

# Ahmed A. Al-Amiery Curriculum Vitae

**A. PERSONAL DETAILS:** AHMED ABDULAMIER HUSSAIN AL-AMIERY  
Birthday: 9th November 1975, Present position: Professor of Organic Chemistry since 2013. Emails: dr.ahmed1975@gmail.com; 100173@uotechnology.edu.iq  
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**Scopus h Index = 19**

<https://www.scopus.com/authid/detail.uri?authorId=42060956400>

## **B. ACADEMIC RECORD:**

- 1. Post Doctorate: 1<sup>st</sup>. Post Doctorate:** Department of Chemical and Process Engineering, University Kebangsaan Malaysia (UKM), 2011(Organic & Medicinal chemistry). **2<sup>nd</sup>. Post Doctorate:** Department of Chemical and Process Engineering, University Kebangsaan Malaysia (UKM), 2014 (Corrosion).
- 2. Doctorate degree:** PhD. in Organic Chemistry, College of science, Al-Mustansiriya University in Iraq, awarded on 9<sup>th</sup> October 2007. The degree was taken by: A one-year course involving Lectures and Examinations. Followed three years' research with writing thesis. Thesis title is Synthesis of Novel Coumarin Derivatives (work under the supervision of Prof. Abdul-Hussain K. Sharba & Prof. Redha I. Al- Bayati). Ph. D. Thesis (summary): Ethylacetoacetate & Acetylacetone has been used for the production of wide variety of novel coumarins, and azo coumarins that contain 1,3,4- thiadiazol derivatives and study the antimicrobial activity of it.
- 3. Master degree:** M. Sc. in Organic chemistry, College of science, University of Baghdad in Iraq, awarded on the 24th February, 2001. The degree was taken by: 1st year, theoretical courses were taken, which involved Lectures and Examinations. 2nd year, Project Thesis on "Preparation and Characterization of Some Coumarin Derivatives&Attempt to Study the Biological activity of these Compounds", under the supervision of Professor Jeannette Kassir.
- 4. Bachelor degree:** B. Sc. in General chemistry, College of science, Al-Mustansiriya University in Iraq, awarded on the 20th June, 1998, with the classification good.

## **C. EMPLOYMENT RECORD:**

Year	TITLE OF POST	EMPLOYER
2017-Till now	Professor	Head of Energy and Renewable Energies Technology Center, University of Technology
2016	Professor	Head of Planning Department, University of Technology
2012	Assistant Professor	Head of applied chemistry branch, University of Technology
2008	Assistant Professor	University of Technology
2005	Senior lecturer	University of Technology
2002	Assistant lecturer	University of Technology

**D. Posts Held:** I had started my job at the University of Technology (Iraq) on the 9 of March 2002 as assistant lecturer, and then up 2004, I was teaching practical industrial and organic chemistry for undergraduate students. Since 2005, up to now, I am teaching: a) Organic chemistry & identification of organic compounds for undergraduate students. b) Industrial Chemistry for undergraduate students.

**E. Research fellow; Visitor professor** at National University of Malaysia- UKM (2011)  
**Post-doctoral** from National University of Malaysia- UKM (2012)

**F. Thankful and Appreciation:** **Thankful** and Appreciation letters from Ministry of Higher Education and Scientific Research- Iraq. **Thankful** and Appreciation letters from Applied Science department at University of Technology- Iraq. **Thankful** and Appreciation letter from Department of Chemical and Process Engineering from National University of Malaysia- UKM. **Thankful** and Appreciation letters from University of Technology- Iraq

**G. Awards:** Holds Science Day Award from the Ministry of Higher Education and Scientific Research for two consecutive years (2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015 and 2015-2016). **Medal** For Scientific

Excellence (2014). **TWAS** (the world academy of sciences ) Young Affiliates 2014-Young Arab scientist. **Member** of the Who,s Who for International Executives. **Winner** in "The International Biographical Center CAMBRIDGE CERTIFICATE for Outstanding Professional Achievement" 2016. **One** of the best three IRAQI SCIENTISTS winner in Parliamentary Forum for Higher Education

#### **H. A short Essay about my research:**

**My present** interest in research is directed on one part on the synthesis of heterocyclic compounds e.g. thiazoles, 2H-benzopyran-2-ones and use the synthesized novel compounds as corrosion inhibitors or anti-microbes.

