

Abdul Hameed Shoman Scientific Research Support Fund

List of Published Research Papers
2000 – 2017





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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.



Medical & Health Sciences العُلوم الطبيّة والصحيّة

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-

Oreibi, 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

http://jjbs.hu.edu.jo/files/jjbsv1n3/5.pdf

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

Principal Investigator: Samir M.Awadallaha

Co-Investigator(s): MawiehHamadb, IbrahimJbarahc, Nuha M.Salemd,

Mohammad S.Mubarak^d

Publisher: Clinica Chimica Acta

Research Institute(s): Hashemite University^{a,b}, The Royal Medical

Services^c, University of Jordan^d Year of Publishing: 2006 Volume, Page(s): 365: 330-336

https://www.sciencedirect.com/science/article/pii/S0009898105005875

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

https://www.ajol.info/index.php/ajb/article/view/60773

1.4 Alpha amylase inhibitory activity of some plant extracts with hyporrlycemic 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-Qamar¹

Co-Investigator(s): Anne Wilson²
Publisher: The Diabetic Foot Journal

Research Institute(s): University of Mu'tah¹, Flinders University of

South Australia²

Year of Publishing: 2017 Volume, Page(s): 20(2): 109–13

http://dfj.woundsme.com/journal-content/view/a-qualitative-content-analysis-of-self-treated-diabetic-foot-problems-in-jordan

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

https://onlinelibrary.wiley.com/doi/abs/10.1002/edn.211

1.7 Jordanians with diabetes: a qualitative content analysis of footwear practices

Principal Investigator: Ma'en Zaid Abu-Qamar

Co-Investigator(s): -

Publisher: The Diabetic Foot Journal Research Institute(s): University of Mu'tah

Year of Publishing: 2015

Volume, Page(s): 18(3): 126-134

https://www.mutah.edu.jo/dar/ar/research/140.pdf

1.8 Knowledge and practice of foot self-care among Jordanians with diabetes: An interview-based survey study

Principal Investigator: Ma'en Zaid Abu-Qamar

Co-Investigator(s): -

Publisher: JOURNAL OF WOUND CARE Research Institute(s): University of Mu'tah

Year of Publishing: 2014

Volume, Page(s): 23(5): 247-254

https://www.magonlinelibrary.com/doi/10.12968/jowc.2014.23.5.247

1.9 Qualitative Content Analysis of Complementary Topical Therapies Used to Manage Diabetic Foot in Jordan

Principal Investigator: Ma'en Zaid Abu-Qamar¹

Co-Investigator(s): Anne Wilson²

Publisher: African Networks on Ethnomedicines

Research Institute(s): University of Mu'tah¹, Flinders University of

South Australia²

Year of Publishing: 2012 Volume, Page(s): 9(3):440-448

http://journals.sfu.ca/africanem/index.php/ajtcam/article/view/1500

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.

http://ijpsr.com/bft-article/the-impact-of-adenosine-a 2b-receptors-modulation-on-peroxisome-proliferator-activated-receptor-gamma-proliferator-gamma-proliferator-

co-activator-1-alpha-and-transcription-factors/

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

http://ijpsr.com/bft-article/the-effect-of-neca-cgs-21680-psb-603-on-decay and the property of the property

fatty-acid-transport-and-oxidation-in-skeletal-muscle-cells/

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

http://ijpsr.com/bft-article/the-impact-of-adenosine-a2b-receptors-

on-glycolysis-and-insulin-resistance-in-skeletal-muscle/

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

http://www.journalagent.com/z4/vi.asp?pdir=tjps&plng=eng&un=TJ

PS-08108

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. Idkaidek¹

Co-Investigator(s): N. Najib², I. I. Salem², O. Najib²

Publisher: Drug Res

Research Institute(s): University of Petra ¹, International

Pharmaceutical Research Center²

Year of Publishing: 2016 Volume, Page(s): 66: 1-4

https://www.ncbi.nlm.nih.gov/pubmed/27011385

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

Principal Investigator: Nidal F Eshah ¹ Co-Investigator(s): Erika S Froelicher ²

Publisher: European Journal of Cardiovascular Nursing

Research Institute(s): Zarqa University ¹, University of California San Francisco²

