

Dr. Jauad El Kharraz

Senior Expert & Advisor in science,
water, environment, energy &
climate

Nationality: Moroccan & French | Gender:
Male | DOB: 23rd January 1977



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QUALIFICATIONS PROFILE

Senior expert and advisor in the fields of water management, water policies, desalination technologies, water-energy-food nexus, water use efficiency in agriculture, climate change, science diplomacy and environmental studies with 20+ years of experience developing and implementing water projects in southern Europe, North Africa and the Middle East. Success in delivering research & training projects. Contribution to policies and decision making processes. demonstrated efficiency in diversifying funding sources and working with international and national donors & programs (FP7, H2020, ENPI CBC Med, INCO MED, INCO NGOs, SMAP, LIFE, PRIMA, GIZ, USAID, IsDB, COST, TWAS, AAAS..)

Adept in building strong working relationships and partnering with key stakeholders nationally and internationally to develop and deploy compliance frameworks to achieve goals. Mother tongue Arabic, fluent in English, French and Spanish.

SIGNATURE STRENGTHS:

- ✓ Water governance, climate, environment policies
- ✓ Risk Assessment, Management & Reporting
- ✓ Projects management technically & financially
- ✓ Evaluation and assessment of projects
- ✓ Leadership in R&D and planning
- ✓ Fund raising skills
- ✓ Planning and strategies implementation
- ✓ Advocacy and partnerships development
- ✓ Project/Program Performance Management & Reporting
- ✓ Communication, dissemination, market uptake
- ✓ Marketing and events organization
- ✓ Project Cycle Management & Logical/ToC Framework

PROFESSIONAL EXPERIENCE & IMPACT

Middle East Desalination Research Center, Muscat, Oman | 2015 – 2020 Head of Research

- Director of Research Department – led, planned, delivered and developed Research Programs related to desalination, water-energy-food-climate nexus, sustainability, climate diplomacy, climate adaptation, renewable energies and water-energy saving. He maintained and grew an expert-level network of technical, academic and policy specialists on a wide range of water issues including innovation in desalination oriented to market uptake. He also developed fund raising activities, managed research projects and organized more than 50 international and national scientific forums, workshops, cutting edge technology showcase events and knowledge transfer meetings apart from preparing commercialization plans for developed technologies. In addition, he provided support to the development and delivery of training programs and consultancy projects.
- Research and CSRs Projects Manager (PI) - managed delivery of project timelines, outputs and ensured the communication with the donors for a successful project delivery. Led the development and implementation of research programmes strategy and research projects.
- Business Development Manager - development of successful proposals for international donors, funding agencies and national ones.
- Managed the research team and national and international networks of experts in the fields of desalination and water-energy-food nexus.
- Chaired the evaluation of Palestinian and Jordanian applications for MEDRC research funds.
- Delivered several training courses on desalination, research methods, entrepreneurship skills, financial mechanisms set up for water projects (PPP/BOT, etc.)
- Conducted a regional study on desalination as a climate change adaptation option in the MENA region.
- Raised the brand of MEDRC in Oman and the MENA region, and made a new dynamics in the activities dealing with water scarcity and desalination in Oman and the MENA region.
- Represented MEDRC in more than 100 international, regional and national events (World Water Forums, European Desalination Society forums, World Science Forums, Arab Water Council events, UN-ESCWA events, Exhibitions, Workshops, conferences, etc.)

Euro-Mediterranean Water Information Systems (EMWIS/SEMIDE), Sophia Antipolis, France | 2004 - 2015

Information and data manager – Projects Manager

Responsible of Dissemination & exploitation of results & Co-Manager of more than 12 projects & Dissemination coordinator for European research projects, Supporting the development of National Water Information Systems in the Mediterranean countries and a regional mechanism of water information systems. Responsible for Information Management, Communication as well as management of projects. Data and information collection and sharing on the economic, social and environmental impacts of water scarcity and droughts in the Mediterranean region. Capitalizing and promoting the know-how on water in the Mediterranean region.

