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Professional address: Laboratoire de chimie des matériaux et des vivants: Activité, Réactivité
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Titles and Diplomas

- 1977 Bachelor of Science Aicha High School - Batna-
- 1980 DES in Energetic Physics University of Constantine
- 1982 Engineer in refining and petrochemistry IAP - Boumerdes-
- 1996 Magister in Organic Chemistry University of Batna
- 2005 Doctorate of State in Theoretical Chemistry University of Batna

International Communications

- 1- 29th congress of Latin expression theoreticians chitel2003 in Morocco from 7 to 12 September 2003.
- 2- Seventh days of theoretical chemistry Oran 14-15 November 2005
- 3- International Symposium Of Theoretical Chemistry June 12-15, 2006 USTHB Algiers Algeria
- 4- XXXIIth chitel2006 theoretical chemistry congress in Tunisia from 1st to 6th September 2006
- 5- XIth meeting of French-speaking theoretical chemists. June 30 to July 4, 2008 Manor of the Vicomte Dinard.
- 6- ICNAM 2009 International Conference on Nanotechnology and Advanced Materials
May 4 - 7, 2009 University of Bahrain
- 7- GECOM CONCORD 2010 from May 30th to June 4th Lyon France

International publications

- 1- Theoretical Study of the Bonding in $[(C_5Me_5)_2Sm]_2[\mu-\eta^2:\eta^2X_2]$ (X = Bi , N and NH) N. Ouddai, et M. Bencharif, journal of molecular structure (theochem) 709 (2004) (109-115)
- 2- Theoretical aspects of the bonding in acetylide-bridged organometallic dinuclear complexes N. Ouddai, K. Costuas, M. Bencharif, J.-Y. Saillard et J.-F. Halet, C.R. Chimie 8 (2005) 1336-1350.
- 3- Optical characterization of chemically deposited Pb(1-x)CdxS films and a Pb(1-x)CdxS(n)/Si(p) Ounissi, N. Ouddai, and S. Achour , Eur. Phys.J. Appl. Phys. 37, 241-245 (2007)
- 4- Redox-Active Complexes Containing Group 8 Metal Centers Linked by C2 Bridges. Michael I. Bruce,^{*,†} Karine Costuas,[‡] Ben G. Ellis,[†] Jean-François Halet,^{*,‡} Paul J. Low,^{*,§} Boujemaa

Moubaraki,[^] Keith S. Murray,[^] Nadia Ouddai^{ˆ,‡,|} Gary J. Perkins,[†]Brian W. Skelton,[#] and Allan H. White[#] Organometallics 2007, 26, 3735-3745

5- Dinitrogen Activation in [Cp₂TiL]₂(-N₂) L = PMe₃, p-tolyl. May Abdelghani and Ouddai Nadia. Journal of Computational and Theoretical Nanoscience Vol.5, 1–6, 2008

6- Réactions de nitrobenzofurazanes avec des phénols para substitués. Etude cinétique et mécanisme Hafida Merouani a,b, Malika Mokhtari a,* , Nadia Ouddai b C. R. Chimie xx (2008) 1e8

7- Reactivity of nitrobenzofurazan towards nucleophiles: Insights from DFT. N. Latelli a, S. Zeroual b, N. Ouddai b,* , M. Mokhtari c, I. Ciofini d,* Chemical Physics Letters 461 (2008) 16–20

8- Quantitative Characterization of Reactivity Descriptors of Nitrobenzofuroxan. N. Latelli¹, A. May², N. Ouddai² * , and M. Mokhtari³. Journal of Computational and Theoretical Nanoscience Vol.6, 1–5, 2009

9- Density Functional Theory Study of the Reactivity of Nitrobenzofurazan with a Series of 4-X-Substituted Phenols .H. Merouani¹, N. Ouddai¹ * , M. Mokhtari², and N. Latelli³ Journal of Computational and Theoretical Nanoscience Vol.6, 1-5(2009)

10- Bonding and Electronic Structure in [THFL₂Lu]₂(μ₂:η²N₂) L = N(SiMe₃)₂ and C₅Me₄H Computational Analysis of the Ligand Effect. D. Hannachi, N. Ouddai* , A. Ounissi, A. May, and H. Benflis Journal of Computational and Theoretical Nanoscience Vol.6, 1–4, 2009

11- A quantum chemistry investigation on the structure of lanthanide triflates Ln(OTf)₃ where Ln = La, Ce, Nd, Eu, Gd, Er, Yb and Lu[†]. Dounia Hannachi, a Nadia Ouddaia and Henry Chermette* b Dalton Trans., 2010, 39, 3673–3680

12- Theoretical investigation on organolanthanide guanidineate complexes. Salima Lakehal, Nadia Ouddai. JOURNAL OF RARE EARTHS, Vol. 28, No. 2, Apr. 2010, p. 161

13- CHEMICALLY DEPOSITED HETEROJUNCTION SOLAR CELLS Pb(1-x)CdxS(n)Si(p). OUNISSI ABDELHAMID , OUDDAI NADIA. International Journal of Nanoscience Vol. 9, No. 6 2010 599_604

