

YEAR 2012

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

1. “Solvent-dependent access to two different Ni⁴ II core topologies from the first use of pyridine-2,6-dimethanol in nickel(II) cluster chemistry”
Alexopoulou, K.I., Raptopoulou, C.P., Psycharis, V., Terzis, A., Tangoulis, V., Stamatatos, T.C., Perlepes, S.P.
Australian Journal of Chemistry, 65 (12), pp. 1608-1619 (2012).
2. “Responses of lumbriculus variegatus to activated carbon amendments in uncontaminated sediments”
Nybom, I., Werner, D., Leppänen, M.T., Siavalas, G., Christanis, K., Karapanagioti, H.K., Kukkonen, J.V.K., Akkanen, J.
Environmental Science and Technology, 46 (23), pp. 12895-12903 (2012).
3. “High-efficiency polymer solar cells based on phenylenevinylene copolymer with BF₂-azopyrrole complex and CN-PC 70BM with solvent additive”
Singh, S.P., Pavan Kumar, C., Sharma, G.D., Mikroyannidis, J.A., Singh, M., Kurchania, R.
Journal of Polymer Science, Part B: Polymer Physics, 50 (23), pp. 1612-1618 (2012).
4. “Expression of matrix macromolecules and functional properties of breast cancer cells are modulated by the bisphosphonate zoledronic acid”
Dedes, P.G., Gialeli, C., Tsonis, A.I., Kanakis, I., Theocharis, A.D., Kletsas, D., Tzanakakis, G.N., Karamanos, N.K.
Biochimica et Biophysica Acta - General Subjects, 1820 (12), pp. 1926-1939 (2012).
5. “Preface: Lectures presented at the International Conference on Computational Methods in Science and Engineering (Rhodes, Greece, 29 September - 4 October, 2009)”
Maroulis, G., Simos, T.
AIP Conference Proceedings, 1504, pp. 1-2 (2012).
6. “Tris(dimethyldithioarsinato) complexes of group 15 metals, M(S₂AsMe₂)₃ [M = (As), Sb, Bi]”
Ioannou, P.V., Vachliotis, D.G.
Main Group Chemistry, 11 (4), pp. 267-273 (2012).
7. “Rationally designed cyclic analogues of luteinizing hormone-releasing hormone: Enhanced enzymatic stability and biological properties”
Laimou, D., Katsila, T., Matsoukas, J., Schally, A., Gkountelias, K., Liapakis, G., Tamvakopoulos, C., Tselios, T.
European Journal of Medicinal Chemistry, 58, pp. 237-247 (2012).

8. "Imbalance of MMP-2 and MMP-9 expression versus TIMP-1 and TIMP-2 reflects increased invasiveness of human testicular germ cell tumours"
Milia-Argeiti, E., Huet, E., Labropoulou, V.T., Mourah, S., Fenichel, P., Karamanos, N.K., Menashi, S., Theocharis, A.D.
International Journal of Andrology, 35 (6), pp. 835-844 (2012).
9. "Esterification equilibrium constants of arsonic and arsinic acids"
Tsivgoulis, G.M., Ioannou, P.V.
Monatshefte fur Chemie, 143 (12), pp. 1603-1608 (2012).
10. "Applying conventional Ab initio and density functional theory approaches to electric property calculations. Quantitative aspects and perspectives"
Maroulis, G.
Structure and Bonding, 149, pp. 95-130 (2012).
11. "Synthesis and characterization of a new perylene bisimide (PBI) derivative and its application as electron acceptor for bulk heterojunction polymer solar cells"
Sharma, G.D., Roy, M.S., Mikroyannidis, J.A., Justin Thomas, K.R.
Organic Electronics: physics, materials, applications, 13 (12), pp. 3118-3129 (2012).
12. "Floating plastics, plastic pellets, and organic micropollutants in the Mediterranean Sea"
Karapanagioti, H.K.
Life in the Mediterranean Sea: A Look at Habitat Changes, pp. 543-555 (2012).
13. "Nonlinear properties and collisional spectra in hydrogen-(heavy) noble-gas-atom mixtures"
Głaz, W., Bancewicz, T., Maroulis, G., Haskopoulos, A., Godet, J.-L.
Journal of Physics: Conference Series, 397 (1), art. no. 012044 (2012).
14. "Removal of mercury from aqueous solutions by malt spent rootlets"
Anagnostopoulos, V.A., Manariotis, I.D., Karapanagioti, H.K., Chrysikopoulos, C.V.
Chemical Engineering Journal, 213, pp. 135-141 (2012).
15. "Novel technology development through thermal drying of encapsulated *kluveromyces marxianus* in micro- and nano-tubular cellulose in lactose fermentation and its evaluation for food production"
Papapostolou, H., Servetas, Y., Bosnea, L.A., Kanellaki, M., Koutinas, A.A.
Applied Biochemistry and Biotechnology, 168 (8), pp. 2148-2159 (2012).
16. "Dithienylthienothiadiazole-based organic dye containing two cyanoacrylic acid anchoring units for dye-sensitized solar cells"
Sharma, G.D., Mikroyannidis, J.A., Roy, M.S., Thomas, K.R.J., Ball, R.J., Kurchania, R.
RSC Advances, 2 (30), pp. 11457-11464 (2012).

