Preface

Abdul Hameed Shoman Foundation (AHSF) is proud to present to you this first edition of the “Abdul Hameed Shoman Scientific Research Support Fund – List of Published Research Papers”. Between 2000 and 2016, our Fund provided over 1.5 Million Jordanian Dinars as direct support and leveraged over a quarter a million as contributions from Jordanian academic and research institutions in support of scientific research. This support went to 97 research projects from 17 institutions in Jordan and resulted in 88 published papers in peer reviewed journals. The supported research projects fall under various fields, namely; Medical & Health Sciences, Green Technology and Environmental Sustainability, Food Security and Agriculture Technology, Engineering Sciences, Economic Growth and Competitiveness, Culture, Arts, and Humanitarian and Social Sciences and Basic Sciences.

Published research is indeed a major player in knowledge enhancement and dissemination. Science-based policy making continues to be key in shaping the future of nations and socio-economic agendas for both public and private sectors. Through compiling and sharing this list, AHSF seeks to raise awareness among policy-makers, business leaders and civil society organizations of research outputs; hoping this would facilitate the utilization of such outputs in improving the quality of life and advancing further research and development in various sectors. Today, we aspire to maximize our Fund’s impact and focus its support on enabling scientific innovation through encouraging more applied and joint research, strengthening linkages with industry and other stakeholders, as well as tackling local socio-economic and environmental needs. AHSF holds its promise to continue to support scientific research and innovation and enabling stronger impact through a distinguished community of scientists and researchers.

Acknowledgment

The Abdul Hameed Shoman Foundation’s profound appreciation goes to researchers and partner institutions for allowing us to contribute to Jordan’s scientific research achievements.
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Culture, Arts, and Humanitarian and Social Sciences............................ 37
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Medical & Health Sciences
العلوم الطبية والصحية
1.1 The Latency and Reactivation of Temperature-Sensitive Mutants of Mouse Cytomegalovirus in Different Organs of Mice

Principal Investigator: Hazem Akel
Co-Investigator(s): Farouk Al-Quadan, Moh’d Al-Huniti, Suzan Al-Oreib, Moh’d Ghalib and Sheerin Issa.
Publisher: Jordan Journal of Biological Sciences
Research Institute(s): Hashemite University
Year of Publishing: 2008
Volume, Page(s): 1(3): 116 – 123

1.2 Autoantibodies against oxidized LDL correlate with serum concentrations of ceruloplasmin in patients with cardiovascular disease

Principal Investigator: Samir M.Awadallah
Co-Investigator(s): Mawieh Hamad, Ibrahim Jbarah, Nuha M. Salem, Mohammad S. Mubarak
Publisher: Clinica Chimica Acta
Research Institute(s): Hashemite University, The Royal Medical Services, University of Jordan
Year of Publishing: 2006
Volume, Page(s): 365: 330-336

1.3 Biodegradation of 2,4-dichlorophenol originating from pharmaceutical industries

Principal Investigator: AZ Elkarmi
Co-Investigator(s): KH Abu-Elteen, AA Atta, NA Abu-Sbitan
Publisher: African Journal of Biotechnology
Research Institute(s): Hashemite University
Year of Publishing: 2008
Volume, Page(s): 8(11): 2558-2564

1.4 Alpha amylase inhibitory activity of some plant extracts with hyporrlvcemic activity

Principal Investigator: Imad I. Hamdan
Co-Investigator(s): Rawand S. Abu Soud, Fatma U. Afifi
Publisher: Scientia Pharmaceutica - The Austrian Journal of Pharmaceutical Sciences
Research Institute(s): The University of Jordan
Year of Publishing: 2004
Volume, Page(s): 72: 25-33
http://www.mdpi.com/2218-0532/72/1/3

1.5 A qualitative content analysis of self-treated diabetic foot problems in Jordan

Principal Investigator: Ma'en Zaid Abu-Qamar
Co-Investigator(s): Anne Wilson
Publisher: The Diabetic Foot Journal
Research Institute(s): University of Mu’tah, Flinders University of South Australia
Year of Publishing: 2017
Volume, Page(s): 20(2): 109–13

1.6 Diabetic foot examination: findings of a screening survey performed in Jordan

Principal Investigator: Ma’en Zaid Abu-Qamar
Co-Investigator(s): -
Publisher: Eur Diabetes Nursing
Research Institute(s): University of Mu’tah
Year of Publishing: 2012
Volume, Page(s): 9(3): 75-80
1.10 The Impact of Adenosine A2B Receptors Modulation on Nuclear Receptors (NR4A) Gene Expression

