

ATHANASSIOS CHRIS MITROPOULOS

PERSONAL DATA

Date of Birth : 2 Νοεμβρίου 1957
Nationality : Greek
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EDUCATION

-1983 B.Sc. : Chemistry, University of Thessaloniki GR.
-1985 M.Sc. : Surface Chemistry and Colloids, University of Bristol, UK.
-1990 Ph.D. : Physical Chemistry, University of Bristol, UK.

WORK EXPERIENCE

'84-'88 : Shell Petroleum UK, Research Grant
'86-'89 : M.Sc. Lab in Surface Chem. & Colloids, University of Bristol UK, Demonstrator.
'91-'98 : Department of Trade and Industry GR, Scientific Advisor.
'92-'93 : Department of Energy GR, Advisor to the Energy Committee.
'93-'95 : Air force Academy GR, Adjoined Professor.
'93-'98 : National Center for Scientific Research GR, Research Scientist.
'98-'02 : Kavala Institute of Technology Dpt. of Petroleum Technology, Professor.
'02-'08 : Kavala Institute of Technology, Vice-President.
'08- : Kavala Institute of Technology, President.

RESEARCH INTERESTS

- In situ characterization of porous media by static and dynamic techniques
- Ceramic membranes

PUBLICATIONS

: 47 Journal Papers
: 19 Conference Papers
: 1 Patent
: 4 Books & Monographs
:200+ Citations

SOCIETIES

- Member of the Association of Greek Chemists
- Member of the American Chemical Society
- Member of the Society of Petroleum Engineers
- Member of the advisory board in Chemical Chronicles (general edition)
- Reviewer in many major journals (e.g. Physical Review, Journal of Colloid and Interface Science, Langmuir, Journal of Membrane Science, etc).

RESEARCH ACTIVITY

| | | PROJECT | CONSORTIUM | k€ |
|----|-------------------------|---|---|-----------|
| 1 | BREU CT92-0568 | Carbon membranes | NCSR GR, BP UK, SCT F, Imperial College UK | 135 |
| 2 | BRE2 CT93-0572 | Ultra thin membranes | NCSR GR, IMM D, TNO N | 135 |
| 3 | 92 ΠΣ E-75 | Sorption of pollutants by microporous materials | EΚΕΦΕ, ΕΘΙΑΓΕ, ΚΕΤΕΣ | 55 |
| 4 | GR-F CO-OPER. | Cooling microchip | NCSR GR, U. Bordeaux F | 55 |
| 5 | ΕΠΙΕΤ II E-410 E-165 | Diadermal drugs | EΚΕΦΕ, Φαρμ.Σχ.Αθηνών, LaviFarm ΑΕ | 540 |
| 6 | ΕΠΙΕΤ II E-724 E-172 | Treatment of silica membranes by plasma and CVD | EΚΕΦΕ, ΑΓΕΤ Ηρακλής, ΕΘΙΑΓΕ | 540 |
| 7 | JOULE CT95-0018 | Ceramic membranes | NCSR, British Gas, Imperial College, U.Bath | 1350 |
| 8 | JOULE CT95-0008 | Oil recovery | NCSR Demokritos GR, France du Petrole F, IFE N | 135 |
| 9 | THERMIE OG/00-32/96 | Assessment of oil reservoir | NCSR GR, Shell UK, | 1350 |
| 10 | BREU CT96-0313 | Technology of Zeolites | NCSR GR, British Gas UK, LMPM Montpellier F | 135 |
| 11 | EKBAN E-114 | ROBOWELDER | EΚΕΦΕ, ΝΑΥΣΙ, ΝΕΩΡΙΟ, ΤΕΙ/Α, ΑΛΓΟΕΥΣΤΕΜ ΑΕ | 1000 |
| 12 | TMR | Characterization of Vycor porous glass by SANS | NCSR GR, HMI D | |
| 13 | TMR | Characterization of membranes by SANS | NCSR GR, ISIS UK | |
| 14 | TMR | Characterization of stratum corneum by USANS | NCSR GR, HMI Berlin D | |
| 15 | TMR | Characterization of limemortar by USANS | ΤΕΙ/Κ GR, NCSR GR, HMI D | |
| 16 | TMR | Characterization of stratum corneum by neutron diff. | ΤΕΙ/Κ GR, NCSR GR, HMI D | 10 |
| 17 | TMR | Characterization of stratum corneum by SANS | ΤΕΙ/Κ GR, NCSR GR, HMI D | |
| 18 | TMR | Characterization of stratum corneum by SPIN ECHO | ΤΕΙ/Κ GR, NCSR GR, HMI D | |
| 19 | TMR | Characterization of porous glasses by USANS | ΤΕΙ/Κ GR, NCSR GR, HMI D | |
| 20 | TMR | Characterization of membranes by SANS | NCSR GR, HMI D | |
| 21 | ARCHIMEDES | Hydrogen | ΤΕΙΚ, ΕΚΕΦΕ | 60 |
| 22 | ARCHIMEDES | ROCK N' OIL | ΤΕΙΚ G, KAVALA OIL SA | 50 |
| 23 | INTEREG III | Hybrid Technologies | ΤΕΙΚ GR, | 250 |