- Championed the efforts to develop cooperation on water information systems and water policies in the Mediterranean region, driving efforts to implement pilot projects; organize water directors forums, and build a knowledge hub in the Mediterranean region.
- Business Development Manager - development of successful proposals for European donors/programs and other funding agencies.
- Monitored the transfer of knowledge of the Euro-Mediterranean program: MEDA Water and played the role of EMWIS International Focal Point for the ministries in charge of water of the Euro-Mediterranean region.
- Led several capacity building activities for the Mediterranean ministries in charge of water: training on the use of remote sensing data in partnership with the European Space Agency.
- Contributed to the drafting of the regional water policies (Mediterranean water policy, Arab Water Policy, 5+5 Water Policy..)
- Conducted comprehensive studies and reports on water scarcity and drought in the MENA region and in pilot areas in the Mediterranean under the framework of several EU projects, delivering findings and recommendations.
- Contributed as co-author to the UNESCO Science Report 2015 (Arab countries chapter).
- Delivered and monitored the dissemination and exploitation work packages of several EU projects (FP7, H2020..) related to water use efficiency in agriculture, DSS for dams, water cycle in touristic facilities, solid waste management in the Mediterranean, etc.
- Raised the brand of EMWIS in the Euro-Mediterranean region, and made a new dynamics in the activities dealing with water scarcity and water information systems. Organized an important number of workshops and forums at regional and national levels.
- Represented EMWIS in more than 200 international, regional and national events (World Water Forums, Euromed Water Directors Forums, UfM and 5+5 conferences, Exhibitions, Workshops, conferences, etc.)

Global Change Unit, University of Valencia, Valencia, Spain | 1998- 2003

Researcher

Conducted research work on Remote Sensing & Earth Sciences in the framework of projects funded by the European Commission, the European Space Agency and Spanish research entities: EU-INCO-Med project Watermed, ESA projects Daisex, Siflex, Eagle, etc.

- Developed and implemented research work based on the use of remote sensing data (NOAA/AVHRR, TERRA AQUA/MODIS, Landsat, ASTER, DAIS, AVIRIS, MSG..) and its analysis and applications to understand the land cover dynamics in the Mediterranean and improve water use efficiency in agriculture in arid and semi-arid areas.
- Led field experiments campaigns in Morocco, Spain and Finland (measurements of biophysical parameters).
- Conducted training courses on remote sensing in Teruel Summer School, Spain
- Was granted by the European research project (FP5): WATERMED (WATER use Efficiency in natural vegetation and agricultural areas by Remote sensing in the MEDiterranean basin) and worked for that project closely with partners from France, Denmark, Morocco and Egypt.
- He also worked in other projects such as Solar Induced Fluorescence Experiment Campaign (SIFLEX), funded by the European Space Agency, and prepared other research proposals for funding programmes/entities.
- Combined the use of remote sensing data with climate data (REANALYSIS) to study the land cover dynamics of the Mediterranean

EDUCATION & CREDENTIALS

SKEMA Business School, France

Diploma in Enterprises Management & Strategy (2009)

University of Valencia, Spain

PhD in Physics (Earth Sciences) (2004)

University of Valencia, Spain

MSc in Physics (Earth Sciences) (2001)

University Abdelmalek Essaadi, Morocco

Bachelor in Physics (Mechanics of Fluids) (1998)

Certificate on Water and Sanitation technologies: CAS-TWAS Centre of Excellence for Water and Environment” (CAS-TWAS CEWE), Research Center for Eco-Environmental Sciences (RCEES), in collaboration with the Chinese Academy of Sciences (CAS), Beijing, China (Sept 2016)

Certificate on science diplomacy: The American Association for the Advancement of Science (AAAS) and The World Academy of Sciences (TWAS), Trieste, Italy (July 2016)

Certificate on Eco-innovation & Waste: “Projects and exemplary approaches in the PACA region in the waste management and recovery”: Eco-entreprises, in partnership with DREAL Paca, Marseille, France (March 2013)

