

## CURRICULUM VITAE

### PERSONAL DATA

<b>Name</b>	<b>Sami Abdul Aziz Al Hussain</b>	
<b>Nationality</b>	<b>Saudi</b>	
<b>Position</b>	<b>Associate in the Department of Chemistry</b>	
<b>E-Mail</b>	<b>sahussain@imamu.edu.sa</b>	
<b>Phone</b>	<b>0112594676</b>	

### EDUCATION

<b>Year</b>	<b>Academic Degree</b>	<b>Institution</b>
<b>1417</b>	<b>Bachelor Degree in Chemistry</b>	<b>King Saud University,</b>
<b>1429</b>	<b>Master in Chemistry</b>	<b>King Saud University,</b>
<b>1436</b>	<b>Ph.D. in Organic Chemistry</b>	<b>King Saud University,</b>

### WORK EXPERIENCE

<b>Period</b>	<b>Position</b>	<b>Address</b>
<b>1431-1432</b>	<b>Demonstrator at Chemistry Department</b>	<b>Faculty of Science - Imam Mohammad Ibn Saud Islamic University (IMSIU)</b>
<b>1432</b>	<b>Lecturer at Chemistry Department</b>	<b>Faculty of Science - Imam Mohammad Ibn Saud Islamic University (IMSIU)</b>
<b>1436</b>	<b>Assistant Professor at Chemistry Department</b>	<b>Faculty of Science - Imam Mohammad Ibn Saud Islamic University (IMSIU)</b>
<b>1442</b>	<b>Associate Professor at Chemistry Department</b>	<b>Faculty of Science - Imam Mohammad Ibn Saud Islamic University (IMSIU)</b>
<b>1437- 1440</b>	<b>Head of chemistry department</b>	<b>Faculty of Science - Imam Mohammad Ibn Saud Islamic University (IMSIU)</b>

<b>1440- 1441</b>	<b>Vice Dean for Graduate Studies and Scientific Research</b>	<b>Faculty of Science - Imam Mohammad Ibn Saud Islamic University (IMSIU)</b>
<b>1441</b>	<b>Advisor to the Vice Rector for educational Affairs</b>	<b>Imam Mohammad Ibn Saud Islamic University (IMSIU)</b>
<b>1441-until now</b>	<b>Assistant Vice Rector for educational Affairs</b>	<b>Imam Mohammad Ibn Saud Islamic University (IMSIU)</b>
<b>1438-1441</b>	<b>Member of the Research Center, College of Science</b>	<b>Imam Mohammad Ibn Saud Islamic University (IMSIU)</b>
<b>1441-1443</b>	<b>Director of the Research Center, College of Science</b>	<b>Imam Mohammad Ibn Saud Islamic University (IMSIU)</b>
<b>1443-until now</b>	<b>Vice Dean of Scientific Research</b>	<b>Deanship of Scientific Research - Imam Mohammad Ibn Saud Islamic University (IMSIU)</b>

## RESEARCH INTERESTS

**The main research interests are:**

- 1- Synthesis of Nitrogen Heterocycles with Potential Biological Activity.
- 2- Transition metal chelates as potent new anticancer agents.
- 3- Drug Design.
- 4- Degradation of Organic Pollutants from Aqueous Systems
- 5- Bioinformatics
- 6- Natural Products and its nanomaterials in water treatment.
- 7- Design and Synthesis of Nano-catalysts.