PUBLICATIONS

1. A.K.STUBOS, N.KANELLOPOULOS, AND A.C.MITROPOULOS, Network modeling of two-phase flow in porous structures: An alternative for the study of chip cooling enhancement, in cooling of electronic systems, edited by S.Kakac, Kluwer Academic Publ., Netherlands, NATO SCIENCE SERIES E-258, 811-824 (1994)
2. MITROPOULOS AC, HAYNES JM, RICHARDSON RM, KANELLOPOULOS NK, Characterization of porous-glass by adsorption of dibromomethane in conjunction with small-angle x-ray-scattering PHYSICAL REVIEW B 52, 10035-10042 (1995).
3. T.A.STERIOTIS, F.K.KATSAROS, A.MITROPOULOS, A.K.STUBOS, AND N.K.KANELLOPOULOS, Characterisation of porous solids by simplified gas relative permeability measurements, JOURNAL OF POROUS MATERIALS 2, 73-77 (1995).
4. MITROPOULOS AC, HAYNES JM, RICHARDSON RM, STERIOTIS TA, STUBOS AK, KANELLOPOULOS NK, Water adsorption and small angle X-ray scattering studies on the effect of coal thermal treatment, CARBON 34, 775-781 (1996).
5. STERIOTIS TA, KATSAROS FK, MITROPOULOS AC, STUBOS AK, GALIATSATOU P, ZOURIDAKIS N, KANELLOPOULOS NK, Novel design for high pressure, integral, differential, absolute, and relative multicomponent permeability measurements, REVIEW OF SCIENTIFIC INSTRUMENTS 67, 2545-2548 (1996).
6. KATSAROS FK, STERIOTIS TA, STUBOS AK, MITROPOULOS A, KANELLOPOULOS NK, TENNISON S, High pressure gas permeability of microporous carbon membranes, MICROPOROUS MATERIALS 8, 171-176 (1997).
7. STERIOTIS TA, STUBOS AK, MITROPOULOS AC, AND N.K.KANELLOPOULOS, Membrane pore structure characterization in relation to gas flow properties, RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY 71, 1393-1395 (1997).
8. STERIOTIS TA, KATSAROS FK, STUBOS AK, MITROPOULOS AC, KANELLOPOULOS NK, A novel experimental technique for the measurement of the single-phase gas relative permeability of porous solids, MEASUREMENT SCIENCE AND TECHNOLOGY 8, 168-173 (1997).
9. MITROPOULOS A, STERIOTIS T, KATSAROS F, TZEVELEKOS K, KANELLOPOULOS N, KEIDERLING U, STURM A, AND WIEDENMANN A, Neutron scattering from water adsorbed on an alumina membrane, JOURNAL OF MEMBRANE SCIENCE 129, 289-295 (1997).
10. MITROPOULOS AC, MAKRI PK, KANELLOPOULOS NK, KEIDERLING U, WIEDENMANN A, The surface geometry of Vycor, JOURNAL OF COLLOID AND INTERFACE SCIENCE 193, 137-139 (1997).
11. STERIOTIS T, MITROPOULOS A, KANELLOPOULOS N, KEIDERLING U, WIEDENMANN A, Characterization of an alumina membrane by neutron scattering and other techniques, PHYSICA B 234, 1016-1018 (1997).
12. KATSAROS F, MAKRI P, MITROPOULOS A, KANELLOPOULOS N, KEIDERLING U, WIEDENMANN A, On the morphology and surface geometry of Vycor, PHYSICA B 234, 402-404, (1997).
13. STERIOTIS T, BELTSIOS K, MITROPOULOS AC, KANELLOPOULOS N, TENNISON S, WIEDENMAN A, AND KEIDERLING U, On the structure of an asymmetric carbon membrane with a novolac resin precursor, JOURNAL OF APPLIED POLYMER SCIENCE 64, 2323-2345 (1997).
14. A.K.STUBOS, T.A.STERIOTIS, A.CH.MITROPOULOS, G.E.ROMANOS, AND N.K.KANELLOPOULOS, Inorganic membranes: Pore structure characterization, in Physical adsorption: Experiments, Theory, and Applications, edited by J.Fraissard, Kluwer Academic Publishers, Netherlands, NATO SCIENCE SERIES C-491, 461-484 (1997).
15. A.K.STUBOS, A.MITROPOULOS, T.STERIOTIS, F.K.KATSAROS, G.E.ROMANOS, AND N.K.KANELLOPOULOS, Ceramic membranes: Industrial applications, in Physical adsorption: Experiments, Theory, and Applications, edited by J.Fraissard, Kluwer Academic Publishers, Netherlands, NATO SCIENCE SERIES C-491, 485-510 (1997) .

