

YEAR 2017

(Results from Scopus, using the keywords “Department of Chemistry, University of Patras” in the Affiliation field)

1. “Radionuclide activities and elemental concentrations in sediments from a polluted marine environment (Saronikos Gulf-Greece)”
Papaefthymiou, H., Gkaragkouni, A., Papatheodorou, G., Geraga, M.
Journal of Radioanalytical and Nuclear Chemistry, 314, pp. 1841-1852 (2017).
2. “Novel probiotic whey cheese with immobilized lactobacilli on casein”
Dimitrellou, D., Kandyliis, P., Kourkoutas, Y., Kanellaki, M.
LWT - Food Science and Technology, 86, pp. 627-634 (2017).
3. “Estrogen receptor beta as epigenetic mediator of miR-10b and miR-145 in mammary cancer”
Piperigkou, Z., Franchi, M., Götte, M., Karamanos, N.K.
Matrix Biology, 64, pp. 94-111 (2017).
4. “Study of the influence of surfactants on the activity coefficients and mass transfer coefficients of methanol in aqueous mixtures by reversed-flow gas chromatography”
Kotsalos, E., Brezovska, B., Sevastos, D., Vagena, A., Koliadima, A., Kapolos, J., Karaiskakis, G.
Journal of Chromatography A, 1524, pp. 169-178 (2017).
5. “A sensitive DNA-based fluorometric method for milk authenticity of dairy products based on spectrally distinct microspheres”
Kounelli, M.L., Kalogianni, D.P.
European Food Research and Technology, 243 (10), pp. 1773-1781 (2017).
6. “Identification of the zinc, copper and cadmium metalloproteome of the protozoon *Tetrahymena thermophila* by systematic bioinformatics”
Chasapis, C.T., Andreini, C., Georgiopolou, A.K., Stefanidou, M.E., Vlamis-Gardikas, A.
Archives of Microbiology, 199 (8), pp. 1141-1149 (2017).
7. “The Reaction of Diethylthiophosphinyl Iodide, $\text{Et}_2\text{P(S)I}$, with Nucleophiles”
Tsvigoulis, G.M., Kordopati, G.G., Vachliotis, D.G., Ioannou, P.V.
Zeitschrift für Anorganische und Allgemeine Chemie, 643 (16), pp. 1075-1081 (2017).
8. “Carbonato- and methanediolato(-2)-bridged nickel(II) coordination clusters from the use of N-salicylidene-4-methyl-o-aminophenol”
Mylonas-Margaritis, I., Perlepe, P.S., Masič, M., Raptopoulou, C.P., Psycharis, V., Escuer, A., Perlepes, S.P.
Inorganic Chemistry Communications, 83, pp. 113-117 (2017).

9. “2-hydroxybenzophenone-controlled self-assembly of enneanuclear lanthanide(III) hydroxo coordination clusters with an “hourglass”-like topology”
Mylonas-Margaritis, I., Kitos, A.A., Panteli, C.C., Skordi, K., Tasiopoulos, A.J., Bekiari, V., Escuer, A., Perlepes, S.P.
Inorganic Chemistry Communications, 83, pp. 118-122 (2017).
10. “Biologically relevant conformational features of linear and cyclic proteolipid protein (PLP) peptide analogues obtained by high-resolution nuclear magnetic resonance and molecular dynamics”
Kordopati, G.G., Tzoupis, H., Troganis, A.N., Tsivgoulis, G.M., Golic Grdadolnik, S., Simal, C., Tselios, T.V.
Journal of Computer-Aided Molecular Design, 31 (9), pp. 841-854 (2017).
11. “Multi-allele dipstick assay for visual genotyping of four novel SIRT1 gene variant alleles as candidate biomarkers for sporadic Parkinson disease”
Kouloulia, S., Lazaridou, M., Christopoulos, T.K., Ioannou, P.C.
Microchimica Acta, 184 (8), pp. 2845-2853 (2017).
12. “Technological development of brewing in domestic refrigerator using freeze-dried raw materials”
Gialleli, A.-I., Ganatsios, V., Terpou, A., Kanellaki, M., Bekatorou, A., Koutinas, A.A., Dimitrellou, D.
Food Technology and Biotechnology, 55 (3), pp. 325-332 (2017).
13. “Stabilization/Solidification of Hazardous Metals from Solid Wastes into Ceramics”
Karayannis, V.G., Karapanagioti, H.K., Domopoulou, A.E., Komilis, D.P.
Waste and Biomass Valorization, 8 (5), pp. 1863-1874 (2017).
14. “Toward Multifunctional Materials Incorporating Stepladder Manganese(III) Inverse-[9-MC-3]-Metallacrowns and Anti-Inflammatory Drugs”
Tarushi, A., Hatzidimitriou, A.G., Estrader, M., Kessissoglou, D.P., Tangoulis, V., Psomas, G.
Inorganic Chemistry, 56 (12), pp. 7048-7057 (2017).
15. “Oxidation of municipal wastewater by free radicals mechanism. A UV/Vis spectroscopy study”
Giannakopoulos, E., Isari, E., Bourikas, K., Karapanagioti, H.K., Psarras, G., Oron, G., Kalavrouziotis, I.K.
Journal of Environmental Management, 195, pp. 186-194 (2017).
16. “The role of heparins and nano-heparins as therapeutic tool in breast cancer”
Afratis, N.A., Karamanou, K., Piperigkou, Z., Vynios, D.H., Theocharis, A.D.
Glycoconjugate Journal, 34 (3), pp. 299-307 (2017).
17. “Novel cheese production by incorporation of sea buckthorn berries (*Hippophae rhamnoides* L.) supported probiotic cells”