## PUBLICATIONS

TITLE	CITATION
<p><input type="checkbox"/> <a href="#">Nano-Functionalization and Evaluation of Antimicrobial Activity of <i>Tinospora cordifolia</i> against the TolB protein of <i>Pseudomonas aeruginosa</i>-An Antibacterial and Computational Study</a> SAAH Magdi Zaki* and Sanchaita Rajkhowa Himporna Nath, Ankita Khataniar, Dr ... "Frontiers in Microbiology-Antimicrobials, Resistance and Chemotherapy 14 ...</p>	
<p><input type="checkbox"/> <a href="#">Synthetic Potential of Regio and Stereoselective Ring Expansion Reactions of Six-Membered Carbo- &amp; Heterocyclic Ring Systems: A Review</a> Al Magdi E. A. Zaki * Rida Noor, Ameer Fawad Zahoor *, Asim Mansha, Samreen ... International journal of Molecular Science 24</p>	
<p><input type="checkbox"/> <a href="#">Enhanced solubilization and encapsulation of direct dyes through self-assembled single and mixed micellar nanocarriers</a> S Irshad, H Sultana, M Usman, M Ahmad, <b>SA Al-Hussain</b>, MEA Zaki Environmental Technology &amp; Innovation 30, 103061</p>	
<p><input type="checkbox"/> <a href="#">Synthetic Potential of Regio-and Stereoselective Ring Expansion Reactions of Six-Membered Carbo-and Heterocyclic Ring Systems: A Review</a> R Noor, AF Zahoor, A Mansha, SG Khan, AU Haq, S Ahmad, ... International Journal of Molecular Sciences 24 (7), 6692</p>	
<p><input type="checkbox"/> <a href="#">Theoretical and Anti-<i>Klebsiella pneumoniae</i> Evaluations of Substituted 2,7-Dimethylimidazo[1,2-a]Pyridine-3-Carboxamide and Imidazopyridine Hydrazone Derivatives</a> AP Aleksey Kuznetsov Suraj N. Mali *, Amit Anand, Magdi EA Zaki, <b>Sami A Al</b> ... Molecules 26</p>	
<p><input type="checkbox"/> <a href="#">In-Silico Studies to recognize Repurposing Therapeutics toward Arginase-I inhibitors as a Potential Onco-Immunomodulators</a> PNKPA Rahul Dadaraoji Jawarkar*, Magdi ea Zaki, <b>Sami A Hussain</b>, Amal Al ... Frontiers in Pharmacology-Experimental Pharmacology and Drug Discovery</p>	
<p><input type="checkbox"/> <a href="#">Theoretical and Anti-<i>Klebsiella pneumoniae</i> Evaluations of Substituted 2,7-dimethylimidazo[1,2-a]pyridine-3-carboxamide and Imidazopyridine Hydrazone ...</a> SN Mali, A Anand, MEA Zaki, <b>SA Al-Hussain</b>, RD Jawarkar, A Pandey, ... Molecules 28 (6), 2801</p>	
<p><input type="checkbox"/> <a href="#">Application of Advanced Oxidation Processes for the Treatment of Color and Chemical Oxygen Demand of Pulp and Paper Wastewater</a> SA Magdi E. A. Zaki * ariq Javeed, Rab Nawaz *, <b>Sami A. Al-Hussain</b>, Ali ... Water 15 (5)</p>	
<p><input type="checkbox"/> <a href="#">Structure-Based Virtual Screening of Furan-1,3,4-Oxadiazole Tethered <i>N</i>-phenylacetamide Derivatives as Novel Class of hTYR and hTYRP1 Inhibitors</a> A Irfan, S Faisal, S Ahmad, <b>SA Al-Hussain</b>, S Javed, AF Zahoor, ... Pharmaceuticals 16 (3), 344</p>	
<p><input type="checkbox"/> <a href="#">Evaluating the Phytoremediation Potential of <i>Eichhornia crassipes</i> for the Removal of Cr and Li from Synthetic Polluted Water</a> MU Hayyat, R Nawaz, A Irfan, <b>SA Al-Hussain</b>, M Aziz, Z Siddiq, S Ahmad, ... International Journal of Environmental Research and Public Health 20 (4), 3512</p>	