Principal Investigator: Mansour Haddad
Co-Investigator(s): -
Publisher: Biomedical & Pharmacology Journal
Research Institute(s): Philadelphia University
Year of Publishing: 2016
Volume, Page(s): 9(1): 177-185
http://biomedpharmajournal.org/vol9no1/the-impact-of-adenosine-a2b-receptors-modulation-on-nuclear-receptors-nr4a-gene-expression/

1.11 The Impact of Adenosine A2BP Receptors Modulation on Peroxisome Proliferator-activated Receptor Gamma Co-activator 1-alpha and Transcription Factors

Principal Investigator: Mansour Haddad
Co-Investigator(s): -
Publisher: International Journal of Pharmaceutical Sciences and Research
Research Institute(s): Philadelphia University
Year of Publishing: 2016
Volume, Page(s): 7(12): 4762-4776

1.12 The Effect of NECA, CGS 21680, PSB 603 on Fatty Acid Transport and Oxidation in Skeletal Muscle Cells

Principal Investigator: Mansour Haddad
Co-Investigator(s): -
Publisher: International Journal of Pharmaceutical Sciences and Research
Research Institute(s): Philadelphia University
Year of Publishing: 2016
Volume, Page(s): 7(12): 4827-4838
1.13 The Impact of Adenosine A2B Receptors on Glycolysis and Insulin Resistance in Skeletal Muscle

Principal Investigator: Mansour Haddad
Co-Investigator(s): -
Publisher: International Journal of Pharmaceutical Sciences and Research
Research Institute(s): Philadelphia University
Year of Publishing: 2016
Volume, Page(s): 7(12): 4917-4926

1.14 Adenosine A2B Receptors - Mediated Induction of Interleukin-6 in Skeletal Muscle Cells

Principal Investigator: Mansour Haddad
Co-Investigator(s): -
Publisher: Turk Journal of Pharmaceutical Science
Research Institute(s): Philadelphia University
Year of Publishing: 2017
Volume, Page(s): 14(1): 19-28

1.15 Saliva versus Plasma Relative Bioavailability of Tolterodine in Humans: Validation of Class III Drugs of the Salivary Excretion Classification System

Principal Investigator: N. Idkaidek
Co-Investigator(s): N. Najib, I. I. Salem, O. Najib
Publisher: Drug Res
Research Institute(s): University of Petra, International Pharmaceutical Research Center
Year of Publishing: 2016
Volume, Page(s): 66: 1-4

1.16 Knowledge, attitudes, beliefs and patterns of water pipe use among Jordanian adults who exclusively smoke water pipes

Principal Investigator: Nidal F Eshah
Co-Investigator(s): Erika S Froelicher
Publisher: European Journal of Cardiovascular Nursing
Research Institute(s): Zarqa University, University of California San Francisco
Year of Publishing: 2017
Volume, Page(s): 17(1):85-92
http://journals.sagepub.com/doi/full/10.1177/1474515117719592

1.17 “Sleepless Nights and Sore Operation Site”: Patients’ Experiences of Nursing Pain Management After Surgery in Jordan

Principal Investigator: Noordeen Shoqirat
Co-Investigator(s): -
Publisher: the American Society for Pain Management Nursing
Research Institute(s): Mu’tah University
Year of Publishing: 2014
Volume, Page(s): 15(3): 609-618

1.18 ‘We are nurses, they are doctors’: Barriers to nurses’ roles in pain management following surgery in Jordan

Principal Investigator: Noordeen Shoqirat
Co-Investigator(s): -
Publisher: International Journal of Nursing Practice
Research Institute(s): Mu’tah University
Year of Publishing: 2014
Volume, Page(s): 21(2):200-6

1.19 Discovery of new human epidermal growth factor receptor-2 (HER2) inhibitors for potential use as anticancer agents via ligand-based pharmacophore modeling

Principal Investigator: Hiba Zalloum
Co-Investigator(s): Rabab Tayyem, Basha’er Abu-Irmaileh, Yasser Bustanji, Malek Zihlif, Mohammad Mohammad, Talal Abu Raji, Mohammad S. Mubarak
Publisher: Journal of Molecular Graphics and Modelling
Research Institute(s): University of Jordan
Year of Publishing: 2015
Volume, Page(s): 61: 61-84
Green Technology and Environmental Sustainability
التكنولوجيا الخضراء والاستدامة البيئية
2.1 Applying contingent valuation to measure the economic value of forest services: a case study in Northern Jordan

Principal Investigator: Amani Abdullah Al-Assaf
Co-Investigator(s): -
Publisher: International Journal of Sustainable Development & World Ecology
Research Institute(s): University of Jordan
Year of Publishing: 2015

