**Curriculum Vitae**

**Name** Veziri Charitomeni

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**Nationality** Greek

**Birthday** 2 June 1980

**EDUCATION BACKGROUND**

**• 2012** Ph.D: Department of Chemical Sciences, National Technical University of Athens, Greece, Advisor: Prof. K. Kordatos

Dissertation: *“Synthesis and Characterization of Oriented Molecular Sieve Films and of Composites of Porous Materials with Carbon Nanostructures”*, carried out in MESL laboratory, NCSR Demokritos (Dr. N. Kanellopoulos)

**•2005** Diploma in Physics: (4-year program): Department of Physics, University of Patras, Greece

**PROFESSIONAL EXPERIENCE**

**• 2012-2021**Post-Doctoral Research Associate: MESL laboratory, Institute of Nanoscience and Nanotechnology, National Center for Scientific Research Demokritos.

**Funded by:** INSIDE PORES Network of Excellence, EU (NEXT-GTL, FUSION), IOLICAP (FP7), SolMeD-Αριστεία ΙΙ, ZEOCAT-3D (HORIZON-2020)

**RESEARCH INTERESTS**

**•** Synthesis and Characterization of Zeolites and Hybrid Organic-Inorganic Crystalline Microporous solids (Zeolitic Imidazolate Frameworks, ZIFs).

**•** Synthesis and Characterization of Carbon Nanostructures and Carbon Composites.

**•** Secondary (Seeded) Growth and Characterization of Zeolite and ZIF Films and Membranes.

**•** Sorption and Membrane Processes.

**PUBLICATIONS**

**Articles in Refereed Journals**

**•2020** [Athanassios G.Kontos](https://www.sciencedirect.com/science/article/pii/S0169433220318158?via%3Dihub#!), [George Em.Romanos](https://www.sciencedirect.com/science/article/pii/S0169433220318158?via%3Dihub#!), [Charitomeni M.Veziri](https://www.sciencedirect.com/science/article/pii/S0169433220318158?via%3Dihub#!), [Anastasios Gotzias](https://www.sciencedirect.com/science/article/pii/S0169433220318158?via%3Dihub#!), [Michalis K.Arfanis](https://www.sciencedirect.com/science/article/pii/S0169433220318158?via%3Dihub#!), [Evangelos Kouvelos](https://www.sciencedirect.com/science/article/pii/S0169433220318158?via%3Dihub#!), [VlassisLikodimos](https://www.sciencedirect.com/science/article/pii/S0169433220318158?via%3Dihub#!), [Georgios N.Karanikolos](https://www.sciencedirect.com/science/article/pii/S0169433220318158?via%3Dihub#!), [Polycarpos Falaras](https://www.sciencedirect.com/science/article/pii/S0169433220318158?via%3Dihub#!) “Correlating vibrational properties with temperature and pressure dependent CO2 adsorption in zeolitic imidazolate frameworks” [Applied Surface Science](https://www.sciencedirect.com/science/journal/01694332) 2020 (529) 147058

**•2020** [Veronika Grzimek,](https://www.sciencedirect.com/science/article/pii/S1387181118305961?via%3Dihub#!) [Gerrit Guenther](https://www.sciencedirect.com/science/article/pii/S1387181118305961?via%3Dihub" \l "!), [RomanSvetogorov](https://www.sciencedirect.com/science/article/pii/S1387181118305961?via%3Dihub#!), [**Charitomeni M.Veziri**](https://www.sciencedirect.com/science/article/pii/S1387181118305961?via%3Dihub#!), [MariaKapsi](https://www.sciencedirect.com/science/article/pii/S1387181118305961?via%3Dihub#!), [GeorgiosN.Karanikolos](https://www.sciencedirect.com/science/article/pii/S1387181118305961?via%3Dihub#!), [Oleksandr Prokhnenko](https://www.sciencedirect.com/science/article/pii/S1387181118305961?via%3Dihub#!), [Robert Bewley](https://www.sciencedirect.com/science/article/pii/S1387181118305961?via%3Dihub#!), [MargaritaRussina](https://www.sciencedirect.com/science/article/pii/S1387181118305961?via%3Dihub#!) “Explaining water adsorption in one-dimensional channels in AlPO4-5 on molecular scale”[Microporous and Mesoporous Materials](https://www.sciencedirect.com/science/journal/13871811) 2020 (304) 109201

**• 2019** Margarita Russina**,** Gerrit Günther, Veronika Grzimek, Moritz C. Schlegel, **Charitomeni M. Veziri**, Georgios N. Karanikolos, Takeshi Yamada Ferenc Mezei “Nanoscale Dynamics and Transport in Highly Ordered Low-Dimensional Water” *J*. Phys. Chem. Lett. 2019 (20) 6339

**• 2019** E. Balis, A. Sapalidis, G.Pilatos**, E. Kouvelos, Ch. Athanasekou, C. Veziri, P. Boutikos, K.G. 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, 2019 (224) 163