**My research** is also directed on the synthesis of novel Corrosion Inhibitors.

**My research** is also directed on the synthesis and Determination of various metal complexes with Drugs.

**My research** is also directed on the extraction of organic compounds from various plants.

**My research** is also directed on the synthesis of novel steroids hormones & studies biological activity of it.

**I. Conferences:** Ten local conferences Local and Ten international conferences.

**J. Workshops: Five international workshops and three local:** Nanomaterial Synthesis and Characterization. NMR for Intermediates. NMR for Metabolomics. Water Analysis.

**K. Summary of courses and obtained certificates:** Course of Advanced learning English. Course of teaching methods. Course of Research way. **International** courses in Corrosion

#### **L. Editor in many international journals**

1. **Editor-in-Chief** for the journal "Scientific and Engineering Reports"
2. **The** 7th International Conference on Bioinformatics and Biomedical Engineering
3. **Trends** in Materials Sciences
4. **Journal** of Environmental and Engineering Technology
5. **Journal** of Brewing and Distilling
6. **Graphene**
7. **New Century** Publishing Group
8. **Pelagia** Research Library
9. **Journal** of Basic and Applied Chemistry
10. **Research** Journal of Applied Science, Engineering and Technology
11. **International** Journal of Chemistry
12. **Academic** and Scientific Publishing/International Journal of Applied Chemistry Research
13. **American** Journal of Scientific and Industrial Research
14. **World** Academy of Science, Engineering and Technology membership

#### **M. Patents**

1. **International patent**....No.: 2012700803" entitled "4-hydroxycoumarin based Corrosion Inhibitor"; you could log on to <https://iponline.myipo.gov.my/ipo/main/search.cfm>
2. **Patent**.... No. 4234: "Azelic acid as Corrosion Inhibitor".
3. **Patent**.... No. 4641: "Enhancement efficiency of Polymeric Solar Cell".
4. **Patent**.... No. 4640: "Treatment of oil pipe problems using environmentally friendly materials".
5. **Patent**.... No. 4948: "Design of new calix-4-arin derivatives to purify water from heavy elements".
6. **Patent**.... No. 4461: " Photo stabilizer for poly vinylchloride sing organic metal complexes".
7. **Patent**.... No. 4491: " Synthesis of organic coating to prevent corrosion of oil industry equipment".
8. **Patent**.... No. 4696: " The development of a new portable system for the production of drinking water using nanotechnology and operating in several sources of energy".
9. **Patent**.... No. 4991: " Orthotolelaldehyd as corrosion inhibitor".
10. **Patent**.... No. 4994: " The using of inorganic compounds as additives for poly vinylchloride".
11. **Patent**.... No. 5186: " A novel methodology for assessment of camera lens selection by automatic selection".
12. **Patent**.... No. 5107: " Denaturation of methylene of blue-dye by using of optical stimulation & Erbium oxide NP".

#### **N. I have published more than 150 papers (Published in High Impact Factor).**

#### **O. Publications for 2018**

1. [Protective effects of Fragaria ananassa extract against cadmium chloride-induced acute renal toxicity in rats](#), Biological trace element research 181 (2), 378-387(2018)
2. [Synthesis and characterization of a novel organic corrosion inhibitor for mild steel in 1 m hydrochloric acid](#), Results in Physics, Volume 8, March 2018, Pages 728-733
3. [Experimental and theoretical studies of Schiff bases as corrosion inhibitors](#) Chemistry Central Journal 12 (7), 1-9(2018)
4. [Physical Properties of Halloysite Nanotubes-Polyvinyl Alcohol Nanocomposites using Malonic Acid](#)

- [Crosslinked](#), UKM Engineering Journal 29 (2), 1-9(2018)
5. [Corrosion Inhibition Effect of 1,10-Phenanthroline-5,6-diamine on Mild Steel in Hydrochloric Acid Solution](#), Preprint 2018010053, 1-5 (2018)
  6. [A Systematic Review on Pharmacological Activities of 4-Methylumbelliferon](#), Systematic Reviews in Pharmacy 9 (1), 49-54
  7. [4-Thiadiazole: The Biological Activities](#), Systematic Reviews in Pharmacy 9 (1), 36-40 (2018) (2018)
  8. [Development of new corrosion inhibitor tested on mild steel supported by electrochemical study](#), Results in Physics, Volume 8, March 2018, Pages 1260-1267
  9. [Effect of Phosphoric acid on the Morphology and Tensile Properties of Halloysite-Polyurethacomposites](#), Results in Physics, Volume 9, June 2018, Pages 33-38
  10. [Synthesis and corrosion inhibition application of natn on mild steel surface in acidic media complemented with dft studies](#), Results in Physics, Volume 8, March 2018, Pages 1178-1184