2.2 Identifying forest ecosystem services through socio-ecological bundles: a case study from northern Jordan

Principal Investigator: Amani Al-assaf
Co-Investigator(s): Oraib Nawash & Mohammad Omari
Publisher: International Journal of Sustainable Development & World Ecology
Research Institute(s): University of Jordan
Year of Publishing: 2014
Volume, Page(s): 21(4): 314-321
https://www.tandfonline.com/doi/abs/10.1080/13504509.2014.919968

2.3 Floristic Features, Distribution, and Ethnobotany of Plants Gathered and used by Local People from the Mediterranean Forest in Northern Jordan

Principal Investigator: Amani Al-Assaf
Co-Investigator(s): Oraib Saleh Nawash, Ahmad El-Oqlah, and Mohammad Omari
Publisher: Ethnobotany Research & Applications
Research Institute(s): University of Jordan, Royal Botanic Garden, Yarmouk University
Year of Publishing: 2014
Volume, Page(s): 12: 385-396
https://www.semanticscholar.org/paper/Floristic-Features-%2C-Distribution-%2C-and-Ethnobotany-Nawash-Al-Assaf/6d999fb176b2b03b732092c0795e9f5709100b

2.4 Spatial mapping of the social value of forest services: A case study of northern Jordan

Principal Investigator: Amani A. Al-Assaf
Co-Investigator(s): Yolla Y. Al-Asmar, Bart D. Johnsen-Harrisc, and Marwan M. Al-Raggad
Publisher: JOURNAL OF SUSTAINABLE FORESTRY
Research Institute(s): University of Jordan, Al-Balqa Applied University, Masar Center (Amman)
Year of Publishing: 2016
Volume, Page(s): 35(7): 469–485
https://www.tandfonline.com/doi/abs/10.1080/10549811.2016.1212381

2.5 Prospects of Geothermal Energy Utilization in Jordan

Principal Investigator: BILAL AKASH
Co-Investigator(s): A. AL-SARKHI, E. ABU-NADA, S. NJIMEH, and I. AL-HINTI
Publisher: Energy Sources – Taylor & Francis
Research Institute(s): Hashemite University
Year of Publishing: 2008
Volume, Page(s): 30: 1619–1627
https://www.tandfonline.com/doi/abs/10.1080/15567030701436388

2.6 Geochemical dissociation of major and trace elements in bed and suspended sediment phases of the phosphate mines effluent water, Jordan

Principal Investigator: Tayel El-Hasan
Co-Investigator(s): -
Publisher: Environmental Geology - Springer
Research Institute(s): Mu’tah University
Year of Publishing: 2006
Volume, Page(s): 51(4): 621-629
2.7 Evaluation of the Effluent Water Quality Produced at Phosphate Mines in Central Jordan

Principal Investigator: Tayel El-Hasan
Co-Investigator(s): Anwar Jiries, Mohammad Al-Hweiti, and Klaus-Peter Seiler
Publisher: Mine Water and the Environment
Research Institute(s): Mu’tah University, Jordanian Phosphate Mining Co, National Research Center for Environment and Health (Neuherberg, Germany)
Year of Publishing: 2004
Volume, Page(s): 23: 133–137

2.8 Biomass Energy Utilization in Northeast Badia of Jordan

Principal Investigator: Mohammad Al-Smairan
Co-Investigator(s): Sura Al-Harahsheh, and Hassan Al-Khazaleh
Publisher: Research Journal of Applied Sciences, Engineering and Technology
Research Institute(s): Al al-Bayt University
Year of Publishing: 2015
Volume, Page(s): 10(11): 1322-1329

2.9 Desalination and hot water production using solar still enhanced by external solar collector

Principal Investigator: Mousa Abu Arabi
Co-Investigator(s): Hasan Mousa
Publisher: Desalination and Water Treatment – Taylor & Francis
Research Institute(s): Jordan University of Science and Technology
Year of Publishing: 2015
Volume, Page(s): 51(4-6): 1296-1301
https://www.tandfonline.com/doi/abs/10.1080/19443994.2012.699237

2.10 A GIS Database for Sustainable Management of Shallow Water Resources in the Tulul al Ashaqif Region, NE Jordan

Principal Investigator: Nizar Abu-Jaber
Co-Investigator(s): Khaldoon Al-Qudah
Publisher: Water Resource Management - Springer
Research Institute(s): Yarmouk University
Year of Publishing: 2009
Volume, Page(s): 23: 603–615
https://link.springer.com/article/10.1007/s11269-008-9290-4
Food Security and Agriculture Technology
الأمن الغذائي والتكنولوجيا الزراعية
3.1 Multi Floral Honey Has a Protective Effect against Mammary Cancer induced by 7,12-Dimethylbenz(a)anthracene in Sprague Dawley Rats

