

YEAR 2014

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

1. “An alternative methodology for anchoring organic sensitizers onto TiO₂ semiconductors for photoelectrochemical applications”
Giannopoulos, P., Nikolakopoulou, A., Andreopoulou, A.K., Sygellou, L., Kallitsis, J.K., Lianos, P.
Journal of Materials Chemistry A, 2 (48), pp. 20748-20759 (2014).
2. “Significance of age, temperature, and aeration of yeast cell culture for the biosorption of europium from aquatic systems”
Anagnostopoulos, V.A., Symeopoulos, B.D.
Desalination and Water Treatment, 7 p. Article in Press (2014).
3. “Bioinspired syntheses of dimeric hydroxycinnamic acids (Lignans) and hybrids, using phenol oxidative coupling as key reaction, and medicinal significance thereof “
Magoulas, G.E., Papaioannou, D.
Molecules, 19 (12), pp. 19769-19835 (2014).
4. “Structural and magnetic variations in tetranuclear NiII clusters: The effect of the reaction solvent and ligand substitution on product identity”
Perlepe, P.S., Athanasopoulou, A.A., Alexopoulou, K.I., Raptopoulou, C.P., Psycharis, V., Escuer, A., Perlepes, S.P., Stamatatos, T.C.
Dalton Transactions, 43 (44), pp. 16605-16609 (2014).
5. “Use of Pistacia terebinthus resin as immobilization support for Lactobacillus casei cells and application in selected dairy products”
Schoina, V., Terpou, A., Angelika-Ioanna, G., Koutinas, A., Kanellaki, M., Bosnea, L.
Journal of Food Science and Technology, 52 (9), pp. 5700-5708 (2014).
6. “Rational design and synthesis of altered peptide ligands based on human myelin oligodendrocyte glycoprotein 35-55 epitope: Inhibition of chronic experimental autoimmune encephalomyelitis in mice”
Tselios, T., Aggelidakis, M., Tapeinou, A., Tseveleki, V., Kanistras, I., Gatos, D., Matsoukas, J.
Molecules, 19 (11), pp. 17968-17984 (2014).
7. “Novel insights into matrix pathobiology regulatory mechanisms in health and disease”
Karamanos, N.K., Passi, A.
The FEBS journal, 281 (22), pp. 4978-4979 (2014).

8. "Promotion of maltose fermentation at extremely low temperatures using a cryotolerant *saccharomyces cerevisiae* strain immobilized on porous cellulosic material"
Ganatsios, V., Koutinas, A.A., Bekatorou, A., Kanellaki, M., Nigam, P.
Enzyme and Microbial Technology, 66, pp. 56-59 (2014).
9. "Cell-matrix interactions: focus on proteoglycan-proteinase interplay and pharmacological targeting in cancer"
Theocharis, A.D., Gialeli, C., Bouris, P., Giannopoulou, E., Skandalis, S.S., Aletras, A.J., Iozzo, R.V., Karamanos, N.K.
The FEBS journal, 281 (22), pp. 5023-5042 (2014).
10. "Unexpected metal ion-assisted transformations leading to unexplored bridging ligands in NiII coordination chemistry: The case of PO₃F₂⁻ group"
Dermitzaki, D., Raptopoulou, C.P., Psycharis, V., Escuer, A., Perlepes, S.P., Stamatatos, T.C.
Dalton Transactions, 43 (39), pp. 14520-14524 (2014).
11. "The kinetic of dyes degradation resulted from food industry in wastewater using high frequency of ultrasound"
Matouq, M., Al-Anber, Z., Susumu, N., Tagawa, T., Karapanagioti, H.
Separation and Purification Technology, 135, pp. 42-47 (2014).
12. "Lateral flow devices for nucleic acid analysis exploiting quantum dots as reporters"
Sapountzi, E.A., Tragoulias, S.S., Kalogianni, D.P., Ioannou, P.C., Christopoulos, T.K.
Analytica Chimica Acta, Article in Press (2014).
13. "Preparation and toxicological assessment of functionalized carbon nanotube-polymer hybrids"
Koromilas, N.D., Lainioti, G.C., Gialeli, C., Barbouri, D., Kouravelou, K.B., Karamanos, N.K., Voyiatzis, G.A., Kallitsis, J.K.
PLoS ONE, 9 (9), art. no. e107029 (2014).
14. "Determination of water-soluble and insoluble elements in PM_{2.5} by ICP-MS"
Manousakas, M., Papaefthymiou, H., Eleftheriadis, K., Katsanou, K.
Science of the Total Environment, 493, pp. 694-700 (2014).
15. "Doubly-grafted copolymers with hydrophilic and thermosensitive side chains: Thermosensitivity and complexation with surfactants"
Daktiloudis, A., Chronaios, A., Mavriki, N., Iatridi, Z., Bokias, G.
Journal of Colloid and Interface Science, 430, pp. 293-301 (2014).
16. "The fac diastereoisomer of tris(2-pyridinealdoximato)cobalt(III) and a cationic cobalt(III) complex containing both the neutral and anionic forms of the ligand: Synthetic, structural and spectroscopic studies Dedicated to Professor Panayiotis V. Ioannou for his great contribution to the development of Inorganic Chemistry in Greece and on the occasion of his retirement."