## O. Publications for 2017

1. Polymer solar cells with enhanced power conversion efficiency using nanomaterials and laser techniques. journal={Materials Technology}, volume={32},number={5}, pages={279--298},year={2017},publisher={Taylor & Francis}
2. Comparative Molecular Modelling Studies of Coumarin Derivatives as Potential Antioxidant Agents. journal={Free Radicals and Antioxidants, 2017},. volume={7},number={1}, pages={31-35}, year={2017},publisher={Phcog.Net}
3. Effect of halloysite nanotubes loading on thermo-mechanical and morphological properties of polyurethane nanocomposites},journal={Materials Technology}, volume={32},number={7},pages={430--442},year={2017},publisher={Taylor & Francis}
4. Antioxidant Activity of Coumarins},journal={Systematic Reviews in Pharmacy}, volume={8},number={1}, year={2017}
5. Coumarins: The Antimicrobial agents},journal={Systematic Reviews in Pharmacy}, volume={8},number={1}, pages={62},year={2017},publisher={Phcog. net}
6. Sulphonamides as corrosion inhibitor: Experimental and DFT studies}, journal={Journal of Molecular Structure}, volume={1138}, pages={27-34}, year={2017},publisher={Elsevier}
7. Optimizing physio-mechanical properties of halloysite reinforced polyurethane nanocomposites by Taguchi approach},journal={Science of Advanced Materials}, volume={9},number={6}, pages={949--961}, year={2017}, publisher={American Scientific Publishers}
8. Surface improvement of halloysite nanotubes},journal={Applied Sciences}, volume={7}, number={3}, pages={291}, year={2017}, publisher={Multidisciplinary Digital Publishing Institute}
9. Free Catalyzed Synthesis of 2, 2'-Bipyridine via Ozonolysis Technique}, journal={Ozone: Science \& Engineering},number={just-accepted}, year={2017}, publisher={Taylor \& Francis}
10. The Impact of Halloysite on the Thermo-Mechanical Properties of Polymer Composites},journal={Molecules},volume={22},number={5},pages={838},year={2017},publisher={Multidisciplinary Digital Publishing Institute}
11. Unique Halloysite Nanotubes--Polyvinyl Alcohol--Polyvinylpyrrolidone Composite Complemented with Physico--Chemical Characterization},journal={Polymers},Volume={9}, pages={207},year={2017},publisher={Multidisciplinary Digital Publishing Institute}
12. Novel technique for enhancement of diesel fuel: Impact of aqueous alumina nano-fluid on engine's performance and emissions, Case studies in thermal engineering 10, 611-620
13. Outdoor Performance Analysis of a Photovoltaic Thermal (PVT) Collector with Jet Impingement and Compound Parabolic Concentrator (CPC), Materials 10 (8), 888
14. Coumarin-3-amine as new corrosion inhibitor, Preprints
15. Effect of Starch Loading on the Thermo-Mechanical and Morphological Properties of Polyurethane Composites, Materials 10 (7), 777
16. Absolute variation of the mechanical characteristics of halloysite reinforced polyurethane nanocomposites complemented by Taguchi and ANOVA approaches, Results in Physics 7, 3287-3300
17. Experimental and theoretical studies of benzoxazines corrosion inhibitors, Results in physics 7, 4013-4019
18. Coumarins: the antimicrobial agents, Systematic Reviews in Pharmacy 8 (1), 62
19. New corrosion inhibitor derived from coumarin, Preprints

## List of publications 2011-2016

1. Synthesis, characterization, theoretical crystal structure, and antibacterial activities of some transition metal complexes of the thiosemicarbazone (Z)-2-(pyrrolidin-2-ylidene) hydrazinecarbothioamide}, journal={Bioinorganic Chemistry and Applications}, volume={2011}, year={2011}, publisher={Hindawi Publishing Corporation}
2. The antioxidant activity of new coumarin derivatives}, journal={International journal of molecular sciences} volume={12}, pages={5747}, year={2011}, publisher={MDPI}
3. Antimicrobial and antioxidant activities of new metal complexes derived from 3-aminocoumarin}, journal={Molecules}, volume={16}, pages={6969}, year={2011}, publisher={MDPI}

