

CURRICULUM VITAE

Mousslim Messali Professor of Organic and Green Chemistry

Date of Birth: February 27, 1968

Citizenship: Belgian

Current Address: Department of Chemistry
Faculty of Science
Taibah University
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Marital status: Married with two daughters

EDUCATION

1994-2001 University of Liege, Liege- Belgium. **Ph.D. in Chemistry**
(supervisor: Leon Christiaens, Thesis title: Synthesis and evaluation of 2-azaselenochromones)

1992-1993 Jules Verne University, Amiens -France
M.Sc. in Chemistry (supervisors: Villa, Thesis title: Synthese de derives bicatenaire du D-glucose de structure 5,6- ou 3,6-X,Y-D-glucose)

1985-1990 Mohamed V University, Rabat – Morocco
B.Sc. in Chemistry

AWARDS AND SCHOLARSHIPS

2001-2005 Postdoctoral Fellowship, KUL, Leuven, Belgium (Supervisor: Prof G. Hoornaert)

1985-1990 Undergraduate Scholarship, Ministry of Scientific Research and High Education, Morocco.

EMPLOYMENT

- 1 / 2017 - Present** **Professor**, Taibah University, Saudi Arabia.
- 7 / 2012 - 1 / 2017** **Associate Professor**, Taibah University, Saudi Arabia.
- 9 / 2005 - 7 / 2012** **Assistant Professor**, Taibah University, Saudi Arabia.
- 2001-2005** **Research Fellow**, Organic Synthesis laboratory, University of Leuven, Belgium.
- Running independent research with collaboration with both industry and academic backgrounds.

TEACHING EXPERIENCE AND STUDENTS SUPERVISION

2005-till now Taibah University, Saudi Arabia, teaching the following graduate and undergraduate courses:

1. Chem. 101 (General Chemistry, Undergraduate)
2. Chem. 210 (Organic Chemistry for biology student, Undergraduate)
3. Chem. 212 (Organic Chemistry II, Undergraduate)
4. Chem. 316 (Organic Chemistry Lab II, Undergraduate)
5. Chem. 317 (Stereochemistry and Carbohydrates, Undergraduate)
6. Chem. 335 (Heterocyclic Chemistry, Undergraduate)
7. Chem. 411 (Organic Chemistry III, Undergraduate)
8. Chem. 412 (Green Chemistry, Undergraduate)
9. Chem 419 (Petrochemistry, Undergraduate)
10. Chem 420 (Petrochemical, Undergraduate)
11. Chem. 439 (Applied Organic Chemistry, Undergraduate)
12. Chem. 630 (Special Topics in Organic Chemistry, Postgraduate)
13. Chem. 632 (Advanced stereochemistry, Postgraduate)
14. Chem. 633 (Natural Products, Postgraduate)

2006-2008 **MSc. Co- Supervisor** for a chemistry student (**Slayem Alrefaee**) from Department of Chemistry, Taibah University, Saudi Arabia (research area: Synthesis, photophysical and photochemical properties of novel hexadecachlorinated phthalocyaninato zinc (II)).

2010-2012 **MSc. Supervisor** for a chemistry student (**Abdullah Al zahrani**) from Department of Chemistry, Taibah University, Saudi Arabia (research area: Synthesis, characterization, biological and physical properties of new green-chemistry- friendly ionic liquids).

2014-2016 **MSc. Supervisor** for a chemistry student (**Mohamed Al mutairi**) from Department of Chemistry, Taibah University, Saudi Arabia (research area: A green synthesis, characterization and biological activity of new eco-friendly ionic liquids).

- 2013-2017** PhD. Co-Supervisor for a chemistry student (**Boussekri Abderahman**) from Department of Chemistry, Ibn Zohr University, Agadir, Morocco (research area: A green synthesis, characterization and electrochemical study of new eco-friendly ionic liquids).

