

YEAR 2011

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

1. “Low molecular weight heparin inhibits melanoma cell adhesion and migration through a PKCa/JNK signaling pathway inducing actin cytoskeleton changes”
Chalkiadaki, G., Nikitovic, D., Katonis, P., Berdiaki, A., Tsatsakis, A., Kotsikogianni, I., Karamanos, N.K., Tzanakakis, G.N.
Cancer Letters, 312 (2), pp. 235-244 (2011).
2. “Development of an internal reforming alcohol fuel cell: Concept, challenges and opportunities”
Avgouropoulos, G., Ioannides, T., Kallitsis, J.K., Neophytides, S.
Chemical Engineering Journal, 176-177, pp. 95-101 (2011).
3. “Impact of nitrogen deficiency on biomass production, leaf gas exchange, and betacyanin and total phenol concentrations in red beet (*beta vulgaris* L. ssp. *vulgaris*) plants”
Salahas, G., Papasavvas, A., Giannakopoulos, E., Tselios, T., Konstantopoulou, H., Savvas, D.
European Journal of Horticultural Science, 76 (5), pp. 194-200 (2011).
4. “Sulfonated aromatic polyethers containing pyridine units as electrolytes for high temperature fuel cells”
Kalamaras, I., Daletou, M.K., Gregoriou, V.G., Kallitsis, J.K.
Fuel Cells, 11 (6), pp. 921-931 (2011).
5. “Application of novel starter cultures for sourdough bread production”
Plessas, S., Alexopoulos, A., Mantzourani, I., Koutinas, A., Voidarou, C., Stavropoulou, E., Bezirtzoglou, E.
Anaerobe, 17 (6), pp. 486-489 (2011).
6. “The search for cobalt single-molecule magnets: A disk-like Co III/CoII 6 cluster with a ligand derived from a novel transformation of 2-acetylpyridine”
Kitos, A.A., Efthymiou, C.G., Papatriantafyllopoulou, C., Nastopoulos, V., Tasiopoulos, A.J., Manos, M.J., Wernsdorfer, W., Christou, G., Perlepes, S.P.
Polyhedron, 30 (18), pp. 2987-2996 (2011).
7. “A NiIII cubane with a ligand derived from a unique metal ion-promoted, crossed-aldol reaction of acetone with di-2-pyridyl ketone”
Efthymiou, C.G., Papatriantafyllopoulou, C., Aromi, G., Teat, S.J., Christou, G., Perlepes, S.P.
Polyhedron, 30 (18), pp. 3022-3025 (2011).

8. “The first non-acetato members of the bis(anion)octacarboxylatotetrakis{di- 2-pyridyl-methanediolate(-2)}enneametal(II) family of complexes: Synthesis, X-ray structures and magnetism of $[M_9(N_3)_2(O_2CCMe_3)_8(py)_2CO_2]_4$ ($M = Co, Ni$)”
Stamatatos, T.C., Raptopoulou, C.P., Perlepes, S.P., Boudalis, A.K.
Polyhedron, 30 (18), pp. 3026-3033 (2011).
9. “Triangular $Ni^{III} 2Ln^{III}$ and $Ni^{II} 2Y^{III}$ complexes derived from di-2-pyridyl ketone: Synthesis, structures and magnetic properties”
Georgopoulou, A.N., Efthymiou, C.G., Papatriantafyllopoulou, C., Psycharis, V., Raptopoulou, C.P., Manos, M., Tasiopoulos, A.J., Escuer, A., Perlepes, S.P.
Polyhedron, 30 (18), pp. 2978-2986 (2011).
10. “The reaction of bismuth nitrate pentahydrate, $Bi(NO_3)_3 \cdot 5H_2O$, with some heterobifunctional aliphatic thiols”
Ioannou, P.V.
Main Group Chemistry, 10 (3-4), pp. 243-254 (2011).
11. “The use of bismuth nitrate pentahydrate, $Bi(NO_3)_3 \cdot 5H_2O$, and bismuth subnitrate monohydrate, $BiO(NO_3) \cdot H_2O$, for the preparation of tris(arylthio)bismuthines”
Ioannou, P.V.
Main Group Chemistry, 10 (3-4), pp. 255-264 (2011).
12. “High performance polymer electrolytes based on main and side chain pyridine aromatic polyethers for high and medium temperature proton exchange membrane fuel cells”
Geormezi, M., Chochos, C.L., Gourdoupi, N., Neophytides, S.G., Kallitsis, J.K.
Journal of Power Sources, 196 (22), pp. 9382-9390 (2011).
13. “Role of Receptor for Hyaluronic Acid-mediated Motility (RHAMM) in Low Molecular Weight Hyaluronan (LMWHA)- mediated fibrosarcoma cell adhesion”
Kouvidi, K., Berdiaki, A., Nikitovic, D., Katonis, P., Afratis, N., Hascall, V.C., Karamanos, N.K., Tzanakakis, G.N.
Journal of Biological Chemistry, 286 (44), pp. 38509-38520 (2011).
14. “Conformational studies of immunodominant myelin basic protein 1-11 analogues using NMR and molecular modeling”
Laimou, D., Lazoura, E., Troganis, A.N., Matsoukas, M.-T., Deraos, S.N., Katsara, M., Matsoukas, J., Apostolopoulos, V., Tselios, T.V.
Journal of Computer-Aided Molecular Design, 25 (11), pp. 1019-1032 (2011).
15. “Preparation and properties of fully esterified erythritol”
Ioannou, P.V., Lala, M.A., Tsivgoulis, G.M.
European Journal of Lipid Science and Technology, 113 (11), pp. 1357-1362 (2011).
16. “Efficient bulk heterojunction solar cells using an alternating phenylenevinylene copolymer with dithenyl(thienothiadiazaole) segments as donor and PCBM or modified PCBM as acceptor”

