

# **Curriculum vitae**

**Nikolaos Pasadakis**

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## Education

- 1985 Diploma Chemical Engineer MSc on Chemical Technology of petroleum and natural gas, Department of Organic Chemical Technology, Technical University of Lvov, former USSR. Thesis: «Design of catalytic reforming unit »
- 1991 Ph.D. in Chemistry, Department of Organic Chemical Technology, Physical Chemistry sector, Technical University of Lvov, former USSR. Dissertation: «Formation and dissociation enthalpy of organic and Si-organic peroxides »

## EMPLOYMENT

- 5/2015 – present Professor, School of Mineral Resources Engineering (MRED),  
Technical University of Crete (TUC)
- 2/2010 – 4/2014 Associate Professor, MRED, TUC
- 8/2006 – 1/2010 Assistant Professor, MRED, TUC
- 1/2002 – 7/2006 Lecturer, MRED, TUC
- 9/1992 – 12/2001 Research Associate, PVT and Core Analysis Laboratory, MRED,  
TUC

## SCIENTIFIC INTERESTS

- **Instrumental analysis** and characterization of fossil fuels
- **Chemometrics**, data analysis and modelling of composition and properties of fossil fuels
- **Petroleum Geochemistry**, applications in exploration, production and environmental impact of fossil fuels exploitation
- Analysis and characterization of organic pollutants in the environment from the exploitation of fossil fuels

## TEACHING ACTIVITIES

### UNDERGRADUATE COURSES TAUGHT

- 2001-present "Fossil Fuels ", 7<sup>th</sup> semester MRED, TUC.
- 2002-2017 "Unit Operations ", 6<sup>th</sup> semester MRED, TUC
- 2003-present "Organic Geochemistry ", 9<sup>th</sup> semester MRED, TUC
- 2005-2007 "Reservoir Engineering " 7<sup>th</sup> semester MRED, TUC

- 2005-2007 *“Reservoir Exploitation”*, 7<sup>th</sup> semester MRED, TUC  
 1992-2002 Laboratory courses in *“Reservoir Engineering”* and *“Reservoir Exploitation”*  
 2002-present Laboratory courses in *“Fossil Fuels”* and *“Organic Geochemistry”*

#### **GRADUATE COURSES TAUGHT**

- 2014-present *“Petroleum Chemistry and Geochemistry”* in MSc *“Petroleum Engineering”*, MRED, TUC  
 2017 *“Data analysis and modelling”* in MSc *“Petroleum Engineering”*, MRED, TUC  
 2003-present *“Analysis and Characterization of petroleum Fluids”* and *“Environmental technologies in hydrocarbons exploitation”* in MSc *“Geotechnology and Environment, MRED, TUC*  
 2003 *“Unit operations and processes”* in MSc *“Geotechnology and Environment, MRED, TUC*

#### **Diploma theses supervision**

- 2002-present Supervisor of 43 successfully completed diploma projects  
 Supervisor of 5 underway diploma projects  
 1992-2001 Assistance in 7 diploma projects, conducted in the PVT and Core analysis Laboratory, MRED, TUC

#### **Postgraduate diploma theses supervision**

2002-present Supervision of 16 graduate diploma projects μεταπτυχιακών MSc που ολοκληρώθηκαν επιτυχώς:

Dimou Dimitrios	Active carbons from Greek lignites as adsorbents for flue gas cleaning
Sourlingas Stavros	Optimization of lube oil extraction in a refinery unit
Liourta Nikoletta	Comparative evaluation of analytical methodologies used for the determination of petroleum pollutants in the environment
Sfakianaki Kalliopi	Advanced chemometric techniques in the analysis of gasoline samples
Ntagounaki Vithleem	Comparative evaluation of the maturity of petroleum source rocks in Greece
M. Makridis	Development of a Novel Mass-Spectral Library for the Identification of Biomarker Compounds in Oils
A. Koukounya	Identifying oil families using the Malcom (SLB) software package
D. Papadakis	Family affiliation of Devonian Western Canada oils, using chemometric methods

K. Choustoulakis	Allocation of oil families in Williston Basin (North America) oils using chemometric algorithms
K. Gomez	Application of biomarkers data in oil characterization. The case of Williston basin
Ch. Karavoulia	Performance of multivariate clustering methods in oil families identification
A. Tsahouridis	Statistical Quality Assurance and Control to Evaluate Analytical Measurement System Performance.
Koketso Ludwig	Thermal modelling of petroleum source rocks.
O.M. Kokaraki	Thermal modelling of petroleum source rocks in Prinos-Kavala basin
V.I. Makri	Evaluation of Plio-Pleistocene formations in Katakolon (Greece) as sources of biogenic gas

Supervisor of 3 graduate projects (in progress)

Supervisor of 1 PhD project in MRED School (not completed yet)

Member of the advisory committee of 5 completed PhD projects in the Mineral Resources Engineering TUC, Chemical Engineering NTUA, Environmental Engineering TUC and Department of Geology, University of Patras.