4. Optimization of cellulase production by *Aspergillus niger* and *Trichoderma viride* using sugar cane waste}, journal={Journal of yeast and fungal research}, volume={2}, number={2}, pages={19--23}, year={2011}, publisher={Academic Journals}
5. Synthesis, structure elucidation and DFT studies of new thiadiazoles}, journal={International Journal of Physical Sciences}, volume={6}, number={29}, pages={6692--6697}, year={2011}, publisher={Academic Journals}
6. The use of umbelliferone in the synthesis of new heterocyclic compounds}, journal={Molecules}, volume={16}, number={8}, pages={6833--6843}, year={2011}, publisher={Molecular Diversity Preservation International}
7. Novel in vivo studies on the effect of ethanolic stick cherries extract in diabetes management}, journal={J Appl Sci Res}, volume={7}, number={1}, pages={476--8}, year={2011}
8. Synthesis, spectroscopic and antimicrobial studies of transition metal complexes of N-amino quinolone derivatives}, journal={British Journal of Pharmacology and Toxicology}, volume={2}, number={1}, pages={5--11}, year={2011}, publisher={Maxwell Science Publishing}
9. Cytotoxicity, antioxidant, and antimicrobial activities of novel 2-quinolone derivatives derived from coumarin}, journal={Research on Chemical Intermediates}, volume={38}, number={2}, pages={559--569}, year={2012}, publisher={Springer}
10. Antifungal activities of new coumarins}, journal={Molecules}, volume={17}, number={5}, pages={5713--5723}, year={2012}, publisher={Molecular Diversity Preservation International}
11. Preparation, characterization, and theoretical studies of azelaic acid derived from oleic acid by use of a novel ozonolysis method}, journal={Research on Chemical Intermediates}, volume={38}, number={2}, pages={659--668}, year={2012}, publisher={Springer}
12. Antifungal and antioxidant activities of pyrrolidone thiosemicarbazone complexes}, journal={Bioinorganic chemistry and applications}, volume={2012}, year={2012}, publisher={Hindawi Publishing Corporation}
13. Antioxidant, antimicrobial, and theoretical studies of the thiosemicarbazone derivative Schiff base 2-(2-imino-1-methylimidazolidin-4-ylidene) hydrazinecarbothioamide (IMHC)}, journal={Organic and medicinal chemistry letters}, volume={2}, number={1}, pages={4}, year={2012}, publisher={Springer Berlin Heidelberg}
14. Synthesis and antioxidant, antimicrobial evaluation, DFT studies of novel metal complexes derivate from Schiff base}, journal={Research on Chemical Intermediates}, volume={38}, number={3-5}, pages={745--759}, year={2012}, publisher={Springer Netherlands}
15. Antimicrobial and antioxidant activities of new metal complexes derived from (E)-3-((5-phenyl-1, 3, 4-oxadiazol-2-ylimino) methyl) naphthalen-2-ol}, journal={Medicinal Chemistry Research}, volume={21}, number={10}, pages={3204--3213}, year={2012}, publisher={Springer-Verlag}
16. Synthesis and characterization of novel corrosion inhibitor derived from oleic acid: 2-Amino 5-Oleyl-1, 3, 4-Thiadiazol (AOT)}, journal={Int. J. Electrochem. Sci}, volume={7}, number={4}, pages={3543--3554}, year={2012}
17. Toxicity evaluation for low concentration of chlorophenols under solar radiation using zinc oxide (ZnO) nanoparticles}, journal={International Journal of Physical Sciences}, volume={7}, number={1}, pages={48--52}, year={2012}, publisher={Academic Journals}
18. The effect of cherry sticks extract on the levels of glycoproteins in alloxan-induced experimental diabetic mice}, journal={Annals of Clinical & Laboratory Science}, volume={42}, number={1}, pages={34--41}, year={2012}, publisher={Association of Clinical Scientists}
19. Galvanic corrosion of aluminum alloy (Al2024) and copper in 1.0 M hydrochloric acid solution}, journal={Korean Journal of Chemical Engineering}, volume={29}, number={6}, pages={818--822}, year={2012}, publisher={Springer US}
20. Novel pyranopyrazoles: Synthesis and theoretical studies}, journal={Molecules}, volume={17}, number={9}, pages={10377--10389}, year={2012}, publisher={Molecular Diversity Preservation International}