EVIDENCE OF EMPACT

Editor of Journal of Taibah University for Science (JTUSCI)

- *Chemistry section*

Editor of Journal of Materials and Environmental Science (JMES)

Editorial board member:

- *Moroccan Journal of Chemistry*

Journals Referee:

- *Tetrahedron Letters*
- *Journal of Molecular Liquids*
- *Journal of Molecular Structure*
- *Letters in Drug Design & Discovery*
- *Ecotoxicology and Environmental Safety*
- *Materials Letters*
- *International Journal of Nanomedicine*
- *Journal of Catalysis Today*
- *Journal of Materials and Environmental Science*
- *Arabian Journal of Chemistry*
- *Organic Chemistry: Current Research*
- *African Journal of Pharmacy and Pharmacology*
- *European Scientific Journal*
- *Journal of Taibah University for Sciences*
- *Jordan Journal of Earth and Environmental Sciences*

RESEARCH INTRESTS

- Green Chemistry
 - Ionic liquids synthesis and applications
 - Microwave and Ultrasound assisted synthesis
- Environmental Chemistry
 - Photocatalysis
- Nanoparticles Synthesis and applications
- Heterocyclic chemistry; synthesis and applications

RESEARCH GRANTS AWARDED

- 2014-2015** **One-year project** funded by the Faculty of Scientific Research at Taibah University / Saudi Arabia for the amount of SR92000 (**principal investigator**)
- 2012-2013** **One-year project** funded by the Faculty of Scientific Research at Taibah University / Saudi Arabia for the amount of SR93000 (**Co- investigator** with Dr Aouad M. Reda)

- 2011-2012** **One-year project** funded by the Faculty of Scientific Research at Taibah University / Saudi Arabia for the amount of SR83000 (**Co- investigator** with Prof Dr Mostafa Abboudi)
- 2009-2010** **One-year project** funded by the Faculty of Scientific Research at Taibah University / Saudi Arabia for the amount of SR49500 (**principal investigator**)
- 2008-2010** **Two-years project** funded by the Faculty of Scientific Research at Taibah University / Saudi Arabia for the amount of SR120000 (**Co- investigator** with Dr Fethi Kooli)
- 2007-2009** **Two-years project** funded by the Faculty of Scientific Research at Taibah University / Saudi Arabia for the amount of SR157000 (**principal investigator**)
- 2006-2008** **Two-years project** funded by the Faculty of Scientific Research at Taibah University / Saudi Arabia for the amount of SR116000 (**Co- investigator** with Dr Solhe F. Alshahateet).
- 2002-2005** **Three-years project** funded by IWT (Belgium) for the amount of 730000 Euro (**Co – investigator** with Prof Hoornaert and Dr J.Smets)
- 2001-2002** **Evaluation project (6 months)** funded by IWT (Belgium) (**Co- investigator** with Prof Hoornaert and Dr K.Van aken)

PATENTS

1. Abboudi Mostafa, Oudghiri Hassani Hicham, Al-Wadaani, Fahd, **Messali Mouslim**, Rakass Souad. "Synthesis method of precursors to produce Molybdenum Oxide MoO₃ and related materials"
U.S. Pat. (2017), US9611152 B2
2. Abboudi Mostafa, Oudghiri Hassani Hicham, Al-Wadaani, Fahd, **Messali Mouslim**, Rakass Souad. "Synthesis method of precursors to produce Molybdenum Oxide MoO₃ and related materials"
MA 35368 B1 and WO2014/108841; PCT/IB2014/058139.
PCT Int. Appl. (2014), WO 2014108841 A1 20140717.
3. Johan Smets, Pascale Vansteenwinckel, Piet Arnaut, David Vanraes, Christiaan Engels, Bert Metten, **Mouslim Messali**, Mouaffak Al Hariri and Georges Hoornaert. "Benefit Agent Delivery Compositions" PCT Int. Appl. (2008), 63pp. CODEN: PIXXD2 WO 2008100601 A2 20080821 AN 2008:1013164 CAPLUS.