Polyzou, C.D., Lada, Z.G., Terzis, A., Raptopoulou, C.P., Psycharis, V., Perlepes, S.P.

Polyhedron, 79, pp. 29-36 (2014).

17. “N-hydroxysuccinimidyl p-methoxybenzoate as suitable derivative reagent for isotopic dilution assay of biogenic amines in food”

Mazzotti, F., Di Donna, L., Napoli, A., Aiello, D., Siciliano, C., Athanassopoulos, C.M., Sindona, G.

Journal of Mass Spectrometry, 49 (9), pp. 802-810 (2014).

18. “The bridging azido ligand as a central "player" in high-nuclearity 3d-metal cluster chemistry”

Escuer, A., Esteban, J., Perlepes, S.P., Stamatatos, T.C.

Coordination Chemistry Reviews, 275, pp. 87-129 (2014).

19. “Spectral lineshapes of collision-induced absorption (CIA) and collision-induced light scattering (CILS) for molecular nitrogen using isotropic intermolecular potential. New insights and perspectives”

El-Kader, M.S.A., Mostafa, S.I., Bancewicz, T., Maroulis, G.

Chemical Physics, 440, pp. 127-134 (2014).

20. “Intermolecular polarizabilities in H₂-rare-gas mixtures (H₂-He, Ne, Ar, Kr, Xe): Insight from collisional isotropic spectral properties”

Głaz, W., Bancewicz, T., Godet, J.-L., Gustafsson, M., Maroulis, G., Haskopoulos, A.

Journal of Chemical Physics, 141 (7), art. no. 074315 (2014).

21. “Discrete and encapsulated molecular grids: Homometallic Mn₁₅ and heterometallic Mn₂₄Ni₂ aggregates”

Charalambous, M., Zartilas, S.M., Moushi, E.E., Papatriantafyllopoulou, C., Manos, M.J., Stamatatos, T.C., Mukherjee, S., Nastopoulos, V., Christou, G., Tasiopoulos, A.J.

Chemical Communications, 50 (65), pp. 9090-9093 (2014).

22. “Ochratoxin A levels in Greek retail wines”

Sarigiannis, Y., Kapolos, J., Koliadima, A., Tsegenidis, T., Karaiskakis, G.

Food Control, 42, pp. 139-143 (2014).

23. “Evaluation of *Lactobacillus casei* ATCC 393 protective effect against spoilage of probiotic dry-fermented sausages”

Sidira, M., Galanis, A., Nikolaou, A., Kanellaki, M., Kourkoutas, Y.

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24. “Application of hydrophobically modified water-soluble polymers for the dispersion of hydrophobic magnetic nanoparticles in aqueous media”

Iatridi, Z., Georgiadou, V., Menelaou, M., Dendrinou-Samara, C., Bokias, G.