17. "Employment of methyl 2-pyridyl ketone oxime in 3d/4f-metal chemistry: Dinuclear nickel(ii)/lanthanide(iii) species and complexes containing the metals in separate ions"
Polyzou, C.D., Nikolaou, H., Papatriantafyllopoulou, C., Psycharis, V., Terzis, A., Raptopoulou, C.P., Escuer, A., Perlepes, S.P.
Dalton Transactions, 41 (44), pp. 13755-13764 (2012).
18. "Corrigendum to "Alcohol production from sterilized and non-sterilized molasses by *Saccharomyces cerevisiae* immobilized on brewer's spent grains in two types of continuous bioreactor systems" [Biomass Bioenerg, 45 (2012) 87-94]"
Kopsahelis, N., Bosnea, L., Bekatorou, A., Tzia, C., Kanellaki, M.
Biomass and Bioenergy, 46, p. 809 (2012).
19. "New insights into collision-induced rototranslational absorption and scattering spectra of gaseous methane at different temperatures"
El-Kader, M.S.A., Maroulis, G.
Journal of Molecular Spectroscopy, 281 (1), pp. 28-39 (2012).
20. "Development of Cu 2+- and/or phosphonium-based polymeric biocidal materials and their potential application in antifouling paints"
Oikonomou, E.K., Iatridi, Z., Moschakou, M., Damigos, P., Bokias, G., Kallitsis, J.K.
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Sartzi, H., Stoumpos, C.C., Giouli, M., Verginadis, I.I., Karkabounas, S.C., Cunha-Silva, L., Escuer, A., Perlepes, S.P.
Dalton Transactions, 41 (39), pp. 11984-11988 (2012).
22. "Supramolecular patterns of cationic and neutral Ni(ii) complexes from the interplay of hydrogen-bonding, stacking interactions and metal-coordination motifs"
Kounavi, K.A., Moushi, E.E., Manos, M.J., Papatriantafyllopoulou, C., Tasiopoulos, A.J., Nastopoulos, V.
CrystEngComm, 14 (20), pp. 6492-6502 (2012).
23. "The -Cys-X1-X2-Cys- motif of reduced glutaredoxins adopts a consensus structure that explains the low p K a of its catalytic cysteine"
Foloppe, N., Vlamis-Gardikas, A., Nilsson, L.
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24. "Lactose uptake rate measurements by 14C-labelled lactose reveals promotional activity of porous cellulose in whey fermentation by kefir yeast"
Golfonopoulos, A., Soupioni, M., Kopsahelis, N., Tsaousi, K., Koutinas, A.A.
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25. "The biology of small leucine-rich proteoglycans in bone pathophysiology"
Nikitovic, D., Aggelidakis, J., Young, M.F., Iozzo, R.V., Karamanos, N.K., Tzanakakis, G.N.
Journal of Biological Chemistry, 287 (41), pp. 33926-33933 (2012).