Principal Investigator: Hamed R. Takruri
Co-Investigator(s): Maha S. Shomaif & Saida F. Shnaigat
Publisher: Journal of Agricultural Science - Canadian Center of Science and Education
Research Institute(s): University of Jordan
Year of Publishing: 2017
Volume, Page(s): 9(2): 196-204

3.2 Effect of feeding cellulase enzyme on productive responses of pregnant and lactating ewes and goats

Principal Investigator: Husam Titi
Co-Investigator(s): W.F. Lubbadeh
Publisher: Small Ruminant Research – ELSEVIER
Research Institute(s): University of Jordan
Year of Publishing: 2004
Volume, Page(s): 52: 137–143
https://www.sciencedirect.com/science/article/pii/S0921448803002542

3.3 Effect of long-term rumen-protected methionine supplementation on performance of Shami goats and growth performance of their kids

Principal Investigator: Husam Titi
Co-Investigator(s): -
Publisher: Animal Production Science - CSIRO PUBLISHING
Research Institute(s): University of Jordan
Year of Publishing: 2017
Volume, Page(s): 57: 1713–1718

3.4 Molecular identification of Salmonella isolates from poultry and meat products in Irbid City, Jordan

Principal Investigator: Hanan Issa Malkawi
Co-Investigator(s): -
Publisher: World Journal of Microbiology & Biotechnology
Research Institute(s): Yarmouk University
Year of Publishing: 2003
Volume, Page(s): 19: 455–459

3.5 Antioxidant activity of water and alcohol extracts of chamomile flowers, anise seeds and dill seeds

Principal Investigator: Khalid Mohammad Al-Ismail
Co-Investigator(s): Talal Aburjai
Publisher: Journal of the Science of Food and Agriculture
Research Institute(s): University of Jordan
Year of Publishing: 2004
Volume, Page(s): 84: 173–178

3.6 Evaluation of Genetic Diversity among Jordanian Pomegranate Landraces by Fruit Characteristics and Molecular Markers

Principal Investigator: Saed Joseph Owais
Co-Investigator(s): Adel H. Abdel-Ghani
Publisher: International Journal of Agriculture and Biology
Research Institute(s): Mu’tah University
Year of Publishing: 2016
Volume, Page(s): 18(2): 393-402
http://www.fspublishers.org/published_papers/91664_.pdf
3.7 Phenotypic and Molecular Screening of Apple Genotypes to Woolly Apple Aphid Resistance

Principal Investigator: Saeid ABU-ROMMAN
Co-Investigator(s): Mazen ATEYYAT
Publisher: Notulæ Botanicae Horti Agrobotanici Cluj-Napoca
Research Institute(s): Al-Balqa’ Applied University
Year of Publishing: 2014
Volume, Page(s): 42(1):99-103

3.8 Detection of genetically modified material in feed and foodstuffs containing soy and maize in Jordan

Principal Investigator: Saqer M. Herzallah
Co-Investigator(s): -
Publisher: Journal of Food Composition and Analysis – ELSEVIER
Research Institute(s): Mu’tah University
Year of Publishing: 2012
Volume, Page(s): 26: 169–172

3.9 Chemical and Sensory Quality of Olive Oil Stored at Room Temperature

Principal Investigator: Ali Kamil Alsaed
Co-Investigator(s): Khalid Al-Ismail and Isra Muatasem Deranyia
Publisher: Jordan Journal of Agricultural Sciences
Research Institute(s): University of Jordan
Year of Publishing: 2012
Volume, Page(s): 8(1): 114-126
https://journals.ju.edu.jo/JJAS/article/view/2936

3.10 Effect of the Type of Water Used in Irrigation of Olive Trees on the Storability of Olive Oil at Room Temperature

Principal Investigator: Ali Kamil Alsaed
Co-Investigator(s): Khalid Al-Ismail and Isra Muatasem Deranyia
Publisher: Pakistan Journal of Nutrition
Research Institute(s): University of Jordan
Year of Publishing: 2012
Volume, Page(s): 11(8): 794-797
https://scialert.net/abstract/?doi=pjn.2012.794.797

3.11 Seasonal variation in body fat and weight of migratory Sylvia Warblers in central Jordan

Principal Investigator: Fares Khoury
Co-Investigator(s): -
Publisher: Die Vogelwarte
Research Institute(s): Hashemite University
Year of Publishing: 2004
Volume, Page(s): 42: 191-202

3.12 Phenology of passerine migration in central Jordan

Principal Investigator: Fares Khoury
Co-Investigator(s): -
Publisher: Sandgrouse - Ornithological Society of the Middle East
Research Institute(s): Hashemite University
Year of Publishing: 2003
Volume, Page(s): 25(2): 132-142
3.13 Effect of Direct-fed Microbial (DFM) ® Supplements on General Performance of Newborn Awassi Lamb

