



ANDREAS KOUTSELOS

Professor

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EDUCATION

1986 Ph.D. in Physical Chemistry, Brown University, Providence RI. USA

1981 B.Sc. in Chemistry, National and Kapodistrian University of Athens, Greece

APPOINTMENTS

2006 Visiting Scholar, Van 't Hoff Institute, UvA, Holland

1990,1994 Research affiliate, Brown University RI. USA

1989 - today National and Kapodistrian University of Athens

1988 Boston College, Boston, MA, USA

1987 Post Doctoral studies, Stanford University, Stanford, CA. USA

RESEARCH FIELDS

- Dynamics and transport of chemical systems through stochastic and kinetic theory calculations, as well as, through Molecular Dynamics simulations.
- Special systems consist of ions moving in fluids under the action of electromagnetic field and chemical reacting systems.

EDUCATIONAL EXPERIENCE

UNDERGRADUATE COURSES

- Physical Chemistry II
- Physical Chemistry III

POST-GRADUATE COURSES

- Physical Chemistry
- Statistical Mechanics

REVIEWER OF SCIENTIFIC JOURNALS

Journal of Chemical Physics , Chemical Physics, Journal of Applied Physics, Scientific Reports κ.α.

AWARDS / SCHOLARSHIPS

- Research award from the Rectorship of the National and Kapodistrian University of Athens (1999).

ADDITIONAL INFORMATION

- 25 Publications in journals with peer review
- 2 Published books
- 24 Conference presentations
- Supervision of doctoral thesis: 1
- Supervision of graduate students: 6
- Supervision of undergraduate students: 19

RE SELECTED PUBLICATIONS

"Molecular dynamics simulation of ion transport in moderately dense gases in an electrostatic field", G. Balla and A. D. Koutselos, *J. Chem. Phys.* 119, 11374 (2003).

"Third-Order Transport Properties of Ion-Swarms from Mobility and Diffusion Coefficients", A. D. Koutselos, *Chem. Phys.* 315, 193 (2005).

"Mixed Quantum-Classical Molecular Dynamics Simulation of Vibrational Relaxation of Ions in an Electrostatic Field", A. D. Koutselos, *J. Chem. Phys.* 125, 244304 (2006).

"Transport and dynamic properties of O₂ + (X²Π_g) in Kr under the action of an electrostatic field: Single or multiple potential energy surface treatment", A. D. Koutselos, *J. Chem. Phys.* 134, 194301 (2011).

"Molecular dynamics simulation for the dynamics and kinetics of folding peptides in the gas phase", I. Litinas and A. Koutselos. *J. Phys. Chem. A.* 119, 12935, (2015).

"Dynamics of flexible peptides under the action of an electrostatic field in the gas phase", Iraklis Litinas and Andreas D. Koutselos, *J. Mol. Liq.* 245, 115 (2017).

"Structure Distribution of Gaseous Ions in Strong Electrostatic Fields", I. Litinas and A. Koutselos. *J. Phys. Chem. A.* 119, 12935, (2019).