CONDENSED CURRICULUM VITAE

Ahmed Hasson

SUMMARY

I have a career spanning many years as an academic and research scientist in the fields of climate change issues, Greenhouse Gases, GHG emission, environmental biophysics of land –water-air pollutions, associated with wastes conversions and bio & solar renewable energies management,

RESEARCH FOCUS

Biophysics of environment

Renewable Bioenergy applications for sustainable environmental purposes.

Waste recycling & conversions for an environmentally friendly.

Ecology & Land hydrological microbiological behaviour.

Environmental Soil- Water and GHG emission pollutions remediation.

Renewable energy applications for green buildings & management.

Industrial and agricultural wastes deduced to be a better catalyst support to produce clean energy catabolic activities.

Soil organic carbon sequestration, Glomalin & Biochemistry and land management in Accordance with the Kyoto Protocol, IPCC and Australian Carbon Scheme.

EDUCATION

PhD –sustainable Biophysics Environment, University of Wyoming, Laramie, USA
& Research Collaboration, Colorado State University, Fort Collins (CSU), USA.

MSc – Sustainable Environment Dept., University of Wyoming, USA, UW`s Scholarship

BSc – Environment, University of Missouri, Columbia, USA.

DSc – Institute of Technology, University of Baghdad, Iraq

REGISTERED PATENTS:

Pat. No. & Year

2307, (1991): Pioneer Design of Solar Collector for Tomato Paste, Dry Fruit Production & solar Fermentation Cell.
Sold to Kuwait Dairy Co. plus 15% of sale for 5 years.

2256, (1990): A Substance as Alternative for Agricultural Plastics (Polyethylene) For the purposes of Solar Soil Sterilization & Soil Mulch Plastics for dry land.
The Best Patent Award, Ministry of Planning, for 1991 and 1992
Invested by Agricultural Supplies Co.

1904, (1987): Wastes Conversion for Green Grass Turf

1998 (Katholica University-Leuven, Belgium) Wastes for Bio hydrogen production,
An administration & Financial prevented the submission for patent.

AWARDS & MEMBERSHIPS:

2009, Department of Water, WA. The final plan of Department of Water in 24 August (www.department of water, wa was subsequence amended with a recommendation to encourage the growth of perennial grasses to counteract the high nitrate levels in the New Norcia groundwater as consequence on my scientific research results of NO3 leaching.
Communication & Nigociations between DoW and DAFWA are still take place to for create a models for sustainable groundwater quality of WA.

2015 Editor, Advanced Plant international Journal, NY, USA.

2008 Nominated for sustainable Urban Water Awards, Department of Water, WA, 2008, Improving Water and Landscape Quality in the Medium Rainfall Wheatbelt, WA. (Land & Water Management and Water Recycle)

2009 Regional Representative Editor-In-Chief, International Digital Organization for Sciences Information Journals, www.idosi.org/reg-rep.htm

2008 Regional Representative, Australian region Board Member of the Journal of Applied Sciences in Environmental sanitation.

2008 A Board Member and Reviewer, International Scientific Journals, Journal of Environment Sciences.

2013 Review member, ELSIVER Publishing, Building & Energy, Urban Climate,

1996 KU- KatholiekaUniversity Leuven Nomination of a Visiting Professor Program, Katholieka University, Leuven, Belgium. **CO2 Emission from soil grown pastures.**

1993 Associate professor title Promotional Award at University of Baghdad

1992 The Best Patent Award from Ministry of Planning, for 1991 and 1992

1988 U.S. Government Nomination for Academic Agricultural Environment Program Travel Award to USA.

1987 Senior Research Scientist Promotional Award, Solar Energy Research Centre, Agricultural and Biological Applications Department.

1986 Environment Improvement Program Nomination for Travel Award to Germany

PROFESSIONAL EMPLOYMENT

2021 Fusion Innovations, Research Development Institute Birmingham, UK

2020-12/ 20 Dean, Al_ Farahidi University, Baghdad

2019 International Expert in Climate Change Issues,

2016- 2018 Research Innovations Fusion-Innovations, BizzInn,
Institute of Research & Development, University of Birmingham
97 Vincent Drive Edgbaston, Birmingham, B15 25Q, UK

2015-2016 Environmental Research institute & Consultancy, Australia

2015-2016 Innovations UoB UK

2011- 2015Faculty member, Sustainable Environment, Climate Change, College of Engineering, Nahrain University, Baghdad

2010 Research Scientist at Environment International, AGWEST, Queensland University. Australia

2007 – 2011 Research Scientist, Natural resource Management, Department of Environment, WA, Australia.

