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مكتبة قسم الكيمياء (أ)

كلية العلوم مكتبة قسم الكيمياء (أ)

بيان برسائل الماجستير والدكتوراه التي اجازتها الجامعة خلال عام 2025

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Summary	Pages	Size	Year	Supervisor	Thesis	Title	ID	Name	م
Nanocatalysis is one of the exciting subfields of nanoscience and is rapidyly advancing field which involves the use of nanomaterials as catalysts for a variety of homogenous and heterogeneous catalytic applications. that leverages the unique properties of nanomaterials to enhance catalytic processes at the nanoscale,materials exhibit distinctive physical and chemical characteristics,such as high surface area-to--volume ratios and quantum .confinement effects	337 p.	24 cm.	2025	Mohamed Mahmoud Mohamed Abd El-Wahab, Abd El-Aziz Ahmed Said, Mohamed Nady Abd .El-Hameed	master	Selective Conversion of Methyl Alcohol into Formaldehyde over Pure and Modified Nickel and Zirconium Molybdate . Nanocatalysts	13108715	Aya Farouk Farghal Hassan	1
The content of thesis can be divided into three main	262 p.	24 cm.	2025	**Talaat Ibrahim El-Emary, Etify Abd**	master	Studies on Synthesis, Reactions and	13108630	Esraa Khamies Ali Mohamed	2

parts.the first one(introduction) comrises literature survey on synthesis, reactions and applications of partially hydrogenated isoquinolines particularly 5,6,7,8-tetrahydroisoquinolines. the new work,which is depicted in the second part(results and discussion) ,was planned to synthesize and characterize of some new partially hydrogenated isoquinolines as well as study thier reactions and applications as insected .agents				**El-Gaphar Bakhite, .Awad Ibrahim Said**		Applications of some New Partially Hydrogenated Isoquinoline . Derivatives			
The main goal of the present thesis is focused on Chapter1: it includes a preface on cephalosporin antibiotics with special attention to ceftriaxone and cefotaxime ligand as a derivative of cephalosporin. it also contains an introduction to coordination compounds with different generations of cephalosporin, nanocomposite compounds, adsorption techniques (langmuit, freundlich adsorption isotherm and adsorption models) and biological activity (andibacterial and .(antifungal activity	**169 p.**	**24 cm.**	**2025**	**Mostafa Kamal Hasan, Mohamed Abd El-Hakeem El-Gahami, Mohamed Abd El-Mageed .Ibrahim**	master	**Transition Metals Complexes with some Cephalosporin Antibiotics**	13108675	Fatma Sayed Mohamed Hashem	**3**
The work described in this theesis aimed to synthesize,characterize, and	**150 p.**	**24 cm.**	**2025**	**Kamal Ibrahim Aly, Osama Mohamed .Younis**	master	**Design, Synthesis,**	13131922	Aya Khamies Abdelgaber Mohamed	**4**

apply polybenzoxaznes based on bis-arylidine cyclopentanone in the polymer backbone. the study consists of two parts:part1: luminescencent polybenzoxazine:synthesis, charecterization,and photophysical properties the followhng secthon explains the polymer p-bz-cp and its .monomer m-bz-cp						**characterization, and Applications of some new . polymers**			
The main aim of the work describe in thesis is planned to synthesis and characterization of novel conductimg polymers and nano application in absorbing solar energy radiations. part I Synthesis and characterization of novel conducting polyarylene azomethine photocatalyst against MB dyes under simulated sunlight irradiations and TIO2 nanocomposites for improving photocatalytic performanc. thesynthesis approach includes two steps. Firstly.	**204 p.**	**24 cm.**	**2025**	**Kmal Ibrahim Ali, Marwa mahmoud .sayed**	master	**Synthesis and characterization of novel conducting polymers and it's nanocomposites and application in absorbing solar energy . radiations**	13132016	Yara ahmed kasem mahmoud	**5**
Air pollution consists one of the most cirtical environmental challenge globally. consecquently, environmental pollution and the looming depiletion of oil reservees have spurred extensive research into alternative clean energy	**288 p.**	**24 cm.**	**2025**	**Mohamed Nady Abd El-Hameed, Mohamed Abd-Aal Abd El-Rhman, Abd .El-Aziz Ahmed Said**	**master**		13132457	Asmaa Mohamed Ali Sayed Hamam	**6**