**• 2018** Benjamin Kueh, Maria Kapsi, **Charitomeni Veziri**, Chrysa Athanasekou, George Pilatos, K. Suresh Kumar Reddy, Abhijeet Raj, and Georgios N. Karanikolos“*Asphaltene-Derived Activated Carbon and Carbon Nanotube Membranes for CO*2 *Separation*”Energy Fuels, 2018 (32) 11718

**• 2018** Moritz C. Schlegel, Veronika Grzimek, Gerrit Günther, Roman Svetogorov,

**Charitomeni M. Veziri**, Maria Kapsi, Georgios N. Karanikolos, Oleksandr Prokhnenko, Robert Bewley, Margarita Russina“Explaining water adsorption in one-dimensional channels in AlPO4-5 on molecular scale”Microporous and Mesoporous Materials, In press

**• 2016** I. Yakoumis, G. Theodorakopoulos, S. K. Papageorgiou, G. Romanos, **C. Veziri**, D. Panias, *“Tubular C/Cu decorated γ-alumina membranes for NO abatement”* Journal of Membrane Science, 2016 (515) 134

**• 2016** G.Pilatos, M. Samouhos, P. Angelopoulos, M. Taxiarchou, **C. Veziri**, R. Hutcheon, P. Tsakiridis, A.G. Kontos, *“Carbon nanotubes growth on expanded perlite particles via CVD method: The influence of the substrate morphology”* Chemical Enginnering Journal, 2016 (291) 106

**• 2015** A. Labropoulos, **Ch. Veziri**, M. Kapsi, G. Pilatos, V. Likodimos, M. Tsapatsis, G.E. Romanos, G. N. Karanikolos, *“Carbon Nanotube Selective Membranes with Sub-Nanometer Thick, Vertically Aligned Pores”* Chemistry of Materials, 2015 (27) 8198

**• 2014** A. G. Kontos, V. Likodimos, **Ch. M. Veziri**, E. Kouvelos, N. Moustakas, G. N. Karanikolos, G. Em. Romanos, P. Falaras, *“CO2 Captured in Zeolitic Imidazolate Frameworks: Raman Spectroscopic Analysis of Uptake and Host–Guest Interactions”* Chemistry and Sustainability Energy and Materials, 2014 (7) 1696

**• 2013** O. Tzialla, **Ch. Veziri**, X. Papatryfon, K.G. Beltsios, A. Labropoulos, B. Iliev, G. Adamova, T.J.S. Schubert, M.C. Kroon, M. Francisco, L.F. Zubeir, G.E. Romanos, G. N. Karanikolos *“Zeolite Imidazolate Framework−Ionic Liquid Hybrid Membranes for Highly Selective CO2 Separation”* Journal of Physical Chemistry C, 2013 (117) 18434

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**• 2012** J. Stoeger, **Ch. M. Veziri**, M. Palomino, A. Corma, N. K. Kanellopoulos, M. Tsapatsis, G. N. Karanikolos *“On stability and performance of highly c-oriented columnar AlP04-5 and CoAPO-5 membranes”* Microporous and Mesoporous Materials, 2012 (147) 286

**• 2010** Vermisoglou E. C., Karanikolos G. N., Pilatos G. , Devlin E. , Romanos G.E. , **Veziri C. M**. , Kanellopoulos N. K.  *“Aligned Carbon Nanotubes with ferromagnetic behaviour”* Advanced Materials, 2010 (22) 473

**• 2010 Ch. M. Veziri**, M. Palomino, G. N. Karanikolos, A. Corma, N. K. Kanellopoulos, M. Tsapatsis *“Toward Submicrometer c-Oriented Nanoporous Films with Unidimensional Pore Network: AFI Film Morphology Control by Precursor Mixture Manipulation”* Chemistry of Materials, 2010 (22) 1492

**• 2009 Ch. Veziri**, , G. Karanikolos, G. Pilatos, E. Vermisoglou, K. Giannakopoulos, Ch. Stogios, N. K. Kanellopoulos, *“Growth and morphology manipulation of carbon nanostuctures on porous supports”* Carbon, 2009 (47) 2161

**• 2008 Ch. Veziri**, G. Pilatos, G. Karanikolos, A. Lambropoulos, K. Kordatos, V. Rigopoulou Kaselouri, N. K. Kanellopoulos *“Growth and optimization of carbon nanotubes in activated carbon by catalytic chemical vapour deposition”* Microporous and Mesoporous Materials 2008 (110) 41

**Conference Papers**

**• 2011** J. Stoeger, M. Palomino, **Ch. M. Veziri,** A. Corma, N. K. Kanellopoulos, G. N. Karanikolos, M. Tsapatsis *“Stability and Separation Performance of Highly c-Oriented AFI-Type Aluminophosphate Membranes”* October2011 AIChE Annual Meeting

**Book Chapters**

**• 2015 Ch. M. Veziri**, A. Labropoulos, G. N. Karanikolos, N. K. Kanellopoulos, in *“**Small-Scale Gas to Liquid Fuel Synthesis”***,** Edited by N. K. Kanellopoulos, CRC Press, 2015.