2009 (Microclimatology, groundwater pumping) and translation to the International students, Soil Science, School of Earth and Environment Faculty, The University of Western Australia, Australia

2006- 2007 Research Scientist, Environmental Sci. Dept, Murdoch University, WA Australia

2001-2006 Research Director, International Environmental Group. Australia.

1 999 – 2000 Professor, Institute of Land, Water and Environment the Hashemite University, Jordan

1998 – 2000 Acting Dean, Faculty of Applied Sciences, University of Al- Ahgaf

1996- 1999 Visiting Professor, Institute for programming, Land and Water Management &GIS Katholieka University, Leuven, Belgium

1993:1999Associate Professor, Faculty of Applied Sciences, University of Baghdad.

1990 - 1993:Assistant Professor, Faculty of Applied Sciences, University of Baghdad.

1987 – 1990 Senior Research Scientist, Solar Energy Research Centre, Baghdad

TRAINING AND SKILLS

1996 A Program on Microcomputer software applications in Energy & Water Resources Engineering and Management. Institute for Land and Water Management, Kathalieka University, Leuven, Belgium.

1995 Microclimate Parameters and Crop Distribution, Analysis and Modelling Program. Environment Sciences Department, Germany

1993 Research Projects Economical Analysis Program, Economics and Administration Faculty, University of Baghdad.

1989: Higher Education Teaching, Academic Program, University of Baghdad.

1989 Solar energy Use Systems & greenhouse Management, and Computerised Control of Greenhouse Environments, Ohio State University Research Center, Wooster, USA.

1989 Academic Program on Soil Salinity and Its Impact on Environment and Mitigation, Solar Energy Center, University of California, Davis, USA.

1988 Water and Energy Balance, Measuring and Models, University of California, Davis, USA.

1988 Solar energy Use Systems & greenhouse Management, and Computerised Control of Greenhouse Environments, Ohio State University Research Center, Wooster, USA.

1988 Academic Program on Soil Salinity and Its Impact on Environment and Mitigation, Solar Energy Center, University of California, Davis, USA.

1988 Water and Energy Balance, Measuring and Models, University of California, Davis, USA.

1987 Rhizobium spp. Bacteria Inoculation, Great Mussiab Agricultural Project, Microbiology Lab.

1987 Crop Under Stresses Management and Improvement for bioenergy , Federal

Agriculture Laboratories Research Centre, FAL, Brunswick, Germany.

SUPERVISION & LEADING

Team Leader, Soil Energy, Biological behaviour (Mycorrizae and Glomalin) under pasture with relation to groundwater quality, soil carbon sequestration and GHG emissions a project funded by NACC and WA Government and collaborated with Murdoch University, Western Australia

Team Leader, "groundwater quality and Nitrate-N leaching under Annual Pastures, C_4 Perennial Grass Pastures and Tagasaste on Coarse Sands" Project funded by the Northern Agriculture Catchment Council, and Western Australian Government.

Supervisor: Research Team, Institute of Land, Water and Environment, Hashemite University, 2000

Supervisor: Research Team, Faculty of Applied Sciences, University of Sanaa, 1994 -1995.

Supervisor: Hasson, M.Sc Student completed at the Biology Department, University of Baghdad, 1991-1993.

Co-Adviser: Hasson, M.Sc student completed at the Biology Department, University of Baghdad, 1991-1993

Supervision, Hasson, A Enhancement Of The Solar Cells Efficiency Using Photochemical Etching Process

Supervisor: Hasson, Research Team, Institute of Land, Water and Environme Hashemite University, 2000

Co-supervisor Hasson AlKkow, R Abed A.Hasson, A. Mechanical Properties of Polymer-Nano Ceramic Composite For Orthopedic

Supervisor: Hasson, Research Team, Faculty of Applied Sciences, University of Sanaa, 1994 -1995

Supervisor: Hasson, M.Sc Student completed at the Biology Department, University of Baghdad, 1991-1993

Co-Adviser: Hasson, M.Sc student completed at the Biology Department, University of Baghdad, 1991-1993

Supervisor: Hasson, Research Team, Soil Science Department, Agriculture and Water Resources Research Centre, 1988 - 1990

