”, In: J. Fu (Ed.), “Dyeing: Processes, Techniques and Applications”, Chapter 9, pp. 183-204, Nova Science Publishers, ISBN 978-1-62808-847-2, New York, USA, 2014.
- C02. G.Z. Kyzas*, M. Kostoglou, N.K. Lazaridis, D.N. Bikiaris, “Decolorization of dyeing wastewater using polymeric adsorbents - An overview”, In: M. Günay (Ed.), “Eco-friendly Textile Dyeing and Finishing”, Chapter 7, pp. 177-205, InTech - open science, ISBN 980-953-307-593-3, Rijeka, Croatia, 2013.
- C01. G.Z. Kyzas, N.K. Lazaridis*, “Molecularly imprinted polymers (MIPs) as selective sorbents for wastewater pollutants”, In: G. Crini, P.-M. Badot (Eds), “Sorptions Processes and Pollution: Conventional and non-conventional adsorbents for pollutant removal from wastewaters”, Chapter 18, pp. 452-468, Presses universitaires de Franche-Comté, ISBN 978-2-84867-304-2, Paris, France, 2010.
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- D03. G.Z. Kyzas^{*}, “*Multiparametric study for the removal of environmental pollutants in sorptive beds*”, M.Sc. thesis, Call No: TP899.T4K993, Barcode: 0041200097, pp. 1-151, Dept. Chemistry A.U.Th., 2012.
- D02. G.Z. Kyzas^{*}, “*Dyes removal from aqueous systems with sorption process*”, Ph.D. thesis, Call No: TD899.T3K993, Barcode: 0010181396 (Dept. Chemistry A.U.Th. 0041000175), pp 1-230, Dept. Chemistry A.U.Th., 2010.
- D01. G.Z. Kyzas^{*}, “*Study of the reuse of flotated dye-samples to the textile dyeing*”, B.Sc. thesis, Call No: TD758.5.C65K993, Barcode: 0040500249, pp 1-58, Dept. Chemistry A.U.Th., 2005.
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- E01. G.Z. Kyzas^{*}, “*Green adsorbents*”, Bentham Science Publishers, ISBN 978-1-68108-137-3, United Arab Emirates, pp. 1-122, 2015 (doi: 10.2174/97816810813661150101).
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- J04. G.Z. Kyzas^{*} (Ed.), “*Advanced low-cost separation techniques in interface science: Opportunities and new challenges*”, 19 Chapters, pp. 1-xxx, Elsevier, ISBN 978-953-51-5232-3, xxx, UK, 2017 (doi: 10.2174/97816810813661150101).
- J03. G.Z. Kyzas^{*} (Ed.), “*Composite nanoadsorbents*”, 19 Chapters, pp. 1-xxx, Elsevier, ISBN 978-953-51-5232-3, xxx, UK, 2017 (doi: 10.2174/97816810813661150101).
- J02. G.Z. Kyzas^{*} (Ed.), “*Kinetic theory*”, 19 Chapters, pp. 1-xxx, InTech - open science, ISBN 978-953-51-5232-3, Rijeka, Croatia, 2017 (doi: 10.2174/97816810813661150101).
- J01. G.Z. Kyzas^{*}, A.C. Mitropoulos (Eds.), “*Graphene*”, 18 Chapters, pp. 1-xxx, InTech - open science, ISBN 978-953-51-5232-3, Rijeka, Croatia, 2017 (doi: 10.2174/97816810813661150101).
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GUEST EDITOR IN SPECIAL ISSUES OF SCIENTIFIC JOURNALS

- G02. Editors: K.A. Matis, G.Z. Kyzas; Special Issue title: *Advances in Bioseparation Engineering*; Journal: *Processes*; Publisher: MDPI AG.
- G01. Editors: G.Z. Kyzas, S. Azizian, M. Kostoglou; Special Issue title: *Novel approaches in designing natural/synthetic materials for environmental applications*; Journal: *Advances in Materials Science and Engineering*; Publisher: Hindawi.
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TABLE OF IMPACT FACTORS (h-index=30; g-index=44)

Paper	Year	OA/TNA	CA	Journal	Publisher	Citations	I.F. (2016)
A78	2017	1 / 3	*	Polymer International	Wiley	0	2.040
A77	2017	4 / 4		International Journal of Pure and Applied Zoology	Allied Academics	0	-
A76	2017	1 / 6	*	Composite Interfaces	Taylor and Francis	0	1.083
A75	2017	5 / 5	*	Chemistry and Ecology	Taylor and Francis	0	1.463
A74	2017	1 / 3		Journal of Molecular Liquids	Elsevier	0	3.648
A73	2017	4 / 4	*	International Journal of Molecular Sciences	MDPI	3	3.226
A72	2017	4 / 4	*	Journal of Molecular Liquids	Elsevier	3	3.648
A71	2017	2 / 3		Journal of Molecular Liquids	Elsevier	5	3.648
A70	2016	3 / 4	*	Journal of Molecular Liquids	Elsevier	4	3.648
A69	2016	4 / 5		Journal of Molecular Liquids	Elsevier	1	3.648
A68	2016	1 / 4		Journal of Colloid and Interface Science	Elsevier	7	4.233
A67	2016	1 / 2		Journal of Molecular Liquids	Elsevier	4	3.648
A66	2016	2 / 2	*	Journal of Molecular Liquids	Elsevier	20	3.648
A65	2016	3 / 5		Analytica Chimica Acta	Elsevier	12	4.950
A64	2016	4 / 4	*	Journal of Molecular Liquids	Elsevier	2	3.648
A63	2016	1 / 3	*	Desalination and Water Treatment	Taylor and Francis	1	1.631
A62	2016	5 / 5	*	SAR and QSAR in Environmental Research	Taylor and Francis	2	1.642
A61	2016	1 / 2		Journal of Molecular Liquids	Elsevier	2	3.648
A60	2016	1 / 3		Colloids and Surfaces A	Elsevier	14	2.714
A59	2016	2 / 4		Journal of Molecular Liquids	Elsevier	7	3.648
A58	2016	1 / 2	*	Journal of Molecular Liquids	Elsevier	3	3.648
A57	2015	1 / 3		Trends in Green Chemistry	Insight Medical Publishing	1	
A56	2015	1 / 5		Science of the Total Environment	Elsevier	19	4.900
A55	2015	1 / 5		Journal of Molecular Liquids	Elsevier	12	3.648
A54	2015	1 / 2		Separation and Purification Technology	Elsevier	13	3.359
A53	2015	1 / 5	*	Journal of Molecular Liquids	Elsevier	22	3.648
A52	2015	7 / 8		Environmental Technology	Taylor and Francis	0	1.751
A51	2015	2 / 2	*	Journal of Molecular Liquids	Elsevier	33	3.648
A50	2015	2 / 3		Materials	MDPI	18	2.654
A49	2015	2 / 1	*	Water, Air, and Soil Pollution	Springer	12	1.702
A48	2015	2 / 7		Colloids and Surfaces B: Biointerfaces	Elsevier	11	3.887
A47	2015	1 / 7		Analytica Chimica Acta	Elsevier	14	4.950