Principal Investigator: Mutassim Mohamed Abdelrahman
Co-Investigator(s): -
Publisher: Egyptian Journal of Sheep and Goat Research Institute(s): Mu'tah University
Year of Publishing: 2010
Volume, Page(s): 5(1): 249-266

3.14 Functions of Duckweed as a Natural Water Purifying Agent and as a Feed Source for Laying Hens

Principal Investigator: Maisa’a W. SHAMMOUT
Co-Investigator(s): Hana ZAKARIA
Publisher: Mathematical, Computational and Statistical Sciences and Engineering, DEStech Publications
Research Institute(s): University of Jordan
Year of Publishing: 2016
Volume, Page(s): -

3.15 Water Lentils (Duckweed) in Jordan Irrigation Ponds as a Natural Water Bioremediation Agent and Protein Source for Broilers

Principal Investigator: Maisa’a W. SHAMMOUT
Co-Investigator(s): Hana ZAKARIA
Publisher: Ecological Engineering
Research Institute(s): University of Jordan
Year of Publishing: 2015
Volume, Page(s): 83:71-77

3.16 Water Quality and Growth Trend of Aquatic Plant Duckweed: Management and Benefits

Principal Investigator: Maisa’a W. SHAMMOUT
Co-Investigator(s): Hana ZAKARIA
Publisher: Proceedings of the 2014 International Conference on Environmental Engineering and Computer Application (ICEECA 2014)
Research Institute(s): University of Jordan
Year of Publishing: 2015
Volume, Page(s): 85 -87

3.17 Wild Water Lentils Plant (Duckweed, Lemna sp.) in Nutrients Removal of Jordan’s Irrigation Ponds

Principal Investigator: Maisa’a W. SHAMMOUT
Co-Investigator(s): Hana ZAKARIA
Publisher: Proceedings of the 2013 International Conference on Biomedical Engineering and Environmental Engineering
Research Institute(s): University of Jordan
Year of Publishing: 2014
Volume, Page(s): 145: 525-531

3.18 Application of polymerase chain reaction for detection of camels’ milk adulteration by milk of cow

Principal Investigator: Nida Salem
Co-Investigator(s): Monther Sadder, Amany Abdeen
Publisher: Current Opinion in Biotechnology
Research Institute(s): University of Jordan
Year of Publishing: 2011
Volume, Page(s): 22(1): 594
Engineering Sciences
العلوم الهندسية
4.1 The Performance of NANO Adsorption Solar Cooling Generator Unit

Principal Investigator: Mohammed Awwad Al-Dabbas
Co-Investigator(s): -
Publisher: IEEE - 1st International Conference & Exhibition on the Applications of Information Technology to Renewable Energy Processes and Systems
Research Institute(s): Mutah University
Year of Publishing: 2013
Volume, Page(s): 55-59
Economic Growth and Competitiveness
النمو الاقتصادي والتنافسيّة
5.1 Determine the socio-economic factors affecting on the rate of unemployment and the standard of living in Tafileh municipality from Hashemite Kingdom of Jordan

Principal Investigator: Basheer A., Zubi
Co-Investigator(s): Doukhi A., Hunaiti
Publisher: Dirasat: Administrative Sciences – University of Jordan
Research Institute(s): Mutah University¹, University of Jordan²
Year of Publishing: 2011
Volume, Page(s): 38(2): 434-453
https://journals.ju.edu.jo/DirasatAdm/article/view/3215
Culture, Arts, and Humanitarian and Social Sciences
 الثقافة والفنون والعلوم الإنسانية والاجتماعية
6.1 The Trends of Young People on Drugs Field Study in Governorate of Ma’an
Principal Investigator: Basem Al-Twaysi
Co-Investigator(s): Mohammad Al-Nasrat, Abdulrazaq Al-Ma’ani and Basheer Kraishan
Publisher: Dirasat, Humanitarian and Social Sciences – University of Jordan
Research Institute(s): University of Jordan
Year of Publishing: 2013
Volume, Page(s): 40(2): 278-294
https://journals.ju.edu.jo/DirasatHum/article/view/4731

6.2 The reality of people with disabilities in Al-Hussienieh and Al-Shobak at Southern Jordan
Principal Investigator: Mohammad Nasart
Co-Investigator(s): Naser Abu-Zaytoon
Publisher: Al-Hussein Bin Talal University’s Journal for Studies
Research Institute(s): Al-Hussein Bin Talal University
Year of Publishing: 2017
Volume, Page(s): 3(2)