- [Sustainable and Safe Treatment of Wastewater of Paint Industry Using \*Azadirachta indica\* Leaf Extract Combined with Silver Nitrate Solution](#)  
 MA Irshad, B Ali, A Irfan, **SA Al-Hussain**, R Nawaz, I Nasim, M Latif, ...  
 Sustainability 15 (4), 3592
- [In Vitro/In Vivo Evaluation of Clomipramine Orodispersible Tablets for the Treatment of Depression and Obsessive-Compulsive Disorder](#)  
 SA Ghumman, H Hameed, S Noreen, **SA Al-Hussain**, R Kausar, A Irfan, ...  
 Pharmaceuticals 16 (2), 265
- [Alginate-Based Sustainable Green Composites of Polymer and Reusable Birm for Mitigation of Malachite Green Dye: Characterization and Application for Water Decontamination](#)  
 N Iqbal, **SA Al-Hussain**, F Batool, A Mumtaz, A Irfan, S Noreen, ...  
 Sustainability 15 (4), 3194
- [BTEAC Catalyzed Ultrasonic-Assisted Synthesis of Bromobenzofuran-Oxadiazoles: Unravelling Anti-HepG-2 Cancer Therapeutic Potential through In Vitro and In Silico Studies](#)  
 A Irfan, AF Zahoor, A Rasul, **SA Al-Hussain**, S Faisal, S Ahmad, R Noor, ...  
 International Journal of Molecular Sciences 24 (3), 3008
- [Structure-Based Virtual Screening of Furan-Oxadiazole Derivatives as Novel Class of Human Tyrosinase Inhibitors](#)  
 BP Magdi E. A. Zaki \* Ali Irfan, Shah Faisal, Sajjad Ahmad, **Sami A. Al ...**  
 Pharmaceuticals 16 (2)
- [Fabrication of Composites of Sodium Alginate with Guar Gum and Iron Coated Activated Alumina for the Purification of Water from Direct Blue 86](#)  
 S Kanwal, A Irfan, **SA Al-Hussain**, G Sharif, A Mumtaz, F Batool, MEA Zaki  
 Coatings 13 (1), 103
- [An Insight into Carbon Nanomaterial-Based Photocatalytic Water Splitting for Green Hydrogen Production](#)  
 MA Rasool, R Sattar, A Anum, **SA Al-Hussain**, S Ahmad, A Irfan, MEA Zaki  
 Catalysts 13 (1), 66
- [Green and Eco-Friendly Treatment of Textile Wastewater by Using \*Azadirachta indica\* Leaf Extract Combined with a Silver Nitrate Solution](#)  
 MA Irshad, MA Humayoun, **SA Al-Hussain**, R Nawaz, M Arshad, A Irfan, ...  
 Sustainability 15 (1), 81
- [Highly selective methodology for entrapment and subsequent removal of Cobalt \(II\) ions under optimized conditions by Micellar Enhanced Ultrafiltration](#)  
 MEAZ Hafiza Fatima Rehman Amnah Yusaf, Muhammad Usman \*, Matloob Ahmad ...  
 Molecules 27 (14)
- [Novel Set of Highly Substituted Bis-Pyridines: Synthesis, Molecular Docking and Drug-Resistant Antibacterial Profile](#)  
 Zeinab A. Muhammad Refaie M. Kassab , Magdi E. A. Zaki, Ahmed S. Abo Dena ...  
 Future Medicinal chemistry 14
- [Dry Grinding Synthesis and Docking Study of Cyclopentanone-Sulfur Containing Compounds with Anti-Proliferative Activity for HepG-2 and A-549 Cancer Cell Lines](#)  
 ZA Muhammad, TA Farghaly, **SA Al-Hussain**, MM Edrees, MEA Zaki, ...  
 Medicinal Chemistry 18 (10), 1086-1099