PUBLICATIONS

2018

1. A. Aljuhani, W.S. El-Sayed, P.K. Sahu, N. Rezki, M.R. Aouad, R. Salghi, **M. Messali**, “Microwave-assisted synthesis of novel imidazolium, pyridinium and pyridazinium-based ionic liquids and prediction of physico-chemical properties for their toxicity and antibacterial activity”, *Journal of Molecular liquids*, 249 (2018) 747–753
2. F. El-Hajjaji, **M. Messali**, A. Aljuhani, M.R. Aouad, B. Hammouti, D.S. Chauhan, M.A. Quraishi, “Pyridazinium-based ionic liquids as novel and green corrosion inhibitors of carbon steel in acid medium: Electrochemical and molecular dynamics simulation studies”, *Journal of Molecular liquids*, 249 (2018) 997–1008.

2017

3. R. Salghi, D. Ben Hmamou, Eno E. Ebenso, M. Belkaouda, I. H. Ali, **M. Messali**, B. Hammouti, S. Fattouch, “Inhibition of C-steel Corrosion by Green Tea Extract in Hydrochloric Solution”, *International Journal of Electrochemical Science*, 12 (2017) 3283-3295.
4. R. Salghi, D. Ben Hmamou, O. Benali, Eno E. Ebenso, M. Belkaouda, I. H. Ali, **M. Messali**, B. Hammouti, N. Benchat, “6-phenylpyridazin-3(2H)one as New Corrosion Inhibitor for C38 Steel in 1 M HCl”, *International Journal of Electrochemical Science*, 12 (2017) 3309-3322.
5. **M. Messali**, H. Lgaz, R. Dassanayake, R. Salghi, S. Jodeh, N. Abidi, O. Hamed, “Guar gum as efficient non-toxic inhibitor of carbon steel corrosion in phosphoric acid medium: Electrochemical, DFT, FTIR and X-Ray studies”, *Journal of Molecular Structure*, 1145 (2017) 43-54. DOI: 10.1016/j.molstruc.2017.05.081
6. I. Merimi, Y. El Ouadi, K. R. Ansari, H. Oudda, B. Hammouti, M.A. Quraishi, F.F. Al-blewi, N. Rezki, M.R. Aouad, **M. Messali**, “Adsorption and corrosion inhibition of mild steel by ((Z)-4-((2,4-dihydroxybenzylidene)amino)-5-methoxy-2,4-dihydro-3H-1,2,4-triazole-3-thione) in 1 M HCl :Experimental and computational study” *Anal. Bioanal. Electrochem.*, Vol. 9, No. 5, 2017, 640-659.
7. Musa A. Said, Mohamed R. Aouad, David L. Hughes, Meshal A. Almeahmadi and **Mousslim Messali**, “Synthesis and Crystal structure of new pyridinium bromide: 4-methyl-1-(3-phenoxypropyl) bromide”, *Acta Cryst.* (2017). E73, 1831-1834.
8. Nadjat Rezki, Salsabeel A. Al-Sodies, Sheikh Shreaz, Rayees Ahmad Shiekh, **Mousslim Messali**, Vaseem Raja, Mohamed R. Aouad, “Green ultrasound versus conventional synthesis of specific task pyridinium ionic liquid hydrazones tethering fluorinated counter anions: Novel inhibitors of fungal ergosterol biosynthesis”, *Molecules*, 2017, 22, 1532.
9. Mohamed Reda Aouad, Mariem Mohammed Mayaba; Arshi Naqvi, Sanaa K Bardaweel, Fawzia Faleh Al-blewi, **Mousslim Messali**, Nadjat Rezki “Design, synthesis, in-silico and in-vitro antimicrobial screenings of novel 1,2,4-triazoles carrying 1,2,3-triazole scaffold with lipophilic side chain tether”, *Chemistry Central Journal*, 2017, 11:117.

