

Curriculum vitae

Dr Andreas Sapalidis

Researcher, Institute of Nanoscience and Nanotechnology NCSR “Demokritos”

Personal Information

Surname: **Sapalidis**

Given Name: **Andreas**

Education

- 1998-2002 Degree in Petroleum Technology engineering – Technological educational institute of Kavala
- 2002-2004 Master’s degree in “Polymer science and its applications”. Department of chemistry, National and Kapodestrian University of Athens
- 2004-2009 PhD in “Polymer science and its applications”. Department of chemistry, National and Kapodestrian University of Athens. Thesis title : *“Preparation and characterization of polymer nanocomposites”*

Research Interests

Research interests focus on the development of nanocomposite materials, their characterization and evaluation of performance in energy and environmental applications. In particular

- Development of advanced polymer nanocomposite membranes for water treatment and gas separations
- Development of nanostructured, multifunctional coatings
- Development of novel porous materials (membranes and sorbents) for environmental applications such as water treatment, SO₂ and CO₂ separation and storage, catalysts etc.
Hybrid ceramic membranes for liquid and gas separations
Hybrid carbon membranes
- Development of mixed matrix structures by modification of carbon materials such as nanotubes, graphene, cones and inorganic materials such as silica nanoparticles for nautical and aeronautical applications.

Reviewer in the journals:

Progress in Organic Coatings, Journal of Applied Polymer Science, Science of Advanced Materials, Journal of Composite materials, International Journal of Physical Sciences, Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, Journal of Nanoscience and Nanotechnology, Journal of heat and mass transfer, Applied Energy, Separation and Purification Technology, Sustainable Chemistry and Engineering, Applied Polymer Materials, Polymer Engineering and Science, Chemical Engineering Science, Journal of Material Science, Materials Chemistry and Physics, Membranes, Industrial & Engineering Chemistry Research, Coatings, Materials Letters.

Participation in research projects

As coordinator:

intelWATT, H2020-LOW-CARBON-CIRCULAR-INDUSTRIES-2020, SPIRE-07-2020, *“Intelligent Water Treatment Technologies for water preservation combined with simultaneous energy production and material recovery in energy intensive industries”* . 2020-2024, Total budget : € 12,515,256.25 , Funding : 10,308,277.38

IDEA, ERANETMED 2-72-357, *“Development of a solar powered, zero liquid discharge Integrated DESalination Membrane system to address the needs for water of the Mediterranean region”* 1 September 2017 – 30 August 2020 Total budget: 1,044,830

As Principal Investigator

Advanced Multifunctional Coatings for Outdoor applications (**AMCA**), funded by Stavros Niarchos Foundation, 15th September 2018 – July 2020, Budget 82,000 €

IOLIPURE, ESPA GREECE – CHINA bilateral cooperation 2012-2014 12CHN290 *“Development of Ionic Liquid based selective adsorbents and membranes for the flue gas and carbon dioxide PURification with novel hybrid adsorbent-membrane process”*
Total budget: 424,000 € NCSR Demokritos budget: 225,000 €

As participant/ task leader (selection)