- Mikroyannidis, J.A., Tsagkournos, D.V., Balraju, P., Sharma, G.D.
Solar Energy Materials and Solar Cells, 95 (11), pp. 3025-3035 (2011).
17. “The effect of structural variations on aromatic polyethers for high-temperature PEM fuel cells”
Morfopoulou, C., Andreopoulou, A.K., Kallitsis, J.K.
Journal of Polymer Science, Part A: Polymer Chemistry, 49 (20), pp. 4325-4334 (2011).
18. “Quadruple-allele dipstick test for simultaneous visual genotyping of A896G (Asp299Gly) and C1196T (Thr399Ile) polymorphisms in the toll-like receptor-4 gene”
Litos, I.K., Ioannou, P.C., Christopoulos, T.K., Tzetis, M., Kanavakis, E., Traeger-Synodinos, J.
Clinica Chimica Acta, 412 (21-22), pp. 1968-1972 (2011).
19. “Parathyroid hormone affects the fibroblast growth factor-proteoglycan signaling axis to regulate osteosarcoma cell migration”
Datsis, G.A., Berdiaki, A., Nikitovic, D., Mytilineou, M., Katonis, P., Karamanos, N.K., Tzanakakis, G.N.
FEBS Journal, 278 (19), pp. 3782-3792 (2011).
20. “Initial employment of pyridine-2-amidoxime in zinc(II) chemistry: Synthetic, structural and spectroscopic studies of mononuclear and dinuclear complexes”
Konidaris, K.F., Bekiari, V., Katsoulakou, E., Raptopoulou, C.P., Psycharis, V., Perlepes, S.P., Stamataos, T.C., Manessi-Zoupa, E.
Inorganica Chimica Acta, 376 (1), pp. 470-478 (2011).
21. “Conformational analysis of aliskiren, a potent renin inhibitor, using high-resolution nuclear magnetic resonance and molecular dynamics simulations”
Matsoukas, M.-T., Zoumpoulakis, P., Tselios, T.
Journal of Chemical Information and Modeling, 51 (9), pp. 2386-2397 (2011).
22. “An empirical multi-parameter anisotropic intermolecular potential, collision-induced absorption and predicted collision-induced light scattering spectra for CF₄-He”
El-Kader, M.S.A., Maroulis, G.
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23. “Absolute quantification of the alleles in somatic point mutations by bioluminometric methods based on competitive polymerase chain reaction in the presence of a locked nucleic acid blocker or an allele-specific primer”
Iliadi, A., Petropoulou, M., Ioannou, P.C., Christopoulos, T.K., Anagnostopoulos, N.I., Kanavakis, E., Traeger-Synodinos, J.
Analytical Chemistry, 83 (17), pp. 6545-6551 (2011).
24. “Conformational analysis of the MBP 83-99 (Phe 91) and MBP 83-99 (Tyr 91) peptide analogues and study of their interactions with the HLA-DR2 and human TCR receptors by using Molecular Dynamics”

Potamitis, C., Matsoukas, M.-T., Tselios, T., Mavromoustakos, T., Golič Grdadolnik, S.