16. MITROPOULOS AC, BELTSIOS K, STERIOTIS TA, KATSAROS FK, MAKRI P, KANELLOPOULOS NK, The combination of equilibrium and dynamic methods for the detailed structural characterisation of ceramic membranes, JOURNAL OF THE EUROPEAN CERAMIC SOCIETY 18, 1545-1558, (1998).
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18. G.CH. CHARALAMBOPOULOU, TH.A. STERIOTIS, A.CH. MITROPOULOS, K.L. STEFANOPOULOS, N.K. KANELLOPOULOS, AND A.IOFFE, Investigation of water sorption on porcine stratum corneum by very small angle neutron scattering, JOURNAL OF INVESTIGATIVE DERMATOLOGY 110, 988-990 (1998).
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20. MITROPOULOS AC, K.L. STEFANOPOULOS AND N.K. KANELLOPOULOS, Coal studies by small angle x-ray scattering, MICROPOROUS AND MESOPOROUS MATERIALS 24, 29-39 (1998).
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22. K. STEFANOPOULOS, G. CHARALAMBOPOULOU, T. STERIOTIS, A. MITROPOULOS, N.KANELLOPOULOS, A. PAPAIOANNOU, A. IOFFE, Investigation of temperature effect on porcine stratum corneum by very small angle neutron scattering, JOURNAL OF CONTROLLED RELEASE 64, 346-347 (2000).
23. K.L. STEFANOPOULOS, K. BELTSIOS, P.K. MAKRI, TH.A. STERIOTIS, A.CH. MITROPOULOS, AND N.K.KANELLOPOULOS, Characterization of the flow properties in Vycor by combining dynamic and scattering techniques, PHYSICA B 276, 477-478 (2000).
24. E.S. KIKKINIDES, T.A. STERIOTIS, A.K. STUBOS, K.L.STEFANOPOULOS, A.C. MITROPOULOS, AND N.K. KANELLOPOULOS, Structural Characterisation and applications of ceramic membranes for gas separations, STUDIES IN SURFACE SCIENCE AND CATALYSIS 128, 429-438 (2000).
25. G. CHARALAMBOPOULOU, T. STERIOTIS, K. STEFANOPOULOS, A.C. MITROPOULOS, N.K.KANELLOPOULOS, AND U. KEIDERLING, Investigation of lipid organization on stratum corneum by water absorption in conjunction with neutron scattering, PHYSICA B 276, 530-531 (2000).
26. F.K KATSAROS, T.A. STERIOTIS, K. L. STEFANOPOULOS, N.K. KANELLOPOULOS, A.CH.MITROPOULOS, M. MEISSNER AND A. HOSER, Neutron diffraction study of adsorbed CO₂ on a carbon membrane, PHYSICA B 276, 901-902 (2000).
27. TH. STERIOTIS, K. BELTSIOS, A. MITROPOULOS, N. KANELLOPOULOS, A. WIEDENMANN, AND U.KEIDERLING, SANS structural study of a microporous carbonized resole, PHYSICA B 276, 903-904 (2000).
28. P.K MAKRI, K.L STEFANOPOULOS, A.CH. MITROPOULOS, N.K. KANELLOPOULOS, AND W. TREIMER, Study on the entrapment of mercury in porous glasses by neutron scattering in conjunction with mercury porosimetry, PHYSICA B 276, 479-480 (2000).
29. E.S. KIKKINIDES, M.E. KAINOURGIAKIS, K.L. STEFANOPOULOS, A.CH. MITROPOULOS, A.K. STUBOS, AND N.K. KANELLOPOULOS, Combination of small angle scattering and three-dimensional stochastic reconstruction for the study of adsorption-desorption processes in Vycor porous glass, JOURNAL OF CHEMICAL PHYSICS 112, 988-9887 (2000).
30. G. CHARALAMBOPOULOU, T. STERIOTIS, K. STEFANOPOULOS, A. STUBOS, N. KANELLOPOULOS, A. MITROPOULOS, AND T. HAUSS, Membrane Neutron Diffraction: A Promising Technique for Stratum Corneum Structural Studies, JOURNAL OF CONTROLLED RELEASE 72, 307-309 (2001).
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Separation by Microporous Ceramic Membranes, edited by N.K.Kanellopoulos, 1st edition, Elsevier Science, Amsterdam, MEMBRANE SCIENCE AND TECHNOLOGY 6, 1-34 (2000).