1. **GG-CO2**: *“CO2 separations by using mixed matrix, based on nano-carbon materials, membranes”*, 29/05/2018-28/05/2021 Total Budget: 1,537,194 €, NCSR budget: 257.000 €.
2. **EDBM-103**: *Υποστηριξη Ερευνητων Με Εμφαση Στους Νεους Ερευνητες-Κυκλος Β’ “Ανάπτυξη καινοτόμου καταλυτικής μεμβράνης με νανοσωματίδια χαλκού-παλλαδίου για την αποτελεσματική αντιμετώπιση ρύπων NOx”*, Αναπληρωτής Ακαδημαϊκός Σύμβουλος, 06/04/2020-05/08/2021. Total Budget: 50.000 €
3. **CARBONCOMP**, FP7-PEOPLE-2011-IAPP (286413): *“High-throughput development of carbon-polymer nanocomposites for marine applications*, 01/09/2011-31/08/2015.
Total Budget: 1,537,194 €, NCSR budget: 388,211 €.
4. **SANAD**, FP7-PEOPLE-2012-IAPP, *“Synthesis of Advanced top Nanocoatings with improved Aerodynamic and De-icing behavior”*, Contract No: 324443 (2013-2016). 1/1/2013-31/12/2016. Total budget: 2,872,668.87 €, NCSR budget: 522,156.47€.
5. **NEXT-GTL**, FP7-NMP-2008-4.0-2, *“Innovative catalytic technologies & materials for next gas to liquid processes”*, 01/11/2009-31/10/2013.
Total Budget: 12,570,000 €, NCSR Demokritos Budget 480,000 €.
6. **CAMES**, ESPA GREECE – CHINA bilateral cooperation 2012-2014 12CHN248 *“Carbon Dioxide CAPture using a novel hybrid Membrane/Sorption System”*.
Total budget: 450,000 € NCSR Demokritos budget :200,000 €
7. **Archimedes III**, MIS 380353, *“Development of high strength materials using carbon nanotubes”*. Total budget (40 subprojects 4,000,000 €
8. **NEXT-GEN-CAT** (FP7-NMP-2011-SMALL-5 (280890): *“Development of NEXT GENERATION cost efficient automotive CATalysts”*, 01/02/2012-31/01/2016.
Total Budget 5,615,292.40€, NCSR Demokritos budget: 777,428.00 €

9. **CERAMEM** GRD2-2000-30372 “Ceramic Membranes for Olefin-Parafin Separations”, NCSR “DEMOKRITOS”, Chemical Process Engineering Research Institute Centre for Research and Technology Hellas, Laboratoire des Agregats Moleculaires et Materiaux Inorganiques, LEIA C.D.T. (Parque Tecnologico de Alava), ECO Ceramics BV, SENER INGENIERNA Y SISTEMAS, S.A., Hellenic Petroleum/Aspropyrgos Refinery, Centro de Investigación de Repsol-YPF, Catalysis Department- Dirección de Tecnología, Laboratoire des Matériaux et Procédés Membranaires, CEC-Research DG,(Demokritos Budget: 680.000 €)
10. **BIOPAL** QLK5-CT-2002-02431: “Algae as raw material for production of bioplastics contributing to sustainable development of European coastal regions”, CEVA, Solutions Plastiques, Centro Ricerche Fiat, University of Pisa, ENEA, Organic Waste Systems, DEMOKRITOS, Communauté de Communes, Amt Klützer Winkel (Demokritos Budget: 414.000 €)
11. **EPAN - HYDROCELL** F.P. 39 14010/19-10-2003, “Development of Production Technologies for Hydrogen used in Fuel Cells” NCSR “DEMOKRITOS”, Silver & Baryte Co S.A., Phosphorous Fertilizers Industry, Motor Oil Hellas S.A. DEYAMV, ENOIA CERTH/CPERI, HELLASHY(Demokritos Budget: 299.4 kEuro).
12. **Inside_Pores**, Network of Excellence (NoE) : “IN-Situ study and DEvelopment of processes involving nano-PORous Solids”, National Center for Scientific Research "Demokritos", Coordinator : NCSR(D HL), Centre Nationale de la Recherche Scientifique, CNRS (F), University of Leipzig, Department of Interface Physics, UNILEP (D), University of Antwerp, UA-UIA (B), Imperial College, Imperial (UK), Universität Stuttgart, Institut für Technische Chemie I, USTUTT-ITC (D), Institute for Energy and Technology, IFE (NO), TU Delft (DelftChemTech), TU Delft (NL), Universidad de Alicante- Departamento de Química Inorgánica, UALI (E), Istituto di Chimica dei Materiali, Consiglio Nazionale delle Ricerch, CNR (I), Chemical Process Engineering Research Institute-Centre for Research and Technology, CERTH (HL), University of Hannover-Institut fuer Physikalische Chemie & Elektrochemie, UNIHAN (D), SINTEF, SINTEF (NO), TNO Industrial Tech. Materials Technology Division, TNO (NL).
13. **Archimedes**: Research support action for TEI (EEOT) **Rock n Oil**, TEI of Kavala 01-09-03 to 31-08-06 Budget 150,000 €
14. **EPAN - NANOFOOD**, “Ceramic Membranes Development And Application In Food Processing Industry”, NCSR “DEMOKRITOS”, Tsantalis S.A., Hellenic Sugar Industry S.A., Xenon S.A., T.E.I of Athens. (Demokritos Budget: 112.8 kEuro).