Diploma on Exploitation of Earth Observation for water management in the Mediterranean: ESRIN/ European Space Agency (ESA) & TIGER Capacity Building Facility (TCBF), Frascati, Italy (Dec 212)

Diploma on European external aid projects and the logical framework: WelcomEurope, Brussels, Belgium (Mar 2007)

Certificate on Thermal Seawater Desalination Technologies: Middle East Desalination Research Center (MEDRC), Algiers, Algeria (Jun 2006)

TECHNOLOGY SKILLS & STRENGTHS

IT Skills: MS Office (word, excel, power point, publisher, access, outlook, FrontPage, paint, gotomeeting, zoom, etc.), IDL, ENVI, IDRISI, HTML, XML, websites design, content management, social networks, statistics with R, Matlab, Endnote, Zotero, etc.

Technical Skills: Organized of a countless number of scientific, policy and business events to connect business with academia and decision makers in the water and energy sector, Trainer on research methods, desalination, water management, water information systems, water data management, remote sensing, water-energy-food nexus and climate diplomacy for university students and young professionals from the Mediterranean in Palestine, Oman, Morocco, Algeria, Tunisia, Egypt, Iran, Spain, France, Italy and Germany, Contribution to the capitalization of the best practices in ENPI CBC Med project: “Water Drop” related to developing an integrated water cycle management approach at the Mediterranean, 2015, contribution to the water strategy of the 5+5 (Western Mediterranean countries), 2014-2015, capitalization of the best practices in the Mediterranean pilot cities under the framework of the ENPI CBC Med strategic project: “Strategic Euro-Mediterranean Platform for Appropriate Waste Management” (MED-3R), 2013-2015, Promoting and transferring knowledge under the framework of the regional project (ENPI NGO: Regional Water Knowledge Network - R-KNOW) on water governance, water-energy-food nexus, sustainable water technologies and water & climate change (2013-2015), contribution to the Mediterranean Network of Water Training Centers (AquaForMed), 2013-2014, Responsible on the dissemination and exploitation plans of EU FP7 projects: WEAM4i, SAID, OPIRIS, demEAUmed (2012-2015), Contribution to the Mediterranean countries water profiles at EMWIS, 2011, Experience in screening best practices of the Mediterranean countries vis-à-vis the EU Water Framework Directive concepts (2011), Contribution to the Mediterranean Water Knowledge Platform: <http://www.emwis.org/initiatives/MWKP> (2010-2015), Contribution to the Mediterranean water strategy (2010) and Contribution to the evaluation of the study on “Non-conventional water resources uses study in the Mediterranean”, 2008 Contribution to the feasibility study on the development of a regional water observation mechanism in the Mediterranean region (2007), International focal point of the Euro-Mediterranean Water Information System - EMWIS, in charge among others for water information and data management, countries profiles (legislation, documentation, research programs, training programs & data management), and managing EMWIS documentary databases. (2004-2015), Coordinating the water scarcity & drought and water monitoring working groups under the Mediterranean component of the European Union Water Initiative (MED-EUWI), 2004-2011, Building and maintaining a regional water projects database, 2004-2015 (<http://www.emwis.org/initiatives/fo1060732>), Promoting and transferring knowledge of MEDA-Water program (2004-2008) as part of EMWIS role. **He acted as a PI for several desalination and water projects within MEDRC. He is member of the International Scientific Panel of the Oman Humanitarian Desalination Challenge (www.desalinationchallenge.com)**

Seminars attended & organized: Hundreds of forums, conferences, workshops attended (World Water Forums, Euromed Water Directors Forums, UfM water strategy meetings, 5+5 water strategy meetings, European desalination society events, UN-ESCWA, WB, USAID, AfDB, GWP events, international events in more than 50 countries on water, science & environment topics.

Training courses attended: Diplomas and certificates obtained after attending training courses on produced water (ARAMCO), Science Diplomacy (AAAS, TWAS), Water & Sanitation (CAS-TWAS), HABs monitoring (MEDRC), desalination (MEDRC), strategic science communication (GYA-ZWM), Remote sensing for water management (ESA), Logical framework (WelcomeEurope), MODIS data (NASA).

