

# 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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Address (Home)

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## ACADEMIC QUALIFICATIONS

(YEAR , QUALIFICATION , INSTITUTION , TITLE)

2005	Doctoral Degree, PHD, Universidad Aut?noma de Madrid, Spain (Organic-Inorganic Layered Materials for Chiral Molecular Recognition and Storage of Fuel Gases)
1998	Master Degree, MSC, Manchester Institute of Science and Technology (UMIST) (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 (Chemistry)

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## AREAS OF EXPERTISE

(AREA)

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

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## SELECTED PUBLICATIONS

- (Book \ Chapter in Book)

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

- 1 H. M. H. Alhendawi, E. Brunet, H. Hammouda, E. Rodríguez Payán (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. Rodríguez Payán, M. de Victoria Rodríguez (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. Rodríguez Payán, M. de Victoria Rodríguez (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  $\lambda$ -Zirconium Phosphates and L-(+)-phosphoserine, *J. Solid State Chem.* ,201() ,24-28 . (SCOUPS Cited Publication )
- 7 H. M. H. Alhendawi, E. Brunet, E. Rodríguez Payán, 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. Rodríguez Payán, O. Juanes, J. C. Rodríguez Ubis, M. Al-Asqalany (2012) . Surfactant-assisted Intercalation of Crystal Violet in Layered  $\lambda$ -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. Rodríguez-Ubis (2011) . Creating Libraries of Porous Materials Derived from  $\lambda$ -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 ( $[\text{C}_6\text{H}_5\text{C}(\text{C}_6\text{H}_4\text{N}(\text{CH}_3)_2)_2\text{Cl}]$ ) in Layered  $\lambda$ -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. Rodríguez-Ubis (2010) . Easy  $\lambda$ -to- $\lambda'$  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 Rodríguez-Payán, J C Rodríguez-Ubis (2010) . The Use of Lamellar 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 N<sub>2</sub>O<sub>2</sub> Macrocyclic, *Journal of Applied Chemistry* ,7() ,45-60 . (SCOUPS Cited Publication )

- 15 E. Brunet, H. M. H. Alhendawi, O. Juanes, L. Jiménez, J. C. Rodríguez-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 Macrocycles: 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 Microcrystalline Solid-State Networks ,Researcher ,Association of Arab Universities ,National

## SUPERVISION

(DEGREE , CANDIDATES , THESIS , SESSION , YEAR)

<b>Completed</b>	* 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 )

<b>First Degree</b>	* 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
<b>Post Graduate</b>	* Spectroscopy
	* Reaction Mechanisms