

Curriculum Vitae

Athanasios Ladavos

Rank: Professor

Knowledge Area: General Chemistry

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Academic Titles

- B.Sc. in Chemistry, 1987, Chemistry Department, University of Ioannina
- PhD, 1992, Chemistry Department, University of Ioannina (title:Catalytic activity characterization of perovskite-type oxides $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$ and relative forms supported on various supports)

Research Interests

- Hybrid organic-inorganic nanocomposites. Synthesis / structure characterization. Investigation of antimicrobial, mechanical and barrier properties.
- Geographic origin of agricultural products via isotopic ratio of stable isotopes estimation.
- Preparation and characterization of mixed oxides catalysts. Catalytic activity studies of reactions with environmental interest.
- Development of porosity's characterization methods

Reviewer in International Journals

- ✓ Applied Catalysis A: General
- ✓ Applied Catalysis B: Environmental
- ✓ Langmuir
- ✓ Journal Applied Polymer Science
- ✓ Composite Science and Technology
- ✓ Journal Composite Materials
- ✓ New Journal of Chemistry
- ✓ Microporous & Mesoporous Materials
- ✓ Journal of Polymer Research
- ✓ Materials Chemistry & Physics
- ✓ Catalysis Communications
- ✓ Reaction Kinetics Mechanisms & Catalysis
- ✓ Energy & Fuels
- ✓ Chemical Communications
- ✓ RCS-Advances
- ✓ Ceramics International
- ✓ Industrial & Engineering Chemistry Research
- ✓ Journal of Materials Chemistry A

- ✓ Carbohydrate Polymers
- ✓ PCCP
- ✓ ACS Sustainable Chemistry & Engineering
- ✓ International Journal of Biological Macromolecules
- ✓ Polymers
- ✓ Progress in Organic Coatings
- ✓ Food Hydrocolloids
- ✓ Journal of Physics and Chemistry of Solids
- ✓ Npj Science of Food
- ✓ Food Control

Publications in peer reviewed International Journals

1. "Comparative study of the solid state and catalytic properties of $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4\text{-}\lambda$ perovskites ($x=0.00$ to 1.50) prepared by the nitrate and citrate method." A.K.Ladavos and P.J.Pomonis, *J. Chem. Soc Faraday Trans.*, 87(19), 3291-3297, 1991.
2. "Intercalation of La_2O_3 and $\text{La}_2\text{O}_3\text{-NiO}$ Oxidic Species into Montmorillonite layered structure." A.K.Ladavos and P.J.Pomonis. G.Poncelet, P.A.Jacobs, P.Grancé and B.Delmon (Editors), *Studies in Surface Science and Catalysis "Preparation of Catalysts V"*, Elsevier, Amsterdam, p.p. 319-328, 1991.
3. "Catalytic Activity of Perovskite Species LaNiO_x Intercalated into Montmorillonite as Compared to Non-intercalated Ones." A.K.Ladavos, P.J.Pomonis, S.P.Skaribas, *Materials Science Forum* Vols. 91-93, pp.799-804, (1992).
4. "Catalytic Combustion of Methane on $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4\text{-}\lambda$ ($x=0.00\text{-}1.50$) Perovskites Prepared via the Nitrate and Citrate Routes" A.K.Ladavos and P.J.Pomonis, *J. Chem. Soc Faraday Trans.*, 88(17), 2557-2562, 1992.
5. "Effects of substitution in perovskites $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4\text{-}\lambda$ on their catalytic action for the NO+CO reaction." A.K.Ladavos and P.J.Pomonis, *Applied Catalysis B, Environmental*, 1 (1992) 101-116.
6. "De- NO_x process in the presence of CO on perovskites La-Ni-O supported on Al_2O_3 and ZrO_2 ", A.K.Ladavos and P.J.Pomonis, *Catalysis Today*, 17 (1993) 181-188.
7. "Structure and Catalytic Activity of Perovskites La-Ni-O Supported on Alumina and Zirconia", Athanasios K.Ladavos and Philip J.Pomonis, *Applied Catalysis B, Environmental*, 2 (1993) 27-47.
8. "Red-ox Treatment of an Fe/Al Pillared Montmorillonite. A Moessbauer Study", T.Bakas, A.Moukarika, V.Papaefthymiou, A.Ladavos and N.-H.J.Gangas, *Clays and Clay Minerals*, Vol.42, No.5, 634-642, 1994.
9. "Surface Characteristics and Catalytic Activity of Al-Pillared (AZA) and Fe-Al-Pillared (FAZA) Clays for isopropanol Decomposition", A.K.Ladavos, P.N.Trikalitis and P.J.Pomonis, *Journal of Molecular Catalysis, A:Chemical*, 106 (1996) 241-254.
10. "Mechanistic aspects of NO+CO reaction on $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4\text{-}\delta$ ($x=0.00\text{-}1.50$) perovskite-type oxides". A.K.Ladavos and P.J.Pomonis, *Applied Catalysis, A:General*, 165 (1997), 73-85.
11. "Synthesis, Characterization and Catalytic Activity of La_yMO_x ($M=\text{Ni, Co}$) Perovskite-type Particles Intercalated in Clay via Heterobinuclear Complexes", A.K. Ladavos, F. Kooli, S. Moreno, S.P. Skaribas, P.J. Pomonis, W. Jones, and G. Poncelet, *Applied Clay Science*, 13 (1998), 49-63.