Dalton Transactions, 43 (23), pp. 8633-8643 (2014).

25. “A versatile approach for creating hybrid semiconducting polymer-fullerene architectures for organic electronics”

- Kakogianni, S., Kourkouli, S.N., Andreopoulou, A.K., Kallitsis, J.K.
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26. “Comparative study of the kinetic approach on the alcoholic fermentation procedure conducted in laboratory and scale-up systems by inverse gas chromatography”
Lainioti, G., Kapolos, J., Koliadima, A., Karaiskakis, G.
Acta Chromatographica, 26 (2), pp. 371-389 (2014).
27. “Temperature-Dependent evolution of the molecular configuration of oxo-tungsten(VI) species deposited on the surface of titania”
Tribalis, A., Panagiotou, G.D., Tsilomelekis, G., Kalampounias, A.G., Bourikas, K., Kordulis, C., Boghosian, S., Lycourghiotis, A.
Journal of Physical Chemistry C, 118 (21), pp. 11319-11332 (2014).
28. “Alcohol and dilution water characteristics in distilled anis (Ouzo)”
Karapanagioti, H.K., Bekatorou, A.
Journal of Agricultural and Food Chemistry, 62 (21), pp. 4932-4937 (2014).
29. “ZnII/pyridyloxime complexes as potential reactivators of OP-inhibited acetylcholinesterase: In vitro and docking simulation studies”
Konidaris, K.F., Dalkas, G.A., Katsoulakou, E., Pairas, G., Raptopoulou, C.P., Lamari, F.N., Spyroulias, G.A., Manessi-Zoupa, E.
Journal of Inorganic Biochemistry, 134, pp. 12-19 (2014).
30. “Structure-activity relationships of two *Rhodnius prolixus* calcitonin-like diuretic hormone analogs”
Zandawala, M., Poulos, C., Orchard, I.
Peptides, Article in Press (2014).
31. “Cyclic peptide analogs of 558-565 epitope of A2 subunit of Factor VIII prolong aPTT. Toward a novel synthesis of anticoagulants”
Anastasopoulos, C., Sarigiannis, Y., Stavropoulos, G.
Amino Acids, 46 (4), pp. 1087-1096 (2014).
32. “Transformation of α -limonene into p-cymene over oxide catalysts: A green chemistry approach”
Kamitsou, M., Panagiotou, G.D., Triantafyllidis, K.S., Bourikas, K., Lycourghiotis, A., Kordulis, C.
Applied Catalysis A: General, 474, pp. 224-229 (2014).
33. “Boron-modified Ni/Al₂O₃ catalysts for reduced carbon deposition during dry reforming of methane”
Fouskas, A., Kollia, M., Kambolis, A., Papadopoulou, C., Matralis, H.
Applied Catalysis A: General, 474, pp. 125-134 (2014).
34. “Tris(2-sulfidopyridine N-oxide- κ 2O,S)arsenic(III): An arsenic(III) complex having three 5-membered rings”
Nastopoulos, V., Ioannou, P.V., Manos, M.J.
Main Group Chemistry, 13 (1), pp. 1-5 (2014).