Methodologies/Frameworks: Project Management (Project Cycle Management of the EU, Theory of Change (ToC) Framework, Logical Framework Matrix/ Benchmarking); Financial Analysis and Budget reporting, and Environmental Impact Assessment (EIA)

VOLUNTEER ASSIGNMENTS & MEMBERSHIPS

EMME-Climate Change Initiative Task Force on Water Resources, Cyprus | 2020 - 2022

Member

Contributing to the task force reflections on water resources in the Eastern Mediterranean and the Middle East regions, and providing technical contributions to its deliverables.

COMSTEC Scientific Advisory Council (COMSTEC-SAC), Pakistan | 2020 - 2022

Member

Providing scientific and technical advisory services as member of the scientific advisory council of the Ministerial Standing Committee on Scientific and Technological Cooperation of the OIC (Organization of Islamic Cooperation) to the governments of the members countries.

The Research Council, Sultanate of Oman | 2019 - 2019

Member of the Evaluation Committee - The National Annual Research and Innovation Awards

Evaluating the proposals submitted for the Omani Annual research and innovation awards.

PRIMA Foundation, Spain | 2018 - 2019

Chairman of the International Scientific Committee (Water Proposals)

Chairman of the International Scientific Evaluation Panel for the Call section 1, Topic 1: Management of Water: "Water reuse and water desalination for agricultural and food production", Chairing the panel and 2 meetings in Barcelona (June & Nov 2018).

Palestinian-Dutch Academic Cooperation Program on Water (PADUCO), Program Management Team, The Netherlands and Palestine | 2016 - 2017

Evaluator

Providing evaluation expertise by reviewing water projects proposals submitted to PADUCO calls which are related to different aspects of water resources management.

Regional Program on Energy Security and Climate Change in the Middle East and North Africa – Konrad Adenauer Stiftung (KAS - REMENA), Germany - Morocco | 2017 - 2022

Project/program partner and executor

As partner I am delivering several activities for this program including: training on climate diplomacy for MENA young leaders, regional workshops on water-energy-food nexus implementation and urban nexus, implementing a regional study on desalination, delivering talks and keynotes in several regional and international events organized by REMENA.

UNESCO – Natural Sciences Sector (Division of Science Policy and Capacity-Building), France | 2014 - 2015

Co-Author of the UNESCO Science Report 2015 (Arab World Chapter)

Co-author of the chapter on the current state of science in the Arab States (UNESCO Science Report 2015). The Report gives up to date information on latest policy development in the various regions. It also provides country profiles of a limited number of countries. The report contains reliable STI statistics and indicators.

Kuwait Foundation for the Advancement of Sciences (KFAS), Kuwait | 2013 - 2014

Evaluator and Reviewer of Projects proposals

Evaluate and review the revised project proposal entitled "Using Value Methodology for Development of Scrap Tires to Fight Desertification in Kuwait and Ration Water. Project Code: 2013-1501-01. Critical and constructive recommendations to address specifics were given to significantly assist the decision-making process.

World Economic Forum – Global Shapers Team, Switzerland | 2014 – up to now

Founding Curator of Nice Hub for Global Shapers

Building innovation and entrepreneurship projects with young people in Nice (France) (18-29 years old). Guiding them and coordinate their initiatives and projects (Project going-on with the Municipality of Nice).

COST: Intergovernmental framework for European Cooperation in Science and Technology, Belgium | 2013 – up to now

French National MC Member & Leader of Networking WG [TN1301 FR] to COST Action TN1301

I was nominated French National MC Member [TN1301 FR] to COST Action TN1301 in September 2013. COST is an intergovernmental framework for European Cooperation in Science and Technology, allowing the coordination of nationally-funded research on a European level. During the first meeting of TN1301 I was elected leader of the WG on networking.