- Terpou, A., Gialleli, A.-I., Bosnea, L., Kanellaki, M., Koutinas, A.A., Castro, G.R.
LWT - Food Science and Technology, 79, pp. 616-624 (2017).
18. “Biological function of unique sulfated glycosaminoglycans in primitive chordates”
Karamanou, K., Espinosa, D.C.R., Fortuna-Costa, A., Pavão, M.S.G.
Glycoconjugate Journal, 34 (3), pp. 277-283 (2017).
 19. “A combined NMR and molecular dynamics simulation study to determine the conformational properties of rat/mouse 35-55 myelin oligodendrocyte glycoprotein epitope implicated in the induction of experimental autoimmune encephalomyelitis”
Ntountaniotis, D., Vanioti, M., Kordopati, G.G., Kellici, T.F., Marousis, K.D., Mavromoustakos, T., Spyroulias, G.A., Golic Grdadolnik, S., Tselios, T.V.
Journal of Biomolecular Structure and Dynamics, 35 (7), pp. 1559-1567 (2017).
 20. “Heterometallic $Mn^{III}_4Ln_2$ ($Ln = Dy, Gd, Tb$) Cross-Shaped Clusters and Their Homometallic $Mn^{III}_4Mn^{II}_2$ Analogues”
Savva, M., Skordi, K., Fournet, A.D., Thuijs, A.E., Christou, G., Perlepes, S.P., Papatriantafyllopoulou, C., Tasiopoulos, A.J.
Inorganic Chemistry, 56 (10), pp. 5657-5668 (2017).
 21. “Dual effect of chloramphenicol peptides on ribosome inhibition”
Bougas, A., Vlachogiannis, I.A., Gatos, D., Arenz, S., Dinos, G.P.
Amino Acids, 49 (5), pp. 995-1004 (2017).
 22. “Roles and targeting of the HAS/hyaluronan/CD44 molecular system in cancer”
Karousou, E., Misra, S., Ghatak, S., Dobra, K., Götte, M., Vigetti, D., Passi, A., Karamanos, N.K., Skandalis, S.S.
Matrix Biology, 59, pp. 3-22 (2017).
 23. “Enhanced probiotic viability and aromatic profile of yogurts produced using wheat bran (*Triticum aestivum*) as cell immobilization carrier”
Terpou, A., Bekatorou, A., Kanellaki, M., Koutinas, A.A., Nigam, P.
Process Biochemistry, 55, pp. 1-10 (2017).
 24. “Optimization of the synthesis technique of molybdenum sulfide catalysts supported on titania for the hydrodesulfurization of thiophene”
Platanitis, P., Panagiotou, G.D., Bourikas, K., Kordulis, C., Fierro, J.L.G., Lycourghiotis, A.
Reaction Kinetics, Mechanisms and Catalysis, 120 (2), pp. 527-541 (2017).
 25. “Lumican effectively regulates the estrogen receptors-associated functional properties of breast cancer cells, expression of matrix effectors and epithelial-to-mesenchymal transition”