Journal of Computer-Aided Molecular Design, 25 (9), pp. 837-853 (2011).

25. “A comparison between INAA and ICP-MS for the determination of element concentrations in marine sediments”

Papaefthymiou, H., Papatheodorou, G.

Journal of Radioanalytical and Nuclear Chemistry, 289 (3), pp. 679-688 (2011).

26. “Bioanalysis young investigator: Despina Kalogianni”

Kalogianni, D., Christopoulos, T.

Bioanalysis, 3 (17), pp. 1907-1908 (2011).

27. “Photocatalysis and photoelectrocatalysis using (CdS-ZnS)/TiO₂ combined photocatalysts”

Antoniadou, M., Daskalaki, V.M., Balis, N., Kondarides, D.I., Kordulis, C., Lianos, P.

Applied Catalysis B: Environmental, 107 (1-2), pp. 188-196 (2011).

28. “Novel zinc porphyrin with phenylenevinylene meso-substituents: Synthesis and application in dye-sensitized solar cells”

Mikroyannidis, J.A., Charalambidis, G., Coutsolelos, A.G., Balraju, P., Sharma, G.D.

Journal of Power Sources, 196 (15), pp. 6622-6628 (2011).

29. “Versican but not decorin accumulation is related to malignancy in mammographically detected high density and malignant-appearing microcalcifications in non-palpable breast carcinomas”

Skandalis, S.S., Labropoulou, V.T., Ravazoula, P., Likaki-Karatza, E., Dobra, K., Kalofonos, H.P., Karamanos, N.K., Theocharis, A.D.

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30. “Preparation, characterization and biological relevance of calcium(II)/diethylmalonate(-1,-2) complexes”

Chrysomallidou, K.E., Perlepes, S.P., Terzis, A., Raptopoulou, C.P.

Inorganica Chimica Acta, 373 (1), pp. 262-265 (2011).

31. “Collision-induced hyper-Rayleigh light scattering in gaseous dihydrogen-neon mixtures”

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

Physical Review A - Atomic, Molecular, and Optical Physics, 84 (1), art. no. 012503 (2011).

32. “Empirical pair polarizability anisotropy and interatomic potential for monatomic gas mixture of Kr and Xe”

El-Kader, M.S.A., El-Sadek, A.A., Taher, B.M., Maroulis, G.

Molecular Physics, 109 (13), pp. 1677-1689 (2011).