**CONFERENCE PRESANTATIONS**

**• 2021** *“*Synthesis of hierarchical zeolites structures for methane valorization*”* 17th International Conference of Advanced Nanomaterials ANM 2021,Portugal, July 22 *(poster)*

**• 2015** *“Carbon Nanotube Microporous Membranes for Gas Separation”* 4th Nanotoday Conference, Dubai, December 6 *(poster)*

**• 2014** Ch. M. Veziri, A. Labropoulos, N. K. Kanellopoulos, M. Tsapatsis, G. Em. Romanos, **G. N. Karanikolos**,*“Carbon Nanotube Microporous Membranes for Gas Separation”* 11th International Conference on Nanosciences & Nanotechnologies, Thessaloniki, July 8 *(oral)*

**• 2013** *“CO2 Capture in Zeolite Imidazole Frameworks (ZIFs) Investigated by Raman Spectroscopy”* NN13 – 10th International Conference on Nanosciences & Nanotechnologies, Workshop 2: Nanomaterials, Nanofabrication, Nanoengineering & Nanoconstruction, Thessaloniki, July 9 *(poster)*

**• 2013** *“Ionic Liquid modified Zeolite Imidazolate Framework (ZIF-69) membranes for energy efficient CO2 separation from coal fired power plants”* Materials and Renewable Energy congress, Athens, July 1 *(poster)*

**•2013** *“Zeolitic Imidazolate Framework-Ionic Liquid Hybrids for Enhanced CO2 Capture and Separation”* 3nd International Conference on Multifunctional, Hybrid and Nanomaterials, Sorrento, March 3 *(poster)*

**• 2010 Ch. M. Veziri**, M. Palomino, J. Stoeger, G. N. Karanikolos, A. Corma, N. K. Kanellopoulos, M. Tsapatsis, *‘‘Seeded Growth of AFI films and Membranes’’* 5th International Zeolite Membrane Meeting, Loutraki, Greece, May 23 *(oral)*

**• 2009 X. M Βεζύρη**, Γ. Ν Καρανικολός, Ν, Κ Κανελλόπουλος, M. Palomino, Avelino Corma, Μ. Τσαπατσής, ‘‘Δευτεροταγής ανάπτυξη υμενίων και μεμβρανών AFI’’ 4οΠανελλήνιο Συμπόσιο πορωδών υλικών, Πάτρα, 22 Οκτώβρη *(oral)*

**• 2008 G. N. Karanikolos**, Ch.M. Veziri, N.K. Kanellopoulos, M. Tsapatsis, *‘‘Seeded Growth of Nanoporous Materials: From particles to films’’*, The Nano-multidisciplinary Symposium, 1st International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems, Halkidiki, Greece, June 18 *(oral)*

**• 2008 G.N. Karanikolos**, Ch.M. Veziri, M. Palomino, N.K. Kanellopoulos, M. Tsapatsis, “*Seeded growth of AlPO4-5 and CoAPO-5 films: Control over film morphology and pore orientation”*, 34th International Conference on Micro & Nano Engineering, Athens, Greece, September 17 *(oral)*

**• 2008** “*Oriented Microporous Films by Seeded Growth*”, 1st International Workshop of Nanoporous Materials in Energy and Environment, Chania, Greece, October 14 *(poster)*

**• 2007** *“Growth of Carbon Nanostructures on Porous Supports via CVD”* 3rd International Workshop, “New Challenges for Nanoporous Materials” Alicante (Spain) September 24-26, (INSIDE-POReS network of excellence) *(poster)*

**• 2007** *“Optimization of carbon nanotubes growth on calgon granular activated carbon and sorption properties of the composite material”* 2nd International School and Workshop CERTH Thessaloniki February 24-28, (INSIDE-POReS network of excellence) *(poster)*

**• 2006** 1st International School and Workshop Montpellier March 19-24, (INSIDE-POReS network of excellence).

**RESEARCH GRAND PROPOSALS**

**ESPA 2014-2020:** " Support of new researchers " : BENCH - Screening crystallized nanomaterials for benzene cyclohexane separation. MIS:5005985 (February 2017)

**ELIDEK 2017:** 1st call of ELIDEK research projects for the support of researchers, category 1. Principal investigator, of the project: Generation of Novel Hybrid Materials based on Zeolitic Imiidazolate Frameworks and Graphene Oxide for Water Desalination, code number, 2438, acronym, ZiODESAL (March 2017)

**CERTIFICATES**

**• 1996** FIRST CERTIFICATE IN ENGLISH, University of Cambridge.