32. T.A. STERIOTIS, K.L. STEFANOPOULOS, A.Ch. MITROPOULOS, N.K. KANELLOPOULOS, A. HOSER, AND M. HOFMANN, Structural Studies of Supercritical Carbon Dioxide in Confined Space, JOURNAL OF APPLIED PHYSICS A 74, 1333-1335 (2002).
33. E.S. KIKKINIDES, K.L. STEFANOPOULOS, T.A. STERIOTIS, A.Ch. MITROPOULOS, N.K.KANELLOPOULOS, AND W. TREIMER, Combination of SANS and 3D stochastic reconstruction techniques for the study of nanostructured materials, JOURNAL OF APPLIED PHYSICS A 74, 954-956 (2002).
34. K.L. STEFANOPOULOS, A.Ch. MITROPOULOS, E.S. KIKKINIDES, N.K. KANELLOPOULOS, AND A. CHRISTOFORIDES, Study of the microporosity of Vycor porous glass by combining scattering and permeability techniques, JOURNAL OF APPLIED PHYSICS A 74, 1336-1338 (2002).
35. MITROPOULOS AC, K.STEFANOPOULOS, AND N.KANELLOPOULOS, Porous Media: Characterization of, by combining dynamic and equilibrium techniques, Edited by A.Hubbard, MARCEL DEKKER ENCYCLOPEDIA OF SURFACE AND COLLOID SCIENCE pp.942-953 (2002).
36. CHRISTOFORIDES, N. KANELLOPOULOS, A. MITROPOULOS, K. STEFANOPOULOS, AND K. TARCHANIDES, Characterization of controlled pore glasses by small angle x-ray scattering and evaluation of the scattering data by the indirect Fourier transformation method, STUDIES IN SURFACE SCIENCE AND CATALYSIS 144, 769-774 (2002).
37. E.P.FAVVAS, G.C.KAPANTAIDAKIS, J.W.NOLAN, A.Ch.MITROPOULOS AND N.K.KANELLOPOULOS "Preparation, characterization and gas permeation properties of carbon hollow fiber membranes based on Matrimid® 5218 precursors", JOURNAL OF MATERIALS PROCESSING TECHNOLOGY 186, (2007), 102 – 110.
38. S.F.NITODAS, E.P.FAVVAS, G.E.ROMANOS, M.A.PAPADOPOULOU, A.Ch.MITROPOULOS AND N.K.KANELLOPOULOS "Synthesis and Characterization of Hydrogen Selective Silica-based Membranes", JOURNAL OF POROUS MATERIALS 15, 551-557 (2008).
39. E.P.FAVVAS, E.P.KOUVELOU, G.E.ROMANOS, G.I.PILATOS, A.Ch.MITROPOULOS, AND N.K.KANELLOPOULOS "Characterization of highly selective microporous carbon hollow fiber membranes prepared from a commercial co-polyimide precursor", JOURNAL OF POROUS MATERIALS 15, 625-633 (2008).