6.3 Development of Improved Automatic Music Transcription System for the Arabic Flute (NAY)
Principal Investigator: Majed A. Al-Taee(1)
Co-Investigator(s): F. M. Al-Ghawanmeh(1), I. F. Jafar(1), M. T. Al-Ghawanmeh(2), Z. J. Muhsin(1)
Publisher: IEEE - Eighth International Multi-Conference on Systems, Signals & Devices
Research Institute(s): University of Jordan1, Al-Yarmouk University2
Year of Publishing: 2012
Volume, Page(s): 1-5

6.4 Predictors of Intention to Quit Smoking Among Jordanian University Students
Principal Investigator: Wasileh Petro-Nustas1
Co-Investigator(s): Linda G. Haddad2
Publisher: Canadian Journal of Public Health
Research Institute(s): Jordan University1, Jordan University of Science & Technology2
Year of Publishing: 2006
Volume, Page(s): 97(1): 9-13
https://www.jstor.org/stable/41994667
Basic Sciences

العلوم الأساسية
7.1 Prevention of scale deposition on thermal desalination tubes by surface treatment

Principal Investigator: Aiman Eid Al-Rawajfeh
Co-Investigator(s): Ghada A. Al Bazedi, Ubeidulla Al-Qawabeha, Amimul Ahsan
Publisher: Journal of Desalination and Water Purification
Research Institute(s): Tafila Technical University¹, National Research Centre of Egypt², University Putra Malaysia¹³⁴
Year of Publishing: 2016
Volume, Page(s): 5: 3-9

7.2 Enhancement of hardness and chloride removal and reduction of Cl₂ release and corrosion in electrodeionization units

Principal Investigator: Aiman Eid Al-Rawajfeh
Co-Investigator(s): -
Publisher: Journal of Water Process Engineering
Research Institute(s): Tafila Technical University
Year of Publishing: 2015
Volume, Page(s): 5: 160-165

7.3 Adsorption desalination of chloride ions on composite natural–synthetic materials: An approach for the reduction of chlorine corrosion in electrodeionization units

Principal Investigator: Aiman Eid Al-Rawajfeh¹²
Co-Investigator(s): Ehab M. Al-Shamaileh¹³⁴, Khaldoon Al-Whooosh¹, Ala'a Al-Ma'abrah⁴, Ramzi Al-Zorqan¹, Rana Zanoon¹, Khalid Rawajfeh¹ and Saleh Al-Jufout¹
Publisher: Research Institute(s): Tafila Technical University¹, Jordan Atomic Energy Commission², University of Jordan³, Salman bin Abdulaziz University⁴
Year of Publishing: 2013
Volume, Page(s): 19: 1895–1902

7.4 Recent Patents of Natural Zeolites Applications in Environment, Agriculture and Pharmaceutical Industry

Principal Investigator: Aiman Al-Rawajfeh¹
Co-Investigator(s): Reyad Al Dwairi²
Publisher: Recent Patents on Chemical Engineering
Research Institute(s): Tafila Technical University¹, Energy and Oil Shale Research Center²
Year of Publishing: 2012
Volume, Page(s): 5: 20-27
https://www.eurekaselect.com/96934/article

7.5 Removal of Cobalt and Nickel from Wastewater by Using Jordan Low-cost Zeolite and Bentonite

Principal Investigator: Aiman Al-Rawajfeh¹
Co-Investigator(s): Reyad Al Dwairi²
Publisher: Journal of the University of Chemical Technology and Metallurgy,
Research Institute(s): Tafila Technical University¹, Energy and Oil Shale Research Center²
Year of Publishing: 2012
Volume, Page(s): 47(1): 69-76
http://dl.uctm.edu/journal/node/j2012-1/8_Al_Dwairi%20%2069-76.pdf

7.6 Pre-treatment of Desalination Feed Seawater by Jordanian Tripoli, Pozzolana and Feldspar: Batch Experiments

Principal Investigator: Aiman Al-Rawajfeh¹
Co-Investigator(s): Khaldoon Al-Whooosh, Reyad Al Dwairi, Ahmad Al-Maaberah, Amer Tarawneh
Publisher: Association of the Chemical Engineers of Serbia
Research Institute(s): Tafila Technical University
Year of Publishing: 2011
Volume, Page(s): 17 (2): 163-17
https://www.ingentaconnect.com/content/doaj/14519372/2011/00000017/00000002/art00006?crawler=true
7.7 Exploring the Active Center of the LSD1/CoREST Complex by Molecular Dynamics Simulation Utilizing Its Co-crystallized Co-factor Tetrahydrofolate as a Probe

Principal Investigator: Waleed A. Zalloum¹
Co-Investigator(s): Hiba M. Zalloum²
Publisher: Journal of Chemical Information & Modeling
Research Institute(s): American University of Madaba¹, University of Jordan²
Year of Publishing: 2017
Volume, Page(s): 57: 3022-3031
https://pubs.acs.org/doi/abs/10.1021/acs.jcim.7b00256