- [Cyclooxygenase-2 \(COX-2\) as a Target of Anticancer Agents: A Review of Novel Synthesized Scaffolds Having Anticancer and COX-2 Inhibitory Potentialities](#)  
NA Mohsin, S Aslam, M Ahmad, M Irfan, **SA Al-Hussain**, MEA Zaki  
Pharmaceuticals 15 (12), 1471
- [Design, Synthesis and Pharmacological Evaluation of 2-\(3-Benzoyl-4-Hydroxy-1,1-Dioxido-2H-Benzo\[e\]\[1,2\]thiazin-2-yl\)-N-\(2-Bromophenyl\) Acetamide as Antidiabetic Agent](#)  
SAAH Fatima Rashid , Matloob Ahmad , Usman Ali Ashfaq , Aamal A Al-Mutairi  
Drug Design, Development and Therapy 16, 4043–4060
- [Development of Ion Character Property Relationship \(IC-PR\) For Removal of 13-Metal ions by employing a novel Green adsorbent Aerva javanica](#)  
TI Magdi E. A. Zaki \* Fozia Batool \*, Ali Irfan, **Sami A. Al-Hussain**, Eida S ...  
Molecules 27 (23)
- [Pharmacophore synergism in diverse scaffolds clinches Aurora Kinase B](#)  
2022 VH Masand, **SA Al-Hussain**, MM Rathore, SD Thakur... - International ...  
International Journal of Molecular Science 23 (23), 14527
- [A Review Article on Synthesis of Different Types of Bioactive Spiropyrazole Derivatives](#)  
2022 TA Farghaly, **SA Al-Hussain**, MEA Zaki, NT Al-Qurashi... - Polycyclic ...  
polycyclic aromatic compound, <https://doi.org/10.1080/10406638.2022.21>
- [Green Chemistry in Organic Synthesis: Recent Update on Green Catalytic Approaches in Synthesis of 1, 2, 4-Thiadiazoles](#)  
L Rubab, A Anum, **SA Al-Hussain**, A Irfan, S Ahmad, S Ullah, ...  
Catalysts 12 (11), 1329
- [Hierarchical Polyaniline Core-Shell Nanocomposites Coated on Modified Graphite for Improved Electrical Conductivity Performance](#)  
A Naz, A Irfan, **SA Al-Hussain**, I Nawaz, S Faisal, R Sattar, MEA Zaki  
Nanomaterials 12 (21), 3776
- [Site-Selectivity of the Reaction of 3-Amino-4-Cyano-5-Phenyl-1H-Pyrrole-2-Carboxylic Acid Amide with  \$\alpha\$ -Halocarbonyl Compounds. Antimicrobial Activity and ...](#)  
GS Masaret, TA Farghaly, **SA Al-Hussain**, MEA Zaki, AMR Alsaedi, ...  
Polycyclic Aromatic Compounds, 1-17
- [The Synthesis, Antimicrobial Activity, and Molecular Docking of New 1, 2, 4-Triazole, 1, 2, 4-Triazepine, Quinoline, and Pyrimidine Scaffolds Condensed to Naturally Occurring ...](#)  
AA Abu-Hashem, **SA Al-Hussain**  
Pharmaceuticals 15 (10), 1232
- [Synthesis of Novel N-Methylmorpholine-Substituted Benzimidazolium Salts as Potential  \$\alpha\$ -Glucosidase Inhibitors](#)  
IA Khan, FA Saddique, S Aslam, UA Ashfaq, M Ahmad, **SA Al-Hussain**, ...  
Molecules 27 (18), 6012
- [System zur Herstellung von Salzen aliphatischer und aromatischer Aminosäuren aus landwirtschaftlichen Abfällen](#)  
R SA s: **Al-Hussain**, **Sami Abdul Aziz**, Riyadh, IN Gaddamwar, Amrut Gunwantrao ...  
DE Patent DE 20 2022 103 831 U1

- [QSAR, Molecular Docking, MD Simulation and MMGBSA Calculations Approaches to Recognize Concealed Pharmacophoric Features Requisite for the Optimization of ALK Tyrosine ...](#)  
AAAM Abdul Samad and V. H. Masand Rahul D. Jawarkar, Praveen Sharma ...  
Molecules 27 (15), 4951
- [Tackling Microbial Resistance with Isatin- Decorated Thiazole Derivatives: Design, Synthesis, and in vitro Evaluation of Antimicrobial and Antibiofilm activity](#)  
KA Zeinab Muhammad Refaie Kassab, **Sami Al-Hussain**, Nooran Elleboudy, Amgad ...  
Drug Design, Development and Therapy 16 (<https://doi.org/10.2147/DDDT> ...)
- [QSAR Evaluations to Unravel the Structural Features in Lysine-Specific Histone Demethylase 1A Inhibitors for Novel Anticancer Lead Development Supported by Molecular Docking ...](#)  
RD Jawarkar, RL Bakal, N Mukherjee, A Ghosh, MEA Zaki, **SA Al-Hussain**, ...  
Molecules 27 (15), 4758
- [Synthesis and Evaluation of Some New 4H-Pyran Derivatives as Antioxidant, Antibacterial and Anti-HCT-116 Cells of CRC, with Molecular Docking, Antiproliferative, Apoptotic and ...](#)  
ZMAHSO Nahed N. E. El-Sayed, Magdi E. A. Zaki, **Sami A. Al-Hussain**, Abir Ben ...  
Pharmaceuticals 15 (7), 891
- [Mechanistic Analysis of Chemically Diverse Bromodomain-4 Inhibitors Using Balanced QSAR Analysis and Supported by X-ray Resolved Crystal Structures](#)  
MEA Zaki, **SA Al-Hussain**, AA Al-Mutairi, VH Masand, A Samad, ...  
Pharmaceuticals 15 (6), 745
- [Identification of potent aldose reductase inhibitors as antidiabetic \(Anti-hyperglycemic\) agents using QSAR based virtual Screening, molecular Docking, MD simulation and MMGBSA ...](#)  
RL Bakal, RD Jawarkar, JV Manwar, MS Jaiswal, A Ghosh, A Gandhi, ...  
Saudi Pharmaceutical Journal 30 (6), 693-710
- [Synthesis of Spiropyrazoles Under Organic and Nonorganic Catalysis](#)  
TA Farghaly, **SA Al-Hussain**, MEA Zaki, BH Asghar, ZA Muhammad  
Current Organic Chemistry 26 (9), 834-856
- [Exploring the Prominent and Concealed Inhibitory Features for Cytoplasmic Isoforms of Hsp90 Using QSAR Analysis](#)  
MEA Zaki, **SA Al-Hussain**, SNA Bukhari, VH Masand, MM Rathore, ...  
Pharmaceuticals 15 (3), 303
- [Design, synthesis of new 1, 2, 4-triazole/1, 3, 4-thiadiazole with spiroindoline, imidazo \[4, 5-b\] quinoxaline and thieno \[2, 3-d\] pyrimidine from isatin derivatives as ...](#)  
AA Abu-Hashem, **SA Al-Hussain**  
Molecules 27 (3), 835
- [Repurposing food molecules as a potential BACE1 inhibitor for Alzheimer's disease](#)  
N Mukerjee, A Das, RD Jawarkar, S Maitra, P Das, MA Castrosanto, ...  
Frontiers in aging neuroscience 14
- [Design of promising green cation-exchange-membranes-based sulfonated pva and doped with nano sulfated zirconia for direct borohydride fuel cells](#)  
MH Gouda, NA Elessawy, **SA Al-Hussain**, A Toghian  
Polymers 13 (23), 4205