Publications

- 1) George V. Theodorakopoulos, Dionysios S. Karousos, Konstantinos G. Mansouris, Andreas A. Sapalidis, Evangelos P. Kouvelos, Evangelos P. Favvas
Graphene nanoplatelets based polyimide/Pebax dual-layer mixed matrix hollow fiber membranes for CO₂/CH₄ and He/N₂ separations, International Journal of Greenhouse Gas Control 114 (2022) 103588
- 2) E. G. Deze, E. Cuencab, Násner A. M. Lc, M. Iakovlev, S. Sideri, A. Sapalidis, R.P. Borg, L. Ferrara
Nanocellulose enriched mortars: evaluation of nano-cellulose properties affecting microstructure and strength & development of mixing protocols, 2021 Materials Today: Proceedings. <https://doi.org/10.1016/j.matpr.2021.09.511>
- 3) Alexandra E. Spyropoulou, Yannis G. Lazarou, Andreas A. Sapalidis, Chrysi S. Laspidou,
Geochemical modeling of mercury in coastal groundwater, Chemosphere, 2021,<https://doi.org/10.1016/j.chemosphere.2021.131609>
- 4) A Gotzias, A Sapalidis, E Favvas
Hydrogen adsorption simulations in isomorphous borohydride and imidazolate frameworks: Evaluations using interpolation, International Journal of Hydrogen Energy Volume 46, Issue 37, 2021, 19778-19787,<https://doi.org/10.1016/j.ijhydene.2021.02.212>
- 5) EG Deze, MD Bareka, DS Karousos, AA Sapalidis, EP Favvas