A46	2015	1 / 2	*	Journal of Molecular Liquids	Elsevier	46	3.648
A45	2015	3 / 5		Applied Catalysis B: Environmental	Elsevier	20	9.446
A44	2015	1 / 5		Journal of Colloid and Interface Science	Elsevier	4	4.233
A43	2015	1 / 2	*	Marine Drugs	MDPI	64	3.503
A42	2015	2 / 4		Open Chemistry	DeGruyter	16	1.027
A41	2015	1 / 2	*	Chemical Engineering Research and Design	Elsevier	17	2.359
A40	2015	1 / 5		Chemical Engineering Journal	Elsevier	79	6.216
A39	2014	1 / 2	*	Advances in Materials Science and Engineering	Hindawi	2	1.299
A38	2014	2 / 2	*	Journal of Molecular Liquids	Elsevier	54	3.648
A37	2014	1 / 3		Journal of Colloid and Interface Science	Elsevier	24	4.233
A36	2014	1 / 3	*	Processes	MDPI	1	
A35	2014	1 / 3	*	Materials Letters	Elsevier	12	2.572
A34	2014	1 / 3		Chemical Engineering Journal	Elsevier	23	6.216
A33	2014	1 / 2	*	Advances in Materials Science and Engineering	Hindawi	8	1.299
A32	2014	1 / 2		Processes	MDPI	1	
A31	2014	5 / 9		Journal of Hazardous Materials	Elsevier	94	6.065
A30	2014	1 / 2	*	Materials	MDPI	58	2.654
A29	2014	1 / 5	*	Bioresource Technology	Elsevier	19	5.651
A28	2014	1 / 3		Current Environmental Engineering	Bentham Science	0	
A27	2014	2 / 2	*	Chinese Journal of Catalysis	Elsevier	28	2.813
A26	2014	1 / 5	*	Langmuir	American Chemical Society	50	3.833
A25	2014	1 / 3		Journal of Chemical Technology and Biotechnology	Wiley	80	3.135
A24	2014	1 / 3		Colloids and Surfaces B: Biointerfaces	Elsevier	36	3.887
A23	2013	1 / 3	*	Materials	MDPI	60	2.654
A22	2013	1 / 3		Chemical Engineering Journal	Elsevier	10	6.216
A21	2013	1 / 3		Journal of Colloid and Interface Science	Elsevier	31	4.233
A20	2013	1 / 2	*	Molecules	MDPI	38	2.861
A19	2013	1 / 4	*	Materials	MDPI	31	2.654
A18	2013	1 / 5		Chemical Engineering Journal	Elsevier	27	6.216
A17	2013	2 / 4		Langmuir	American Chemical Society	108	3.833
A16	2013	1 / 3	*	Materials	MDPI	7	2.654
A15	2013	2 / 4		Chemical Engineering Journal	Elsevier	72	6.216
A14	2013	1 / 4		Journal of Hazardous Materials	Elsevier	30	6.065
A13	2013	1 / 3		Carbohydrate Polymers	Elsevier	64	4.811
A12	2012	1 / 3	*	Journal of Engineering Science and Technology Review	Kavala Institute of Technology	3	
A11	2012	1 / 1	*	Materials	MDPI	23	2.654

A10	2012	1 / 1	*	Materials	MDPI	29	2.654
A09	2012	1 / 3		Chemical Engineering Science	Elsevier	10	2.895
A08	2012	1 / 3	*	Chemical Engineering Journal	Elsevier	89	6.216
A07	2011	1 / 4		Chemical Engineering Journal	Elsevier	34	6.216
A06	2010	1 / 3		Langmuir	American Chemical Society	35	3.833
A05	2009	1 / 3		Chemical Engineering Journal	Elsevier	120	6.216
A04	2009	1 / 3		Chemical Engineering Journal	Elsevier	44	6.216
A03	2009	1 / 2		Journal of Colloid and Interface Science	Elsevier	111	4.233
A02	2008	1 / 3		Langmuir	American Chemical Society	29	3.833
A01	2007	2 / 4		Langmuir	American Chemical Society	115	3.833
						2092	AV=3.780

CA*: Corresponding author, OA: Order of authors, TNA: Total number of authors, Sources: ISI, Scopus, Google Scholar