- [Synthesis and in-silico simulation of some new bis-thiazole derivatives and their preliminary antimicrobial profile: investigation of hydrazonoyl chloride addition to hydroxy ...](#)  
RM Kassab, SM Gomha, **SA Al-Hussain**, ASA Dena, MM Abdel-Aziz, ...  
Arabian Journal of Chemistry 14 (11), 103396
- [QSAR Based Virtual screening derived Identification of a Novel Hit as a SARS CoV-229E 3CLpro Inhibitor: GA-MLR QSAR modeling supported by Molecular Docking, Molecular Dynamics ...](#)  
IL V. H. Masand R. D. Jawarkar<sup>1</sup>, R. L. Bakal , Magdi E.A. Zaki, Sami Al ...  
Arabian Journal of Chemistry 14 (11), 103499
- [Identification of concealed structural alerts using QSTR modeling for Pseudokirchneriella subcapitata](#)  
VH Masand, MEA Zaki, **SA Al-Hussain**, AB Ghorbal, S Akasapu, I Lewaa, ...  
Aquatic Toxicology 239, 105962
- [QSAR analysis of sodium glucose co-transporter 2 \(SGLT2\) inhibitors for anti-hyperglycaemic lead development](#)  
A Gandhi, V Masand, MEA Zaki, **SA Al-Hussain**, AB Ghorbal, ...  
SAR and QSAR in Environmental Research 32 (9), 731-744
- [Quantitative Structure-Activity Relationship Evaluation of MDA-MB-231 Cell Anti-Proliferative Leads](#)  
A Gandhi, V Masand, MEA Zaki, **SA Al-Hussain**, AB Ghorbal, ...  
Molecules 26 (16), 4795
- [Mechanistic and Predictive QSAR Analysis of Diverse Molecules to Capture Salient and Hidden Pharmacophores for Anti-Thrombotic Activity](#)  
MEA Zaki, **SA Al-Hussain**, VH Masand, MK Sabnani, A Samad  
International Journal of Molecular Sciences 22 (15), 8352
- [Synthesis of antimicrobial azoloazines and molecular docking for inhibiting COVID-19](#)  
ZA Muhammad, TA Farghaly, I Althagafi, **SA Al-Hussain**, MEA Zaki, ...  
Journal of Heterocyclic Chemistry 58 (6), 1286-1301
- [Identification of anti-SARS-CoV-2 compounds from food using QSAR-based virtual screening, molecular docking, and molecular dynamics simulation analysis](#)  
MEA Zaki, **SA Al-Hussain**, VH Masand, S Akasapu, SO Bajaj, ...  
Pharmaceuticals 14 (4), 357
- [Balanced QSAR analysis to identify the structural requirements of ABBV-075 \(Mivebresib\) analogues as bromodomain and extraterminal domain \(BET\) family bromodomain inhibitor](#)  
VH Masand, MK Patil, NNE El-Sayed, MEA Zaki, Z Almarhoon, ...  
Journal of Molecular Structure 1229, 129597
- [Design, synthesis and anticancer activity of new polycyclic: Imidazole, thiazine, oxathiine, pyrrolo-quinoxaline and thienotriazolopyrimidine derivatives](#)  
AA Abu-Hashem, **SA Al-Hussain**, MEA Zaki  
Molecules 26 (7), 2031
- [QSAR and Pharmacophore Modeling of Nitrogen Heterocycles as Potent Human N-Myristoyltransferase \(Hs-NMT\) Inhibitors](#)  
MEA Zaki, **SA Al-Hussain**, VH Masand, S Akasapu, I Lewaa  
Molecules 26 (7), 1834