#### **SERVICE IN UNIVERSITY**

Director of the [“Petroleum Engineering”](#) MSc course, 2013-present

Director of the Research Unit [“Hydrocarbons Chemistry & Technology”](#)

Board member of the Mineral Resources Engineering School, 2013-2014

Member of the postgraduate committee of the Mineral Resources Engineering Course, 2005-2010

Member of the undergraduate committee of the Mineral Resources Engineering Course, 2011-2012

Member of the Senate of the Technical University of Crete, 2002.

#### **PUBLISHED SCIENTIFIC WORK**

##### **Books**

[“Γεωχημεία Πετρελαίου”](#) (Petroleum Geochemistry), ISBN: 978-960-418-461-3, Tziolas Publishing, Greece, , 2014.

##### **Publications in refereed journal and conferences**

The publications are presented separately in three groups, Exploration, Production and Environmental aspects of petroleum texhnology. Each publication is coded according to:

##### **scientific area**

Exploration – **Exp**, Production – **Pro**, Environment – **Env**

## kind of publication

Journal paper – J, Conference paper – C, Poster presentation – P

## year of publication and identity number for the scientific area

### Petroleum Exploration

- Exp\_J\_2019\_35 Jude Etunimonuwa Ogala, Stavros Kalaitzidis, Kimon Christanis, Omoleomo Olutoyin Omo-Irabor, Adewale Akinmosin, Caleb Ugbede Yusuf, Nikos Pasadakis, Miltiadis Constantinopoulos, Helen Papaefthymiou, "Geochemical and organic petrological study of bituminous sediments from Dahomey Basin, SW Nigeria", *Marine and Petroleum Geology*, 99 (2019) 577-595.
- Exp\_J\_2018\_34 Vasileios Karakitsios, Evi Tzortzaki, Fabienne Giraud, Nikos Pasadakis. "First evidence for the early Aptian Oceanic Anoxic Event (OAE1a) from the Western margin of the Pindos Ocean (NW Greece)", *Geobios* 51 (2018) 187–210.
- Exp\_J\_2018\_33 Panagiotis Tserolas, Angelos Maravelis, Nikos Pasadakis, Avraam Zelilidis. "Organic geochemical features of the Upper Miocene successions of Lefkas and Cephalonia islands, Ionian Sea, Greece: an integrated geochemical and statistical approach", *Arabian Journal of Geosciences*, (2018) 11:105, <https://doi.org/10.1007/s12517-018-3431-8>.
- Exp\_J\_2017\_32 Angelos G. Maravelis, Elina Chamilaki, Nikos Pasadakis, Avraam Zelilidis, William J. Collins. "Hydrocarbon generation potential of a Lower Permian sedimentary succession (Mount Agony Formation): Southern Sydney Basin, New South Wales, Southeast Australia", *International Journal of Coal Geology*, 183 (2017) 52-64.
- Exp\_J\_2017\_31 Angelos Maravelis, Elina Chamilaki, Nikos Pasadakis, Anthony Vassiliou, Avraam Zelilidis. "Organic geochemical characteristics and paleodepositional conditions of an Upper Carboniferous mud-rich succession (Yagon Siltstone): Myall Trough, southeast Australia", *Journal of Petroleum Science and Engineering*, 158 (2017) 322-335.
- Exp\_J\_2016\_30 Nikos Pasadakis, Vithleem Dagounaki & Elina Chamilaki. "A comparative organic geochemical study of oils seeps in Western Greece", *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 2016, 38:3, 362-369.
- Exp\_J\_2015\_29 A. Zelilidis, P. Tserolas, E. Chamilaki, N. Pasadakis, S. Kostopoulou, A.G. Maravelis. "Hydrocarbon prospectivity in the Hellenic trench system: organic geochemistry and source rock potential of upper