21. Thermodynamic studies on 4-aminocoumarin tautomers}, journal={International Journal of Electrochemical Science}, volume={7}, number={9}, pages={8468--8472}, year={2012}, publisher={Electrochemical Science Group}
22. The legend of 4-aminocoumarin: use of the Del{\e}pine reaction for synthesis of 4-iminocoumarin}, journal={Research on Chemical Intermediates}, volume={39}, number={3}, pages={1385--1391}, year={2013}, publisher={Springer Netherlands}
23. Curcuminoids as antioxidants and theoretical study of stability of curcumin isomers in gaseous state}, journal={Research on Chemical Intermediates}, volume={39}, number={9}, pages={4047--4059}, year={2013}, publisher={Springer Netherlands}
24. Synthesis, antimicrobial and antioxidant activities of 5-((2-oxo-2H-chromen-7-yloxy) methyl)-1, 3, 4-thiadiazol-2 (3H)-one derived from umbelliferone}, journal={Chemistry of Natural Compounds}, volume={48}, number={6}, pages={950--954}, year={2013}, publisher={Springer US}
25. A novel hydrazinecarbothioamide as a potential corrosion inhibitor for mild steel in HCl}, journal={Materials}, volume={6}, number={4}, pages={1420--1431}, year={2013}, publisher={Multidisciplinary Digital Publishing Institute}
26. Corrosion of nickel-aluminum-bronze alloy in aerated 0.1 M sodium chloride solutions under hydrodynamic condition}, journal={Int. J. Electrochem. Sci}, volume={8}, pages={4571--4582}, year={2013}
27. Quantum chemical calculation for the inhibitory effect of compounds}, journal={Journal of Structural Chemistry}, volume={54}, number={2}, pages={301--308}, year={2013}, publisher={SP MAIK Nauka/Interperiodica}
28. Inhibition Effects of a Synthesized Novel 4-Aminoantipyrene Derivative on the Corrosion of Mild Steel in Hydrochloric Acid Solution together with Quantum Chemical Studies}, journal={International Journal of Molecular Sciences}, volume={14}, number={6}, pages={11915--11928}, year={2013}, publisher={mdpi}
29. Co-crystal structure of mixed molecules of methyl 2-(3-chloro-4-methyl-2-oxo-2H-chromen-7-yloxy) acetate and 2-(2-aminophenyl) benzothiazole}, journal={Journal of Structural Chemistry}, volume={54}, number={3}, pages={648--649}, year={2013},
30. Theoretical study for the preparation of sub-carbon nano tubes from the cyclic polymerization reaction of two molecules from corannulene, coronene and circulene aromatic compounds}, journal={Journal of Computational and Theoretical Nanoscience}, volume={10}, number={10}, pages={2453--2457}, year={2013}, publisher={American Scientific Publishers}
31. Green synthesis, antimicrobial and cytotoxic effects of silver nanoparticles using *Eucalyptus chapmaniana* leaves extract}, journal={Asian Pacific journal of tropical biomedicine}, volume={3}, pages={58}, year={2013}, publisher={Elsevier}
32. Electrochemical study on newly synthesized chlorocurcumin as an inhibitor for mild steel corrosion in hydrochloric acid}, journal={Materials}, volume={6}, number={12}, pages={5466--5477}, year={2013}, publisher={Multidisciplinary Digital Publishing Institute}
33. Thermodynamic and Theoretical Study of the Preparation of New Buckyballs from Corannulene, Coronene, and Circulene}, journal={Journal of nanomaterials}, volume={2013}, pages={1--9}, year={2013}
34. Synthesis and antioxidant activities of novel 5-chlorocurcumin, complemented by semiempirical calculations}, journal={Bioinorganic chemistry and applications}, volume={2013}, year={2013}, publisher={Hindawi Publishing Corporation}
35. Antioxidant and antimicrobial activities of novel quinazolinones}, journal={Medicinal Chemistry Research}, volume={23}, number={1}, pages={236--242}, year={2014}, publisher={Springer US}
36. Theoretical, antioxidant and cytotoxic activities of caffeic acid phenethyl ester and chrysin}, journal={International journal of food sciences and nutrition}, volume={65}, number={1}, pages={101--105}, year={2014}, publisher={Taylor & Francis}