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

https://www.ncbi.nlm.nih.gov/pubmed/23911911?report=abstract

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

https://onlinelibrary.wiley.com/doi/abs/10.1111/ijn.12240

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 Rjai, 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

https://www.sciencedirect.com/science/article/pii/S1093326315300164

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

Volume, Page(s): 22(3): 242- https://www.tandfonline.com/doi/abs/10.1

080/13504509.2015.1004379250

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-Assaf¹

Co-Investigator(s): Oraib Saleh Nawash², Ahmad El-Oqlah³, and

Mohammad Omari ⁴

Publisher: Ethnobotany Research & Applications

Research Institute(s): University of Jordan^{1,4}, Royal Botanic Garden²,

Yarmouk University³ 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/6d999fb176b2b0

33b7323092c0795e9f5709100b

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

Principal Investigator: Amani A. Al-Assafa

Co-Investigator(s): Yolla Y. Al-Asmarb, Bart D. Johnsen-Harrisc, and

Marwan M. Al-Raggadd

Publisher: JOURNAL OF SUSTAINABLE FORESTRY

Research Institute(s): University of Jordan^{a,d}, Al-Balga Applied

University^b, Masar Center^c (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. NIJMEH, 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

https://link.springer.com/article/10.1007/s00254-006-0357-3

2.7 Evaluation of the Effluent Water Quality Produced at Phosphate Mines in Central Jordan

Principal Investigator: Tayel El-Hasan¹

Co-Investigator(s): Anwar Jiries², Mohammad Al-Hweiti³, and Klaus-

Peter Seiler⁴

Publisher: Mine Water and the Environment

Research Institute(s): Mu'tah University^{1,2}, Jordanian Phosphate Mining Co³, National Research Center for Environment and Health

(Neuherberg, Germany)⁴ Year of Publishing: 2004 Volume, Page(s): 23: 133–137

https://link.springer.com/article/10.1007/s10230-004-0053-z

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

http://maxwellsci.com/msproof.php?doi=rjaset.10.1829

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 الزراعيّة

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. Shomaf & Saida F. Shnaigat¹

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

http://www.ccsenet.org/journal/index.php/jas/article/view/64292

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/

50921448803002542

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

http://www.publish.csiro.au/an/an14862

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

https://link.springer.com/article/10.1023/A:1025113912366

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

https://onlinelibrary.wiley.com/doi/abs/10.1002/jsfa.1625

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: Notulae Botanicae Horti Agrobotanici Cluj-Napoca

Research Institute(s): Al-Balqa' Applied University

Year of Publishing: 2014 Volume, Page(s): 42(1):99-103

http://www.notulaebotanicae.ro/index.php/nbha/article/view/9460

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

Principal Investigator: Sager 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

https://www.sciencedirect.com/science/article/pii/

S088915751200021X

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

https://www.researchgate.net/publication/247342843_Seasonal_variation_in_body_fat_and_weight_of_migratory_Sylvia_Warblers_

in_central_Jordan

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

https://www.researchgate.net/publication/320235289_Phenology_of_spring_landbird_migration_through_Abu_Dhabi_island_United_

Arab_Emirates_2007-2014

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

http://www.easg.eg.net/pdf/5-1-2010/21.pdf

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): -

http://dpi-proceedings.com/index.php/dtcse/article/view/10943

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

https://www.sciencedirect.com/science/article/pii/

50925857415300598

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

https://www.researchgate.net/publication/284721774_Water_quality_and_growth_trend_of_aquatic_plant_duckweed_

Management_and_benefits

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

https://www.researchgate.net/publication/286437249_Wild_water_lentils_plant_Duckweed_Lemna_sp_in_nutrients_removal_of_

Jordan%27s_irrigation_ponds

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): S94

https://www.sciencedirect.com/science/article/pii/



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

https://ieeexplore.ieee.org/document/6588150/





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., Zubi¹ Co-Investigator(s): Doukhi A., Hunaiti²