35. Polymer electrolyte membranes based on blends of sulfonated polysulfone and PEO-grafted polyethersulfone for low temperature water electrolysis
Deimede, V., Labou, D., Neophytides, S.G.
Journal of Applied Polymer Science, 131 (4), art. no. 39922 (2014) .
36. “A simplified approach for FSHD molecular testing”
Papanikos, F., Skoulatou, C., Sakellariou, P., Kekou, K., Christopoulos, T.K., Kanavakis, E., Traeger-Synodinos, J., Ioannou, P.C.
Clinica Chimica Acta, 429, pp. 96-103 (2014).
37. “Effective survival of immobilized *Lactobacillus casei* during ripening and heat treatment of probiotic dry-fermented sausages and investigation of the microbial dynamics”
Sidira, M., Karapetsas, A., Galanis, A., Kanellaki, M., Kourkoutas, Y.
Meat Science, 96 (1), pp. 948-955 (2014).
38. ”Aqueous phenanthrene toxicity after high-frequency ultrasound degradation”
Dailianis, S., Tsarpali, V., Melas, K., Karapanagioti, H.K., Manariotis, I.D.
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39. “Methanol dehydration to dimethylether over Al₂O₃ catalysts”
Akarmazyan, S.S., Panagiotopoulou, P., Kambolis, A., Papadopoulou, C., Kondarides, D.I.
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40. “Dynamic interplay between breast cancer cells and normal endothelium mediates the expression of matrix macromolecules, proteasome activity and functional properties of endothelial cells”
Gialeli, C., Viola, M., Barbouri, D., Kletsas, D., Passi, A., Karamanos, N.K.
Biochimica et Biophysica Acta - General Subjects, 1840 (8), pp. 2549-2559 (2014).
41. “Conjugation with polyamines enhances the antibacterial and anticancer activity of chloramphenicol”
Kostopoulou, O.N., Kouvela, E.C., Magoulas, G.E., Garnelis, T., Panagoulas, I., Rodi, M., Papadopoulos, G., Mouzaki, A., Dinos, G.P., Papaioannou, D., Kalpaxis, D.L.
Nucleic Acids Research, 42 (13), pp. 8621-8634 (2014).
42. “Synthesis and properties of alkaline stable pyridinium containing anion exchange membranes”
Vöge, A., Deimede, V., Kallitsis, J.K.
RSC Advances, 4 (85), pp. 45040-45049 (2014).
43. “Thiolates of arsenic(III), antimony(III), and bismuth(III) with dl- α -dihydrolipoic acid”
Ioannou, P.V., Tsivgoulis, G.M.
Monatshefte fur Chemie, 145 (6), pp. 897-909 (2014).

44. “The application of solid-state NMR spectroscopy to study candesartan cilexetil (TCV-116) membrane interactions. Comparative study with the AT1R antagonist drug olmesartan”
Ntountaniotis, D., Kellici, T., Tzakos, A., Kolokotroni, P., Tselios, T., Becker-Baldus, J., Glaubitz, C., Lin, S., Makriyannis, A., Mavromoustakos, T.
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45. “Preparation of 2,4,6-trisphosphinyl-1,3,5-triazine (1,3,5- triazinetriphosphonic acid)”
Ioannou, P.V.
Main Group Chemistry, 13 (2), pp. 147-151 (2014).
46. “Calculated isotropic Raman spectra from interacting H₂-rare-gas pairs”
Gustafsson, M., Głaz, W., Bancewicz, T., Godet, J.-L., Maroulis, G., Haskapoulos, A.
Journal of Physics: Conference Series, 548 (1), art. no. 012027 (2014).
47. “Dinuclear, tetrakis(acetato)-bridged lanthanide(III) complexes from the use of 2-acetylpyridine hydrazone”
Anastasiadis, N.C., Mylonas-Margaritis, I., Psycharis, V., Raptopoulou, C.P., Kalofolias, D.A., Milios, C.J., Klouras, N., Perlepes, S.P.
Inorganic Chemistry Communications, 51, pp. 99-102 (2014).
48. “An efficient synthetic method and theoretical calculations of olmesartan methyl ether: Study of biological function of AT1 antagonism”
Ntountaniotis, D., Agelis, G., Resvani, A., Halabalaki, M., Liapakis, G., Spyridaki, K., Golic Grdadolnik, S., Merzel, F., Kostidis, S., Potamitis, C., Tselios, T., Matsoukas, J., Skaltsounis, L.A., Mavromoustakos, T.
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49. “EMMPRIN/CD147-enriched membrane vesicles released from malignant human testicular germ cells increase MMP production through tumor-stroma interaction”
Milia-Argeiti, E., Mourah, S., Vallée, B., Huet, E., Karamanos, N.K., Theocharis, A.D., Menashi, S.
Biochimica et Biophysica Acta - General Subjects, 1840 (8), pp. 2581-2588 (2014).
50. “PDGF/PDGFR signaling and targeting in cancer growth and progression: Focus on tumor microenvironment and cancer-associated fibroblasts”
Gialeli, C., Nikitovic, D., Kletsas, D., Theocharis, A.D., Tzanakakis, G.N., Karamanos, N.K.
Current Pharmaceutical Design, 20 (17), pp. 2843-2848 (2014).
51. “Levels and fate of perfluoroalkyl substances in beached plastic pellets and sediments collected from Greece”
Llorca, M., Farré, M., Karapanagioti, H.K., Barceló, D.
Marine Pollution Bulletin, 87 (1), pp. 286-291 (2014).