Supervisor: Hasson, Research Team, Agricultural and Biological Applications Department, Solar Energy Research Center, 1985 - 1988

Project Manager, Soil Energy, Biological behaviour (Mycorrizae and Glomalin) under pasture with relation to groundwater quality, soil carbon sequestration and GHG emissions a project funded by NACC and WA Government and collaborated

with Murdoch University, WESTERN AUSTRALIA

COMMITTEE POSITIONS HELD

Head:Computerized Soil Tests an mechanic Teaching Laboratory Foundation Committee, The Hashemite University, 2000

Head:Computer Teaching Lab. Committee, Faculty of Applied Sciences, The Ahgaff University, 1999.

Consultant: Waste Recycling, National Tobacco Company, 1988 - 1989.

Head:Soil - Water Salinity Laboratory Foundation Committee, Agricultural and Biological Applications Department, Solar Energy Research Center, 1987.

TECHNIQUES AND SKILLS

Soil Water Dynamics in deep-sand, Northern Agriculture Region and plant usage.

Development and Calibration of SQ Pasture and Crop System Model for the Northern Agricultural Region, NAR, WesterAustralia,(groundwater and soil Water Dynamics)

Solar Energy Water pumping and recycling and emergency farm water.

Microclimatological factors analysis, modelling and instrumentation.
Use of Bio energy in Building.

Oil Sludge landfill Microbiological treatment and remediation

Team member, I have work on acid tars, soil mixing

Refineries by-products wastes. The wastes problems can be solved with closure site, mechanical, biological and chemical methods depends on the site environment.

Sustainable Buildings, and building renewable energy

Team Members:, Urban Heat Island and Heat Transfer Building microclimatology supports the architect in achieving a comfortable
building climate together with an energy-saving structural design.
Use micro climatological parameters in UHI via heat flux and

BOOK,
Kkow, Abed A. Hasson, A. **Mechanical Properties of Polymer-Nano Ceramic Composite For Orthopedic. A book, published in Germany 2016**

The Best Sale Book Description: Using nanotechnology to fabricate these biomaterials as a (MWCNTs) (0.5,1,1.5) %wt, and nanoparticles (HA) (2,3,4) %wt, dispersed respectively in (PMMA), with the use of mixing and vacuum technique; many useful results were obtained in different mechanical and physical inspections done in vitro like (porosity, topography, simple tension, compression, microhardness, and fatigue) while these inspections were carried out under the body conditions.
https://www.morebooks.de/store/gb/book/mechanical-properties-of-polymer-nano-ceramic-composite-for-orthopedic/isbn/978-3-659-80004-7

SELECTED INTERNATIONAL & NATIONAL CONFERENCE PRESENTATIONS

1. Land care conference, Bridgetown, WA, Australia2008
2. Salinity Engineering Solutions Conference, Perth Australia, 2004
3. Second International Symposium on Persimmon, Queensland, Australia, 2000.
4. Sustainable Natural Environment Symposium, Jordan, May 2000.
5. Higher Education Development in Jordan Conference, Jordan, March 1999.
6. Third Arab International Conference of Solar Energy, Jordan, November 1993.
7. Solar Energy Congress, Kobe, Japan, 1989.
8. Fifth Conference of Scientific Research Council, Agricultural Applications, Iraq, May 1989.
9. Second Poster Exhibition, Applied Sciences, Iraq, January 1989.
10. Energy and Building for Temperate Climate Mediterranean Regional Approach, PLEA, Portugal, September, 1988.
11. Third International Symposiumthe Genetic of Plant Mineral Nutrition, Germany, April 1988.

12. Eighth Miami International Conference on Alternative Energy Sources, Miami, Florida, December 1987

13. International Solar Energy Society, ISES, Germany, August 1987

14. Solar Energy Applications in Biology Symposium, Iraq, April 1986.

COMMITTEES & POSITION HELD

Head: Soil and Plant Tests and Teaching Laboratory Foundation Committee, The Hashemite University, 2000

Head: Computer Teaching Lab. Committee, Faculty of Applied Sciences, The Ahgaf University, 1999.

Consultant: Waste Recycling, National Tobacco Company, 1988 - 1989.

Head: Soil - Water Salinity Laboratory Foundation Committee, Agricultural and Biological Applications Department, Solar Energy Research Center, 1987.