- Miocene-lower Pliocene successions in the eastern Crete Island, Greece”, *International Journal of Earth Sciences*, 2015, DOI 10.1007/s00531-015-1278-8.
- Exp\_J\_2015\_28 Angelos G. Maravelis, Anna Koukounya, Panagiotis Tserolas, Nikos Pasadakis, Avraam Zelilidis. “Geochemistry of Upper Miocene – Lower Pliocene source rocks in the Hellenic Fold and Thrust Belt, Zakynthos Island, Ionian Sea, western Greece”, *Marine and Petroleum Geology* 66 (2015) 217-230, <http://dx.doi.org/10.1016/j.marpetgeo.2014.09.014>.
- Exp\_J\_2013\_27 A. MARAVELIS, G. MAKRODIMITRAS, N. PASADAKIS, A. ZELILIDIS. “Stratigraphic evolution and source rock potential of a Lower Oligocene to Lower–Middle Miocene continental slope system, Hellenic Fold and Thrust Belt, Ionian Sea, northwest Greece”, *Geological Magazine*, 2013 vol. 151/3 Cambridge University Press doi: 10.1017/S0016756813000289.
- Exp\_J\_2013\_26 A. Maravelis, G. Panagopoulos, I. Piliotis, N. Pasadakis, E. Manoutsoglou and A. Zelilidis. “Pre-Messinian (Sub-Salt) Source-Rock Potential on Back-Stop Basins of the Hellenic Trench System (Messara Basin, Central Crete, Greece)”, *Oil & Gas Science and Technology – Rev. IFP Energies nouvelles* 71 1 (2013), DOI: 10.2516/ogst/2013130.
- Exp\_J\_2012\_25 Ν. ΠΑΣΑΔΑΚΗΣ, Β. ΝΤΑΓΚΟΥΝΑΚΗ, Ε. ΧΑΜΗΛΑΚΗ, Α. ΒΑΦΕΙΔΗΣ, Α. ΖΕΛΗΛΙΔΗΣ, Ι. ΠΥΛΙΩΤΗΣ, Γ. ΠΑΝΑΓΟΠΟΥΛΟΣ, Ε. ΜΑΝΟΥΤΣΟΓΛΟΥ. “ΟΡΓΑΝΙΚΗ ΓΕΩΧΗΜΙΚΗ ΜΕΛΕΤΗ ΣΧΗΜΑΤΙΣΜΩΝ ΤΟΥ ΝΕΟΓΕΝΟΥΣ ΣΤΗ ΛΕΚΑΝΗ ΤΗΣ ΜΕΣΣΑΡΑΣ ΗΡΑΚΛΕΙΟΥ ΚΡΗΤΗΣ, ΩΣ ΜΗΤΡΙΚΩΝ ΠΕΤΡΩΜΑΤΩΝ ΒΙΟΓΕΝΟΥΣ ΜΕΘΑΝΙΟΥ”, *ΟΡΥΚΤΟΣ ΠΛΟΥΤΟΣ/MINERAL WEALTH*, 166/ 2012, 7-26.
- Exp\_J\_2009\_24 C. Papanicolaou, N. Pasadakis, D. Dimou, S. Kalaitzidis, S. Papazisimou, A.E. Foscolos. “Adsorption of NO, SO<sub>2</sub> and light hydrocarbons on activated Greek brown coals”, *International Journal of Coal Geology*, 77 (2009) 401-408.
- Exp\_J\_2008\_23 P. Kiomourtzi, N. Pasadakis, A. Zelilidis. “Source Rock and Depositional Environment Study of Three Hydrocarbon Fields in Prinos-Kavala Basin North Aegean”, *The Open Petroleum Engineering Journal*, 2008, 1, 16-29.
- Exp\_J\_2004\_22 Nikos Pasadakis, Mark Obermajer, Kirk G. Osadetz. “Definition and characterization of petroleum compositional families in Williston Basin, North America, using principal component analysis”, *Organic Geochemistry*, 35 (2004) 453-468.