- Karamanou, K., Franchi, M., Piperigkou, Z., Perreau, C., Maquart, F.-X., Vynios, D.H., Brézillon, S.
Scientific Reports, 7, art. no. 45138 (2017).
26. “Morphological control of porous membranes based on aromatic polyether/water soluble polymers”
Karamessini, D., Ch. Lainioti, G., Deimede, V., Kallitsis, J.K.
Journal of Applied Polymer Science, 134 (9), art. no. APP44539 (2017).
 27. “Production of a novel probiotic yogurt by incorporation of L. casei enriched fresh apple pieces, dried raisins and wheat grains”
Bosnea, L.A., Kopsahelis, N., Kokkali, V., Terpou, A., Kanellaki, M.
Food and Bioproducts Processing, 102, pp. 62-71 (2017).
 28. “Assessment of free and immobilized kefir culture in simultaneous alcoholic and malolactic cider fermentations”
Nikolaou, A., Galanis, A., Kanellaki, M., Tassou, C., Akrida-Demertzi, K., Kourkoutas, Y.
LWT - Food Science and Technology, 76, pp. 67-78 (2017).
 29. “Protein bio-corona: critical issue in immune nanotoxicology”
Neagu, M., Piperigkou, Z., Karamanou, K., Engin, A.B., Docea, A.O., Constantin, C., Negrei, C., Nikitovic, D., Tsatsakis, A.
Archives of Toxicology, 91 (3), pp. 1031-1048 (2017).
 30. “Enhancing water vapor permeability in mixed matrix polypropylene membranes through carbon nanotubes dispersion”
Bounos, G., Andrikopoulos, K.S., Moschopoulou, H., Lainioti, G.C., Roilo, D., Checchetto, R., Ioannides, T., Kallitsis, J.K., Voyiatzis, G.A.
Journal of Membrane Science, 524, pp. 576-584 (2017).
 31. “The reversed-flow gas chromatography technique as a tool for the study of the evaporation retardation of SO₂ and (CH₃)₂S from water by soluble surfactants”
Sevastos, D., Kotsalos, E., Koliadima, A.
Science of the Total Environment, 578, pp. 290-296 (2017).
 32. “IGF-IR cooperates with ER α to inhibit breast cancer cell aggressiveness by regulating the expression and localisation of ECM molecules”
Afratis, N.A., Bouris, P., Skandalis, S.S., Multhaupt, H.A., Couchman, J.R., Theocharis, A.D., Karamanos, N.K.
Scientific Reports, 7, art. no. 40138 (2017).
 33. “Sour milk production by wheat bran supported probiotic biocatalyst as starter culture”
Terpou, A., Gialleli, A.-I., Bekatorou, A., Dimitrellou, D., Ganatsios, V., Barouni, E., Koutinas, A.A., Kanellaki, M.
Food and Bioproducts Processing, 101, pp. 184-192 (2017).
 34. “Green diesel production over nickel-alumina co-precipitated catalysts”