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



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)

http://www.ahu.edu.jo/AHUJ/Issues/2348167 العد 202%20

203-2017_8_1_2018.pdf المجلد

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

https://ieeexplore.ieee.org/document/5993561/

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



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 Malaysia^{3,4}

Year of Publishing: 2016 Volume, Page(s): 5: 3-9

https://www.researchgate.net/publication/313025348_Prevention_of_scale_deposition_on_thermal_desalination_tubes_by_surface_treatment

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

https://www.sciencedirect.com/science/article/pii/S2214714414000671

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-Rawajfeh^{1,2}

Co-Investigator(s): Ehab M. Al-Shamaileh^{3,4}, Khaldoon Al-Whoosh¹, Ala'a Al-Ma'abrah¹, Ramzi Al-Zorqan¹, Rana Zanoon¹, Khalid Rawajfeh³ 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

https://www.sciencedirect.com/science/article/pii/S1226086X13000981

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-Rawajfeh

Co-Investigator(s): Khaldoon Al-Whoosh, 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/14519372/2011/0000

0017/00000002/art00006?crawler=true

7.7 Exploring the Active Center of the LSD1/CoREST Complex by Molecular Dynamics Simulation Utilizing Its Co-crystallized Cofactor 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 parasubstituted 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

https://www.sciencedirect.com/science/article/pii/

S0141391006002138

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

http://jjbs.hu.edu.jo/files/jjbsv1n3/4.pdf

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

https://www.inderscienceonline.com/doi/abs/10.1504/

IJLR.2011.047187

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

https://www.sciencedirect.com/science/article/pii/

S1319610311001487

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

https://www.sciencedirect.com/science/article/pii/

\$1319610311001906

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

https://cirworld.com/index.php/jac/article/view/869

7.19 Biosorption of copper(II) and lead(II) ions from aqueous solutions by modified loquat (Eriobotrya japonica) leaves (MLL)

Principal Investigator: Akel M. Awwad¹ Co-Investigator(s): Nida M. Salem²

Publisher: Journal of Chemical Engineering and Materials Science Research Institute(s): Royal Scientific Society¹, University of Jordan²

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. Awwad¹ Co-Investigator(s): Nida M. Salem²

Publisher: Nanoscience and Nanotechnology

Research Institute(s): Royal Scientific Society¹, University of Jordan²

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. Awwad¹ Co-Investigator(s): Nida M. Salem²

Publisher: Nanoscience and Nanotechnology

Research Institute(s): Royal Scientific Society¹, University of Jordan²

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. Awwad¹

Co-Investigator(s): Nida M. Salem², Ahmad L. Ahmad¹

Publisher: Nanoscience and Nanotechnology

Research Institute(s): Royal Scientific Society¹, University of Jordan²

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-khateeb¹

Co-Investigator(s): Helmar Gorls², Wolfgang Weigand² Publisher: Journal of Organo Metallic Chemistry

Research Institute(s): University of Jordan¹, Friedrich-Schiller

University Jena²

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. Alsheyab¹ Co-Investigator(s): T. S. Khedaywi² Publisher: Water Air Soil Pollution

Research Institute(s): Qatar Foundation¹, Jordan University of Science

and Technology²

Year of Publishing: 2016 Volume, Page(s): 227:80

https://link.springer.com/article/10.1007/s11270-016-2776-4

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

Principal Investigator: Mohammed T. Hayajneh

Co-Investigator(s): Adel Mahmood Hassan, Ahmad Turki Mayyas

Publisher: Journal of Alloys and Compounds - ELSEVIER

Research Institute(s): Jordan University of Science and Technology

Year of Publishing: 2009 Volume, Page(s): 478: 559-565

https://www.sciencedirect.com/science/article/pii/

50925838808021178

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

Principal Investigator: Mohammed T. Hayajneh Co-Investigator(s): Adel Mahmood Hassan

Publisher: International Journal of Machining and Machinability of

Materials

Research Institute(s): Jordan University of Science and Technology

Year of Publishing: 2008 Volume, Page(s): 3: 252-271

https://www.sciencedirect.com/science/article/pii/

50925838808021178

صندوق عبد الحميد شوما<mark>ن لد</mark>عم البحث العلمي قائمة الأبحاث المنشورة 2000-2017