- Exp\_J\_2003\_21 M. Obermajer, K.G. Osadetz, and N. Pasadakis. "Refining Compositional Affinity of Williston Basin Family C Oils Using Multivariate Statistical Analysis of Saturate Biomarkers", Summary of Investigations 2003, Volume 1, Saskatchewan Geological Survey, Sask. Industry and Resources Misc. Rep. 2003-4.1, A-9.
- Exp\_J\_2002\_20 K.G. Osadetz, N. Pasadakis, and M. Obermajer. "Definition and Characterization of Petroleum Compositional Families, Using Principal Component Analysis of Gasoline and Saturate Fraction Compositional Ratios", Summary of Investigations 2002, Volume 1, Saskatchewan Geological Survey, Sask. Industry and Resources Misc. Report, 2002-4.1, p3-14.
- Exp\_J\_2002\_19 Nikos Pasadakis. "DETERMINATION OF THE CONTINUITY IN OIL RESERVOIRS USING PRINCIPAL COMPONENT ANALYSIS OF BIOMARKERS DATA", PETROLEUM SCIENCE AND TECHNOLOGY, Vol. 20, 9&10, pp.1087-1096, 2002.
- Exp\_C\_2014\_18 Angelos G. Maravelis, Michail Papakonstantinou and Nikos Pasadakis, Gregory C. Skilbeck, Avraam Zelilidis. "SOURCE ROCK POTENTIAL IN AN ACTIVE CONTINENTAL MARGIN: MYALL TROUGH, SOUTHEASTERN AUSTRALIA", Australian Earth Sciences Convention AESC, 7 - 10 July 2014, Newcastle, NSW, Australia.
- Exp\_C\_2013\_17 Pyliotis I., Zelilidis A., Pasadakis N., Panagopoulos G. and Manoutsoglou E. "SOURCE ROCK POTENTIAL OF THE LATE MIOCENE METOCHIA FORMATION OF GAVDOS ISLAND, GREECE", 13th International Congress of the Geological Society of Greece, Sept. 2013, Chania, Crete, Greece.
- Exp\_C\_2013\_16 Pyliotis I., Hamilaki E., Pasadakis N. and Manoutsoglou E. "COMPARATIVE EVALUATION OF ROCK-EVAL AND ELEMENTAL ANALYSIS TO DETERMINE ORGANIC CARBON CONTENT IN SEDIMENT SAMPLES", 13th International Congress of the Geological Society of Greece, Sept. 2013, Chania, Crete, Greece.
- Exp\_C\_2011\_15 Nikos Pasadakis, Andreas Kardamakis, Kirk G. Osadetz and Mark Obermajer. "Identification of the Diagnostic Compositional Features in Gasoline Range Hydrocarbon Fraction Data: an evolutionary approach", 7th International Conference, Instrumental Methods of Analysis. Modern Trends and Applications, Chania, Greece, 18-22 Sep. 2011.
- Exp\_C\_2009\_14 P. Kiomourtzi, A. Zelilidis, N. Pasadakis. "Organic geochemical study of the Kalirachi formation (Prinos-Kavala basin)", 3rd International Conference, Advances in Mineral Resources