2016

10. A. Bousskri, H. Lgaz, S. Jodeh, R. Salghi, A. Anejjar, **M. Messali**, O. Benali, "Influence of Pyridazinium Derivative on Copper Corrosion in H₃PO₄/0.3 NaCl Medium: Electrochemical and Molecular Modeling" *Appl. J. Envir. En. Sci.* 2 (1), **2016**, 1-10
11. **Mousslim Messali**, "A facile and green microwave-assisted synthesis of new functionalized picolinium-based ionic liquids", *Arabian Journal of Chemistry*, 9:S564–S569, **2016**. <http://dx.doi.org/10.1016/j.arabjc.2011.06.030>
12. Mohamed R. Aouad, Amr M. Hassan Al-Saedi, Adeeb A. Ali, Nadjat Rezki & **Mousslim Messali** "Preparation of Novel 3-Fluorophenyl Triazolothiadiazoles and of Triazolothiadiazines" *Organic Preparations and Procedures International*, 48:355–370, **2016**.
13. Mohamed Khoutoul , Morad Lamsayah , Fawzia F. Al-blewi, Nadjat Rezki, Mohamed Reda Aouad, **Mousslim Messali**, Rachid Touzani " Liquid-liquid extraction of metal ions, DFT and TD-DFT analysis of some 1,2,4-triazole Schiff Bases with high selectivity for Pb(II) and Fe(II) ", *Journal of molecular structure*, 1113, **2016**, 99-107.
14. O. Krim, O. Krim, **M. Messali**, B. Hammouti, A. Elidrissi, K. Khaled, R. Salghi and H. Lgaz "Synthesis, Characterization and Corrosion Protection Properties of Imidazole Derivatives on Mild Steel in 1.0 M HCl ", *Portugaliae Electrochimica Acta*, 34(3), **2016**, 213-229.
15. M. Larouj, H. Lgaz, R. Salghi, S. Jodeh, **M. Messali**, M. Zougagh, H.Oudda, A. Chetouani" Effect of chlorine group position on adsorption behavior and corrosion inhibition of Chlorobenzylideneamino-5-methyl-2, 4-dihydro-1, 2, 4-triazole- 3-thione Schiff bases: Experimental study", *Moroccan Journal of Chemistry*, 4(2), **2016**, 567-583.
16. H. Lgaz, O. Benali, R. Salghi, S. Jodeh, M. Larouj, O. Hamed, **M. Messali**, S. Samhan, M. Zougagh and H. Oudda " Pyridinium derivatives as corrosion inhibitors for mild steel in 1M HCl:, surface and quantum chemical studies", *Der pharma chemica*, 8 (2), **2016**, 172-190.
17. A. Bousskri, R. Salghi, A. Anejjar, **M. Messali**, S. Jodeh, O. Benali, M. Larouj, I. Warad, O. Hamed and B. Hammouti "The Inhibition Effect of 1-Pentyl Pyridazinium Bromide towards Copper Corrosion in Phosphoric Acid Containing Chloride", *Portugaliae Electrochimica Acta*, 34(1), **2016**, 1-21.
18. A. Bousskri, R. Salghi, A. Anejjar, S. Jodeh, M. A. Quraishi, M. Larouj, H. Lgaz, **M. Messali**, S. Samhan and M. Zougagh "Pyridazinium-based ionic liquids as corrosion inhibitors for copper in phosphoric acid containing chloride: electrochemical, surface and quantum chemical comparatives studies", *Der pharma chemica*, 8 (2), **2016**, 67-83.
19. Nadjat Rezki, Salsabeel A. Al-Sodies, Mohamed R. Aouad, Sanaa Bardaweel, **Mousslim Messali** and El Sayed H. El Ashry "An Eco-Friendly Ultrasound-Assisted Synthesis of Novel Fluorinated Pyridinium Salts-Based and Antimicrobial and Antitumor Screening" *International Journal of Molecular Sciences*, 2016, 17, 766.