52. “A UPLC-MS method for the determination of ofloxacin concentrations in aqueous humor”
Plotas, P., Anastasopoulos, C., Makri, O.E., Leotsinidis, M., Georgakopoulos, C.D.
Analytical Chemistry Insights, 9 (9), pp. 27-32 (2014).
53. “Tris{2,4-bis(2-pyridyl)-1,3,5-triazapentanedienato}manganese(III), a complex derived from a unique metal ion-assisted transformation of pyridine-2-amidoxime”
Duros, V., Sartzi, H., Teat, S.J., Sanakis, Y., Roubeau, O., Perlepes, S.P.
Inorganic Chemistry Communications, 50, pp. 117-121 (2014).
54. “Continuous Cold Pasteurisation of Contaminated Wine Using Nano- and Micro-Tubular Cellulose”
Gialleli, A.-I., Kallis, M., Bekatorou, A., Kanellaki, M., Koutinas, A.A.
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55. “Structure of Co(II) species formed on the surface of γ -alumina upon interfacial deposition”
Vakros, J., Bourikas, K., Kordulis, C., Lycourghiotis, A.
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56. “Titanium dioxide (Anatase and Rutile): Surface chemistry, liquid-solid interface chemistry, and scientific synthesis of supported catalysts”
Bourikas, K., Kordulis, C., Lycourghiotis, A.
Chemical Reviews, 114 (19), pp. 9754-9823 (2014).
57. “Lumican affects tumor cell functions, tumor-ECM interactions, angiogenesis and inflammatory response”
Nikitovic, D., Papoutsidakis, A., Karamanos, N.K., Tzanakakis, G.N.
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58. “Influence of temperature and pH on the transfer of SO₂ from water to air by inverse gas chromatography”
Sevastos, D., Koliadima, A.
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59. “Lactic acid fermentation by cells immobilised on various porous cellulosic materials and their alginate/poly-lactic acid composites”
Kumar, M.N., Gialleli, A.-I., Masson, J.B., Kandyliis, P., Bekatorou, A., Koutinas, A.A., Kanellaki, M.
Bioresource Technology, 165 (C), pp. 332-335 (2014).
60. “Immune responses of linear and cyclic PLP₁₃₉₋₁₅₁ mutant peptides in SJL/J mice: Peptides in their free state versus mannan conjugation”
Katsara, M., Deraos, S., Tselios, T.V., Pietersz, G., Matsoukas, J., Apostolopoulos, V.
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61. “Synthesis and self-association in dilute aqueous solution of hydrophobically modified polycations and polyampholytes based on 4-vinylbenzyl chloride”
Koromilas, N.D., Lainioti, G.Ch., Oikonomou, E.K., Bokias, G., Kallitsis, J.K.
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63. “Evaluating the non-hygroscopic bismuth subsalicylate, bismuth oxychloride and bismuth subnitrate monohydrate as starting reagents for the preparation of bismuth(III) thiolates”
Ioannou, P.V.
Main Group Chemistry, 13 (4), pp. 329-341 (2014).
64. “Cross-talk between estradiol receptor and EGFR/IGF-IR signaling pathways in estrogen-responsive breast cancers: Focus on the role and impact of proteoglycans”
Skandalis, S.S., Afratis, N., Smirlaki, G., Nikitovic, D., Theocharis, A.D., Tzanakakis, G.N., Karamanos, N.K.
Matrix Biology, 35, pp. 182-193 (2014).
65. “An organic cation as a silver(i) analogue for the arylation of sp² and sp³ C-H bonds with iodoarenes”
Arroniz, C., Denis, J.G., Ironmonger, A., Rassias, G., Larrosa, I.
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66. “Synthesis and properties of aromatic polyethers containing poly(ethylene oxide) side chains as polymer electrolytes for lithium ion batteries”