37. Novel corrosion inhibitor for mild steel in HCl, journal={Materials}, volume={7}, number={2}, pages={662--672}, year={2014}, publisher={Multidisciplinary Digital Publishing Institute}
38. Inhibition of mild steel corrosion in sulfuric acid solution by new Schiff base, journal={Materials}, volume={7}, number={2}, pages={787--804}, year={2014}, publisher={Multidisciplinary Digital Publishing Institute}
39. Effect of multipath laser shock processing on microhardness, surface roughness, and wear resistance of 2024-t3 Al alloy, journal={The Scientific World Journal}, volume={2014}, year={2014}, publisher={Hindawi Publishing Corporation}
40. Quantum chemical assessment of benzimidazole derivatives as corrosion inhibitors, journal={Chemistry Central Journal}, volume={8}, number={1}, pages={21}, year={2014}, publisher={Springer International Publishing}
41. Synergistic of a coumarin derivative with potassium iodide on the corrosion inhibition of aluminum alloy in 1.0 M H<sub>2</sub>SO<sub>4</sub>, journal={Metals and materials international}, volume={20}, number={3}, pages={459--467}, year={2014}, publisher={The Korean Institute of Metals and Materials}
42. Inhibition of mild steel corrosion in hydrochloric acid solution by new coumarin, journal={Materials}, volume={7}, number={6}, pages={4335--4348}, year={2014}, publisher={Multidisciplinary Digital Publishing Institute}
43. Enhancement of the wear resistance and microhardness of aluminum alloy by Nd: YAG laser treatment, journal={The Scientific World Journal}, volume={2014} by year={2014}, publisher={Hindawi Publishing Corporation}
44. Synthesis and Characterization of Some New 4-Hydroxy-coumarin Derivatives, journal={Molecules}, volume={19}, number={8}, pages={11791--11799}, year={2014}, publisher={Multidisciplinary Digital Publishing Institute}
45. Novel approach: tungsten oxide nanoparticle as a catalyst for malonic acid ester synthesis via ozonolysis, journal={Journal of Nanomaterials}, volume={2014}, pages={2}, year={2014}, publisher={Hindawi Publishing Corp.}
46. Eco-friendly corrosion inhibitor, journal={International Journal of Electrochemical Science}, volume={10}, number={5}, pages={3961--3972}, year={2014}, publisher={Electrochemical Science Group}
47. Cheery Sticks Plant Extract as a Green Corrosion Inhibitor Complemented with LC-EIS/ MS Spectroscopy, journal={Int. J. Electrochem. Sci.}, volume={10}, number={9}, pages={8200--8209}, year={2015}
48. Photostabilizing Efficiency of PVC in the Presence of Schiff Bases as Photostabilizers, journal={Molecules}, volume={20}, number={11}, pages={19886--19899}, year={2015}, publisher={MDPI}
49. Properties and Applications of Polyvinyl Alcohol, Halloysite Nanotubes and Their Nanocomposites, journal={Molecules}, volume={20}, number={12}, pages={22833--22847}, year={2015}, publisher={MDPI}
50. Synthesis and characterization of polyesters derived from glycerol, azelaic acid, and succinic acid, journal={Green Chemistry Letters and Reviews}, volume={8}, number={1}, pages={31--38}, year={2015}, publisher={Taylor & Francis}
51. New Coumarin Derivative as an Eco-Friendly Inhibitor of Corrosion of Mild Steel in Acid Medium, journal={Molecules}, volume={20}, number={1}, pages={366--383}, year={2015}, publisher={Multidisciplinary Digital Publishing Institute}
52. Furosemide as an environmental-friendly inhibitor of corrosion of zinc metal in acid medium: experimental and theoretical studies, journal={Int. J. Electrochem. Sci}, volume={10}, pages={1708--1715}, year={2015}
53. Selective Ozonolysis of Cis-Crotamiton: Free Catalyzed Oxidative Synthesis of N-ethyl-N-(o-tolyl) formamide as a New Compound, journal={Ozone: Science & Engineering}, volume={37}, number={4}, pages={385--390}, year={2015}, publisher={Taylor & Francis}
54. Molecular simulation for novel carbon buckyball materials, journal={Cogent Chemistry}, volume={1}, number={1}, pages={1026638}, year={2015}, publisher={Cogent}