7.8 Viscosity and Density of the Ternary Solution of Magnesium Chloride + Sodium Chloride + Water from (298.15 to 318.15) K

Principal Investigator: Hazim A. Qiblawey¹
Co-Investigator(s): Basim Abu-Jdayil²
Publisher: Journal of Chemical Engineering Data – American Chemical Society
Research Institute(s): Qatar University¹, Jordan University of Science and Technology¹ and United Arab Emirates University²
Year of Publishing: 2010
Volume, Page(s): 55: 3322-3326
https://pubs.acs.org/doi/abs/10.1021/je100111w

7.9 Solvent effect on thermal degradation of plasticized para-substituted polystyrenes

Principal Investigator: Khaled Al Ani
Co-Investigator(s): Musa Al Barghouthi, Manal Al Buzour
Publisher: Polymer Degradation and Stability - ELSEVIER
Research Institute(s): Hashemite University
Year of Publishing: 2006
Volume, Page(s): 91: 3252-325

7.10 Cytokine and Antibody Response to Immunization of BALB/C Mice with E. Granulosus Using Various Routes

Principal Investigator: Khaled M. Al-Qaoud
Co-Investigator(s): Laiali T. Al-Quraan, Sami K. Abdel-Hafez
Publisher: Jordan Journal of Biological Sciences
Research Institute(s): Yarmouk University
Year of Publishing: 2008
Volume, Page(s): 1(3): 109-115

7.11 Preliminary investigations into the use of Jojoba oil as a possible collector in phosphate flotation

Principal Investigator: Salah Al-Thyabat
Co-Investigator(s): M. Harareh, K. Tarawneh, H. Al-Zoubi
Publisher: Beneficiation & Mining Journal
Research Institute(s): Al-Hussein Bin Talal University
Year of Publishing: 2011
Volume, Page(s): -
https://www.researchgate.net/publication/282656236_Preliminary_investigations_into_the_use_of_jojoba_oil_as_a_possible_collector_in_phosphate_flotation

7.12 External and internal radiation doses due to alpha activity in Tafila district, Jordan

Principal Investigator: Abdul-Wali Ajlouni¹
Co-Investigator(s): Mahmoud K. Kullab² and Kholoud M. Kharisat²
Publisher: International Journal of Low Radiation
Research Institute(s): Ministry of Energy and Mineral Resources¹, Yarmouk University²
Year of Publishing: 2011
Volume, Page(s): 8: 355-362
7.13 Biosorption of Ni(II) from electroplating wastewater by modified (Eriobotrya japonica) loquat bark

Principal Investigator: Akel M. Awwad¹
Co-Investigator(s): Nida M. Salem²
Publisher: Journal of Saudi Chemical Society
Research Institute(s): Royal Scientific Society¹, University of Jordan²
Year of Publishing: 2011
Volume, Page(s): 18: 379-386

7.14 Kinetics and thermodynamics of Cd(II) biosorption onto loquat (Eriobotrya japonica) leaves

Principal Investigator: Akel M. Awwad¹
Co-Investigator(s): Nida M. Salem²
Publisher: Journal of Saudi Chemical Society
Research Institute(s): Royal Scientific Society¹, University of Jordan²
Year of Publishing: 2011
Volume, Page(s): 18: 486-493

7.15 Phytochemical fabrication and characterization of silver/silver chloride nanoparticles using Albizia julibrissin flowers extract

Principal Investigator: Akel M. Awwad¹
Co-Investigator(s): Nida M. Salem², Qusay Ibrahim¹, Amany Abdeen¹
Publisher: Advanced Materials Letters Journal
Research Institute(s): Royal Scientific Society¹, University of Jordan²
Year of Publishing: 2015
Volume, Page(s): 6(8): 726-730
https://www.semanticscholar.org/paper/Phytochemical-fabrication-and-characterization-of-%2F-Awwad-Salem/c86300b364b6672d2c65b197719945bb8306923a

7.16 Noval approach for synthesis sulfur (S-NPs) nanoparticles using Albizia julibrissin fruits extract

Principal Investigator: Akel M. Awwad¹
Co-Investigator(s): Nida M. Salem², Amany Abdeen¹
Publisher: Advanced Materials Letters Journal
Research Institute(s): Royal Scientific Society¹, University of Jordan²
Year of Publishing: 2015
Volume, Page(s): 6(5): 432-435
https://www.vbripress.com/aml/articles/details/653/

