

KISR Scientific Papers Published January – March 2020

Kuwait Institute for Scientific Research

National Scientific and Technical Information Center (NSTIC)

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## **Introduction:**

Science and Technology Publishing Program (STPP) team at the National Scientific & Technical Information Center (NSTIC) received the list of publications for the period January – March 2020 from Project Management Office (PMO) for all the following scientific research centers:

- ✓ Water Research Center (WRC)
- ✓ Energy & Building Research Center (EBRC)
- ✓ Petroleum Research Center (PRC)
- ✓ Environment & Life Sciences Research Center (ELSRC)
- ✓ Techno-Economics Division (TED)

The team utilized the Journal Citation Reports (JCR) and Scimago Journal Ranking (SJR) as journal evaluation tools and verified all publications and journals' rankings received from Project Management Office (PMO).

This report explains and analyzes the publications for the period January – March 2020 for all the above-mentioned Scientific Research Centers/ Divisions/Departments. The data is illustrated by tables & figures.

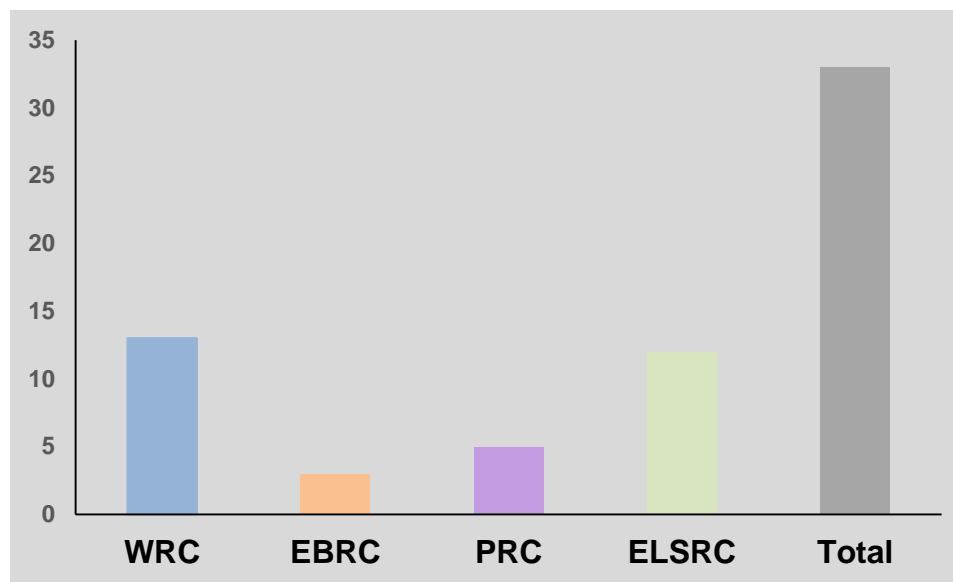
**Findings:**

The Scientific Research Centers/Divisions/Departments at Kuwait Institute for Scientific Research (KISR) published 33 scientific papers during January – March 2020 (table1), (Figure1), illustrated as follows:

✦ **33** scientific papers were published in **21** journals that have ranking quartiles:

Center / Division/ Department	January – March 2020
WRC	13
EBRC	3
PRC	5
ELSRC	12
<b>Total</b>	<b>33</b>

**Table 1:** Total KISR Scientific Papers Published during January – March 2020



**Figure 1:** Total KISR Scientific Papers Published during January – March 2020

## Publications during January – March 2020

The following detailed table demonstrates the scientific papers Published in January – March 2020 including information related to paper title, KISR No., author name, journal title, ISSN, Journal quartile ranking according to each subject category and publication month/year per each Research Center/ Division/ Department:

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
1	Effect of Electrochemical Regeneration on the Surface of a Graphite Adsorbent Loaded with an Organic Contaminant	14549	H. Mohammad A. D. Martin P. I. Hill N. Hodson N. Brown E. P. L. Roberts	International Journal of Environmental Science and Technology	1735-1472		*Environmental Sciences			Q2	Jan- 20	WRC
2	Microbial Community Structure of Anode Electrodes in Microbial Fuel Cells and Microbial Electrolysis Cells (WR053)	15939	A. Almatouq A. O. Babatunde M. Khajah G. Webster M. Alfodari	Journal of Water Process Engineering	2214-7144	Water Recourses	*Engineering Chemical *Engineering Environmental			Q1	Apr- 20	WRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
3	Hydraulic Evaluation of a Dewatering Scheme in Shallow Aquifers in Kuwait (WT032C)	14673	A. Aliewi H. Al-Qallaf T. Rashid A. Al-Odwani	Quarterly Journal for Engineering Geology and Hydrogeology	1470-9236			*Engineering, Geological  *Geosciences, Multidisciplinary  *Geosciences, Interdisciplinary		Q1	Jun-20	WRC
4	Investigation of Polar and Nonpolar Material in the Groundwater of Raudhatain and Umm Al-Aish Fresh Groundwater Field in Kuwait (WM007G)	15401	T. Rashid A. Al-Haddad B. Al-Salman A. Bushehri	Desalination and Water Treatment	1944-3986				* Engineering, Chemical  *Water Resources	Q2	Feb-20	WRC
5	Virus Removal from Treated Wastewater in Modified Garden Soil Columns, Kuwait (WM006C)	15402	A. Al-Haddad T. Rashid B. Al-Salman H. Naseeb	Desalination and Water Treatment	1944-3986				*Engineering, Chemical  *Water Resources	Q2	Feb- 20	WRC