20. Ali F. Alghamdi and Mouslim Messali, "An efficient ultrasound synthesis, characterisation, cyclic voltammetric and high performance liquid chromatographic behaviors of a novel 1-(3-phenylpropyl)pyridazin-1-ium bromide-based ionic liquid" *Asian Journal of Chemistry*, 28 (6), **2016**, 1225-1228.

2015

21. **Mouslim Messali**, Mohamed R. Aouad, A. Al-Sheikh Ali, Nadjat Rezki and Taibi Ben Hadda; Belkheir Hammouti "Synthesis, characterization, and POM analyses of novel bioactive imidazolium-based ionic liquids", *Medicinal Chemistry Research*, 24 (4), **2015**, 1387-1395.
22. M. Larouj, R. Salghi, H. Lgaz,*, **M. Messali**, S. Jodeh, H. Oudda, "Thermodynamic characterization of (E)-4-((4-methoxybenzylidene) amino)-3-methyl-1H-1,2,4-triazole-5(4H)-thione derivative on carbon steel corrosion in acidic medium" *Appl. J. Envir. En. Sci.* 1 (2), **2015**, 46-56.
23. **Mouslim Messali**, Wael S. El-Sayed, "4-(dimethylamino)-1-(6-ethoxy-6-oxohexyl)pyridinium bromide" *Arabian Journal of chemical and environmental research*, 2 (1), **2015**, 15-21.
24. Mouadili A., Al-blewi F.F., Rezki N., **Messali M.**, El Ouafi A., Touzani R., "Biomimetic catecholase studies: using in-situ prepared complexes by 1,2,4-triazole schiff bases and different metal salts" *J. Mater. Environ. Sci.* 6 (9) (**2015**) 2392-2399.
25. Hicham Oudghiri-Hassani, Souad Rakass, Fahd T. Al Wadaani, Khalaf J. Al-ghamdi, Ahmed Omer, Mouslim Messali, Mostafa Abboudi, "Synthesis, characterization and photocatalytic activity of Bi₂O₃ nanoparticles" *Journal of Taibah University for Science*, **2015**. (9) 4, 508–512.
26. **Mouslim Messali**, Mohammed N. Almtiri, Bousskri Abderrahman, Rachid Salghi, Mohamed R. Aouad, Solhe F. Alshahateet and Adeb A-S Ali, "New pyridazinium based ionic liquids: An eco-friendly ultrasound-assisted synthesis, characterization and biological activity" *South African Journal of Chemistry*, 68, **2015**, 219-225.
27. **Mouslim Messali**, "Conventional versus Ultrasound and Microwave assisted synthesis, characterization and ecotoxicity of some new eco-friendly functionalized picolinium-based ionic liquids" *acta Pharmaceutica*, 65 (3), **2015**, 253-270.
28. **Mouslim Messali**, "Eco-friendly synthesis of a new class of pyridinium-based ionic liquids with attractive antimicrobial activity" *Molecules*, **2015**, 20, 14936-14949.
29. , Moulay H. Youssoufi, Pramod K. Sahu, Dau D. Agarwal, , Ahmad Mushtaq, **Messali Mouslim**, Siham Lhassasni and Taibi B. Hadda; " POM analyses of antimicrobial Activity of 4H-Pyrimido[2,1-b]Benzothiazole, Pyrazole and Benzylidene Derivatives of Curcumin" *Medicinal Chemistry Research*, 24 (6), **2015**, 2381-2392.
30. Nadjat Rezki, Mohamed R. Aouad, **Mouslim Messali** and El Sayed H. El Ashry; " Regioselective (2,3-epoxy)propylation of 5-(3-chlorobenzo[*b*]thien-2-yl)-4H-1,2,4-triazole-3-thione and synthesis of triazolo[2,1-*b*]thiazine analogs under conventional and microwave irradiation" *Letters of organic chemistry*, **2015**, 12 (6), 418-423.