26. “Tris(dimethyldithioarsinato) complexes of Group 13 metals, $M(S_2AsMe_2)_3$ ($M = Al, Ga, In, Tl$)”
Ioannou, P.V., Vachliotis, D.G.
Main Group Chemistry, 11 (3), pp. 235-244 (2012).
27. “Dimethylphosphinato and dimethylarsinato complexes of Sb(III) and Bi(III) and their chemistry”
Ioannou, P.V.
Monatshefte fur Chemie, 143 (10), pp. 1349-1356 (2012).
28. “Surface properties of beached plastic pellets”
Fotopoulou, K.N., Karapanagioti, H.K.
Marine Environmental Research, 81, pp. 70-77 (2012).
29. “Thermal crosslinking of aromatic polyethers bearing pyridine groups for use as high temperature polymer electrolytes”
Kalamaras, I., Daletou, M.K., Neophytides, S.G., Kallitsis, J.K.
Journal of Membrane Science, 415-416, pp. 42-50 (2012).
30. “Alcohol production from sterilized and non-sterilized molasses by *Saccharomyces cerevisiae* immobilized on brewer's spent grains in two types of continuous bioreactor systems”
Kopsahelis, N., Bosnea, L., Bekatorou, A., Tzia, C., Kanellaki, M.
Biomass and Bioenergy, 45, pp. 87-94 (2012).
31. “Targeting the tumor proteasome as a mechanism to control the synthesis and bioactivity of matrix macromolecules”
Skandalis, S.S., Aletras, A.J., Gialeli, C., Theocharis, A.D., Afratis, N., Tzanakakis, G.N., Karamanos, N.K.
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Magoulas, G.E., Garnelis, T., Athanassopoulos, C.M., Papaioannou, D., Mattheolabakis, G., Avgoustakis, K., Hadjipavlou-Litina, D.
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33. “Inhaled chemotherapy in lung cancer: Safety concerns of nanocomplexes delivered”
Zarogoulidis, P., Gialeli, C., Karamanos, N.K.
Therapeutic Delivery, 3 (9), pp. 1021-1023 (2012).
34. “Erratum: Efficient bulk heterojunction photovoltaic devices based on diketopyrrolopyrrole containing small molecule as donor and modified PCBM derivatives as electron acceptors (Organic Electronics: Physics, Materials, Applications (2012) 13 (652-666))”
Sharma, G.D., Mikroyannidis, J.A., Sharma, S.S., Roy, M.S., Justin Thomas, K.R.
Organic Electronics: physics, materials, applications, 13 (9), pp. 1763-1764 (2012).