- Management and Environmental Geotechnology, September 2009, Athens, Greece, p. 231-236.
- Exp\_C\_2007\_13 Kiomourtzi P., Pasadakis N. and Zelilidis A. "GEOCHEMICAL CHARACTERIZATION OF SATELLITE HYDROCARBON FORMATIONS IN PRINOS-KAVALA BASIN (NORTH GREECE)", 11th International Conference of the Geological Society of Greece, Athens 24-26 May 2007, p. 839-850.
- Exp\_C\_2005\_12 D. Marinakis, N. Varotsis, N. Pasadakis, J. Yang, B. Tohidi, C. Perissoratis. "THERMODYNAMIC STUDY OF UNDERSATURATED HYDRATES FORMED FROM A GAS MIXTURE IN MARINE SEDIMENTS", VIII INTERNATIONAL CONFERENCE ON GAS IN MARINE, VIGO (SPAIN)-2005 SEPTEMBER 5-10.
- Exp\_C\_2005\_11 Πασαδάκης Ν., Κουτσοθεοδώρου Ε., Μανούτσογλου Ε., Παπακωνσταντίνου Κ., Κιομουρτζή Π. και Ζελιλίδης Α. "ΣΥΓΚΡΙΤΙΚΗ ΑΞΙΟΛΟΓΗΣΗ ΠΕΤΡΕΛΑΙΩΝ ΤΗΣ ΛΕΚΑΝΗΣ ΠΡΙΝΟΥ-ΚΑΒΑΛΑΣ ΜΕ ΧΡΗΣΗ ΒΙΟΔΕΙΚΤΩΝ", 2ο ΣΥΝΕΔΡΙΟ ΤΗΣ ΕΠΙΤΡΟΠΗΣ ΟΙΚΟΝΟΜΙΚΗΣ ΓΕΩΛΟΓΙΑΣ, ΟΡΥΚΤΟΛΟΓΙΑΣ & ΓΕΩΧΗΜΕΙΑΣ, ΘΕΣΣΑΛΟΝΙΚΗ, ΟΚΤΩΒΡΙΟΣ 2005, σελ. 309-317.
- Exp\_C\_2000\_10 ΠΑΠΑΝΙΚΟΛΑΟΥ Κ., ΠΑΣΑΔΑΚΗΣ Ν., FOWLER Μ., ΦΩΣΚΟΛΟΣ Α. Φ "Χρήση των βιοδεικτών για τη μελέτη της προέλευσης κοιτασμάτων υδρογονανθράκων και λιγνιτοφόρων λεκανών της Ελλάδας", 3ο ΣΥΝΕΔΡΙΟ ΟΡΥΚΤΟΥ ΠΛΟΥΤΟΥ, ΟΡΥΚΤΕΣ ΠΡΩΤΕΣ ΥΛΕΣ-ΥΠΟΓΕΙΑ ΕΡΓΑ-ΜΕΤΑΛΛΟΥΡΓΙΑ, ΑΘΗΝΑ 22-23 & 24 Νοεμβρίου 2000, σελ. 517-526.
- Exp\_P\_2008\_9 Μανούτσογλου Ε., Βάχλας Γ., Βαφείδης Α., Πασαδάκης Ν., Ζελιλίδης Α., Κουμούτσου Ε., Καραπάνος Η. & Λαμπράκης Ν. "Απολιθωμένη υδροφορία σε Νεογενείς σχηματισμούς της λεκάνης της Μεσαράς, Ν. Κρήτη", 8ο Διεθνές Υδρογεωλογικό Συνέδριο, 8-10 Οκτωβρίου 2008, Αθήνα.
- Exp\_P\_2008\_8 P. Kiomourtzi, N. Pasadakis, E. Manutsoglou, A. Zelilidis, K. Papakonstantinou, "Source organic matter and depositional environment in Prinos oil basin (Greece)", 33rd INTERNATIONAL GEOLOGICAL CONGRESS, OSLO 2008, 6-14 August.
- Exp\_P\_2008\_7 N. Pasadakis, E. Dagounaki, A. Zelilidis, G. Papatheodorou, E. Manutsoglu. "Organic matter of neogene sediments in central Crete (Greece), as source of biogenic methane", 33rd INTERNATIONAL GEOLOGICAL CONGRESS, OSLO 2008, 6-14 August.
- Exp\_P\_2007\_6 N. PASADAKIS and E. MANUTSOGLU. "Origin and maturity of the organic matter in the mud breccia from "Anaximander" mud



- volcanoes, Eastern Mediterranean”, 25th IAS MEETING OF SEDIMENTOLOGY, September 2007, Patras, Greece.
- Exp\_P\_2009\_5 Nikos Pasadakis, Emmanuel Manoutsoglou, Avraam Zelilidis, Maowen Li. “Source rock geochemical study of shallow biogenic methane accumulations in Crete (Greece) island”, 24th International Meeting on Organic Geochemistry, Bremen, Germany, September 6-11, 2009, p. 466.
- Exp\_P\_2005\_4 N. Pasadakis, K.G. Osadetz, M. Obermajer, A. Kardamakis. “Identifying diagnostic compositional features in gasoline range hydrocarbons using genetic algorithm optimization with procrustes criterion”, 22nd International Meeting on Organic Geochemistry, Seville, Spain, 12-16 Sept. 2005, p. 495-496.
- Exp\_P\_2004\_3 Nikos Pasadakis, Kirk G. Osadetz and Mark Obermajer. “Application Of Canonical Correlation Analysis in Studies Of Geochemical Compositions Of Crude Oils From Williston Basin”, ICE 2004, May 31-June 4 2004, Calgary, Alberta, Canada. Book of Abstracts P1.
- Exp\_P\_2003\_2 Mark OBERMAJER, Kirk G. OSADETZ, Nikos PASADAKIS and Lloyd R. SNOWDON. “TYPING OILS USING MULTIVARIATE STATISTICAL ANALYSIS: AN EXAMPLE FROM THE CANADIAN WILLISTON BASIN”, 21st International Meeting in Organic Geochemistry, Krakow, Poland, September 8-12, 2003, Book of Abstracts, part 2, 215-216.
- Exp\_P\_2002\_1 N. Pasadakis, M. Obermajer and K. G. Osadetz. “DEFINITION AND CHARACTERIZATION OF PETROLEUM COMPOSITIONAL FAMILIES USING PRINCIPAL COMPONENT ANALYSIS”, EMERGING CONCEPTS IN ORGANIC PETROLOGY & GEOCHEMISTRY, Aug. 31-Sep. 4, 2002, Banff, Alberta, Canada. Abstract Book, 23.