31. Abderrahman Bousskri, Ali Anejjar, **Mousslim Messali**, Rachid Salghi, Omar Benali, Yasser Karzazi, Shehdeh Jodeh, Mohamed Zougagh, Eno. E. Ebenso, Belkheir Hammouti, " Corrosion inhibition of carbon steel in aggressive acidic media with 1-(2-(4-chlorophenyl)-2-oxoethyl)pyridazinium bromide" *Journal of Molecular liquids*, 211, **2015**, 1000-1008.
32. M. El Alaoui Elbelghiti, M. Dahmani, **M. Messali**, Y. Karzazi, A. Et-Touhami, A. Yahyi, B. Hammouti; "Inhibitive action of piperic acid on C38 steel corrosion in HCl solution" *Der pharma chemica*, 7 (6), **2015**, 106-115.
33. Houceine Bouya, Mohamed Errami, Rachid Salghi, S Jodeh, **Mousslim Messali**, Belkheir Hammouti, "Comparison of pyridazinium electro-oxidation on BDD and SnO₂ in basic medium" *Portugaliae Electrochimica Acta*, 33(1), **2015**, 13-21.
34. Mohamed R. Aouad, **Mousslim Messali**, Nadjat Rezki, Adeeb Al-Sheikh Ali, and Alain Lesimple; "Synthesis and characterization of some novel 1,2,4-triazoles, 1,3,4-thiadiazoles and Schiff bases incorporating imidazole moiety as potential antimicrobial agents" *acta pharmaceutica*, 65 (**2015**) 117-132.
35. **M. Messali**, A. Bousskri, A. Anejjar, R. Salghi, B. Hammouti, " Electrochemical Studies of New Pyridazinium-Based Ionic Liquid, (1-4-Nitro Phenyl-1-ethanone) Pyridazinium bromide, On Carbon Steel Corrosion in Hydrochloric Acid Medium", *Int. J. Electrochem. Sci.*, 10 (**2015**) 4532-4551.
36. Messaadia L., ID El mouden O., Anejjar A., **Messali M.**; Salghi R., Benali O., Cherkaoui O., Lallam A, ".Adsorption and corrosion inhibition of new synthesized Pyridazinium-Based Ionic Liquid on Carbon steel in 0.5 M H₂SO₄", *J. Mater. Environ. Sci.* 6 (2) (**2015**) 598-606.
37. Ben Salem, M. Mezni, M. Errami , K.M. Amine, R. Salghi, I. H. Ali, A. Chakir , B. Hammouti, **M. Messali**, S. Fattouch, " Degradation of Enrofloxacin Antibiotic under Combined Ionizing Radiation and Biological Removal Technologies", *Int. J. Electrochem. Sci.* (10) **2015**, 3613-3622.

2014

38. Solhe F. Alshahateet, Salah A. Al-Trawneh, Anwar G. Jiries, **Mousslim Messali**, Mohammed M. Al-Mahadeen; "Sorption, Kinetic Modeling, and Selectivity of Selected Heavy Metal Ions onto C-4-Chlorophenylcalix[4]resorcinarene" *J. Int. Environmental Application & Science*, Vol. 9(4): 577-589 (**2014**).
39. **Mousslim Messali**, "An efficient and green sonochemical synthesis of some new eco-friendly functionalized ionic liquids ", *Arabian Journal of Chemistry*, 7 (1) (**2014**) 63-70.
40. **Mousslim Messali**, Mohamed R. Aouad, Wael S. El sayed, A. Al-Sheikh Ali, Taibi Ben Hadda and Belkheir Hammouti; "New eco-friendly 1-alkyl-3-(4-phenoxybutyl) imidazolium-based ionic liquids derivatives: A green ultrasound-assisted Synthesis, characterization, antimicrobial activity and POM analyses" *Molecules*, **2014**, 19(8), 11741-11759.

