



Dr Adnene DHOUIB

College of Sciences. IAU

Associate Professor

Physical Chemistry

Option : Computational and Quantum Chemistry

#### Personal Data

Nationality | Tunisian

Date of Birth |05/27/1968

Department |Chemistry

Official IAU Email |amdhouib@uod.edu.sa

#### Language Proficiency

Language	Read	Write	Speak
Arabic	fluent	excellent	fluent
English	fluent	excellent	fluent
French	fluent	excellent	fluent
Italian	very good	moderate	moderate

#### Academic Qualifications

Date	Academic Degree	Place of Issue	Address
2013	Habilitation to Lead Research in Chemistry <b>HDR</b>	College of Science <b>Tunis FST</b> University Tunis el Manar	Tunis, Tunisia
2005	Doctorate in Chemistry	College of Science <b>Tunis FST</b> University Tunis el Manar	Tunis, Tunisia
1996	Diploma of advanced studies <b>DEA</b> in Solid State Chemistry	College of Science <b>Tunis FST</b> University Tunis el Manar	Tunis, Tunisia
1994	Master Degree in Physical Chemistry	College of Science <b>Tunis FST</b> University Tunis el Manar	Tunis, Tunisia

#### PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

<b>HDR</b> 2013	HDR in Chemistry. Option: Quantum and Computational Chemistry ( <b>with honors and jury felicitations</b> ) Faculty of Sciences of Tunis, University Tunis El Manar.
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<b>PhD</b> 2005	Doctorate in Chemistry. Option: Quantum and Computational Chemistry ( <b>with honors and jury felicitations</b> ) Faculty of Sciences of Tunis, University Tunis El Manar.
<b>Master</b> 1994	Master degree in Chemical Physics ( <b>Top 1 in this year</b> ), Faculty of Science of Tunis, University Tunis El Manar.
<b>Fellowship</b>	<ul style="list-style-type: none"> <li>• <b>AUF Scholarship of excellence for research :</b> <ol style="list-style-type: none"> <li>1- September 2004 to December 2004 ( 3 months ) in Laboratory of Theoretical Chemistry, University Pierre et Marie Curie Paris VI, France.</li> <li>2- May 2008 to July 2008 ( 3 months ) in Laboratory of Multiscale Modeling and Simulation, University Marne la vallee, Paris , France.</li> </ol> </li> <li>• Scholarship from the French Ministry of Foreign Affairs for excellent junior researchers. <b>SSHN (7 times) :</b> June 2007, November 2007, January 2008, December 2009, July 2010, November 2011 and December 2011.</li> </ul>

**Professional Record:**

Job Rank	Place and Address of Work	Date
1	University of Dammam ,College of Sciences . Dammam city, KSA.	from 2014 to present
2	University of Carthage , IPEIN, Nabeul , Tunisia.	from 2000 to 2014
3	Ministry of Education and Training , Tunisia.	1996-2000

**Administrative Positions Held:**

Administrative Position	Office	Date
Member of the Scientific Council of college of sciences IPEIN (University of Carthage)		2011-2014
Trainer in the Regional Center of Excellence Training of Ariana to provide internships for the new professors and those who succeeded in the oral examination in the CAPES exam.		2002-2004
Coordinator for the realization of a Lab workbook for 1 <sup>st</sup> year Physical Chemistry classes		2005-2006