- [A Simple Synthesis of Some Novel Bi-Thiazoles as Anti-Tumor Agents](#)  
**SA Al-Hussain**  
 Egyptian Journal of Chemistry 64 (3), 1363-1370
- [Synthesis, spectroscopic and molecular docking studies of novel 10-heterylazo-9-anthrone derivatives as potential antimicrobial and anticancer agents](#)  
 HM Dardeer, AS Assran, SA Al-Hussain, A Toghan  
 Journal of Molecular Structure 1226, 129359
- [Fluorinated hydrazoneyl chlorides as precursors for synthesis of antimicrobial azoles](#)  
**SA Al-Hussain**, F Alshehrei, MEA Zaki, MF Harras, TA Farghaly, ...  
 Journal of Heterocyclic Chemistry 58 (2), 589-602
- [Discovery of novel indolyl-1, 2, 4-triazole hybrids as potent vascular endothelial growth factor receptor-2 \(VEGFR-2\) inhibitors with potential anti-renal cancer activity](#)  
**SA Al-Hussain**, TA Farghaly, MEA Zaki, HG Abdulwahab, NT Al-Qurashi, ...  
 Bioorganic Chemistry 105, 104330
- [Synthesis, Characterization, and Antimicrobial Evaluation of Some New 1,4-Dihydropyridine Hybrid with 1,3,4-Thiadiazole](#)  
 SM Gomha, ZA Muhammad, **SA Al-Hussain**, Zaki, Magdi.E.A., ...  
 Polycyclic Aromatic Compounds
- [Synthesis and Reactions of Perimidines and Their Fused Systems](#)  
 TA Farghaly, **SA Al-Hussain**, ZA Muhammad, MA Abdallah, MEA Zaki  
 Current Organic Chemistry 24 (15), 1669-1716
- [Synthesis of novel benzodifuranyl; 1, 3, 5-triazines; 1, 3, 5-oxadiazepines; and thiazolopyrimidines derived from visnaginone and khellinone as anti-inflammatory and analgesic ...](#)  
 AA Abu-Hashem, **SA Al-Hussain**, MEA Zaki  
 Molecules 25 (1), 220
- [Two-dimensional hydrogen-bonded crystal structure, hirshfeld surface analysis and morphology prediction of a new polymorph of 1H-nicotineamidium chloride salt](#)  
 H Ferjani, H Chebbi, A Guesmi, OS AlRuqi, SA Al-Hussain  
 Crystals 9 (11), 571
- [Application of new sodium vinyl Sulfonate-co-2-Acrylamido-2-methylpropane sulfonic acid sodium salt-magnetite cryogel nanocomposites for fast methylene blue removal from ...](#)  
**SA Al-Hussain**, AM Atta, HA Al-Lohedan, AO Ezzat, AM Tawfeek  
 Nanomaterials 8 (11), 878
- [New crosslinked poly \(ionic liquid\) cryogels for fast removal of methylene blue from waste water](#)  
 AM Atta, AO Ezzat, **SA Al-Hussain**, HA Al-Lohedan, AM Tawfeek, ...  
 Reactive and Functional Polymers 131, 420-429
- [In situ preparation of magnetite/cuprous oxide/poly\(AMPS/NIPAm\) for removal of methylene blue from waste water](#)  
 AM Atta, **SA Al-Hussain**, HA Al-Lohedan, AO Ezzat, AM Tawfeek, ...  
 Polymer International 67 (4), 471-480
- [Removal of organic water pollutant using magnetite nanomaterials embedded with ionic copolymers of 2-acrylamido-2-methylpropane sodium sulfonate cryogels](#)