41. **M. Messali**, F. Al Wadaani, H. Oudghiri-Hassani, S. Rakass, S. Al Amri, M. Benaissa and M. Abboudi; "Preparation, Characterization and Photocatalytic Activity of Hexagonal ZnO Nanoparticles" *Materials letters*, 128 (2014) 187-190.
42. Mouadili A., Lakehal I., Takfaoui A., Halaimia F., Hacer H., Hamlaoui M.L., Hammouti B., **Messali M.**, Touzani R., "Air oxidation of catechol by in-situ copper (II) complexes with ligands containing benzyl groups" *J. Mater. Environ. Sci.*, 5 (3) (2014) 715-722.
43. D. Bouknana, B. Hammouti, **M. Messali**, A. Aouniti, M. Sbaab, "Phenolic and non-Phenolic fractions of the Olive Oil Mill Wastewaters as corrosion inhibitor for steel in HCl medium" *Portugaliae Electrochimica Acta*, 32 (1) 2014, 1-19.
44. H. Bouya, M. Errami, R. Salghi, B. Gözmen, **M. Messali**, "Electrochemical oxidation of carbendazim on boron-doped diamond anode" *J. Mater. Environ. Sci.*, 5 (5) (2014) 1565-1572.
45. M. Errami, R. Salghi, Eno. E. Ebenso, **M. Messali**, S. S. Al-Deyab, B. Hammouti, "Anodic Destruction of Abamectin Acaricide Solution By BDD-Anodic Oxidation" *Int. J. Electrochem. Sci.* 9 (2014) 5467-5478.
46. L. Afia, R. Salghi, Eno. E. Ebenso, **M. Messali**, S. S. Al-Deyab, B. Hammouti, "Corrosion Inhibition of Steel in HCl by 2-Aminoethyl diphenylborinate", *Int. J. Electrochem. Sci.* 9 (2014) 5479-5495.
47. H. Elmsellem, N. Basbas, A. Chetouani, A. Aouniti, S. Radi, **M. Messali**, B. Hammouti, "Quantum Chemical Studies and Corrosion Inhibitive Properties of Mild Steel by Some pyridine Derivatives in 1N HCl solution" *Portugaliae Electrochimica Acta* 32 (2) 2014, 77-108.
48. Driss Bouknana, Belkheir Hammouti, **Mousslim Messali**, Abdelouahad Aouniti, Mohamed Sbaa; "Olive pomace extract (OPE) as corrosion inhibitor for steel in HCl medium" *Asian Pacific Journal of Tropical Disease*, 4 (S2) 2014, S963-S974.
49. Houceine Bouya, Mohamed Errami, Rachid Salghi, Hassan Ali Ismat, **Mousslim Messali**, Belkheir Hammouti, "Electrochemical oxidation of new pyridinium-based ionic liquid derivative using BDD anode" *Chem. Sci. Rev. Lett.* 2014, 3(11), 666-672.
50. Omar ID El Mouden, Ali Anejjar, **Mousslim Messali**, Rachid Salghi, Hassan Ali Ismat, Belkheir Hammouti. "The Effect of new pyridinium-based ionic liquid derivative as Corrosion Inhibitor for Carbon Steel in 1M HCl Solution" *Chem. Sci. Rev. Lett.* 2014, 3(11), 579-588.

2013

51. A. Ghazoui, A. Zarrouk, N. Benchat, B. Hammouti, R. Salghi, R. Touzani, **M. Messali**, "Adsorptive Studies of ethyl (3-phenyl-6-thioxopyridazin-1(6H)-yl)acetate as Corrosion Inhibitors for steel in Acidic Medium" *Phys. Chem. News*, 70, 2013, 91-100.
52. Ben Hmamou, R. Salghi, A. Zarrouk, M.R. Aouad, O. Benali, H. Zarrouk, **M. Messali**, B. Hammouti, E. Ebenzo, M. Kabanda, M. Bouachrine "Weight loss, electrochemical and molecular dynamics simulation studies on 2-(benzylthio)-1,4,5-triphenyl-1H-

imidazole as inhibitor for corrosion carbon steel in hydrochloric acid" *Industrial & Engineering Chemistry Research*, 52 (40) , **2013**, 14315-14327.