Member Subcommittee of Climate Change impacts

TECHNIQUES ACHIEVED

Soil Water Dynamics in deep-sand, Northern Agriculture Region, Austraia

Development and Calibration of SQ Pasture and Crop System Model for the Northern Agricultural Region, NAR, Western Australia,(groundwater and soil Water Dynamics), Austraia

Soil carbon decomposition methodologies for large scale farming systems in Ohio Research Center, USA.

Agricultural and maniples wastes and recycling and emergency farm water, Wyoming, USA.

Salinity mitigation - soil management.

Soil-water environment agronomy and practices.

Micro-climatological factors analysis, modelling and instrumentation.

Use of renewable energy in Agriculture Environment.

Greenhouse techniques and horticulture crops.

SELECTED PRESENTATION

Land care conference, Bridgetown, WA, Australia 2008

Salinity Engineering Solutions Conference, Perth Australia, 2004

Second International Symposium on Persimmon, Queensland, Australia, 2000.

Sustainable Natural Environment Symposium, Jordan, May 2000.

Higher Education Development in Jordan Conference, Jordan, March 1999.

Third Arab International Conference of Solar Energy, Jordan, November 1993.

Solar Energy Congress, Kobe, Japan, 1989.

Fifth Conference of Scientific Research Council, Agricultural Applications, Iraq, May 1989.

Second Poster Exhibition, Applied Sciences, Iraq, January 1989.

Energy and Building for Temperate Climate Mediterranean Regional Approach, PLEA, Portugal, September, 1988.

Third International Symposiumthe Genetic of Plant Mineral Nutrition, Germany, April 1988.

Eighth Miami International Conference on Alternative Energy Sources, Miami, Florida, December 1987

International Solar Energy Society, ISES, Germany, August 1987

Solar Energy Applications in Agriculture and Biology Symposium, Iraq, April 1986.

TEACHING EXPERIENCE

Principles of Soil microbiology

Sustainable microclimate & Energy Management

Bio Energy Methodologies Application

Advanced Soil biophysics

Microclimatology and Climate Change Impacts

Mathematical Statistics

Environmental Pollution

Engineering Statistics

Soil Classification

PUBLICATIONS:

Hasson, A. Wiley, T. Woolslw, G. 2013, Whole Soil Sampling" to Compare Carbon Sequestration Glomalin under Perennial Pastures of Western Australia, Vol. 12 No. 2, 2013.

Hasson et al., Soil Organic Carbon and Silt – Clay Content Relationships in the Soil Orders of NAR, Western Australia. In Press (2019).

Hasson A and Jweeg M , 2013Soil Organic Carbon Sequestration Under Pastures in Arid region Volume 12, Issue No. 1 , Page No 57-62.

Hasson, Jweeg 2013, Solar Saline Groundwater Pumping and Management For Sustainable Desert Environment, International Journal of Civil, Structural, Environmental and Infrastructure Engineering Research and Development,Vol.

Issue 1, Mar 2013, 53-58.

Bill Scott, Gary Patterson, Dave Nicholson, Wayne Parker, Angela Stuart-Street, Ahmed Hasson, Tim Wiley, Stewart GreenhillRoss Lantzkeand John Horgan, 2007
A quantification of differences of soil moisture under perennialand annual pastures. perennials1.tex; 15/07/2007; 10:43; p.12007 *Kluwer Academic Publishers. Printed in the Netherlands.*

Hasson, A. 2009. Biohydrogen production from wastes,. Journal of Applied Sciences in Environmental Sanitation, Vol. 4: 7-10.

Hasson, A., 1989.Hydrogen, amino & gasses production by using residues. Solar World, Florida, USA.(3) 51-55,

Omran N A Al-Musawi, A Al-Mamori and A. Hasson. Simulation Of Chlorine Decay In Al-Gukook Water Distribution Networks Using Epanet Paper *Applied Research Journal Vol. 3, Issue, 9, pp.295-304, September, 2017*

Hasson,A. A E. Kubba, A. I. Kubba, Gregory Hall . Heat Balance and Its Effect on Building Types2: 1, 7-11 Published Online: Feb. 1,2017 DOI: 10.11648/j.jccee.20170201.12, Views 476 .

Hasson, A. E. Kubba, E. Kubba, Gregory Hall. Application of Eco-remediation Methodology for Sustainable Landfill 2: 5, 28-31 Published Online: Mar. 17, 2017 DOI: 10.11648/j.ijsmit.20160205.11 Views 186 .

