

## MASSIMILIANO ASCHI – CURRICULUM VITAE ED STUDIORUM

1967 – Born in Roma the 18/03/1967  
1986 – Secondary School Diploma (Maturità Classica, mark: 60/60)  
1992 – Laurea Degree in Chemistry (mark: 110/110) at the Università degli Studi di Roma 'La Sapienza'. Title of the Thesis : Gas-Phase Ion-Chemistry of Nitramide  
1993 – Abilitation for the profession of chemist (Esame di Stato, Luglio 1993)  
1993 – Civil Service (in place of Military Service)  
1993 – Winner of a PhD grant Università degli Studi di Roma 'La Sapienza' (I classificato)  
1993 – Selected as student for an IBM course in Computational Chemistry  
1994-1996 – PhD student (1997 – PhD final dissertation at Ferrara - Italy).  
1994 – Winner of the International Prize 'I.J.M.S. Best Student Paper Award'  
1996 – Winner of a CNR-NATO grant  
1997 – *Post-doc fellow* at the Technical University of Berlin in the lab of Prof. H. Schwarz and Prof. W. Koch.  
1998 – *Post-doc fellow* at the University of Perugia (from february to june)  
1998-1999 – *Post-doc fellow* at the University of Viterbo (from september 1998)  
1999 – Lecturer of General Chemistry in the High School of Radiology at the Belcolle Hospital of Viterbo  
2000 – Lecturer of Radiochemistry in University of L'Aquila  
2000-2001 – *Post-doc fellow* at the Università di Roma 'La Sapienza'  
2001 – Winner of position of Assistant Professor  
(Chimica Generale ed Inorganica) at the University of L'Aquila.  
2004 – Associate Professor (Chimica Generale ed Inorganica) at the University of L'Aquila.  
2006 – Elected in the board of the *Sezione Abruzzo - Società Chimica Italiana*  
2010 – 2012: President of *Sezione Abruzzo - Società Chimica Italiana*  
2014 – 2018: Coordinator of the Chemistry courses at the University of L'Aquila  
2018 – Member of the Senato Accademico at the University of L'Aquila  
2021 – Coordinator of the PhD course of Scienze Fisiche e Chimiche at the University of L'Aquila

## SCIENTIFIC ACTIVITY.

Between 1994 and 2001 the scientific activity of M.A. focused on the study of the reactivity and the thermodynamic properties of gaseous species (essentially ions) initially through experimental techniques working both in high (radiolysis) and low (Ion Cyclotron Resonance, 2-sector MS, Triple Quadrupole MS) pressure conditions and, subsequently, by means of standard quantum-chemical approaches.

In 2001 he began to be interested in Force-field-based Molecular Dynamics (MD) simulations and mixed quantum-classical simulations essentially for the study of highly complex atomic-molecular systems.

In the last years the scientific activity of M.A. has been characterized by two main trends:

- (i) a more fundamental activity based on the deepening of PMM features and its applications
- (ii) a more applicative activity based on the use of MD and Quantum-Chemical calculations for supporting and interpreting experimental studies both in the area of Biochemistry and Organic-Inorganic Chemistry.

M.A. has an H-index of 31 (Scopus, May 2022).

In the last years M.A. has participated at the organization of several international and national congresses and workshops such as:

- Workshop in Molecular Theories and Simulations (Gaeta – from 2002 to 2008 and in 2010)
- TUMA – 2008 (L'Aquila, June 2008)
- TUMA – 2012 (Pescara, July 2012)
- Congresso Divisione Chimica-Teorica e Computazionale (Roma – December 2015)

Congresso Divisione Chimica-Teorica e Computazionale (Pisa – October 2016)

QUITEL 2016 di Torino (Luglio – 2016)

M.A. has been *speaker* in many congresses and workshops and *Invited Speaker* in some congresses such as (incomplete list):

19th IUPAC Conference in Physical Organic Chemistry in Physical Organic Chemistry

Faraday Discussions 2010 (Frontiers in Physical Organic Chemistry)

Congresso Nazionale della Società Chimica Italiana 2011 (Divisione Didattica)

Congresso Nazionale della Società Chimica Italiana 2017 (Divisione Ch. Teorica e Comput.)

He is *referee* for several journal such as (incomplete list):

Journal of Physical Chemistry

Physical Chemistry Chemical Physics

Inorganica Chimica Acta

Chemical Physics Letters