53. **Messali Mouslim** and Muneer A.M. Asiri " A green ultrasound-assisted access to some new 1-benzyl-3-(4-phenoxybutyl) imidazolium-based ionic liquids derivatives - A potent agents inhibitors against corrosion of mild steel in acidic environment" *J. Mater. Environ. Sci.*, 4 (5) (**2013**) 770-785.
54. Mohamed R. Aouad, Nadjat Rezki, **Mouslim Messali**, El Sayed H. El Ashry, "Synthesis of bis-acyclonucleoside analogues bearing benzothienyl-1,2,4-triazol-3-yl-disulfide under conventional and microwave methods" *Nucleosides, Nucleotides and Nucleic Acids*, 32:1–14, **2013**.
55. L. Afia, N. Rezki, M. R. Aouad, A. Zarrouk, H. Zarrok, R. Salghi, B. Hammouti, **M. Messali**, S. S. Al-Deyab "Investigation of the Inhibitive Effect of 2-(Ethylthio)-1,4,5-Triphenyl-1H-Imidazole on Corrosion of Steel in 1 M HCl " *Int. J. Electrochem. Sci.*, 8 (**2013**) 4346 – 4360.
56. **Mouslim Messali**, Ziad Moussa, Abdullah Y. Alzahrani, Mostafa Y. El Naggar, Ahmad S. ElDouhaibi, Zaher M. A. Judeh and Belkheir Hammouti " Synthesis, characterization, antimicrobial activity of new green-chemistry-friendly ionic liquids" *Chemosphere*, 91 (**2013**) 1627–1634.

2012

57. A. Zarrouk, **M. Messali**, H. Zarrok, R. Salghi, A. Al-Sheikh Ali, B. Hammouti, S. S. Al-Deyab, F. Bentiss " Synthesis, characterization and comparative study of new functionalized imidazolium-based ionic liquids derivatives towards corrosion of C38 steel in molar hydrochloric acid" *Int. J. Electrochem. Sci.*, 7 (**2012**) 6998 – 7015.
58. A. Zarrouk, **M. Messali**, M. R. Aouad, H. Zarrok , R. Salghi , B. Hammouti , A. Chetouani , S. S. Al-Deyab "Some new ionic liquids derivatives: Synthesis, characterization and comparative study towards corrosion of C-steel in acidic media" *Journal of Chemical and Pharmaceutical Research*, **2012**, 4(7):3427-3436.
59. Ben Hmamou, M. R. Aouad, R. Salghi , A. Zarrouk, M. Assouag , O. Benali , **M. Messali**, H. Zarrok , B. Hammouti "Inhibiting effects 4,5-Diphenyl-1H-Imidazole-2-Thiol for C38 steel in 1 M HCl : Electrochemical. Study" *Journal of Chemical and Pharmaceutical Research*, **2012**, 4(7):3489-3497.
60. D. Ben Hmamou, M. R. Aouad , R. Salghi , A. Zarrouk , M. Assouag , O. Benali , **M. Messali** , H. Zarrok , B. Hammouti " Inhibition of C38 steel corrosion in hydrochloric acid solution by 4,5-Diphenyl-1H-Imidazole-2-Thiol: gravimetric and temperature effects treatments" *Journal of Chemical and Pharmaceutical Research*, **2012**, 4(7):3498-3504.
61. D. Ben Hmamou, R. Salghi , A. Zarrouk , **M. Messali** , H. Zarrok, M. Errami, B. Hammouti, Lh. Bazzi, A. Chakir "Inhibition of steel corrosion in hydrochloric acid solution by chamomile extract" *Der Pharma Chemica*, **2012**, 4(4):1496-1505.

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