European Commission – DG Research & Innovation, Belgium | 2012 – up to now

Expert Evaluator (ID: X2002B081501)

Providing evaluation expertise by reviewing proposals submitted to the Calls FP7, H2020, etc.

Islamic World Academy of Young Scientists (IWAYS), ISESCO, Morocco | 2014 - 2015

Task Force & Founding Member

Contributing towards strengthening the capacity of young researchers & scientists from the Islamic countries to conduct relevant and high quality research that covers science and technology, environment, and their inter-linkages, and to advance science and enhance the situation of young scientists throughout the Islamic world.

Crans MONTANA Forum, Switzerland | 2014 - 2017

New Leader for Tomorrow (nominated in January 2014 for 3 years)

The New Leaders for Tomorrow enjoy, for a three years period, the free strong support of the Crans Montana Forum to strengthen their Regional and International network in the framework of the South-South Cooperation that the Forum has continuously promoted as a key tool of a renewed international dialogue fostering the South-South Belt Countries' recognition worldwide.

Arab World Association of Young Scientists (ArabWAYS CIC) London, UK | 2011 – up to now

General Secretary & co-founder

Contributing towards strengthening the capacity of young Arab researchers & scientists to conduct relevant and high quality research that covers science and technology, environment, and their inter-linkages, and to advance science and enhance the situation of young scientists throughout the Arab world.

The Society for the Advancement of Science and Technology in the Arab World (SASTA), US | 2019 – Up to now

Member and Head of Networking Working Group

To create a positive impact in the Arab World and link the Arab scientists in the Diaspora with their colleagues in the Arab countries for better serving science and research in the Arab world. Also to follow-up on all activities that will have a positive impact on the status of science and technology in the Arab countries. <http://www.sastaworld.com>.

WANA Forum (currently called WANA Institute), Jordan | 2009 - 2013

Member & Water panel co-leader

The WANA Forum is a regional initiative, established in 2009, with the stated aim of bringing the people of the region together. Understanding that many of the challenges cannot be faced by a single nation or group alone and have far-reaching implications, the WANA Forum acts as the hub that brings the people together to develop a common regional vision. In addition, the WANA Forum seeks to strengthen links with other existing initiatives and organizations in the region. The WANA region stretches from Bangladesh to Morocco.

Global Young Academy, Germany | 2012 – Up to now

Member from 2012 to 2017 and from 2017: Alumni

As a member I have been contributing to the efforts of the GYA to raise the voice of young scientists around the world, and represent it at International forums such as the World Economic Forum (Young Scientists Community), World Science Forums, UN DRR commissions meetings, European Commission Joint Research Center meetings, etc.

Sud Convergences, France | 2007 - 2009

Senior Consultant

Providing consultancy in the following areas: technical translations (Arabic, French, English & Spanish), Water projects assessment and benchmarking, remote sensing, and information systems. Last work carried out: translation from English & French to Arabic of the feasibility study related to the project of construction of the "National Water Training Centre" in Riyadh (Saudi Arabia) carried out by OIEau (International Office of Water, France) & BRGM (Bureau de recherches géologiques et minières, France) for the Ministry of Water and Electricity in Saudi Arabia.

Many other international boards, committees and networks

- Member of the Arab Water Council (AWC)
- Member of the Arab Integrated Water Resources Management Network (AWARENET)
- Member of Oman Water Society and Omani Energy Majlis (Initiative of the Dutch Embassy in Oman)
- Member of the European Desalination Society (EDS)
- Member of the International Desalination Association (IDA) – R&D Committee
- Member of the IUCN Commission on Education & Communication (CEC)
- Member of the Global Change Unit, University of Valencia, Spain
- Member of Jury (Examiners Board) of several PhD thesis (University of Valencia, Lebanese University, etc)
- Co-Supervisor of MSc students at Sultan Qaboos University and the National University, Oman
- Member of the organizing and the scientific committees of several international conferences, judging committee of International competitions, etc.