- Mesoporous silica based copper catalytic materials for potential deNO_x application: Synthesis and characterization, *Materials Today: Proceedings*, 2021
- 6) Esser, T.; Wolf, T.; Schubert, T.; Benra, J.; Forero, S.; Maistros, G.; Barbe, S.; Theodorakopoulos, G.V.; Karousos, D.S.; Sapalidis, A.A.; Favvas, E.P.
CO₂/CH₄ and He/N₂ Separation Properties and Water Permeability Valuation of Mixed Matrix MWCNTs-Based Cellulose Acetate Flat Sheet Membranes: A Study of the Optimization of the Filler Material Dispersion Method. *Nanomaterials* 2021, 11, 280.
<https://doi.org/10.3390/nano11020280>
 - 7) A Gotzias, E Tocci, A Sapalidis
On the Consistency of the Exfoliation Free Energy of Graphenes by Molecular Simulations *International Journal of Molecular Sciences* 22 (15), 8291
 - 8) Eleni Thomou, Evmorfia K Diamanti, Apostolos Enotiadis, Konstantinos Spyrou, Efstratia Mitsari, Lamprini G Boutsika, Andreas Sapalidis, Estela Moretón Alfonsín, Oreste De Luca, Dimitrios Gournis and Petra Rudolf
New Porous Heterostructures Based on Organo-Modified Graphene Oxide for CO₂ capture, in *Front. Chem. - Green and Sustainable Chemistry*
URL=<https://www.frontiersin.org/article/10.3389/fchem.2020.564838>
DOI=10.3389/fchem.2020.564838
 - 9) Dionysis S. Karousos, Linfeng Lei, Arne Lindbråthen, Andreas A. Sapalidis, Evangelos P. Kouvelos, Xuezhong He, Evangelos P. Favvas
Cellulose-based carbon hollow fiber membranes for high-pressure mixed gas separations of CO₂/CH₄ and CO₂/N₂, *Separation and Purification Technology*, Available online 31 July 2020, 117473 , <https://doi.org/10.1016/j.seppur.2020.117473>
 - 10) Konstantinos L. Stefanopoulos, Christos Tampaxis, Andreas A. Sapalidis, Fotios K. Katsaros, Tristan G.A. Youngs, Daniel T. Bowron and Theodore A. Steriotis.
Total Neutron Scattering Study of Supercooled CO₂ Confined in an Ordered Mesoporous Carbon. *Carbon*, <https://doi.org/10.1016/j.carbon.2020.05.068>
 - 11) Andreas A. Sapalidis, Panagiotis I. Karantzis, Achilles Vairis, Stephanos Nitodas, Stéphan Barbe, Evangelos P. Favvas
A study of reinforcement effect by MWCNTs into polyimide flat sheet membranes. *Polymers* 2020, 12, 1381.
 - 12) Andreas A. Sapalidis.
Porous polyvinyl alcohol membranes: preparation methods and applications. *Symmetry* 2020, 12, 960.
 - 13) Stéphan Barbe, Moriz Berger, Roxanne Engstler, Andrés Dieste, Leonardo Clavijo, Evangelos Favvas , Andreas Sapalidis.
One-step preparation of bilayered films from kraft lignin and cellulose acetate to mimic tree bark. *Eur. J. Wood Prod.* 2020. <https://doi.org/10.1007/s00107-020-01537-6>
 - 14) LA Tziveleka, A Sapalidis, S Kikionis, E Aggelidou, E Demiri, A Kritis, Efstathia Ioannou, Vassilios Roussis.
Hybrid Sponge-Like Scaffolds Based on Ulvan and Gelatin: Design, Characterization and Evaluation of Their Potential Use in Bone Tissue Engineering, *Materials* 2020, 13 (7), 1763
 - 15) Karavokyros, L. , Katsiotis, N. , Tzanis, E. , Batis, G. , Sapalidis, A. , Chatzopoulos, A. , Sideris, K. and Beazi-Katsioti, M.
The Effect of Mix-Design and Corrosion Inhibitors on the Durability of Concrete. *Journal of Materials Science and Chemical Engineering*, 2020, 8, 64-77. doi: 10.4236/msce.2020.84005.
 - 16) Gotzias, A., Sapalidis, A.
Pulling Simulations and Hydrogen Sorption Modelling on Carbon Nanotube Bundles. *C*, 2020, 6, 11.
 - 17) Maira Lykogianni, Evgenia-Anna Papadopoulou, Andreas Sapalidis, Dimitris Tsiourvas, Zili Sideratou, Konstantinos A. Aliferis