### **Petroleum production and analysis**

- Pro\_J\_2016\_43 George Livanos, Michalis Zervakis, Nikos Pasadakis, Marouso Karelioti, George Giakos. “Deconvolution of petroleum mixtures using mid-FTIR analysis and non-negative matrix factorization”, Measurement Science and Technology 27 (2016) 114005 (12pp).
- Pro\_J\_2014\_42 N. Pasadakis, E. Antoniou & D. Karonis (2014) “Optimization of Light Cycle Oil (LCO) Solvent Extraction: Impact of Temperature and Solvent to Feed Ratio”, Petroleum Science and Technology, 32:21, 2566-2574, DOI: 10.1080/10916466.2013.853676
- Pro\_J\_2013\_41 Nikos Pasadakis, Giorgos Livanos and Michalis Zervakis. “Deconvolving the absorbance of methyl and methylene groups

- in the FT-IR 3000-2800 cm<sup>-1</sup> band of petroleum fractions”, Trends in Applied Spectroscopy, 2013, 10: 25-35.
- Pro\_J\_2011\_40 Nikos Pasadakis, Dimitrios Karonis, Adrianna Mintza. “Detailed compositional study of the Light Cycle Oil (LCO) solvent extraction products”, Fuel Processing Technology, 92 (2011) 1568-1573.
- Pro\_J\_2011\_39 N. PASADAKIS, G. ROMANOS, V. PERDIKATSI, and A.E. FOSCOLOS. "The Production of Activated Carbons Using Greek Lignites by Physical and Chemical Activation Methods. A Comparative Study", Energy Sources, Part A, 33:713-723, 2011, DOI: 10.1080/15567030903261808.
- Pro\_J\_2010\_38 Andreas A. Kardamakis, Nikos Pasadakis. “Autoregressive modeling of near-IR spectra and MLR to predict RON values of gasolines”, Fuel, 89 (2010) 158-161.
- Pro\_J\_2007\_37 Andreas A. Kardamakis, Athanasios Mouchtaris, Nikos Pasadakis: “Linear predictive spectral coding and independent component analysis in identifying gasoline constituents using infrared spectroscopy”, Chemometrics and Intelligent Laboratory Systems, 89 (2007) 51-58.
- Pro\_J\_2007\_36 Nikos Pasadakis, Andreas A. Kardamakis, and Popi Sfakianaki. “Classification of Gasoline Grades Using Compositional Data and Expectation-Maximization Algorithm”, Energy & Fuels, 2007, 21, 3406-3409.
- Pro\_J\_2007\_35 N. Pasadakis and N. Xekoukoulotakis. “Gas Chromatographic Analysis of Crude Oils with Thermal Extraction Sampling”, Petroleum Science and Technology, 25:1135-1142, 2007.
- Pro\_J\_2006\_34 Nikos Pasadakis, Andreas A. Kardamakis. “Identifying constituents in commercial gasoline using Fourier transform-infrared spectroscopy and independent component analysis”, Analytica Chimica Acta, 578 (2006) 250-255.
- Pro\_J\_2006\_33 Nikos Pasadakis, Vassilis Gaganis, Charalambos Foteinopoulos. “Octane number prediction for gasoline blends”, Fuel Processing Technology, 87 (2006) 505-509.
- Pro\_J\_2006\_32 N. Pasadakis, S. Sourligas, Ch. Foteinopoulos. “Prediction of the distillation profile and cold properties of diesel fuels using mid-IR spectroscopy and neural networks”, Fuel, 85 (2006) 1131-1137.
- Pro\_J\_2003\_31 D. Vamvuka, N. Pasadakis, and E. Kastanaki. “Kinetic Modeling of Coal/Agricultural By-Products Blends”, Energy & Fuels 2003, 17, 549-558.
- Pro\_J\_2001\_30 N. Pasadakis, C. Yiokari, N. Varotsis, C. Vayenas. “Characterization of hydrotreating catalysts using the principal components analysis”, Applied Catalysis A: General 207 (2001) 333-341.