Vöge, A., Deimede, V., Paloukis, F., Neophytides, S.G., Kallitsis, J.K.
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Panagiotopoulou, P., Papadopoulou, C., Matralis, H., Verykios, X.
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68. “Isothiocyanate analogs targeting CD44 receptor as an effective strategy against colon cancer”
Misra, S., Ghatak, S., Vyas, A., O'Brien, P., Markwald, R.R., Khetmalas, M., Hascall, V.C., McCarthy, J.B., Karamanos, N.K., Tammi, M.I., Tammi, R.H., Prestwich, G.D., Padhye, S.
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69. “Freeze-dried *Saccharomyces cerevisiae* cells immobilized on potato pieces for low-temperature winemaking”
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70. “A ruthenium-based light-harvesting antenna bearing an anthracene moiety in dye-sensitized solar cells”
 Vougioukalakis, G.C., Konstantakou, M., Pefkianakis, E.K., Kabanakis, A.N., Stergiopoulos, T., Kontos, A.G., Andreopoulou, A.K., Kallitsis, J.K., Falaras, P.
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71. “Favouring butyrate production for a new generation biofuel by acidogenic glucose fermentation using cells immobilised on γ -alumina”
 Syngiridis, K., Bekatorou, A., Kandyli, P., Larroche, C., Kanellaki, M., Koutinas, A.A.
Bioresource Technology, 161, pp. 118-123 (2014).
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 Papatriantafyllopoulou, C., Nastopoulos, V., Ioannou, P.V.
Zeitschrift für Anorganische und Allgemeine Chemie, 640 (8-9), pp. 1654-1657 (2014).
73. “EGFR and HER2 exert distinct roles on colon cancer cell functional properties and expression of matrix macromolecules”
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 Kyriakopoulos, J., Papastavrou, A.T., Panagiotou, G.D., Tzirakis, M.D., Triantafyllidis, K.S., Alberti, M.N., Bourikas, K., Kordulis, C., Orfanopoulos, M., Lycourghiotis, A.
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 Skandalis, S.S., Gialeli, C., Theocharis, A.D., Karamanos, N.K.
Advances in Cancer Research, 123, pp. 277-317 (2014).
76. “Hydrodeoxygenation of phenol over hydrotreatment catalysts in their reduced and sulfided states”
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Food Chemistry, 145, pp. 710-716 (2014).

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Korpetinou, A., Skandalis, S.S., Labropoulou, V.T., Smirlaki, G., Noulas, A., Karamanos, N.K., Theocharis, A.D.
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81. “FACE analysis as a fast and reliable methodology to monitor the sulfation and total amount of chondroitin sulfate in biological samples of clinical importance”
Karousou, E., Asimakopoulou, A., Monti, L., Zafeiropoulou, V., Afratis, N., Gartaganis, P., Rossi, A., Passi, A., Karamanos, N.K.
Molecules, 19 (6), pp. 7959-7980 (2014).
82. “The differential proliferative response of fetal and adult human skin fibroblasts to TGF- β is retained when cultured in the presence of fibronectin or collagen”
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83. “Expression of thioredoxins and glutaredoxins in human hepatocellular carcinoma: Correlation to cell proliferation, tumor size and metabolic syndrome”
Mollbrink, A., Jawad, R., Vlamis-Gardikas, A., Edenvik, P., Isaksson, B., Danielsson, O., Stål, P., Fernandes, A.
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