- Gousi, M., Andriopoulou, C., Bourikas, K., Ladas, S., Sotiriou, M., Kordulis, C., Lycourghiotis, A.
Applied Catalysis A: General, 536, pp. 45-56 (2017).
35. “Glycerol steam reforming over modified Ru/Al₂O₃ catalysts”
Kousi, K., Kondarides, D.I., Verykios, X.E., Papadopoulou, C.
Applied Catalysis A: General, 542, pp. 201-211 (2017).
 36. “Influence of the surface-to-bulk defects ratio of ZnO and TiO₂ on their UV-mediated photocatalytic activity”
Aggelopoulos, C.A., Dimitropoulos, M., Govatsi, A., Sygellou, L., Tsakiroglou, C.D., Yannopoulos, S.N.
Applied Catalysis B: Environmental, 205, pp. 292-301 (2017).
 37. “Probing the synergistic ratio of the NiMo/Γ-Al₂O₃ reduced catalysts for the transformation of natural triglycerides into green diesel”
Kordouli, E., Sygellou, L., Kordulis, C., Bourikas, K., Lycourghiotis, A.
Applied Catalysis B: Environmental, 209, pp. 12-22 (2017).
 38. “Cyclic MOG₃₅ ameliorates clinical and neuropathological features of experimental autoimmune encephalomyelitis”
Lourbopoulos, A., Deraos, G., Matsoukas, M.-T., Touloumi, O., Giannakopoulou, A., Kalbacher, H., Grigoriadis, N., Apostolopoulos, V., Matsoukas, J.
Bioorganic and Medicinal Chemistry, 25 (15), pp. 4163-4174 (2017).
 39. “Synthesis of novel artemisinin dimers with polyamine linkers and evaluation of their potential as anticancer agents”
Magoulas, G.E., Tsigkou, T., Skondra, L., Lamprou, M., Tsoukala, P., Kokkinogouli, V., Pantazaka, E., Papaioannou, D., Athanassopoulos, C.M., Papadimitriou, E.
Bioorganic and Medicinal Chemistry, 25 (14), pp. 3756-3767 (2017).
 40. “HDO activity of carbon-supported Rh, Ni and Mo-Ni catalysts”
Kordouli, E., Kordulis, C., Lycourghiotis, A., Cole, R., Vasudevan, P.T., Pawelec, B., Fierro, J.L.G.
Molecular Catalysis, 441, pp. 209-220 (2017).
 41. “Chelation therapy: The interaction of British Anti-Lewisite (BAL) with some heavy metal cations of p and d blocks”
Ioannou, P.V., Vachliotis, D.G., Chrissanthopoulos, A.
Main Group Chemistry, 16 (2), pp. 125-139 (2017).
 42. “Sustainable production of a new generation biofuel by lipase-catalyzed esterification of fatty acids from liquid industrial waste biomass”
Foukis, A., Gkini, O.A., Stergiou, P.-Y., Sakkas, V.A., Dima, A., Boura, K., Koutinas, A., Papamichael, E.M.

- Bioresource Technology*, 238, pp. 122-128 (2017).
43. “Scale-up for esters production from straw whiskers for biofuel applications”
Dima, A., Boura, K., Bekatorou, A., Stergiou, P.-Y., Foukis, A., Gkini, O.A., Kandyliis, P., Pissaridi, K., Kanellaki, M., Papamichael, E.M., Koutinas, A.A.
Bioresource Technology, 242, pp. 109-112 (2017).
 44. “Quantum spectral rototranslational collision-induced absorption (CIA) in CO₂ and CO₂-Rg pairs (Rg = He, Ar and Xe): An insightful analysis based on new empirical multi-property isotropic intermolecular potentials”
El-Kader, M.S.A., Maroulis, G.
Chemical Physics Letters, 670, pp. 95-101 (2017).
 45. “Probing the electronic structure of a copper(II) complex by CW- and pulse-EPR spectroscopy”
Lada, Z.G., Sanakis, Y., Raptopoulou, C.P., Psycharis, V., Perlepes, S.P., Mitrikas, G.
Dalton Transactions, 46 (26), pp. 8458-8475 (2017).
 46. “A unique copper(ii)-assisted transformation of acetylacetonone dioxime in acetone that leads to one-dimensional, quinoxaline-bridged coordination polymers”
Lada, Z.G., Soto Beobide, A., Savvidou, A., Raptopoulou, C.P., Psycharis, V., Voyiatzis, G.A., Turnbull, M.M., Perlepes, S.P.
Dalton Transactions, 46 (1), pp. 260-274 (2017).
 47. “Guest induced hysteretic tristability in 3D pillared Hofmann-type microporous metal-organic frameworks”
Polyzou, C.D., Laloti, N., Psycharis, V., Tangoulis, V.
New Journal of Chemistry, 41 (21), pp. 12384-12387 (2017).
 48. “New generation biofuel from whey: Successive acidogenesis and alcoholic fermentation using immobilized cultures on Γ -alumina”
Boura, K., Kandyliis, P., Bekatorou, A., Kolliopoulos, D., Vasileiou, D., Panas, P., Kanellaki, M., Koutinas, A.A.
Energy Conversion and Management, 135, pp. 256-260 (2017).
 49. “Binding of ligands containing carbonyl and phenol groups to iron(iii): new Fe₆, Fe₁₀ and Fe₁₂ coordination clusters”
Kitos, A.A., Papatriantafyllopoulou, C., Tasiopoulos, A.J., Perlepes, S.P., Escuer, A., Nastopoulos, V.
Dalton Transactions, 46 (10), pp. 3240-3251 (2017).
 50. “Spectral lineshapes of collision-induced absorption (CIA) using isotropic intermolecular potential for mixtures of molecular hydrogen with helium”
El-Kader, M.S.A., Maroulis, G.
Chemical Physics Letters, 684, pp. 141-147 (2017).