- Pro\_J\_2001\_29 N. Pasadakis, N. Varotsis, and N. Kallithrakas. "THE INFLUENCE OF PRESSURE ON THE ASPHALTENES CONTENT AND COMPOSITION IN OILS", PETROLEUM SCIENCE AND TECHNOLOGY, 19(9&10), 1219-1227(2001)
- Pro\_J\_2001\_28 T. J. Broad, SPE, Oilphase Division of Schlumberger-Middle East, N. Varotsis, SPE, Consultant-Oilphase Division of Schlumberger, N. Pasadakis, Technical University of Crete. "The Compositional Characterization of Gas Condensate Fluids – A Review Featuring the Impact of the Analysis Data Quality on the Accuracy of Equation of State Based PVT Predictions", SPE paper 68231, 2001.
- Pro\_J\_2001\_27 N. Pasadakis, V. Gaganis, N. Varotsis. "Accurate determination of aromatic groups in heavy petroleum fractions using HPLC-UV-DAD", Fuel 80 (2001) 147-153.
- Pro\_J\_2000\_26 Nikos Pasadakis, Eleni Chamilaki, Nikos Varotsis. "Method measures commingled production, pipeline components", Oil & Gas Journal, Jan. 3 2000 46-47.
- Pro\_J\_2000\_25 N. Pasadakis, N. Varotsis. "Optimization of the HPLC separation of aromatic groups in petroleum fractions", Fuel 79 (2000) 1455-1459.
- Pro\_J\_2000\_24 N. Pasadakis and N. Varotsis. "A Novel Approach for the quantitation of the Hydrocarbon Groups in Heavy Petroleum Fractions by HPLC-RI analysis", Energy & Fuels 2000, 14, 1184-1187.
- Pro\_J\_1998\_23 N. Varotsis, N. Pasadakis, and V. Gaganis. "A novel approach for the characterization of aromatics in petroleum fractions using HPLC-UV-DAD and evolving factor analysis", Fuel, vol. 77, No.13, pp. 1495-1502, 1998.
- Pro\_J\_1998\_22 N. Varotsis, N. Pasadakis. "DETERMINATION OF THE COMPOSITION OF COMMINGLED CRUDE OIL STREAMS BY HPLC-SEC WITH UV AND IR DETECTION", J. LIQ. CHROM. & REL. TECHNOL., 21(5), 657-667 (1998).
- Pro\_J\_1997\_21 Nikos Varotsis and Nikos Pasadakis. "An Analytical Method for Rapid Monitoring of the Degree of Hydrogenation of Recycled Lubricating Motor Oils", Ind. Eng. Chem. Res. 1997, 36, 3915-3919.
- Pro\_J\_1997\_20 Nikos Varotsis and Nikos Pasadakis. "Rapid Quantitative Determination of Aromatic Groups in Lubricant Oils Using Gel Permeation Chromatography", Ind. Eng. Chem. Re, 1997, 36, 5516-5519.

- Pro\_J\_1996\_19 Nikos Varotsis, N. Pasadakis. "Calibration prerequisite for accurate PVT measurements", Oil & Gas Journal, Jan. 1996, 93-96.
- Pro\_J\_1995\_18 NIKOS VAROTSI and NIKOS PASADAKIS. "An Integrated Method for the Gas Chromatographic Analysis of Natural Gases and Liquid Petroleum Mixtures", Chimika Chronika, New Series, 25, 287-300 (1995).
- Pro\_C\_2016\_17 George Livanos, Nikos Pasadakis, Michalis Zervakis, George Giakos. "Qualitative and Quantitative Determination of Oil Base Mud Using Non-Negative Matrix Factorization", 2016 IEEE International Conference on Imaging Systems and Techniques (IST), 362-367
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- Env\_P\_2004\_2 M. Ruiz, M. Karasavova, N. Pasadakis and N. Kalogerakis. "Bioremediation of Natural Seawater Polluted with Weathered Crude Oil by Salt-Tolerant Consortia in an Aerobic Bioreactor", 2nd Joint Annual Meeting of the German Chemical Society, Aachen, Oct 6-8, 2004, Abstract Book, 194.

Env\_P\_2004\_1      Wioletta Przystas, Nikos Pasadakis and Nicolas Kalogerakis. “BIOREMEDIATION OF PETROLEUM CONTAMINATED SANDS”, INTERNATIONAL CONFERENCE ON BIOREMEDIATION OF SOIL AND GROUNDWATER, CRACOW, POLAND, Sep. 5-8, 2004, Abstract Book, 86.