**SA Al-Hussain**, AO Ezzat, AK Gaffer, AM Atta  
Polymer International 67 (2), 166-177

- [Characterization of superhydrophobic epoxy coatings embedded by modified calcium carbonate nanoparticles](#)  
AM Atta, HA Al-Lohedan, AO Ezzat, **SA Al-Hussain**  
Progress in Organic Coatings 101, 577-586
- [Delivery of ibuprofen by natural macroporous sporopollenin exine capsules extracted from Phoenix dactylifera L.](#)  
SM Alshehri, HA AL-lohedan, AA Chaudhary, E Al-Farraj, Alhokbany, N, ...  
Europan Journal of Pharmaceutical Sciences 88, 158-165
- [One-Pot Microwave Synthesis of Pyrimido \[4, 5-b\] quinoline and its C-and S-Glycosides with Anti-Inflammatory and Anticancer Activities.](#)  
HN Hafez, **SA Al-Hussain**, AR El-Gazzar  
Croatica Chemica Acta 89 (3)
- [Preparation of magnetite and manganese oxide ionic polymer nanocomposite for adsorption of a textile dye in aqueous solutions](#)  
AM Atta, HA Al-Hodan, **SA Al-Hussain**, AO Ezzat, AM Tawfik, ...  
Digest J Nanomater Biostruct 11 (3), 909-919
- [Novel pyrazole derivatives with oxa/thiadiazolyl, pyrazolyl moieties and pyrazolo \[4, 3-d\]-pyrimidine derivatives as potential antimicrobial and anticancer agents](#)  
HN Hafez, ARBA El-Gazzar, **SA Al-Hussain**  
Bioorganic & medicinal chemistry letters 26 (10), 2428-2433
- [Collection of petroleum crude oil spill pollutants from sea water using high magnetization antimicrobial biocompatible magnetite nanoparticles](#)  
A Atta, H Al-Lohedan, **S Al-Hussain**  
Dig. J. Nanomater. Bios 11, 185-197
- [A VERSATILE ONE-POT METHOD FOR THE SYNTHESIS OF AMPHIPHILIC BIOACTIVE MAGNETIC ROSIN COATED NANOPARTICLES AS OIL SPILL COLLECTOR.](#)  
AM Atta, HA Al-Lohedan, **SA Al-Hussain**  
Digest Journal of Nanomaterials & Biostructures (DJNB) 10 (3)
- [Interaction of human serum albumin with silver nanoparticles functionalized with polyvinylthiol](#)  
MS Ali, HA Al-Lohedan, AM Atta, AO Ezzat, **SAA Al-Hussain**  
Journal of Molecular Liquids 204, 248-254
- [Functionalization of magnetite nanoparticles as oil spill collector](#)  
AM Atta, HA Al-Lohedan, **SA Al-Hussain**  
International journal of molecular sciences 16 (4), 6911-6931
- [Application of eco-friendly magnetite nanoparticles coated with rosin amidoxime as corrosion inhibitor for mild steel in 1 M hydrochloric acid solution](#)  
AM Atta, GA El-Mahdy, HA Al-Lohedan, **SA Al-Hussain**  
Int. J. Electrochem. Sci 10, 2621-2633
- [Corrosion inhibition of mild steel in acidic medium by magnetite myrrh nanocomposite](#)  
AM Atta, GA El-Mahdy, HA Al-Lohedan, **SA Al-Hussain**  
International Journal of Electrochemical Science 9, 8446-8457

- [Synthesis of stabilized myrrh-capped hydrocolloidal magnetite nanoparticles](#)  
AM Atta, HA Al-Lohedan, **SA Al-Hussain**  
Molecules 19 (8), 11263-11278
- [Corrosion inhibition of nanocomposite based on acrylamide copolymers/magnetite for steel](#)  
AM Atta, GA El-Mahdy, HA Al-Lohedan, **SA Al Hussain**  
Digest Journal of Nanomaterials and Biostructures 9, 627-639
- [Synthesis of environmentally friendly highly dispersed magnetite nanoparticles based on rosin cationic surfactants as thin film coatings of steel](#)  
AM Atta, GA El-Mahdy, HA Al-Lohedan, **SA Al-Hussain**  
International journal of molecular sciences 15 (4), 6974-6989