- Metabolomics reveals differential mechanisms of toxicity of hyperbranched poly(ethyleneimine)-derived nanoparticles to the soil-borne fungus *Verticillium dahliae* *Kleb Pesticide Biochemistry and Physiology*, 2020, <https://doi.org/10.1016/j.pestbp.2020.02.001>
- 18) Floros, I.N., Kouvelos, E.P., Pilatos, G.I., Hadjigeorgiou, E.P., Gotzias, A.D., Favvas, E.P., Sapalidis, A.A.
Enhancement of Flux Performance in PTFE Membranes for Direct Contact Membrane Distillation. *Polymers* 2020, 12, 345.
 - 19) Georgia Karataraki, Andreas Sapalidis, Elena Tocci and Anastasios Gotzias
Molecular Dynamics of Water Embedded Carbon Nanocones: Surface Waves Observation, *Computation*, 2019, 7, 50.
 - 20) Ch. Tampaxis, Th.A. Steriotis, F.K. Katsaros, A.A. Sapalidis, T.G.A. Youngs, D.T. Bowron, K.L. Stefanopoulos,
Enhanced densification of CO₂ confined in the pores of a carbon material: an in situ total neutron scattering study. *Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques*, 14, pages S221–S224, 2020
 - 21) E Balis, A Sapalidis, G Pilatos, E Kouvelos, Ch Athanasekou, C Veziri, P Boutikos, KG Beltsios, G Romanos
Enhancement of Vapor flux and Salt Rejection efficiency induced by Low Cost-High Purity MWCNTs in Upscaled PVDF and PVDF-HFP Hollow Fiber Modules for Membrane Distillation Separation and Purification *Technology Volume 224*, 1 October 2019, Pages 163-179
 - 22) Anastasios Gotzias, Evangelos Kouvelos, Andreas Sapalidis,
Computing the temperature dependence of adsorption selectivity in porous solids *Surface and Coatings Technology Volume 350*, 25 September 2018, Pages 95-100
<https://doi.org/10.1016/j.surfcoat.2018.07.003>
 - 23) Athanasekou C, Sapalidis A, Katris I, Savopoulou E, Beltsios K, Tsoufis T, Kaltzoglou A, Falaras P, Bounos G, Antoniou M, Boutikos P, Romanos G
Mixed Matrix PVDF/Graphene and Composite-Skin PVDF/Graphene Oxide Membranes Applied in Membrane Distillation *Polymer Engineering & Science* (2019) 59(S1) E262-E278
 - 24) Andreas Sapalidis, Zili Sideratou, Katerina N. Panagiotaki, Elias Sakellis,
Evangelos P. Kouvelos, Sergios Papageorgiou and Fotios Katsaros
Fabrication of antibacterial Poly(Vinyl alcohol) nanocomposite Films containing Dendritic Polymer Functionalized Multi-Walled carbon nanotubes, *Front. Mater.* 5:11. doi: 10.3389/fmats.2018.00011
 - 25) Evangelos P. Favvas, Fotios K. Katsaros, Sergios K. Papageorgiou, Andreas A. Sapalidis, Athanasios Ch. Mitropoulos
A review of the latest development of polyimide based membranes for CO₂ separations. *Reactive and Functional Polymers* 120 (2017) 104–130
 - 26) Levent Cavas, Pelin Gokfiliz Yildiz, Paraskevi Mimigianni, Andreas Sapalidis, Stephanos Nitodas
Reinforcement effects of multiwall carbon nanotubes and graphene oxide on PDMS marine coatings, *J. Coat. Technol. Res.* DOI 10.1007/s11998-017-9956-z (2018)
 - 27) Dionysios Karousos, Anastasios I. Labropoulos, Andreas Sapalidis, Nick K. Kanellopoulos, Boyan Iliev, Thomas J.S. Schubert, George E. Romanos
Nanoporous ceramic supported ionic liquid membranes for CO₂ and SO₂ removal from flue gas. *Chemical Engineering Journal*, Volume 313, 1 April 2017, Pages 777-790 (2017)
 - 28) Karousos, D.S., Vangeli, O.C., Athanasekou, C.P., Sapalidis, A.A., Kouvelos, E.P., Romanos, G.E., Kanellopoulos, N.K.
Physically bound and chemically grafted activated carbon supported 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide and 1-ethyl-3-methylimidazolium acetate ionic liquid absorbents for SO₂/CO₂ gas separation (2016) *Chemical Engineering Journal*, 306, pp. 146-154.
 - 29) Tsiourvas, D., Sapalidis, A., Papadopoulos, T.