Relevant publications

- J. A. Sobrino, **J. El-Kharraz**, Z.-L. Li, Z. Wan (1999). Surface Temperature Retrieval from MODIS data. In Sensors, Systems, and Next-

Generation Satellites IV, Hiroyuki Fujisada, Joan B. Lurie, Alexander Ropertz, Konradin Weber, Editors, SPIE Vol. 4169, pp. 249-260. (ISBN: 0-8194-3825-1)

- J. A. Sobrino, **J. El Kharraz**, Zhang-Liang Li (2003) Surface temperature and water vapour retrieval from MODIS data. International Journal of Remote Sensing, Vol. 24, No. 24, pp. 5161-5182
- **El Kharraz, J.**; Sobrino, J. A.; Morales, L.; Jimenez-Munoz, J. C.; Soria, G. P.; Gomez, M.; Romaguera, M.(2004); "Land cover dynamic analysis over the Mediterranean Basin by means of remotely sensed and climate data", SPIE, Proceedings- SPIE The International Society for Optical Engineering; 5232; 627-634; ISBN: 0819451150
- **J. El Kharraz** & E. Mino (2006): EMWIS/SEMIDE: The Euro-Mediterranean information system on know how in the water sector, in Sustainable Water Management Journal, No. 2, pp.38-42
- **J. El Kharraz** et al. (2008). Mediterranean Water Scarcity and Drought Final Report, Mediterranean Water Scarcity & Drought Working Group, with the support of the European Commission (MED-EUWI)
- **J. El Kharraz (2010)**. Right to Water in the MENA region, World Justice Project MENA Regional Conference 2010 Proceedings, World Bank, Washington DC
- **J. El Kharraz**, A. El-Sadek, N. Ghaffour, and E. Mino. (2012), "Water scarcity and drought in WANA countries"; Procedia Engineering 33: 14-29. doi:10.1016/j.proeng.2012.01.1172. <http://www.sciencedirect.com/science/article/pii/S1877705812012039>
- **J. El Kharraz**, et al. (2012): Regional solutions for water scarcity in West Asia & North Africa; WANA Forum (Regional Think Tank in West Asia & North Africa). A Policy Brief based on the WANA Forum Consultation organized in Amman one year earlier. pp. 24-27. <http://www.emwis.net/thematicdirs/news/2012/03/wana-water-policy-brief-presented-marseille-during-world-water-forum>
- **J. El Kharraz** et al. (2012). "Financing the collection and treatment of industrial and urban wastewater in the Mediterranean", Target Med4.2, Mediterranean Cross Continental Process, Priority 4: Urban and Industrial Wastewater collection and treatment, distributed in the World Water Forum in Marseille.
- **J. El Kharraz** et al.(2012), National & Trans-boundary Water Resources Management in Africa" report, prepared in Ghana. <http://www.emwis.net/documents/meetings/events/dodowa/final-report-seminar>
- **J. El Kharraz** et al., UNESCO Science Report (2015) - The Arab States, © UNESCO 2015 - ISBN 978-92-3-100129-1 - <http://unesdoc.unesco.org/images/0023/002354/235406e.pdf>
- **J. El Kharraz (2015)**, Solar Desalination, Arab World Water (AWW), Vol. XXXVIII Issue 12, <http://www.awwmag.com/Flipbook.html>
- **J. El Kharraz (2016)**, An operational Early Warning System for 'Combating the Emerging Impacts of Harmful Algal Blooms (HABs) in Oman, Arab World Water (AWW), pp 46-47, Volume XXXX issue No. 3, <http://www.awwmag.com/PDFFiles/AWW-March-2016.pdf>