## RESEARCH PROJECTS

### As scientific coordinator

Year	Project	Funding
2016-2019	Hydrocarbons Exploration and Production in West Patraikos by “Hellenic Petroleum”	Hellenic Petroleum
2016-2018	Geochemical and petrophysical characterization of rock samples from Katakolon and Ioannina regions	Energiean Oil & Gas
2017-2018	Kinetic study of hydrolysis and determination of distribution coefficients for single well tracer test in oil well	HC Reservoir Engineering AS, Norway
2017-2018	Geochemical study of petroleum source rocks from Brunei	Brunei University-Darussalam
2010-2014	Characterization of “Motor Oil Hellas” refinery products according to the European directive REACH 1907/2006.	MOTOR OIL Hellas
2010-2014	Characterization of “Hellenic Petroleum” refinery products according to the European directive REACH 1907/2006.	Hellenic Petroleum
2012	Characterization of “Cyclon Hellas” refinery products according to the European directive REACH 1907/2006.	CYCLON Hellas
2012	Qualitative evaluation of petroleum fuels in local market of Chania prefecture.	EBEXA
2009	Optimization of the upgrading processes of used lube oils with catalytic hydrotreatment.	CYCLON Hellas
2007-2008	Organic geochemical study of potential petroleum source rocks in Greece.	Research Fund TUC
2006-2008	Modelling of “Epsilon-Prinos” reservoir, for optimization of field development.	GSRT KAVALA OIL S.A.

2006-2008	Exploration and evaluation of biogenic gas as energy source in Neogene formation of the Arkalochori-Heracklion region.	GSRT, Municipality of Arkalochori
2004-2006	Estimation and monitoring of soil pollution from hydrocarbons with geophysical methods	GSRT, GEOTECH
2004-2006	Pilot study of lubricant oil extraction.	Motor Oil Ελλάς Research Fund TUC
2003-2008	Evaluation of the pollution situation in Aspropyrgos-Athens refinery.	Hellenic Petroleum
2002-2006	Feasibility study for the use of greel lignites as adsorbents for gas cleaning.	IGME
1993	Determination of wettability in oil reservoirs and implications on oil production	Research Fund TUC

#### As researcher

Year	Project	Funding
2013-2018	KILL*SPILL	EU, 7th Capacities, International cooperation
2011-2013	ULIXES - Unravelling and exploiting Mediterranean Sea microbial diversity and ecology for XEnobiotics' and pollutantS' clean up	EU, 7th, Cooperation, Environment
2002-2005	Exploration and Evaluation of the Eastern Mediterranean Sea Gas hydrates and the Associated Deep Biosphere, EC CONTRACT EVK3-CT-2002-00068.	EU, Framework Energy, Environment and Sustainable Development
2002-2005	Evaluation of the miscible gas injection in oil reservoirs by monitoring the asphaltenes concentration, EC CONTRACT NNE5/2001/250.	EU, Framework Energy, Environment and Sustainable Development
1999-2002	Hydrate Autoclave Coring Equipment System, EC CONTRACT EVK3-2000-00549.	EU, Framework Energy Sustainable Marine Ecosystems
2001	PVT study of reservoir fluids from the Epsinon-1 well of Prinos field.	KAVALA OIL S.A.
1999-2001	Biodegradation of organic pollutants in soils and aquifer.	GSRT

1999-2000	Development, optimization and pilot scale study of an integrated scheme for lubricant oil production in Motor Oil Hellas refinery.	GSRT
1995-1998	Increase of domestic capacity for recycling of used lube oils	GSRT
1998	Geochemical study of Greek lignites using biomarkers	IGME
1997	Experimental study of asphaltenes formation and precipitation in in North Prinos oil	NAPC
1997	PVT study of reservoir fluids from the North Prinos-1 well of Prinos field.	NAPC
1995	Laboratory and modelling study of the volumetric behavior of North Sea condensates	TU Delft
1994	PVT study of reservoir fluids from the PN-2 well of Prinos field.	NAPC
1994	Core analysis study of the exploratory well PN-2 from North Prinos reservoir	NAPC
1994	Geochemical study of the exploratory well PN-2 from North Prinos reservoir.	Wintershall AG, Germany

### **Reviewer in scientific journals**

“Energy & Fuels” “Fuel” “Fuel Processing Technology”, “Chemometrics and Intelligent Laboratory Systems”, “Analytica Chimica Acta”, “Analytical and Bioanalytical Chemistry”, “Talanta”, “Journal of Chromatography, A”, “Chemical Engineering Communications”, “Chemical Engineering and Processing”, “Energy Sources, Part A”, “Journal of Petroleum Science and Engineering”