- Hydroxyapatite/chitosan-based porous three-dimensional scaffolds with complex geometries (2016) *Materials Today Communications*, 7, pp. 59-66.
- 30) Karousos, D.S., Kouvelos, E., Sapalidis, A., Pohako-Esko, K., Bahlmann, M., Schulz, P.S., Wasserscheid, P., Siranidi, E., Vangeli, O., Falaras, P., Kanellopoulos, N., Romanos, G.E. Novel Inverse Supported Ionic Liquid Absorbents for Acidic Gas Removal from Flue Gas (2016) *Industrial and Engineering Chemistry Research*, 55 (19), pp. 5748-5762.
- 31) Favvas, E.P., Tsanaksidis, C.G., Sapalidis, A.A., Tzilantonis, G.T., Papageorgiou, S.K., Mitropoulos, A.Ch. Clinoptilolite, a natural zeolite material: Structural characterization and performance evaluation on its dehydration properties of hydrocarbon-based fuels (2016) *Microporous and Mesoporous Materials*, 225, pp. 385-391.
- 32) Pilatos, G., Perdikaki, A.V., Sapalidis, A., Pappas, G.S., Giannakopoulou, T., Tsoutsou, D., Xenogiannopoulou, E., Boukos, N., Dimoulas, A., Trapalis, C., Kanellopoulos, N.K., Karanikolos, G.N. Graphene by one-step chemical vapor deposition from ferrocene vapors: Properties and electrochemical evaluation (2016) *Journal of Applied Physics*, 119 (6), art. no. 064303.
- 33) Stefanopoulos, K.L., Katsaros, F.K., Steriotis, T.A., Sapalidis, A.A., Thommes, M., Bowron, D.T., Youngs, T.G.A. Anomalous Depletion of Pore-Confined Carbon Dioxide upon Cooling below the Bulk Triple Point: An in Situ Neutron Diffraction Study (2016) *Physical Review Letters*, 116 (2), art. no. 025502, (Editors' Suggestion).
- 34) Karousos, D.S., Sapalidis, A.A., Kouvelos, E.P., Romanos, G.E., Kanellopoulos, N.K. A study on natural clinoptilolite for CO₂/N₂ gas separation. *Separation Science and Technology (Philadelphia)*, (2016), 51 (1), pp. 83-95.
- 35) Labropoulos, A.I., Athanasekou, C.P., Kakizis, N.K., Sapalidis, A.A., Pilatos, G.I., Romanos, G.E., Kanellopoulos, N.K. Experimental investigation of the transport mechanism of several gases during the CVD post-treatment of nanoporous membranes (2014) *Chemical Engineering Journal*, 255, pp. 377-393.
- 36) Romanos, G.E., Schulz, P.S., Bahlmann, M., Wasserscheid, P., Sapalidis, A., Katsaros, F.K., Athanasekou, C.P., Beltsios, K., Kanellopoulos, N.K. CO₂ capture by novel supported ionic liquid phase systems consisting of silica nanoparticles encapsulating amine-functionalized ionic liquids (2014) *Journal of Physical Chemistry C*, 118 (42), pp. 24437-24451.
- 37) Georgakaki, D., Mitridis, S., Sapalidis, A.A., Mathioulakis, E., Polatoglou, H.M. Calibration of tapping AFM cantilevers and uncertainty estimation: Comparison between different methods (2013) *Measurement: Journal of the International Measurement Confederation*, 46 (10), pp. 4274-4281.
- 38) Sapalidis, A.A., Katsaros, F.K., Steriotis, Th.A., Kanellopoulos, N.K., Dante, S., Haus, T. Neutron diffraction on polymer nanocomposites - A tool for structural and orientation studies (2012) *Journal of Physics: Conference Series*, 340, art. no. 012090.
- 39) Sapalidis, A.A., Katsaros, F.K., Steriotis, Th.A., Kanellopoulos, N.K. Properties of poly(vinyl alcohol)-Bentonite clay nanocomposite films in relation to polymer-clay interactions (2012) *Journal of Applied Polymer Science*, 123 (3), pp. 1812-1821.
- 40) Papageorgiou, S.K., Favvas, E.P., Sapalidis, A.A., Romanos, G.E., Katsaros, F.K. Facile synthesis of carbon supported copper nanoparticles from alginate precursor with controlled metal content and catalytic NO reduction properties (2011) *Journal of Hazardous Materials*, 189 (1-2), pp. 384-390.
- 41) Tziotziou, M., Karakosta, E., Karatasios, I., Diamantopoulos, G., Sapalidis, A., Fardis, M., Maravelaki-Kalaitzaki, P., Papavassiliou, G., Kilikoglou, V. Application of 1H NMR to hydration and porosity studies of lime-pozzolan mixtures (2011) *Microporous and Mesoporous Materials*, 139 (1-3), pp. 16-24.
- 42) Athanasekou, C.P., Romanos, G.E., Sapalidis, A.A., Kanellopoulos, N.K.