sources slether (DME). .DME emerges as a <									
Nanocatalysis is one of the most exciting subfields of nanoscience. It is a rapidly growing field that involves the use of nanomaterials as catalysts for a variety of homogenous and heterogeneous catalytic applications, unlike the common practice in catalysis where the catalytic performance scales with the surface to volume ratio of the dispersed catalytic agent, nano catalysts are distinguished by their unique and non-scalable properties that originate from the high reduced dimensions of the active catalytic aggregates. Dimethyl ether is a promising	**248 p.**	**24 cm.**	**2025**	**Abd El-Aziz Ahmed Said, Mohamed Nady Abd El-Hameed, Mohamed Abd El-Aal Abd El-Rhman.**	**master**	**Synthesis, characterization, And Catalytic Performance Of Some Metal Tungstate . Nnocatalysts**	**13143638**	Esraa Magdy Abd El-Monem Abd El-Hameed	**7**
The Industrial Revolution owes its success to the availability of fossil fuels. However, concerns about the eventual depletion of these resources, along with their significant environmental impact, have prompted the search for sustainable, eco-friendly, and economically viable energy alternatives. Hydrogen gas (H_2) has emerged as a promising energy carrier due to its high energy density	**219 p.**	**24 cm.**	**2025**	**Rabei Mohamed Gabr, Mostafa Farrag Mostafa.**	**master**	Synthesis and characterization of Functionalized Cerium and Zirconium Metal-Organic Frameworks and Their Carbonaceous Metal Oxides Nano Composites for Energy . Applications	**13145222**	Ahmed Abdo Ragab	**8**

compared to conventional fuels and its environmentally benign byproduct-water produced without any carbon emissions. Despite its potential, industrial hydrogen production methods like steam reforming and coal gasification face challenges due to their reliance on non-renewable energy sources. In response, researchers have developed numerous alternative methods for hydrogen production, many of which require the use of catalysts to enhance the efficiency of the									
The demand for enzymes across various industries continues to rise due to thier numerous advantages, including high catalytic efficiency and low enviromental toxicity. among these, chitinases are considered paticularly valuable becouse of thier broad biotechnolgical applications. consequently, research on chitinases has expanded considerably in recent years, with significant efforts directed toward .isolating bacterial strains	**104 p.**	**24 cm.**	**2025**	**Ali Ahmed Abdel-Hafez, Ahmed Mahmoud Mohamed .Sayed**	**master**	**Immobilization of Chitinase Enzeme with Metal-Organic Framework(MOF) :Preparation, charaterization, and Applications**	**13153249**	Fatma Mahmoud ahmed Tawfiq	**9**
In this work we study the effects included by gamma ray and electron beam (EB) irradiation on the thermal	**86 p.**	**24 cm.**	**2025**	**Refaat Mohamed Mahfouz, Mohamed Abdel-Hakim Ahmed, Ghada Adel**	**master**	Thermal Study on the Dehydration Process of Hydrate Sodium Salts as Inorganic	**13152533**	Salma Ahmed Fakhry Abdel Salam Mohamed	**10**

behavior, structure, and morphology of Na2So4.10H2o(Glaubour`s salt) was studied in the nitrogen atmosphere in the temprature range of 22-300C.The TG curve displays atotal mass loss percentage of 55% corresponding to the removal of the crystalline .water molecule				**.Mahmoud**		Phase Change **.(**Material(PCM			
Cobalt oxides comprise three common members,viz.cobaltous oxide(coO), cobalt oxide (co2O3, and tricobalt tetraoxide (co3O4 or coco2O4 the latter one has gained much attention as acatalyst in a wide spectrum of important organic reactions. an hmportant feature of co3O4 is crystallizes in an important class known as the spinel structure with general formula .AB2O4	**262 p.**	**24 cm.**	**2025**	**Bahaa Mohamed Mahmoud Abu-Zied, Tarek Taha .Ahmed Ali**	**master**	**Cobalt Oxide Based Nanocatalysts for Sodium Borohydride Hydrolysis: Green Synthesis and Silica . Patform**	**13152739**	Ebtesam Hassan Ahmed Abdel-Hakim	**11**
charecterization of a series of novel poly(ether-keton)s investigate thier morohological properites and potential utility as adsorbents for the removal of organic dyes. two distinict families of polyemers were prepared, each prepared, each derived from bisphenoxyallkane monomers containing flexible aliphatic spacers of different	**102 p.**	**24 cm.**	**2025**	**Kamal Ibrahim Ali, Osama Mohamed .Younis**	**master**	**Synthesis, characterization, and Applications of some New Polly(ether-. ketone)s**	**13154660**	Amira Ibrahim Ouf Hussein	12