33. “Unexpected formation, X-ray structure, and characterization of the triangular [Ti 3O(OMe) 6(σ 5-C 5H 5) 3](I 3) complex from hydrolysis and methanolysis of [Ti(σ 5-C 5H 5) 2I 2]”
Stamatatos, T.C., Perlepes, S.P., Manos, M.J., Tasiopoulos, A.J., Klouras, N.
Journal of Coordination Chemistry, 64 (13), pp. 2377-2387 (2011).
34. “An ab initio study of CX₃-substitution (X=H, F, Cl, Br, I) effects on the static electric polarizability and hyperpolarizability of diacetylene”
Karamanis, P., Maroulis, G.
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35. “Low-Temperature winemaking by thermally dried immobilized yeast on delignified brewer's spent grains”
Tsaousi, K., Velli, A., Akarepis, F., Bosnea, L., Drouza, C., Koutinas, A.A., Bekatorou, A.
Food Technology and Biotechnology, 49 (3), pp. 379-384 (2011).
36. “Monitoring serum chondroitin sulfate levels in patients submitted to coronary artery bypass surgery”
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Biomedical Chromatography, 25 (7), pp. 748-750 (2011).
37. “New photosensitizer with phenylenebisthiophene central unit and cyanovinylene 4-nitrophenyl terminal units for dye-sensitized solar cells”
Mikroyannidis, J.A., Suresh, P., Roy, M.S., Sharma, G.D.
Electrochimica Acta, 56 (16), pp. 5616-5623 (2011).
38. “Cross-linking of side chain unsaturated aromatic polyethers for high temperature polymer electrolyte membrane fuel cell applications”
Papadimitriou, K.D., Paloukis, F., Neophytides, S.G., Kallitsis, J.K.
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39. “On the use of organotin reagents for the preparation of partially esterified glycerol and meso-erythritol”
Ioannou, P.V., Tsivgoulis, G.M.
Main Group Chemistry, 10 (2), pp. 115-125 (2011).
40. “The nucleophilicity of M(SPh)₃ (M = P, As) and L-As(SPh)₂ (L = Ph, 2-O 2N-Ph) towards fatty acyl chlorides, RCOCl”
Ioannou, P.V., Tsivgoulis, G.M.
Main Group Chemistry, 10 (2), pp. 177-185 (2011).
41. “Interfacial Impregnation Chemistry in the Synthesis of Chromium Catalysts Supported on Titania”
Petsi, T., Panagiotou, G.D., Bourikas, K., Kordulis, C., Voyiatzis, G.A., Lycourghiotis, A.
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Nikitovic, D., Chalkiadaki, G., Berdiaki, A., Aggelidakis, J., Katonis, P., Karamanos, N.K., Tzanakakis, G.N.
International Journal of Biochemistry and Cell Biology, 43 (6), pp. 928-935 (2011).
43. “Comparative study of extra virgin olive oil flavor profile of Koroneiki variety (*Olea europaea* var. *Microcarpa alba*) cultivated in Greece and Tunisia during one period of harvesting”
Kandyliis, P., Vekiari, A.S., Kanellaki, M., Grati Kamoun, N., Msallem, M., Kourkoutas, Y.
LWT - Food Science and Technology, 44 (5), pp. 1333-1341 (2011).
44. “High frequency interaction-induced anisotropic rototranslational light scattering spectra of gaseous carbon dioxide”
El-Kader, M.S.A., Bancewicz, T., Maroulis, G.
Acta Physica Polonica A, 119 (6), pp. 838-845 (2011).
45. “Adherence of *Staphylococcus epidermidis* to human endothelial cells is associated with a polysaccharidic component of its extracellular mucous layer”
Krevvata, M.I., Spiliopoulou, A., Anastassiou, E.D., Karamanos, N., Kolonitsiou, F.
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46. “Electric multipole moments, polarizability, and hyperpolarizability of xenon dihydride (HXeH)”
Maroulis, G.
Theoretical Chemistry Accounts, 129 (3-5), pp. 437-445 (2011).
47. “Simultaneous coordination of a ketone by two cadmium(II) ions and conversion to its gem-diolate(- 1) form”
Katsoulakou, E., Bekiari, V., Raptopoulou, C.P., Terzis, A., Manessi-Zoupa, E., Powell, A., Perlepes, S.P.
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48. “Hydrodesulfurization catalyst bodies with various Co and Mo profiles”
Vakros, J., Papadopoulou, C., Lycourghiotis, A., Kordulis, C.
Applied Catalysis A: General, 399 (1-2), pp. 211-220 (2011).
49. “A [Mn 32] double-decker wheel”
Manoli, M., Inglis, R., Manos, M.J., Nastopoulos, V., Wernsdorfer, W., Brechin, E.K., Tasiopoulos, A.J.
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Misra, S., Heldin, P., Hascall, V.C., Karamanos, N.K., Skandalis, S.S., Markwald, R.R., Ghatak, S.
FEBS Journal, 278 (9), pp. 1429-1443 (2011).