40. E.P.FAVVAS AND A.Ch.MITROPOULOS "What is a spinodal decomposition?", JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY REVIEW 1, 15-18 (2008).
41. E.S. KIKKINIDES, K.L. STEFANOPOULOS, TH.A. STERIOTIS, A.Ch. MITROPOULOS AND N.K. KANELLOPOULOS, "Characterization of nanostructured materials by combination of neutron scattering and 3D stochastic reconstruction techniques", STUDIES IN SURFACE SCIENCE AND CATALYSIS 160, 415-422 (2007).
42. FAVVAS EP, SAPALIDIS AA, STEFANOPOULOS KL, ROMANOS GE, KANELLOPOULOS NK, KARGIOTIS EK, AND MITROPOULOS AC "Characterisation of carbonate rocks by combination of scattering, porosimetry and permeability techniques", MICROPOPOROUS AND MESOPOROUS MATERIALS 120, 109-114 (2009).
43. MITROPOULOS AC, What is surface excess, JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY REVIEW 1, 1-3 (2008).
44. MITROPOULOS AC, The Kelvin equation, JOURNAL OF COLLOID AND INTERFACE SCIENCE 317, 643-648 (2008).
45. MITROPOULOS AC, Capillarity, JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY REVIEW. 2, 28-32 (2009).
46. MITROPOULOS AC, Is it more difficult to write or to cite a paper, JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY REVIEW 2, 68-70 (2009).
47. MITROPOULOS AC, Small-angle X-ray scattering studies of adsorption in Vycor glass, JOURNAL OF COLLOID AND INTERFACE SCIENCE 336, 679-690 (2009).

PATENT

48. ΜΗΤΡΟΠΟΥΛΟΣ Α.Χρ, Α.Λ. ΒΑΙΡΗΣ, ΚΑΙ Κ.Λ. ΣΤΕΦΑΝΟΠΟΥΛΟΣ, Εξάρτημα Υδραργυρικού Ποροσιμέτρου, ΟΡΓΑΝΙΣΜΟΣ ΒΙΟΜΗΧΑΝΙΚΗΣ ΙΔΙΟΚΤΗΣΙΑΣ ΔΕ:1003538/01.

CONFERENCES

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50. M.KAINOURGIAKIS, A.K.STUBOS, T.STERIOTIS, A.MITROPOULOS, AND N.K.KANELLOPOULOS, A network model for gas permeability in porous membranes, 5th WORLD CONGRESS OF CHEMICAL ENGINEERING 4, 852-856 (1996).
51. F.K.KATSAROS, T.A.STERIOTIS, A.K.STUBOS, A.MITROPOULOS, N.K.KANELLOPOULOS, AND S.TENNISON, Pressure effect on CO₂ permeability of porous carbon membranes, 5th WORLD CONGRESS OF CHEMICAL ENGINEERING 4, 857-862 (1996).
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