تمهيد

تغخر مؤسسة عبد الحميد شومان بتقديم الطبعة الأولى مـن قائمة الأبحـاث المنشـورة المدعومـة مـن صنـدوق عبد الحميد شـومان لدعـم البحـث العلمـي. قــدُم الصنـدوق منـذ العـام 2000 وحتـى العـام 2016 أكثـر مــن مليـون ونصـف المليـون دينـار أردنـي كدعـم مباشـر كمـا حفّـز شـركاءنا مــن المؤسسـات الأكاديميـة والعلمية علـى تقديـم حوالـي ربـع مليـون دينـار أردنـي لدعـم البحـث العلمــى فــى الأردن.

وُجِّـه هــذا الدعــم ل 97 مشــروعاً بحثيـاً مــن 17 جامعــة ومؤسســة أردنيــة، نتــج عنهـا نشــر ٨٨ ورقــة علميــة فــي مجــلات محكّمــة، وذلــك ضمــن الحقــول التاليــة: العلــوم الطبيّــة والصحيّــة، التكنولوجيـا الخضــراء والاســتدامة البيئيــة، العلــوم الهندسـيّة، الأمــن الغذائــي والتكنولوجيـا الزراعيّــة، النمــو الاقتصــادي والتنافسـيّة، أساليب وأدوات التعليـم، العلــوم الأساسـيّة، الثقافــة والغنــون والعلــوم الإنســانيّة والاحتماعيّــة.

تلعب الأبحاث المنشورة دوراً رئيسيًا في تعزيـز المعرفـة ونشـرها. كمـا أنَّ السياسـات المبنيـة على العلـوم والبحث العلمـي كانـت وسـتظلّ عامـلاً هامـاً في رسـم مسـتقبل الشـعوب وإرسـاء التوجهـات الاقتصاديـة والاجتماعيـة للقطاعيـن العـام والخـاص.

مـن خـلال تجميــ وتقديــم هــذه القائمـة، تسـعى مؤسسـة عبـد الحميـد شـومان لرفـ الوعــي بيـن صنّــا السياسـات وقــادة الأعمــال ومؤسســات المجتمــ المدنـي حــول مخرجــات الأبحــاث المدعومــة، آمليــن فــي أن يســاعد ذلـك علــى الإفــادة مــن هــذه المخرجــات فــي تحسـين نوعيــة الحيــاة وتقديــم المزيــد مــن الدعــم للبحــث والتطويـر فــى مختلـف القطاعــات.

اليـوم، نسـعى فـي مؤسسـة عبـد الحميـد شـومان لتعظيــم الأثـر المرجــوّ مــن صنـدوق دعــم البحـث العلمــي، وتركيـز دعمـه علـى تمكيـن الابتـكار العلمــي مــن خــلال تشـجيـ المزيـد مــن البحــوث التطبيقيّـة والتعــاون بيــن المؤسســات البحثيّـة الوطنيّـة وتعزيــز الربــط مـــ الصناعــة ومــ الجهــات الأخــرى ذات العلاقــة، إضافــة إلــى الاســتجابة للاحتياجـات الاقتصاديّــة والاجتماعيّــة والبيئيّــة المحليّــة.

وتستمر المؤسسة، كما عهدتموها، في دعم البحث العلمي والابتكار وفي سعيها لإبراز أثر مجتمعها من العلماء والباحثين المتميزين.

شكر وتقدير،

تتقدّم مؤسسة عبدالحميد شومان بجزيل الامتنان وعظيـم التقدير للباحثات والباحثين وللمؤسسات الشريكة التي مكّنتنا من المساهمة في بعض إنجازات الأردن البحثية والعلمية.



مؤساسة عبد الحميد شومان ABDUL HAMEED SHOMAN FOUNDATION

البنك العربي - ARAB BANK

صندوق عبد الحميد شومان لدعم البحث العلمي

قائمة الأبحاث المنشورة 2017-2000