14- Covalent hydration of nitrobenzofurazans compounds from the perspective of the HSAB principle and reactivity–selectivity descriptor. Nadja Latelli a,c, Malika Mokhtari b,* , Nadia Ouddai c. Comptes Rendus Chimie C. R. Chimie 14 2011 911–915

15- Structural properties of the trimetallic acetylide complex [Ru(CO)₂(h⁵C₅H₅)₃(h¹:h¹:h²:-CC)]⁺. Abdelghani May, Nadia Ouddai Comptes Rendus Chimie C. R. Chimie 15 2012 86–90

16- Ruthenium(II) complexes with new large-surface ligands based on electron-accepting expanded pyridiniums: insights from density functional theory. Samira Zeroual , Nathalie Bouet , Fabien Tuye`ras , Cyril Peltier , Nadia Ouddai , Philippe Ochsenbein , Carlo Adamo , Philippe P. Laine, Ilaria Ciofini. Theor Chem Acc 2012 131:1107

17- TOPOLOGICAL ANALYSIS OF THE BONDING IN [Ru₅(-4-C₂)L(CO)₁₃] AND [Ru₄(-4-C₂)L(CO)₁₀] COMPLEXES (L = (-SMe)(-PPh₂)₂). A. May and N. Ouddai. Journal of Structural Chemistry. Vol. 53, No. 2, pp. 220-227, 2012

- 18-** Covalent hydration of nitrobenzofuroxans compounds: Kinetic and theoretical study using reactivity–selectivity descriptor. Malika Mokhtari , Nadia Ouddai ,*, Nadjia Latelli , Hafida Merouani. *Comptes Rendus Chimie C. R. Chimie* 15 2012 627–632
- 19-** Theoretical Investigation on Ytterbium Trichelates Compounds
Salima Lakehal,[a] Nadia Ouddai,*[a] Douniazed Hannachi,[a]
and Mohamed Bououdina[b] *International Journal of Quantum Chemistry* 2012, DOI:
10.1002/qua.24339
- 20-** Theoretical investigation on homoleptic Yttrium tri-guanidines. Salima Lakehal a,b, Nadia Ouddai a,* , Mohamed Bououdina c,d. *Arabian Journal of Chemistry* (2013) xxx, xxx–xxx
- 21-** DFT Study of the Stereo-Selectivity of Oxygenated Hetero-cycles from 10 to 12 Links. Hafida Merouani, Christophe Morell, nadia ouddai, Henry Chermette. *Canadian Journal of Chemistry*, Publié sur le Web 8 April 2013, 10.1139/cjc-2012-0521
- 22-** Intra-ring haptotropic rearrangements of Mn(CO)₃in fluorenyl ligands. Souhila Laib and Nadia Ouddai. *Journal of Saudi Chemical Society*, 2015.05.005
- 23-** Effect of haptotropic rearrangements on reactivity and biological activity in fluorenyl complexes: A DFT Study. Souhila Laib and Nadia Ouddai. *Journal of Chemical and Pharmaceutical Research*, 2015, 7(3):239-245
- 24-** DFT study of half-sandwich bis (tetramethylaluminate) lanthanide complexes. Bennaceur Houria and Nadia Ouddai. *Journal of Chemical and Pharmaceutical Research*, 2014, 6(10):18-26
- 25-** Topologic and spectroscopic approach of tricarbonylchromium complexes. Souhila Laib and Nadia Ouddai. *Journal of Chemical and Pharmaceutical Sciences* 2016 JCPS Volume 9 Issue 4
- 26-** Addition–fragmentation reaction of thionoesters compounds in free-radical polymerisation (methyl, cyanomethyl and styryl): a theoretical interpretation. Douniazed Hannachi, Nadia Ouddai, Michel Arotçaréna and Henry Chermette. *Molecular Physics*, 2015
- 27-** COMPARATIVE STUDY OF THE LANTHANIDE (Ln) AND ACTINIDE (An) TRIFLATE COMPLEXES M(OTf)_n. M. Lemmouchi¹, D. Hannachi^{1,2}, and N. Ouddai. *Journal of Structural Chemistry*. Vol. 56, No. 8, pp. 1495-1504, 2015
- 28-** Mechanism of addition-fragmentation reaction of thiocarbonyls compounds in free radical polymerization. A DFT study. Nadjia Latelli, Nadia Ouddai, Michel Arotçaréna, Philippe Chaumont, Pierre Mignon, Henry Chermette. *Computational and Theoretical Chemistry* 1027 (2014) 39–45
- 29-** Theoretical investigation on structural and physicochemical properties of some ionic liquids. Ali Ounissi, Yacine Benguerba and Nadia Ouddai. *Computational and Theoretical Chemistry*, Volume 1092, 15 September 2016, Pages 68-73
- 30-** DFT study of nitrogenated heterocycles of six and seven links. H. Merouani A. Ounissi, N. Ouddai. *Bulgarian Chemical Communications*, Volume 49, Number 3, (pp. 690 – 696) 2017 690

31- Theoretical aspect of the bonding in bis-chelate thiosemicarbazones nickel (II) complexes: A DFT study. Wahiba Boussebbat, Ali Ounissi, Yang Farina, Nadia Ouddai. *Journal of Molecular Structure* 1154 (2018) 19e26.