51. “Assessment of PM_{2.5} sources and their corresponding level of uncertainty in a coastal urban area using EPA PMF 5.0 enhanced diagnostics”
Manousakas, M., Papaefthymiou, H., Diapouli, E., Migliori, A., Karydas, A.G., Bogdanovic-Radovic, I., Eleftheriadis, K.
Science of the Total Environment, 574, pp. 155-164 (2017).
52. “Spectral line shapes of collision-induced light scattering (CILS) and collision-induced absorption (CIA) using isotropic intermolecular potential for H₂–Ar”
El-Kader, M.S.A., Godet, J.-L., El-Sadek, A.A., Maroulis, G.
Molecular Physics, 115 (20), pp. 2614-2625 (2017).
53. “Cyclic citrullinated MBP_{87–99} peptide stimulates T cell responses: Implications in triggering disease”
Apostolopoulos, V., Deraos, G., Matsoukas, M.-T., Day, S., Stojanovska, L., Tselios, T., Androutsou, M.-E., Matsoukas, J.
Bioorganic and Medicinal Chemistry, 25 (2), pp. 528-538 (2017).
54. “Porous cellulose as promoter of oil production by the oleaginous yeast *Lipomyces starkeyi* using mixed agroindustrial wastes”
Ganatsios, V., Koutinas, A.A., Bekatorou, A., Panagopoulos, V., Banat, I.M., Terpou, A., Kopsahelis, N.
Bioresource Technology, 244, pp. 629-634 (2017).
55. “"Switching on" the single-molecule magnet properties within a series of dinuclear cobalt(III)-dysprosium(III) 2-pyridyloximate complexes”
Polyzou, C.D., Koumoussi, E.S., Lada, Z.G., Raptopoulou, C.P., Psycharis, V., Rouzières, M., Tsipis, A.C., Mathonière, C., Clérac, R., Perlepes, S.P.
Dalton Transactions, 46 (43), pp. 14812-14825 (2017).
56. “Matrix pathobiology—central roles for proteoglycans and heparanase in health and disease”
Karamanos, N.K.
FEBS Journal, 284 (1), pp. 7-9 (2017).
57. “Syndecans – key regulators of cell signaling and biological functions”
Afratis, N.A., Nikitovic, D., Mulhaupt, H.A.B., Theocharis, A.D., Couchman, J.R., Karamanos, N.K.
FEBS Journal, 284 (1), pp. 27-41 (2017).
58. “Recovery and quantification of a myelin oligodendrocyte glycoprotein peptide from rat plasma after protein precipitation”
Kontos, C., Androutsou, M.-E., Vlamis-Gardikas, A., Tselios, T.
Analytical Biochemistry, 538, pp. 71-73 (2017).
59. “Effect of chloride and nitrate salts on Hg(II) sorption by raw and pyrolyzed malt spent rootlets”
Boutsika, L.G., Karapanagioti, H.K., Manariotis, I.D.
Journal of Chemical Technology and Biotechnology, 92 (8), pp. 1912-1918 (2017).

60. “Multiple sclerosis: Immunopathology and treatment update”
Dargahi, N., Katsara, M., Tselios, T., Androutsou, M.-E., De Courten, M., Matsoukas, J., Apostolopoulos, V.
Brain Sciences, 7 (7), art. no. 78 (2017).

61. “Design and synthesis of non-peptide mimetics mapping the immunodominant myelin basic protein (MBP83-96) epitope to function as T-cell receptor antagonists”
Yannakakis, M.-P., Simal, C., Tzoupis, H., Rodi, M., Dargahi, N., Prakash, M., Mouzaki, A., Platts, J.A., Apostolopoulos, V., Tselios, T.V.
International Journal of Molecular Sciences, 18 (6), art. no. 1215 (2017) .