- 12.** "Structure and Catalytic Activity of $\text{La}_{1-x}\text{FeO}_3$ system ($x=0.00, 0.05, 0.10, 0.15, 0.20, 0.25, 0.35$) for the $\text{NO}+\text{CO}$ Reaction", V.C.Belessi, P.N.Trikalitis, A.K.Ladavos, T.V.Bakas and P.J.Pomonis, *Applied Catalysis A:General*, 177 (1999), 53-68.
- 13.** "Preparation, characterization and surface acid catalytic activity of microporous clays pillared with $\text{Al}_{1-x}\text{Fe}_x\text{O}_y$ ($x=0.00$ to 1.00) oxidic species", V.N.Stathopoulos, A.K.Ladavos, K.M.Kolonia, S.P.Skaribas, D.E.Petrakis and P.J.Pomonis, *Microporous and Mesoporous Materials*, 31 (1999), 111-121.
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- 16.** 'The $\text{Al}_2\text{O}_3\text{-Fe}_2\text{O}_3$ mixed oxidic system. Part II. Catalytic Decomposition of N_2O ', A.K.Ladavos and Th.Bakas, *React. Kinet. and Catal. Lett.*, 73(2) (2001) 229-235.
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- 19.** 'Samarium Based High Surface Area Perovskite Type Oxides $\text{SmFe}_{1-x}\text{Al}_x\text{O}_3$ ($x=0.00, 0.50, 0.95$). Part II: Catalytic Combustion of CH_4 ', Vassilios Stathopoulos, Vassiliki Belesi and Athanasios Ladavos, *React. Kinet. Catal. Lett.*, 72 (2001) 49-55.
- 20.** 'Samarium Based High Surface Area Perovskite Type Oxides $\text{SmFe}_{1-x}\text{Al}_x\text{O}_3$ ($x=0.00, 0.50, 0.95$). Part I. Synthesis and Characterization of Materials', Vassilios Stathopoulos, Vassiliki Belesi and Athanasios Ladavos, *React. Kinet. Catal. Lett.*, 72 (2001) 43-48.
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- 33.** “A Novel method for estimating the C-values of the BET Equation in the whole range $0 < \text{P}/\text{Po} < 1$ using a Scatchard – type Treatment of it”, P. J. Pomonis, D. E. Petrakis, **A. K. Ladavos**, K. M. Kolonia, G. S. Armatas, S. D. Sklari, P. C. Dragani, A. Zarla, V. N. Stathopoulos and A. T. Sdoukos, *Microporous and Mesoporous Materials, Volume 69, Issues 1-2, 8 April 2004, Pages 97-107.*
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- microemulsion method, A.E. Giannakas, A.K. **Ladavos**, G.S.Armatas and P.J. Pomonis *Applied Surface Science*, (2007) 253 (16) 6969-6979.
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