# CURRICULUM VITAE

جامعة الأزهر
Al-Azhar University-Gaza

## Hussein M. H. Alhendawi

Last Update:24/11/2018

### PERSONAL DETAILS

| | | | |
|---|---|---|---|
| **Date Of Birth** | 15/12/1971 | **Place Of Birth** | Gaza |
| **Nationality** | Palestinian | | |
| **Martial Status** | Married | **Gender** | Male |
| **Designation** | | | |
| **Department** | Chemistry | | |
| **Faculty** | Science | | |
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| **HURL** | | | |

### ACADEMIC QUALIFICATIONS

(YEAR ,QUALIFICATION ,INSTITUTION ,TITLE)

| | |
|---|---|
| 2005 | Doctoral Degree, PHD,Universidad Aut?noma de Madrid, Spain<br>(Organic-Inorganic Layered Materials for Chiral Molecular Recognition and Storage of Fuel Gases) |
| 1998 | Master Degree, MSC,Manchester Institute of Science and Technology (UMIST)<br>(Ligand Activated Asymmetric Synthesis. Preparation and Characterization of Cyclophosphoramides) |
| 1995 | Bachelor Degree, BSC,Al-Quds University, College of Science and Technology, Jerusalem-Abu Dies, Palestine<br>(Chemistry) |

### AREAS OF EXPERTISE

(AREA)

Organic-inorganic frameworks based on layered zirconium phosphate: Synthesis and applications ,

### SELECTED PUBLICATIONS

**- (Book \ Chapter in Book)**

1. H. Alhendawi, E. Brunet, E. Rodr?guez Pay?n (2017) . Design, Construction and Technological Applications. In: Phosphoric Acid Industry - Problems and Solutions, InTechOpen,
2. E. Brunet, M. de Victoria-Rodr?guez, L. J. Garc?a-Patr?n, C. Cerro H. Alhendawi, E. Rodr?guez-Pay?n, J.C. Rodr?guez-Ubis, O. Juanes (2016) . Layered organic–inorganic hybrid materials, Kirk-Othmer Encyclopedia of Chemical Technology,
3. E. Brunet, M. de Victoria-Rodr?guez, L. J. Garc?a-Patr?n, H. Hindawi, E. Rodr?guez-Pay?n, J.C. Rodr?guez-Ubis, O. Juanes (2015) . Tales from the unexpected: chemistry at the surface and interlayer space of layered organic–inorganic hybrid materials based on ?-zirconium phosphate, Wiley, Hoboken,

**- Article in Academic Journal**

1. H. M. H. Alhendawi, E. Brunet, H. Hammouda, E. Rodr?guez Pay?n (2016) . Intercalation of primary alkylamines into lambda-zirconium phosphate. Lambda-type materials with extended interlayer separation,J. Porous Mater. ,23(6) ,1519-1526 . (SCOUPS Cited Publication )
2. H. M. H. Alhendawi (2016) . Lambda-zirconium phosphate covalently pillared with 1,4-biphenyldicarboxylate: A new rigid mesoporous framework,J. Incl. Phenom. Macrocycl. Chem.,85() ,187–192 . (SCOUPS Cited Publication )
3. H. M. H. Alhendawi. E. Brunet, O. Juanes, H. Hammouda, S. Idhair, E. Rodr?guez Pay?n, M. de Victoria Rodr?guez (2015) . New soft porous frameworks based on lambda-zirconium phosphate and aliphatic dicarboxylates: Synthesis and structural characterization,J. Phys. Chem. Solids ,86() ,95-100 . (SCOUPS Cited Publication )
4. H. M. H. Alhendawi, E. Brunet, O. Juanes, S. Idhair, H. Hammouda, E. Rodr?guez Pay?n, M. de Victoria Rodr?guez (2014) . Functionalization of lambda-zirconium phosphate with ethylenediaminetetraacetic acid: Synthesis, characterization and applications,J. Chem. Sc. ,120(6) ,1721-1727 . (SCOUPS Cited Publication )
5. H. M. H. Alhendawi (2014) . Synthesis and structural characterization of zirconium phosphate adipate dimethyl sulfoxide: A new lambda-type organic-inorganic layered material,J. Chem. Sc. ,126(4) ,975-979 . (SCOUPS Cited Publication )
6. H. M. H. Alhendawi (2013) . Synthesis and Structural Characterization of a New Chiral Porous Hybrid Organic-Inorganic Material Based on ?-Zirconium Phosphates and L-(+)-phosphoserine,J. Solid State Chem. ,201() ,24-28 . (SCOUPS Cited Publication )
7. H. M. H. Alhendawi, E. Brunet, E. Rodr?guez Pay?n, N. Shurrab, O. Juanes, S. Idhair, M. Al-Asqalany (2013) . A new layered zirconium biphosphonate framework covalently pillared with N,N-piperazinebis(methylene) moiety. Synthesis and characterization,J. Porous Mater. ,20(5) ,1189-1194 . (SCOUPS Cited Publication )
8. H. M. H. Alhendawi, E. Brunet, E. Rodr?guez Pay?n, O. Juanes, J. C. Rodr?guez Ubis, M. Al-Asqalany (2012) . Surfactant-assisted Intercalation of Crystal Violet in Layered ?-Zirconium Phosphate. Dye uptake from aqueous solutions,J. Incl. Phenom. Macrocycl. Chem. ,73() ,387-396 . (SCOUPS Cited Publication )
9. E. Brunet, H. M. H. Alhendawi, C. Cerro, M. J. de la Mata, O. Juanes, J. C. Rodr?guez-Ubis (2011) . Creating Libraries of Porous Materials Derived from ?-Zirconium Phosphate: Pillaring with Polyphenylethynyl Diphosphonates,Micropor. Mesopor. Mat. ,138() ,75–85 . (SCOUPS Cited Publication )
10. H. M. H. Alhendawi (2011) . Intercalation of Malachite Green ([C6H5C(C6H4N(CH3)2)2]Cl) in Layered ?-Zirconium Phosphate. Effect of Cationic Surfactants,J. Mater. Chem. ,21() ,7748-7754 . (SCOUPS Cited Publication )
11. E. Brunet, H. M. H. Alhendawi, C. Cerro, M. J. de la Mata, O. Juanes, J. C. Rodr?guez-Ubis (2010) . Easy ?-to-? Transformation of Zirconium Phosphate/Polyphenylphosphonate Salts: Porosity and Hydrogen Physisorption,Chem. Eng. J. ,158() ,333–344 . (SCOUPS Cited Publication )
12. E Brunet, H. M. H. Alhendawi, M Alonso, C Cerro, L Jiménez, O Juanes, M J Mata, A Salvador, M Victoria, E Rodr?guez-Pay?n, J C Rodr?guez-Ubis (2010) . The Use of Laminar Inorganic Salts to Make Organic Molecules Display New Properties at the Supramolecular Level in the Solid State,J. Phys.: Conf. Ser.,232() ,012017 . (SCOUPS Cited Publication )
13. Z. Safi, H. M. H. Alhendawi (2009) . Tautomerisation and Substituent Effects on the Intramolecular Hydrogen Bonding in 4-Formyl-1-methylpyrazol-5-ol. A Density Functional Theory,Asian Journal of Chemistry ,21(6) ,4772-4784 . (SCOUPS Cited Publication )
14. O. S. M. Nasman, S. saadeh, H. A. Aziz, H. M. H. Alhendawi, F. Kodeh (2009) . Template Synthesis and Characterization of Mn(II), Co(II) and Zn(II) Complexes of 14,17-Membered N2O2 Marcrocyclic,Journal of Applied chemistry ,7() ,45-60 . (SCOUPS Cited Publication )