7.17 Rapid and large-scale green synthesis of silver nanoparticles using Ailanthus altissima leaves extract

Principal Investigator: Akel M. Awwad¹
Co-Investigator(s): Nida M. Salem², Qusay Ibrahim¹
Publisher: Arab Journal of Physical Chemistry
Research Institute(s): Royal Scientific Society¹, University of Jordan²
Year of Publishing: 2016
Volume, Page(s): 3(1): 17-21
http://aphyschem.org/index.php/article/2359357

7.18 Phytochemical and Spectral Studies of Synthesis Sulfur Nanoparticles Using Sophora japonica Pods Extract

Principal Investigator: Akel M. Awwad¹
Co-Investigator(s): Nida M. Salem², Amany Abdeen¹
Publisher: Journal of Advances in Chemistry
Research Institute(s): Royal Scientific Society¹, University of Jordan²
Year of Publishing: 2015
Volume, Page(s): 11(3): 3426-3432
7.19 Biosorption of copper(II) and lead(II) ions from aqueous solutions by modified loquat (Eriobotrya japonica) leaves (MLL)
Principal Investigator: Akel M. Awwad
Co-Investigator(s): Nida M. Salem
Publisher: Journal of Chemical Engineering and Materials Science
Research Institute(s): Royal Scientific Society, University of Jordan
Year of Publishing: 2012
Volume, Page(s): 3(1): 7-17
http://www.academicjournals.org/journal/JCEMS/article-abstract/E0ABF832627

7.20 A Green and Facile Approach for Synthesis of Magnetite Nanoparticles
Principal Investigator: Akel M. Awwad
Co-Investigator(s): Nida M. Salem
Publisher: Nanoscience and Nanotechnology
Research Institute(s): Royal Scientific Society, University of Jordan
Year of Publishing: 2012
Volume, Page(s): 2(6): 208-213
http://article.sapub.org/10.5923.j.nn.20120206.09.html

7.21 A Novel Approach for Synthesis Magnetite Nanoparticles at Ambient Temperature
Principal Investigator: Akel M. Awwad
Co-Investigator(s): Nida M. Salem
Publisher: Nanoscience and Nanotechnology
Research Institute(s): Royal Scientific Society, University of Jordan
Year of Publishing: 2013
Volume, Page(s): 3(3): 35-39
http://article.sapub.org/10.5923.j.nn.20130303.01.html

7.22 New Route for Synthesis Magnetite Nanoparticles from Ferrous Ions and Pistachio Leaf Extract
Principal Investigator: Akel M. Awwad
Co-Investigator(s): Nida M. Salem, Ahmad L. Ahmad
Publisher: Nanoscience and Nanotechnology
Research Institute(s): Royal Scientific Society, University of Jordan
Year of Publishing: 2013
Volume, Page(s): 3(3): 48-51
http://article.sapub.org/10.5923.j.nn.20130303.03.html

7.23 Integrated Approach for Groundwater Exploration in Wadi Araba Using Remote Sensing and GIS
Principal Investigator: Ali El-Naqa
Co-Investigator(s): Nezar Hammouri, Khalil Ibrahim
Publisher: Jordan Journal of Civil Engineering
Research Institute(s): Hashemite University
Year of Publishing: 2009
Volume, Page(s): 3(3): 229
https://jjce.just.edu.jo/issues/show_paper.php?pid=95

7.24 Cyclopentadienyl tungsten complexes with thiocarboxylate and thiosulfonate ligands: Structures of CpW(CO)3SCOPh and CpW(CO)3SSO2-4-C6H4Cl
Principal Investigator: Mohammad El-khateeb
Co-Investigator(s): Helmar Gorls, Wolfgang Weigand
Publisher: Journal of Organo Metallic Chemistry
Research Institute(s): University of Jordan, Friedrich-Schiller University Jena
Year of Publishing: 2006
Volume, Page(s): 691(26): 5804-5808
https://www.sciencedirect.com/science/article/pii/S0022328X06008461
7.25 Analysis of the Effect of Temperature on the Resilient Modulus of Asphalt Concrete Mixed with Electric Arc Furnace Dust (EAFD)

Principal Investigator: M. A. Alsheyab
Co-Investigator(s): T. S. Khedaywi

7.26 Artificial neural network modeling of the drilling process of self-lubricated aluminum/alumina/graphite hybrid composites synthesized by powder metallurgy technique


7.27 Modelling the machinability of self-lubricated aluminum/alumina/graphite hybrid composites using a fuzzy subtractive clustering-based system identification method


7.28 Artificial neural network modeling of the drilling process of self-lubricated aluminum/alumina/graphite hybrid composites synthesized by powder metallurgy technique


7.29 Modelling the machinability of self-lubricated aluminum/alumina/graphite hybrid composites using a fuzzy subtractive clustering-based system identification method

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