lenghs the thesis is divide into .main par									
Pyrimidin plays avital role both biologically and medicinally, as it cositutes the fundamental structure of numerous essintial biomolecules.in addition to thier gentic functions, pyrimidines serve as subunites in the synthesis of vitamines, amino acids and other biomolecules tha are critical for normal bodily .functions and devolopment	**207 p.**	**24 cm.**	**2025**	**Morsy Mohamed Mohamed Ali, Abdel-Aal Mohamed Gaber, Abdel-Reheem Abdel-.Fattah Saddik**	**master**	**Synthesis, characterization, and Applications of some Macromolecules containing .Pyrimidine moiety**	**13153281**	Manar Khallaf Mohamed	13
The content of this thesis can divided into three main chapters. the first chapter includes an introduction that coprises aliterature survey on the synthesis, reactions, and applications of pyridines, thieno{2,3-b} pyridines, and pyrazolo{3,4-b} pyridines. The new work includeed in the second chapter (results and discutions) was designed to synthesize some new pyridines containing etyle neonicotinate moiety or	**354**	**24 cm.**	**2025**	**Abdu El- Sayed Abdel-Rahman, Etify Abd-Elgafar Bakhite, Mohamed Ahmed Mohamed .Gad**	**Doctor**	**Studies on Synthesis and Crystal Structure of some New Heterocyclic Compounds Containing Pyridine Nucleus and their Applications as .Insecticides**	**13132480**	Suzan Abu El-Hassan Sayed Wahmaan	14
This thesis focuses on synthesizing and characterizing a range of diffirent polymers and studying thier various applications . the thesis is divided into four main chapters,each presenting a	**295 p.**	**24 cm.**	**2025**	**Ahmed Sabet Hammam, Kamal Ibrahem Aly, Haitham Mohamed El-Bery.**	**Doctor**	**Synthesis, characterization of some New Polymeric Materials and Investigation of .Their Applications**	**13145415**	Shymaa Mostafa Ibrahem Hassan	15

detailed description of the synthesis procedures, charactrization methods, and the specific applications studied for each type of polymer.this chapter present the content of the thesis including a general introduction to ploymer synthesis ,									
Kinetics of dehydration of un-irradiated and irradiated europium (III) acetate hydrate were studied by isoconversional nonisothermal method. The dehydration reactions are best described by R2, R3, and F1 for un-irradiated, γ-irradiated, and EB-irradiated samples, respectively. Analysis of the kinetic data using linear and nonlinear isoconversional methods showed that the apparent activation energy, (kJ/mol) is dependent on the conversion degree, α, of the dehydration process. The −α plots for un-irradiated and irradiated europium (III) acetate hydrate showed that the dehydration process is controlled by one reaction mechanism.	**175 p.**	**24 cm.**	**2025**	**Reffaat Mohammed Mahfouz, Hisham .Fouad Ali**	**Doctor**	Radiation-Induced Dehydration of Europium Acetate Hydrate:Thermal and .Computatoinal Studies	13145554	Noura Mossaed saleh	16
The title of the thesis pointed that its contents should comprise:"(1) synthesis and antcancers activity of some chalcons containining	**374 p.**	**24 cm.**	**2025**	**Etify Abd El-Gafar BaKhite, Hajjaj Hassan Mohamed .Abdau-Allah**	**Doctor**	Exploration of some New Organic Compounds Structurally Related to Paracetamol,	13145436	Omaima Fawzi Ibrahim Mansour	17

pracetamole scaffold as a substructure; (2) synthesis of some new cyclohepta{b} pyridines and cyclohepta {e} thieno{2.3-b} pyridines structyrally related to ketotifen and thier applications as anticancer or anti-inflammatory agents; (3) exploration of some styrylthieno{2.3-b} pyridines as anti-covid 19 agents and (4) exploration of some new partially hydrogenated isoquinolines structurally related to other drugs (1)						Ketotifen, and Other Drugs as Anticancer, Anti-inflammatory and Anti-COVId-19 . Agents			
This work involves synthesis of cobalt, copper, zinc, and platinum complexes with thiourea derived ligands. in details, these ligands werw used: 1-(phenyle)-3-(2-methylphynyl)thiourea (l`), 1-(phynyle)-3-(3-methylephynyl) thioiourea(L3), 1-(2,4-dimethylephenyle)-3-phenylethiourea (L4), 1-(2,5-dimethylephenyle)-3-phenylethiourea (L5), 1-(2-chlorophenyle)-3-phenylethiourea(L6), 1-phenyl)-3-(3-pyridine) .(thiourea (HL8	**134 p.**	**24 cm.**	**2025**	**Aref Ahmed Mohamed Ali, Amna Sayed Ahmed Hassan, Ahmed Bayoumy Mohamed Ibrahim, Ghada .Abd-Elmonsef**	**Doctor**	**StructuraL Analysis and Bioactivity Profile of Metal Complexes Comprising Thiourea Derivatives Ligands**	13154679	Hanan Mosbah Khalaf Makhlouf	18