Hasson, Alaskary,Jweeg, 2013. Energy Balance on soil –Tree Canopy System Through Urban heat Island Mitigation , International Journal of Enhanced Research in Science and Technology. Vol. 2, No 1 Jan 2013.

Hasson, Ahmed ,2012. Inhibition of bio nitrification in soil under pastures in Western Australia.11: 3, 351-356

Kubba, Hasson, Kubba, and Hall. A micro-capacitive pressure sensor design and Modelling, J. Sens. Sens. Syst., 5, 95-112, 201, 2016.

Hasson, A, H. Asker. Middle-East`s Political Machine Treatment of Climate Change. International Journal of Enhanced Research in Educational Development,Vol.1,Issue3,April-2013,pp:(13-16), **www.erpublications.com**, ISSN: 2320-8708.

Hasson, A and Al-Askari A . 2013. Potential Effect of Microclimatological factors on Energy Building in Iraq Context. Science Engineering Investigation, International Journal,Vol. 2 Issue 15, 83-86.

Hasson, A. and Mahmood, S. Impact of outdoor thermal on Iraqi building energy performance, Journal of Civil Engineering and Environmental Research, www.iiste.org, 2014

Hasson, A. and Khammas, F. 2013. Observed and Predicted of daily Wind Travel and Speed in Western Iraq. Science Engineering Investigation, International Journal Vol. 2 Issue 15, 34-38.

Hasson, Jweeg, 2013. Potential of soil Power compare saline groundwater and management, International Journal of Enhanced Research in Science and Technology. Vol.2, No 1 .

Hasson, Kammas, Observed and Predicted Daily Wind Travels and Wind Speeds in Western Iraq

Hasson, A., and T. Wiley. 2009 Pastures, Determination of the effect ofC4 Perennial to reduce nitrate leaching. In Press, Agri. Biol.J. Am. Vol. 1 No. 1 9-17.

Hasson, A. Wiley, T, Soil Organic Carbon Sequestration under Annual and Perennial Pastures of western Australia, Vol. 12 Issue 1, 57 – 62, 2013.

Hasson, A.2008 Solar saline groundwater pumping and water quality change management, Experimental and numerical assessments. Journal of Agric., Food and Environmental Sciences, SJI. Vol. (1).

Hasson, A., Atmospheric dust properties and its effect on light transmission, carbon-nitrogen stocks and yield. Journal of Agric., Food and Envi Sci., SJI. Vol.2 (1).

Hasson, A., Peck, 2004. Solar Water pumps potential. Salinity Engineering Solutions Proceeding, Perth,

Hasson, A., Water and energy balance in irrigated wheat field,2000 Agriculture and Water Resources, 9:111- 115,

Al-Zubaidi, F., Hasson, A., 1990. Evaluation of the potential use of industrial wastes as insecticides. Egyptian Journal of Entomology, II: 489-493,

Hasson, A., 1987.Effect of nitrogen and nitrapyrin, a nitrification inhibitor on vegetative growth of corn, Zea Mays L.Journal of Agriculture and Water Resources, 6(3): 13-25,

Hasson, A., Hussain, R., 1988.Inhibition of nitrification by gamma irradiant in soil. Soil Science and Plant Nutrition Journal, 32(2): 15-21,

Hasson, A., 1986.Effect of solarisation on soil temperature under aridic conditions. International Plasticulture Journal, 72:15-22,

Hasson, A., 1987.Effect of polyethylene mulch on soil temperature variation of planted arid soil in greenhouse. Solar & Wind Technology Journal, 4(4): 459-460,

Hasson, A., 1987.Effect of solar soil sterilization on nitrification in the soil. Plant Nutrition Journal,10:1805- 1809,

Hasson, A., Hough, H. 1987Effect of nitrapyrin on soil chemical properties. ZANCO Journal, 5:65-72,

Hasson, A., Hussain, R., 1988Relations of radiative flux under the greenhouse conditions. Agriculture an Forest Meteorology Journal. 44(4): 329-338,

Hasson, A., AlSajer, B., 1989.Relation between solar radiation and evaporative components in semi-arid conditions. Science and Engineering Journal, 322-334,