- **J. El Kharraz (2017)**, "Fresh Water scarcity in the Middle East and North Africa: The need for practical solutions", Global Young Academy magazine: GYA connections — Issue 5 | pp. 14-19. https://globallyoungacademy.net/wp-content/uploads/2017/05/Connections-issue-5_lowres_AK3.pdf
- **J. El Kharraz** & A. Al-Hinaai (2017), Environmentally Friendly Desalination Techniques for Farmers & Small-Scale Plants, Volume XL issue No. 2, Arab Water World (AWW) magazine, Page: 41 - <http://www.awwmag.com/PDFFiles/AWW-February-2017.pdf>
- **J. El Kharraz (2018)**. MEDRC and knowledge sharing for water desalination, Development through sharing Magazine, Islamic Development Bank, Tudor Rose, ISBN 978-0-9956487-2-2.
- **J. El Kharraz (2018)**. Scientific cooperation between the Arab countries and Europe, Chapter of regional report of Arab Thought Foundation. https://www.researchgate.net/publication/324771026_grat_fy_altawn_allmy_alrby_alawrwby
- **J. El Kharraz**, G. Zaragoza, N. Ghaffour (2018), Prospects of Desalination using Solar Energy in the MENA Region, pp. 17-24, Proceedings of the Workshop on Water-Energy-Food-Ecosystems (WEFE) Nexus and SDGs, JRC Conference and Workshops reports. https://www.un-ihe.org/sites/default/files/19_jrc_procworkshopwaterenergyfoodecosystemsnexusandsdgs.pdf
- L. Gebrati, M. El Achaby, H. Chatoui, M. Laqbaqbi, **J. El-Kharraz**, F. Aziz (2018). Inhibiting effect of textile wastewater on the activity of sludge from the biological treatment process of the activated sludge plant, Saudi Journal of Biological Sciences - DOI: 10.1016/j.sjbs.2018.06.003
- M. Laqbaqbi, M.C. Garcia-Payo, M. Khayet, **J. El Kharraz**, M. Chaouch (2019), Application of direct contact membrane distillation for textile wastewater treatment and fouling study, Separation and Purification Technology (ScienceDirect), Volume 209, pp 815-825, <https://doi.org/10.1016/j.seppur.2018.09.031>
- **J. El Kharraz**, et al. (2019), A collaboratively-derived international research agenda on legislative science advice, Palgrave Communications volume 5, Article number: 108 - <https://www.nature.com/articles/s41599-019-0318-6>
- Aziz F., El Achaby M., Ouazzani N., **El-Kharraz J.**, Mandi L. (2020), Rainwater Harvesting: A Challenging Strategy to Relieve Water Scarcity in Rural Areas. In: Patnaik S., Sen S., Mahmoud M. (eds) Smart Village Technology. Modeling and Optimization in Science and Technologies, vol 17. Springer, Cham - https://link.springer.com/chapter/10.1007/978-3-030-37794-6_13
- **J. El Kharraz (2020)**, Desalination as an alternative to alleviate water scarcity and a climate change adaptation option in the MENA region, regional study funded by Konrad Adenauer Stiftung, ISBN 978-3-95721-811-7
- **J. El Kharraz**, al. (2020), Promoting human-centric technologies and urban nexus for addressing Water-Energy-Food (WEF) sustainability challenges of smart cities, "policy brief for the G20 summit in Saudi Arabia". https://t20saudiarabia.org.sa/en/briefs/Pages/Policy-Brief.aspx?pb=TF10_PB11