15 E. Brunet, H. M. H. Alhendawi, O. Juanes, L. Jiménez, J. C. Rodr?guez-Ubis (2009) . Luminescence of Lanthanides in Pillared Zirconium Phosphate,J. Mater. Chem. ,19() ,1–10 . (SCOUPS Cited Publication )

16 O. S. M. Nasman, S. saadeh, H. A. Aziz, H. M. H. Alhendawi, F. Kodeh (2008) . Nickel(II), Copper(II) and Zinc(II) Complexes of 14,15-Membered N2O2 Marcrocycles: Synthesis and Characterization,Journal of Al-Azhar University-Gaza, JAUG “natural series sciences” ,10() ,2-10

## RESEARCH PROJECTS

(FROM - TO ,PROJECT_TITLE ,ROLE ,SOURCE ,LEVEL)

| | |
|---|---|
| **2016 ,2018** | New organic-inorganic hybrid materials based on lambda-zirconium phosphate ,Researcher ,Qatar Charity ,National |
| **2007 ,2016** | Engineering of Microcystalline Solid-State Networks ,Researcher ,Association of Arab Universities ,National |

## SUPERVISION

(DEGREE ,CANDIDATES ,THESIS ,SESSION ,YEAR)

**Completed**

* Master ,Manar Kerret ,Synthesis of some new pyrazolotriazolopyrimidine acyclo C-Nucleosides via oxidative cyclization ,2016 ,Al-Azhar University - Gaza
* Master ,Mohammed A. Fayyad ,Synthesis and characterization of some electrically conductive copolymers ,2010 ,Al-Azhar University - Gaza
* Master ,Mohammed M. Hilles ,Synthesis and characterization of highly conductive terpolymers of aniline with aniline derivatives ,2011 ,Al-Azhar University - Gaza
* Master ,Salem Idhair ,Synthesis of new porous organic-inorganic materials based on zirconium phosphate and aminodiphosphonic and dicarboxylic Acids ,2014 ,Al-Azhar University - Gaza
* Master ,Huda Hammouda ,New organic-inorganic porous materials based on lambda-zirconium phosphate and carboxylic acids. synthesis, characterization and applications ,2015 ,Al-Azhar University - Gaza

## TEACHING

(LEVEL ,COURSE )

**First Degree**

* General Chemistry (I)
* Organic Chemistry (II)
* General Chemistry (II)
* Organic Chemistry (I)
* Special Topics in Organic Chemistry (Spectroscopy)
* Systematic Identification of Organic Compounds Lab
* Organic Chemistry (II) Lab. Synthesis of organic compounds
* Organic-Inorganic Industrial Chemistry for Applied Chemistry
* Petrol and Petrochemicals for Applied Chemistry
* Organic Chemistry for Medicine

**Post Graduate**

* Spectroscopy
* Reaction Mechanisms