AlSajir, B.,Hasson, (1989). A., A procedure to maximise the cultivated saline land for irrigation and leaching in arid regions. Egyptian Journal of Solids, 12:190-201,

Hasson, A., (1988).Determination of effective photoperiod above critical level on sensitive physiological processes. Journal of Solar Energy Research, 6(1): 13-26,

Hasson, A., (1988).Hourly soil-air temperature relationship in arid region. Heliograph Journal, 3:51-57,

Hasson, A., Hussain, R., (1990). Radiation components over bare and planted saline soils. Energy Journal, 44(1):1-5,

Hasson, A., Hussain, R., (1990).A study of solar energy and it's components of arid region. Energy Conversion and Management Journal, 31(1): 1-5,

AlKaizy, A AlKaraghuli, A Hasson, A., , (1990).Influence of soil moisture content on soil temperature and heat storage. Journal of Agricultural Engineering Research, 45:241-252

Hasson, A., (1990).Comparison between measured and calculated diurnal variation of wind speed at northeast Baghdad. Solar & Wind Technology Journal, 7(4): 471-487,

Hasson, A., (1989).Net-radiation distribution within plant canopy near Baghdad. Heliograph Journal, 2:45-49,

Al Kaizy, A., Hussain, R.,Hasson, A., (1990). The photometric properties of different coloured plastic mulches used for saline soil solarization. Solar and Wind Technology Journal. 7(2/3): 119-123,

Al Sajir, B., Hasson, A., (1992).Determination of maximum land area to be irrigated and salts leached by water pumping. Engineering and Technology Journal, 11(4): 7-18,

Hasson, A., (1988).Nitrification and plant as affected by solar sterilization and mulched soil. Solar Energy Proceedings, Agri. App., 8:49-52,

Hasson, A., (1988). A study of temperature components and plant growth. Energy and Building for Temperate Climate Mediterranean. PLEA, 313-318,

Hasson, A., (1987).Effect of sterilization on heat transfer cultivated soil. Solar Energy (ISES),4:3347-3352,

Hasson, A., (1988).Effect of nitrapyrin on wheat and barely growth. Genetic and Plant Minerals Nutrition, 19-24,Germany,

Hasson, A., Hussain, R., (1989).The net radiation flux and its components study under double covered greenhouse. Science and Engineering Journal. 2: 286-296,

Hasson, A., Hussain, R., (1988).Effect of N-Serve and sewage sludge compost on nitrification in the soil. Sci. Res., Proceedings, 3(1): 123-13,

Hasson, A., Hussain, R. (1989)., An experimental study of irradiative inside a greenhouse. Solar World Congress, Kobe, Japan, (3) 17-21,

Hasson, A., (1989).Leaf temperature prediction from meteorological data in the plastic-house. Soft Energy Source and System at the Local Level, 2nd European Symposium, 16-21, Hasson, A., The effect of dust on the spectral properties of plastic. Solar Energy Proceeding, (1993).

Hasson, A., A (1993).study of solar radiation ratio inside the greenhouse. Solar Energy Proceeding,

Hasson, A., 1995.Liquid soil mulch as alternative for agricultural polyethylene. Environmental Reference for Research Planning ,Vol. 17,

Hasson, A., 1998.wind speed potential in north desert. Natural Resources Journal.12:26-28, 200

Hasson, A., 1999.Using experimental and theoretical method for photoperiod determination in Jordan. Journal, Agricultural Sciences. 27:3, 334-351.

Hasson, A., 1998. Dusts as salts transporter, and land degradation. Environmental Symposium, Air Pollution,

Hasson, A., Solution for nitrate leaching, Pasture water use, 2009, htt://www.nrm.gov.au/projects/wa/index.html

Hasson, A. and Wiley Tim. Nitrate-N leaching under Annual Pastures, C_4 Perennial Grass Pastures and Tagasaste on Coarse Sands *EVERGREEN FARMING March News Letter*, pages 6- 7. 2009 A 'Grain & Graze' project for the Northern Agriculture Catchment Council

Wiley Tim, Hasson Ahmed. 2009, WA Pasture Cropping Thoughts Doubt on Hidden Cost of Soil Carbon, *Australian Farm Journal*, February, Pages: 12 – 14.