## Scientific Achievements

### Published Refereed Scientific Researches

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Marwa DHIFALLAH , <b>Adnene DHOUIB</b> , Sarah ALDULAIJAN, Francesco D. I. Renzo, and Hazar Guesmi.	First-principles study of Au–Cu alloy surface changes induced by gas adsorption of CO, NO or O <sub>2</sub>	The Journal of Chemical Physics <b>AIP</b> July 2016
2	Myriam Sansa · Fabienne Ribeiro · <b>Adnene Dhouib</b> · Guy Trégliá.	Effect of magnetism on surface segregation in FeNi alloys	Journal of Physics Condensed Matter <b>IOP Science</b> February 2016
3	Myriam Sansa · <b>Adnene Dhouib</b> · Hazar Guesmi	Density functional theory study of CO-induced segregation in gold-based alloys	The Journal of Chemical Physics <b>AIP</b> August 2014
4	<b>A. Dhouib</b> , K.Essalah, M. Abderraba, V. Brites and M. Hochlaf	DFT and Ab Initio calculations of spectroscopic properties of tetramethyltin and of its cation	International Journal of Quantum Chemistry <b>Wiley</b> May 2012
5	Zeineb Helali, Alexis Markovits, Christian Minot, <b>Adnene Dhouib</b> and Manef Abderrabba	Improved convergence of rutile-TiO <sub>2</sub> (1 1 0) slab properties with thickness by one-side saturation	Chemical Physics Letters <b>Elsevier</b> April 2012
6	<b>Adnene Dhouib</b> · Hazar Guesmi	DFT study of the M segregation on MAu alloys (M = Ni, Pd, Pt) in presence of adsorbed oxygen O and O <sub>2</sub>	Chemical Physics Letters <b>Elsevier</b> January 2012
7	Sabri Messaoudi · <b>Adnene Dhouib</b> · Manef Abderrabba · Christian Minot	Wetting of Intact and Partially Dissociated Water Layer on Ru(0001): a Density Functional Study	The Journal of Physical Chemistry C <b>ACS</b> April 2011
8	Ramzi Hammami · <b>Adnene Dhouib</b> · Sébastien Fernandez · Christian Minot	CO <sub>2</sub> adsorption on (0 0 1) surfaces of metal monoxides with rock-salt structure	Catalysis Today <b>Elsevier</b> Dec 2008
9	<b>Adnene Dhouib</b> · Christian Minot · Manef Abderraba	A DFT study of the hydration of monophosphate complexes of iron (III), Fe <sup>3+</sup> (H <sub>2</sub> PO <sub>4</sub> <sup>-</sup> )(H <sub>2</sub> O) <sub>5</sub>	Journal of Molecular Structure THEOCHEM <b>Elsevier</b> Jul 2008
10	<b>Dhouib Adnene</b> · Essalah Khaled · Tangour Bahoueddine · Abderrabba Manef	A DFT study of monophosphate complexes of iron (III) Fe(H <sub>2</sub> PO <sub>4</sub> )(H <sub>2</sub> O) <sub>m</sub> <sup>2+</sup> (m=3,4,5)	Journal of Molecular Structure THEOCHEM <b>Elsevier</b> Feb 2005



#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
11	Essalah Khaled. <b>Dhouib Adnen</b> . Slah Krichene.Tangour Bahoueddine · Abderrabba Manef	Ab-initio calculation of the gyrosopic tensor of (TMTSF) <sub>2</sub> ClO <sub>4</sub>	Oriental Journal of Chemistry <b>OJP</b> Jan 2003
12	<b>Dhouib Adnen</b> · Essalah Khaled · Tangour Bahoueddine · Abderrabba Manef	Gyrosopic tensor ab initio calculation of the molecular crystals: (Mo <sub>6</sub> X <sub>14</sub> ) <sub>2</sub> Y(TTF <sup>+</sup> ) <sub>3</sub> (X = Br, Cl and Y = Br, Cl, I)	International Journal of quantum chemistry <b>Wiley</b> Apr 2002

#### Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
2009 to 2012	Pr Christian Minot Dr Abdesselem Jedidi Dr Zeineb Helali <b>France</b>	Theoretical modeling photochemistry using TiO <sub>2</sub> . Applications to water treatment	May 2013
2010 to 2013	Dr Med ben Messaouda Pr Majdi Hochlaf <b>France</b>	DFT and Ab Initio calculations of spectroscopic properties of tetramethyltin and of its cation	May 2014

#### Membership of Scientific and Professional Societies and Organizations

- RSC member (**Royal Society of Chemistry**) 2014 to present ( 2014-2015-2016)
- Member of RSC Theoretical Chemistry Group
- Member of **COST Action MP0903 : NANO-ALLOYS AS ADVANCED MATERIALS**  
<http://www.nanoalloy.eu/>  
(**COST** is the longest-running European framework supporting trans-national cooperation among researchers, engineers and scholars across Europe) [http://www.cost.eu/about\\_cost](http://www.cost.eu/about_cost)