35. “The study of the influence of temperature and initial glucose concentration on the fermentation process in the presence of *saccharomyces cerevisiae* yeast strain immobilized on starch gels by reversed-flow gas chromatography”
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36. “Management of malignant pleural effusion by suicide gene therapy in advanced stage lung cancer: A case series and literature review”
Zarogoulidis, P., Chatzaki, E., Hohenforst-Schmidt, W., Goldberg, E.P., Galaktidou, G., Kontakiotis, T., Karamanos, N., Zarogoulidis, K.
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37. “Solution processed bulk heterojunction polymer solar cells with low band gap DPP-CN small molecule sensitizer”
Sharma, G.D., Singh, S.P., Roy, M.S., Mikroyannidis, J.A.
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38. “The discovery of new potent non-peptide Angiotensin II AT1 receptor blockers: A concise synthesis, molecular docking studies and biological evaluation of N-substituted 5-butylimidazole derivatives”
Agelis, G., Resvani, A., Durdagi, S., Spyridaki, K., Tůmová, T., Slaninová, J., Giannopoulos, P., Vlahakos, D., Liapakis, G., Mavromoustakos, T., Matsoukas, J.
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39. “Insights into targeting colon cancer cell fate at the level of proteoglycans / glycosaminoglycans”
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40. “IQGAP1 regulates hyaluronan-mediated fibroblast motility and proliferation”
Kozlova, I., Ruusala, A., Voytyuk, O., Skandalis, S.S., Heldin, P.
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41. “Modelling of low temperature wine-making, using immobilized cells”
Kandyli, P., Mantzari, A., Koutinas, A.A., Kookos, I.K.
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45. "Organic bulk heterojunction solar cells based on solution processable small molecules (A- π -A) featuring 2-(4-nitrophenyl) acrylonitrile acceptors and phthalimide-based π -linkers"
Sharma, G.D., Mikroyannidis, J.A., Kurchania, R., Thomas, K.R.J.
Journal of Materials Chemistry, 22 (28), pp. 13986-13995 (2012).
46. "Rototranslational collision-induced absorption and collision-induced light scattering spectra of molecular hydrogen using isotropic intermolecular potentials"
El-Kader, M.S.A., Maroulis, G., Bich, E.
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47. "Efficient bulk heterojunction solar cells based on D-A copolymers as electron donors and PC 70BM as electron acceptor"
Sharma, G.D., Mikroyannidis, J.A., Singh, S.P.
Materials Chemistry and Physics, 135 (1), pp. 25-31 (2012).
48. "Single-strand molecular wheels and coordination polymers in copper(II) benzoate chemistry by the employment of α -Benzoin oxime and azides: Synthesis, structures, and magnetic characterization"
Stamatatos, T.C., Vlahopoulou, G., Raptopoulou, C.P., Psycharis, V., Escuer, A., Christou, G., Perlepes, S.P.
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Thivaos, I., Diamantis, I., Bokias, G., Kallitsis, J.K.
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52. "Effect of deoxycholic acid on the performance of liquid electrolyte dye-sensitized solar cells using a perylene monoimide derivative"
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54. “Effect of pressure and temperature on alcoholic fermentation by *Saccharomyces cerevisiae* immobilized on γ -alumina pellets”
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55. “Biomechanical and structural changes following the decellularization of bovine pericardial tissues for use as a tissue engineering scaffold”
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58. “An extracellular *Staphylococcus epidermidis* polysaccharide: Relation to Polysaccharide Intercellular Adhesin and its implication in phagocytosis”
Spiliopoulou, A.I., Krevvata, M.I., Kolonitsiou, F., Harris, L.G., Wilkinson, T.S., Davies, A.P., Dimitracopoulos, G.O., Karamanos, N.K., Mack, D., Anastassiou, E.D.
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59. “Highly active catalysts for the photooxidation of organic compounds by deposition of [60] fullerene onto the MCM-41 surface: A green approach for the synthesis of fine chemicals”
Kyriakopoulos, J., Tzirakis, M.D., Panagiotou, G.D., Alberti, M.N., Triantafyllidis, K.S., Giannakaki, S., Bourikas, K., Kordulis, C., Orfanopoulos, M., Lycourghiotis, A.
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61. “Quantifying the performance of conventional DFT methods on a class of difficult problems: The interaction (hyper)polarizability of two water molecules as a test case”
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62. “Preparation of thiolates of arsenic(III) and bismuth(III) with dithioerythritol, 2-mercaptoethanesulfonic acid and its sodium salt, 6-mercaptopurine and its riboside”
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63. “Kinetic study of oxygen adsorption over nanosized Au/ γ -Al₂O₃ supported catalysts under selective CO oxidation conditions”
Gavril, D., Georgaka, A., Karaiskakis, G.
Molecules, 17 (5), pp. 4878-4895 (2012).
64. ““Squaring the clusters”: A Mn^{III}4Ni^{II}4 molecular square from nickel(ii)-induced structural transformation of a Mn^{II/III/IV}12 cage”
Alexandropoulos, D.I., Manos, M.J., Papatriantafyllopoulou, C., Mukherjee, S., Tasiopoulos, A.J., Perlepes, S.P., Christou, G., Stamatatos, T.C.
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65. “Assessment of PCBs exposure in human hair using double focusing high resolution mass spectrometry and single quadrupole mass spectrometry”
Barbounis, E.G., Tzatzarakis, M.N., Alegakis, A.K., Kokkinaki, A., Karamanos, N., Tsakalof, A., Tsatsakis, A.M.
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68. “Efficient bulk heterojunction photovoltaic devices based on diketopyrrolopyrrole containing small molecule as donor and modified PCBM derivatives as electron acceptors”
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69. “Glycosaminoglycans: Key players in cancer cell biology and treatment”
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70. “Assessing the effect of grain-scale sorption rate limitations on the fate of
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Werner, D., Karapanagioti, H.K., Sabatini, D.A.
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72. “Metal ion-assisted transformations of 2-pyridinealdoxime and
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(O₃)”
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78. “Pentanuclear complexes with unusual structural topologies from the initial use of two aliphatic amino-alcohol ligands in Fe chemistry”
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79. “Crucial role of granulocytic myeloid-derived suppressor cells in the regulation of central nervous system autoimmune disease”
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Sharma, G.D., Mikroyannidis, J.A., Singh, S.P.
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