51. “Low band-gap phenylenevinylene and fluorenevinylene small molecules containing triphenylamine segments: Synthesis and application in bulk heterojunction solar cells”
Mikroyannidis, J.A., Kabanakis, A.N., Sharma, S.S., Sharma, G.D.
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52. “Atomic and molecular nonlinear optics: Theory, experiment and computation: A homage to the pioneering work of Stanislaw Kielich (1925-1993)”
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54. “Microwave-assisted solid-phase peptide synthesis of the 60-110 domain of human pleiotrophin on 2-chlorotrityl resin”
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55. “Carbon nano-strings as reporters in lateral flow devices for DNA sensing by hybridization”
Kalogianni, D.P., Boutsika, L.M., Kouremenou, P.G., Christopoulos, T.K., Ioannou, P.C.
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56. “Interaction-induced electric properties in Kr-Ne from ab initio and DFT calculations. Is there a discrepancy between theory and experiment for the dipole moment?”
Chantzis, A., Maroulis, G.
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Xenides, D., Hantzis, A., Maroulis, G.
Chemical Physics, 382 (1-3), pp. 80-87 (2011).
58. “Synthesis of a broadly absorbing modified PCBM and application as electron acceptor with poly(3-Hexylthiophene) as electron donor in efficient bulk heterojunction solar cells”
Mikroyannidis, J.A., Tsagkournos, D.V., Sharma, S.S., Sharma, G.D.
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Mikroyannidis, J.A., Tsagkournos, D.V., Balraju, P., Sharma, G.D.
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61. “A nanoparticle-based sensor for visual detection of multiple mutations”
Elenis, D.S., Ioannou, P.C., Christopoulos, T.K.
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62. “Efficient bulk heterojunction solar cells based on a broadly absorbing phenylenevinylene copolymer containing thiophene and pyrrole rings”
Mikroyannidis, J.A., Kabanakis, A.N., Suresh, P., Sharma, G.D.
Journal of Physical Chemistry C, 115 (14), pp. 7056-7066 (2011).
63. “Pathophysiology and pharmacological targeting of tumor-induced bone disease: Current status and emerging therapeutic interventions”
Labropoulou, V.T., Theocharis, A.D., Symeonidis, A., Skandalis, S.S., Karamanos, N.K., Kalofonos, H.P.
Current Medicinal Chemistry, 18 (11), pp. 1584-1598 (2011).
64. “Utilization of biogas as a renewable carbon source: Dry reforming of methane”
Papadopoulou, C., Matralis, H., Verykios, X.
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65. “Improved power conversion efficiency of bulk heterojunction poly(3-hexylthiophene):PCBM photovoltaic devices using small molecule additive”
Sharma, S.S., Sharma, G.D., Mikroyannidis, J.A.
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66. “Poly(sodium styrene sulfonate)-b-poly(methyl methacrylate) diblock copolymers through direct atom transfer radical polymerization: Influence of hydrophilic-hydrophobic balance on self-organization in aqueous solution”
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67. “Degradation of PAHs by high frequency ultrasound”
Manariotis, I.D., Karapanagioti, H.K., Chrysikopoulos, C.V.
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68. “Low band gap conjugated small molecules containing benzobisthiadiazole and thienothiadiazole central units: Synthesis and application for bulk heterojunction solar cells”
Mikroyannidis, J.A., Tsagkournos, D.V., Sharma, S.S., Vijay, Y.K., Sharma, G.D.
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69. “Charge distribution, electric multipole moments, static polarizability and hyperpolarizability of silene”
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70. “Trinuclear, tetranuclear, and polymeric CuII complexes from the first use of 2-pyridylcyanoxime in transition metal chemistry: Synthetic, structural, and magnetic studies”
Escuer, A., Vlahopoulou, G., Perlepes, S.P., Mautner, F.A.
Inorganic Chemistry, 50 (6), pp. 2468-2478 (2011).
71. “Bond length dependence of the polarizability and hyperpolarizability of boron hydride”
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International Journal of Quantum Chemistry, 111 (4), pp. 807-818 (2011).
72. “Research perspectives and role of lactose uptake rate revealed by its study using ¹⁴C-labelled lactose in whey fermentation”
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74. “Evaluation of a stable gonadotropin-releasing hormone analog in mice for the treatment of endocrine disorders and prostate cancer”
Katsila, T., Balafas, E., Liapakis, G., Limonta, P., Marelli, M.M., Gkountelias, K., Tselios, T., Kostomitsopoulos, N., Matsoukas, J., Tamvakopoulos, C.
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75. “Chondroitin synthases I, II, III and chondroitin sulfate glucuronyltransferase expression in colorectal cancer”
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76. “A modified protocol for isolation and purity evaluation of a staphylococcal acidic polysaccharide by chromatography and capillary electrophoresis”
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77. “A simple and effective modification of PCBM for use as an electron acceptor in efficient bulk heterojunction solar cells”
Mikroyannidis, J.A., Kabanakis, A.N., Sharma, S.S., Sharma, G.D.
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78. "Reactions of the metallocene dichlorides $[M(Cp)_2Cl_2]$ ($M = Zr, Hf$) and $[Ti(MeCp)_2Cl_2]$ with the pyridine-2,6-dicarboxylate(-2) ligand: Synthesis, spectroscopic characterization and X-ray structures of the products"
Stamatatos, T.C., Perlepes, S.P., Raptopoulou, C.P., Psycharis, V., Klouras, N.
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79. "Synthesis and photovoltaic properties of an alternating phenylenevinylene copolymer with substituted-triphenylamine units along the backbone for bulk heterojunction and dye-sensitized solar cells"
Mikroyannidis, J.A., Tsagkournos, D.V., Balraju, P., Sharma, G.D.
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81. "Contribution to interpretation of metal uptake dependence upon the growth phase of microorganisms. the case of uranium (VI) uptake by common yeasts, cultivated at different temperatures, with or without aeration"
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82. "One-dimensional cadmium(II)/bicinate(-1) complexes : the role of the alkali metal ion used in the reaction medium"
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