- Ceramic-supported alginate adsorbent for the removal of heavy metal ions (2010) *Adsorption Science and Technology*, 28 (3), pp. 253-266.
- 43) Athanasekou, C.P., Romanos, G.E., Kordatos, K., Kasselouri-Rigopoulou, V., Kakizis, N.K., Sapalidis, A.A.
Grafting of alginates on UF/NF ceramic membranes for wastewater treatment (2010) *Journal of Hazardous Materials*, 182 (1-3), pp. 611-623.
- 44) Papageorgiou, S.K., Kouvelos, E.P., Favvas, E.P., Sapalidis, A.A., Romanos, G.E., Katsaros, F.K.
Metal-carboxylate interactions in metal-alginate complexes studied with FTIR spectroscopy (2010) *Carbohydrate Research*, 345 (4), pp. 469-473.
- 45) Karatasios, I., Theoulakis, P., Kalagri, A., Sapalidis, A., Kilikoglou, V.
Evaluation of consolidation treatments of marly limestones used in archaeological monuments (2009) *Construction and Building Materials*, 23 (8), pp. 2803-2812.
- 46) Favvas, E.P., Sapalidis, A.A., Stefanopoulos, K.L., Romanos, G.E., Kanellopoulos, N.K., Kargiotis, E.K., Mitropoulos, A.Ch.
Characterization of carbonate rocks by combination of scattering, porosimetry and permeability techniques (2009) *Microporous and Mesoporous Materials*, 120 (1-2), pp. 109-114.
- 47) Athanasekou, C.P., Papageorgiou, S.K., Kasselouri, V., Katsaros, F.K., Kakizis, N.K., Sapalidis, A.A., Kanellopoulos, N.K.
Development of hybrid alginate/ceramic membranes for Cd²⁺ removal (2009). *Microporous and Mesoporous Materials*, 120 (1-2), pp. 154-164.
- 48) Sapalidis, A.A., Katsaros, F.K., Romanos, G.E., Kakizis, N.K., Kanellopoulos, N.K.
Preparation and characterization of novel poly-(vinyl alcohol)-*Zostera* flakes composites for packaging applications (2007) *Composites Part B: Engineering*, 38 (3), pp. 398-404.

As Book Editor

- 1) *Membrane Desalination: From Nanoscale to Real World Applications*, Andreas A. Sapalidis (Editor), CRC Press, under production, expected release 24 July 2020.
https://www.routledge.com/Membrane-Desalination-From-Nanoscale-to-Real-World-Applications/Sapalidis/p/book/9780367030797?utm_source=crcpress.com&utm_medium=referral

Book chapters

- 1) Andreas A. Sapalidis, Evangelos P. Kouvelos, George E. Romanos, Nick K. Kanellopoulos. *Introduction to membrane desalination*. In *Membrane Desalination: From Nanoscale to Real World Applications*, Andreas A. Sapalidis (Editor), CRC Press, under production
- 2) Myrsini Kyriaki Antoniou, Andreas A. Sapalidis, Zili Sideratou. Functionalization routes for the successful incorporation of carbon-based nano-additives into polymeric membranes. In *Membrane Desalination: From Nanoscale to Real World Applications*, Andreas A. Sapalidis (Editor), CRC Press, under production
- 3) Andreas A. Sapalidis, Fotios K. Katsaros and Nick K. Kanellopoulos *PVA / Montmorillonite Nanocomposites: Development and Properties, Nanocomposites and Polymers with Analytical Methods*, John Cuppoletti (Ed.), ISBN: 978-953-307-352-1, InTech (2011). Cited 73 times (source Google Scholar)

Guest Editor in Journals

- 1) Frontiers in Materials Colloidal Materials and Interfaces, "Relationship Between Demixing Mechanisms in Polymer Solutions and Membrane Formation", Guest Editors Andreas Sapalidis, Stephan Barbe, Fei Wang, Alberto Figoli
- 2) Nanomaterials, Special Issue "Recent Advances in Multifunctional Sustainable Organic Coatings" Guest Editors, Andreas Sapalidis, Mircea Manea
- 3) Desalination and Water Treatment, Special Issue, Selected Papers from the International Conference On Water And Energy ICWE'21 25-27 May 2021, Chlef, Algeria