IN – DATA PROCESSING

Hasson et al. Society Thoughts to Climate Change Adaptation. 2019 In Press

Hasson et al Using Light Reflectance to Assess Phenology and Stress Related to Karbala Urban Heat Island Impact 2019 in press

Hasson et al.Potential of Microclimatic Factors on Urban Building of Karbala in press

Hasson et al Microclimate Contexts In The Building Design Under Arid Region, in press

Hasson, A. Kubba, A. Hall G. Effect of mycorrhiza AMF / soil microbiology on soil glomalin,/carbon, phosphorous, nitrogen, soil moisture under soil sterilization grown annual and perennial pastures

Hasson,A. Kubba, A. Kubba, A Hall G.Solar Powered Aluminum Refinery Wastes for Fuel and Chemicals products Using Treated and untreated Wastes

Hasson, A.Determination of wind speed variations in Western Australia. INPRESS

Hasson, A.Soil Organic Carbon and Silt – Clay Content Relationships in the Soil Orders of NAR, Western Australia.Ubmitted.

Hasson, A. Phosphorus movement under pastures of deep-sand soils in Western Australia. SUBMITTED

Hasson, A. Calibration of SGS Pasture and Crop System Model for the Northern Agricultural Region, NAR, Western Australia **(**Soil Water Dynamics).

Hasson, A. Light Reflectance and Internal Damaged Tall wheat (*Thinopyrum ponticum*) Grass Leaves

Hasson, A. Nitrate-N leaching under Annual (New Norcia). Pastures, C4 Perennial Grass Pastures and Tagasaste on Coarse Sands"Grain&Graze' project for the Northern Agriculture Catchment Council

Hasson, A. Soil carbon sequestration under annual, perennial and fodder in NAR,WA, Australian Farm Journal In press.

Hasson,A. Perennials reduce Nitrate –N leaching compared to annuals,Australian Farm Journal.

Hasson,.Ahmed. Salts Accumulations, Evaporation, Percolation / Petroleum Based Products Interactions. A trial Experiment submitted to the Agricultural Department.

Hasson, A.Waste Water Treatment Plant for Irrigation. City Manciple,

Hasson, Ahmed,.comprehensive proposal and brief report of Methane and Carbon Dioxide Dynamics under Soil Management Practices. Institute for Land and Water Management, K. U-Leuven, Study and Proposal,

Hasson, Ahmed and graduate students.Soil Salinity Cause Survey in Yemen. A Report submitted to the Science Faculty, University of Sanaa,

Hasson, A. Qaissy A, Garagholi A. and R. Hussian. .Crop Rotation for Soil Health Extension Trials for Bedouin Community Settlement. Agricultural Department,

Hasson, A ..Environmental Pollution by Dusts, Sciences Magazine,

Hasson, A. Abid Kazem..New Solar Collector Device for Tomato Paste Production. National Newspaper, Science, October 2,

Hasson, A. AlShareef, A. .A 2013Survey of Soil, Water, and Social Aspects to Reuse A Public Dumped Land. Agricultural and Water Resources Research Center,

Hasson, A, Al-Hamadani, N. 1999.National Solar Energy Assessment for Agriculture in Iraq. Solar Energy Research Center,

Hasson, Ahmed 2000. Compost from Wastes. Special Study, Agricultural Applications, Solar Energy Research Centre.

Hasson, A. G. Paterson, Wiley, T. W. Parker, D. 2008Nicholson Soil water usage by Annual,Perennial and tagasaste pastures. Land care conference, Bridgetown, WA, Australia

Hasson, A.2009. Perennial pastures reduce nitrate-N leaching. Dept of Agric &

Food, WA, Agriculture August memo ,

GROUPS AND ASSOCIATIONS MEMBERSHIPS:

Biochar Offsets is visible on your profile. Change visibility.

Biochar Soil & Fertilizer NPK-C is visible on your profile. Change visibility.

Carbon Footprint Forum is visible on your profile. Change visibility.

Climate Action is visible on your profile. Change visibility.

Data Carbon: Software-Strategy-Sustainability is visible on your profile. Change visibility.

Environmental Sustainability Professionals is visible on your profile. Change visibility.

Nature Environment and Pollution Technology is visible on your profile. Change visibility.

Soil and Water Conservation Society is visible on your profile. Change visibility.

Water Network is visible on your profile. Change visibility.

ZERO EMISSION CARBON REFINERY is visible on your profile. Change visibility.

The International Union of Soil Sciences (IUSS)

Climate Action

NRM Natural Resources Management Professionals

Chevron

CO2 Forests