Relevant Projects: Coordination, Implementation, Participation

Title of the project	Funding	Period	Role
Reuse of RO membranes for wastewater treatment in agricultural and industrial applications (REROM)	The Research Council, Oman (USD 275.000)	2019-2021	PI
TAHLYA: A vocational training on desalination O&M for fresh graduates	BP Oman: CSR project, USD 270.000 per year (2 years)		Trainer (4 modules)
TAHLYA SME: A vocational training on desalination plants design and creation of SMEs in the field of desalination	BP Oman: CSR project, USD 270.000 per year		Trainer (6 modules)
Solar Still for agriculture	Dutch Embassy, Oman (2 phases: EUR 125.000 + 17.000)	2018 - 2021	Partner + PI (2 nd Phase)
Desalination for sustainable agriculture	Omani Ministry of Agriculture & Fisheries (EUR 150.000)	2017-2019	Partner and Site Pilot Manager
Oman Humanitarian Desalination Challenge	The Research Council, Oman (USD 1 million)	2018-2022	CO-PI
Oman Humanitarian Desalination Challenge: Research Path	USAID (USD 933.000)	2018-2022	CO-PI
Water Drop	ENPI CBC Med (€ 1.989.519)	2013– 2016	Partner
Combatting the Emerging Impacts of Harmful Algal Blooms (HABs) on Desalination Plants: Bloom Detection, Forecasting, and Strategies for Impact Reduction	USAID (USD 658.000)	2014– 2016	Co-Coordinator
Regional project on Strengthening National Water Information Systems and Harmonization of Data Collection towards a Shared Water Information System	UfM Secretariat (EUR 13 million proposed not fully obtained)	2012- 2015	Co-Coordinator
Mediterranean Network of Water Training Centres (AquaForMed)	UfM Secretariat	2013- 2016	Co-Coordinator
Euro-Mediterranean Strategic Platform for an adapted waste management (MED-3R)	ENPI-CBC Med Strategic (EUR 3.600.000)	2012- 2015	Partner (Responsible on Dissemination and Exploitation)
Regional Knowledge Network on Systemic Approaches to Water Resources Management (RKNOW)	European Commission (INCO NGO), (EUR 300.000)	2013-2016	Partner (Responsible on regional knowledge transfer)
Halting Desertification in Europe: "Pilot Arno Water Accounts (PAWA)	European Commission DG Environment (EUR 200.000)	2014-2015	Partner
Online Professional Irrigation Scheduling Expert System (OpIRIS)	EC FP7-KBBE-2013-7-single-stage (EUR 1 295 851)	2013-2014	Partner (Responsible on Dissemination & Market uptake)
SmArt water management with Integrated Decision support system (SAID)	EC FP7-ENV-2013-WATER INNO&DEMO-1 (EUR 3.228.581)	2013-2015	Partner (Responsible on Dissemination & Market uptake)
Demonstrating integrated innovative technologies for an optimal and safe closed water cycle in Mediterranean tourist facilities (DemandEauMed)	EC - FP7-ENV-2013-WATER-INNO-DEMO (EUR 5 897 129)	2013-2016	Partner (Responsible on Dissemination & Market uptake)
Water & Energy Advanced Management for Irrigation (WEAM4i)	EC - FP7-ENV-2013-WATER-INNO-DEMO (EUR 7 646 508)	2013-2015	Partner (Responsible on Dissemination & Market uptake)
Extensions of Shared Environmental Information System – SEIS- to South Med countries promoted by the European Commission	European Environmental Agency (EEA), (EUR 60.000)	2012-2013	Co-Coordinator
Halting desertification in the Júcar River Basin	European Commission DG Environment, EUR 150.000	2012	Partner
Towards a Mediterranean water information mechanism compatible with the water information system for Europe (WISE): Adapting WISE (Water Information System of Europe) to the Mediterranean	European Environmental Agency (EEA), (EUR 150.000)	2008-2010	Co-Coordinator
Construction of a Training centre on water issues in Riadh	Ministry of Water and Electricity in Arabia	2006-2009	Consultant

(Saudi Arabia)	Saudi		
Multichannel and Multi-angle algorithms for deriving sea and land surface temperatures with ENVISAT-AATSR data	European Space Agency (Project: AO-ID 384)	1999-2002	Research partner
Water use efficiency in natural vegetation and agricultural areas by Remote Sensing in the MEDiterranean basin (WATERMED)	European Commission (ICA3-ct-1999-00015) (INCO-MED)	2000-2003	Co-Coordinator (PhD funded by this project)
Solar Induced Fluorescence Experiment (SIFLEX)	European Space Agency (ESTEC Contract No. 16030/02/NL/SF).	2002-2003	Research partner
Impact of climate change on the sustainability of livestock production in Mediterranean and Chile's arid and semi-arid region.	Spanish Ministry for Foreign Affairs (International Cooperation)	2004-2005	Co-Coordinator