Patents

- 1) Z. Sideratou, F. Katsaros, A. Sapalidis, S. Papageorgiou, B. Baybogan-Isilak, A. Akcali, "Novel nanocomposites with micro slime layer control properties for fouling release paint applications". Filed in: Greek Patent Office, Application Number: 20150100507/23-11-2015 and European Patent Office, Application Number: EP16002497/23-11-2016.
- 2) Dionysios Karousos, Andreas Sapalidis, Georgios Karanikolos, Evangelos Favvas, "Magnetic Swing Adsorption", USPTO No 63/078,433, Filled in September 15, 2020
- 3) Dionysios Karousos, Andreas Sapalidis, Georgios Karanikolos, Evangelos Favvas, "Magnetic-Based Determination of Sorption Separation Factor for Binary Gas Mixtures", USPTO No. 63/078,364, Filled on September 15, 2020

Conference presentations

- 1) G.V. Theodorakopoulos, D.S. Karousos, A.A. Sapalidis, S. Forero, T. Schubert, E.P. Favvas, Pebax/Polyimide dual-layer hollow fiber membranes for gas separation applications, Euromembrane, 28 November – 2 December 2021, Copenhagen, Denmark
- 2) I. Tournis, Z. Sideratou, F. Katsaros, A. Sapalidis, Poly(vinyl alcohol) nanocomposite membranes with functionalized carbon discs for water treatment applications, Euromembrane, 28 November – 2 December 2021, Copenhagen, Denmark
- 3) G.V. Theodorakopoulos, K.G. Mansouris, D.S. Karousos, A.A. Sapalidis, S. Forero, J. Berna, T. Schubert, E.P. Favvas, Towards to green chemistry: comparative study of effective composite hollow fiber membranes preparation for CO₂ separation, Euromembrane, 28 November – 2 December 2021, Copenhagen, Denmark
- 4) I. Tournis, D. Tsiourvas, Z. Sideratou and A. Sapalidis, Superhydrophobic Nanoparticle-Coated Porous PVDF Membranes for Efficient Membrane Distillation Coating Porous PVDF Membranes with Superhydrophobic Nanoparticle enhances Membrane Distillation performance Porous PVDF-based Membranes Coated with Superhydrophobic Nanoparticle for efficient Membrane Distillation. 35th ECIS 2021 - Conference of the European Colloid & Interface Society 5-10 September 2021, Athens – Greece
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- 21) Νανοσυνθετες μεμβρανες πολυβινυλικης αλκοολης/τροποιημενων νανοδισκων ανθρακα για απομακρυνση ιοντων μεταλλων, 12ο Πανελλήνιο Συνέδριο Χημικής Μηχανικής 29-31 Μαΐου 2019, Αθήνα
- 22) «Παρασκευη καταλυτικων μεμβρανων μεσω ηλεκτρικα παραγομενων νανοσωματιδιων μεταλλων» , 12ο Πανελλήνιο Συνέδριο Χημικής Μηχανικής 29-31 Μαΐου 2019, Αθήνα

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- 2) Sapalidis A., “Characterisation techniques of polymer nanocomposites”, Workshop on Nanocomposite Coatings for Aviation and Marine Applications, 3rd Hellenic Forum for Science Technology and Innovation, 02 July 2015, Athens
- 3) Sapalidis A., “Development of hydrophobic / ice-phobic nanocomposite coatings”, Kingston University, School of Aerospace and Aircraft Engineering. 27 September 2016, London, U.K.
- 4) Sapalidis A., “Introduction to polymer nanocomposites” NCSR Demokritos, summer school July 2018 , Athens Greece
- 5) F. Katsaros, A. Sapalidis, S. Papageorgiou “Polymer nanocomposites: development & applications” presentation to Greek Chemists Association, 25th May 2017, NCSR Demokritos
- 6) Sapalidis A. “Desalination membranes technology”, NCSR Demokritos, summer school 3rd July 2019 , Athens Greece

Memberships

Member of the European Membrane Society