55. Eco-friendly corrosion inhibitor: experimental studies on the corrosion inhibition performance of creatinine for mild steel in HCl complemented with quantum chemical calculations, journal={Int. J. Electrochem. Sci}, volume={10}, pages={3961--3972}, year={2015}
56. Chemical and Physical Properties Investigation as Indicators for the Ozonation Reaction Completion of Palm Olein, journal={Ozone: Science & Engineering}, volume={37}, year={2015}, publisher={Taylor and Francis}
57. Novel macromolecules derived from coumarin: synthesis and antioxidant activity, journal={Scientific reports}, volume={5}, pages={11825}, year={2015}, publisher={Nature Publishing Group}
58. Hydrogen Peroxide Scavenging Activity of Novel Coumarins Synthesized Using Different Approaches, journal={PLoS ONE}, volume={10}, number={7}, pages={e0132175}, year={2015}
59. Hypothetical Design of Carbon Nanotube Materials Based on [8]Circulene, journal={J. Nanoelectron. Optoelectron}, volume={10}, pages={711--716}, year={2015}, publisher={American Scientific Publishers}
60. Synthesis of vanadium pentoxide nanoparticles as catalysts for the ozonation of palm oil, journal={Ozone: Science & Engineering}, volume={38}, number={1}, pages={36--41}, year={2016}, publisher={Taylor & Francis}
61. Synthesis of new coumarins complemented by quantum chemical studies, journal={Research on Chemical Intermediates}, volume={42}, number={4}, pages={3905--3918}, year={2016}, publisher={Springer Netherlands}
62. Synthesis and characterization of a novel eco-friendly corrosion inhibition for mild steel in 1 M hydrochloric acid, journal={Scientific reports}, volume={6}, year={2016}, publisher={Nature Publishing Group}
63. Coumarins as potential antioxidant agents complemented with suggested mechanisms and approved by molecular modeling studies, journal={Molecules}, volume={21}, number={2}, pages={135}, year={2016}, publisher={Multidisciplinary Digital Publishing Institute}
64. Green Antioxidants: Synthesis and Scavenging Activity of Coumarin-Thiadiazoles as Potential Antioxidants Complemented by Molecular Modeling Studies, journal={Free Radicals and Antioxidants}, volume={6}, number={2}, pages={173--177}, year={2016}
65. Synthesis, inhibition effects and quantum chemical studies of a novel coumarin derivative on the corrosion of mild steel in a hydrochloric acid solution, journal={Chemistry Central Journal}, volume={10}, number={1}, pages={1--9}, year={2016} Antioxidant Activities of 4-Methylumbelliferone Derivatives, journal={PLoS ONE}, volume={11}, number={5}, pages={e0156625}, year={2016}
66. Impact of sulfuric acid treatment of halloysite on physico-chemic property modification, journal={Materials}, volume={9}, number={8}, pages={620}, year={2016}, publisher={Multidisciplinary Digital Publishing Institute}
67. Efficient Catalyst One-Pot Synthesis of 7-(Aryl)-10, 10-dimethyl-10, 11-dihydrochromeno [4, 3-b] chromene-6, 8 (7H, 9H)-dione Derivatives Complemented by Antibacterial Activity, journal={BioMed Research International}, volume={2016}, year={2016},
68. Optimization of Solar Photocatalytic Degradation of Chloroxylenol Using TiO<sub>2</sub>, Er<sup>3+</sup>/TiO<sub>2</sub>, and Ni<sup>2+</sup>/TiO<sub>2</sub> via the Taguchi Orthogonal Array Technique, journal={Catalysts}, volume={6}, number={10}, pages={163}, year={2016}, publisher={Multidisciplinary Digital Publishing Institute}
69. Optimizing Injection Molding Parameters of Different Halloysites Type-Reinforced Thermoplastic Polyurethane Nanocomposites via Taguchi Complemented with ANOVA, journal={Materials}, volume={9}, number={11}, pages={947}, year={2016},
70. 2-(1-(Benzylimino) ethyl) phenol as anticorrosive compound supported with Quantum chemical calculations, journal={Int. J. Chem. Tech. Res}, volume={9}, number={7}, pages={266--269}, year={2016}
71. Thiadiazole as a Potential Corrosion Inhibitor for Mild Steel in 1 M HCl, journal={Journal of Advanced Electrochemistry}, pages={67--69}, year={2016}, publisher={JACS Directory, India.}
72. Effect of Anti Diabetic Drugs on Lipid Profile in Patients with Type 2 Diabetes Mellitus, year={2016}, publisher={Preprints}