No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
6	Modeling of Temperature Governed Saturation States and Metal Speciation's in the Marine Waters of Kuwait Bay – Concern to the Desalination Process (WM068C)	15404	S. Chidambaram H. Bhandary A. Al-Khalid	Desalination and Water Treatment	1944-3986				* Engineering, Chemical  *Water Resources	Q2	Feb-20	WRC
7	A Comparative Study of Two Different Forward Osmosis Membranes Tested using Pilot Plant System for Arabian Gulf Seawater (WR041)	15394	M. Ahmed Y. Al-Wazzan R. Kumar B. Garudachari J. P. Thomas	Desalination and Water Treatment	1944-3986				*Engineering, Chemical  *Water Resources	Q2	Feb-20	WRC
8	Assessment of Performance Recently Developed Acriflavine Thin Film Composite Nanofiltration Membrane for Seawater Treatment and RO Brine	15396	B. Garudachari M. Ahmed K. A. Rajesha J. Thomas	Desalination and Water Treatment	1944-3986				*Engineering, Chemical  *Water Resources	Q2	Feb-20	WRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
	Concentrations (WR040)											
9	Synthesis and Evaluation of Nanocomposite Forward Osmosis Membranes for Kuwait Seawater Desalination (WR039)	15397	R. Kumar M. Ahmed B. Garudachari J. P. Thomas	Desalination and Water Treatment	1944-3986				*Engineering, Chemical  *Water Resources	Q2	Feb-20	WRC
10	Extraction of Valuable Minerals from Reserve Osmosis Brine in Kuwait (WR042)	15398	M. Safar B. Garudachari S. Al-Muqhawi M. Ahmed	Desalination and Water Treatment	1944-3986				*Engineering, Chemical  *Water Resources	Q2	Feb-20	WRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
11	Removal of Odorous Compounds from Hospital Wastewater (WT053K)	15399	A. Mydlarczyk A. Al-Haddad H. Abdullah	Desalination and Water Treatment	1944-3986				*Engineering, Chemical  *Water Resources	Q2	Feb-20	WRC
12	Seasonal Variations of the Growth of Filamentous Bacteria in Kuwait's Wastewater Treatment Plants (WT025C)	15411	A. Abusam F. Al-Salameen A. Mydlarczyk	Desalination and Water Treatment	1944-3986				*Engineering, Chemical  *Water Resources	Q2	Feb-20	WRC
13	Improving the Irrigation Efficiency of Kuwait Native Shallow Groundwater using Phytoremediation Technology (FA159C)	15037	H. Burezq A. Aliewi	Desalination and Water Treatment	1944-3986				*Engineering, Chemical  *Water Resources	Q2	Feb-20	WRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
14	Enhancing Mechanical Properties of Concrete using Pitch-based Carbon Fibers	15606	H. Almuhanna	International Journal of Engineering and Technology	23198613	NR	NR	NR	NR	Q4	June-19	EBRC
15	Trends in Road Transportation fuel consumption and carbon dioxide emission – A scenario analysis using system dynamic modeling	15893	Sarah Al-Osaimi, Sreekanth K.J., Ruba Al-Foraih, Sarah Al-Kandari	International Journal of Sustainable Energy	1478646X	NR	NR	NR	NR	Q2	Dec.-19	EBRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
16	Comparison of Tio2 nanowires and Tio2 nanoparticles for Photodegradation of resorcinol as endocrine model	15962	Latifa AL-Hajji, Adel Ismail, Mariam Alsaiedi, Fatin AL-Mutwaa, Shorouq Ahmed, Ali Bumajdad	Journal of Nanoparticles Research	13880764			Chemistry, Multidicip.  Nanoscience & Nanotech.  Material Science		Q2	Jan-20	EBRC
17	Column bioleaching of metals from refinery spent catalyst by Acidithiobacillus thiooxidans: Effect of operational modifications on metal extraction, metal precipitation, and bacterial attachment	15947	Ashish Pathak Haragobinda Srichandan  Dong Jin Kim	Journal of Environmental Management	10958630	Environmental Sciences				Q1	July-19	PRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
18	Delineation of Most Efficient Recovery Technique for Lower Fars Heavy Oil Reservoirs through Compositional Simulation of Temperature-Dependent Relative Permeability	16035	Sharoh Marqez, Samira Ghafori, Mohammed Omer Dr. A. Al-Marshed,	Journal of Petroleum Science and Engineering	09204105	Engineering, Petroleum	Energy & Fuels			Q1	Mar.-20	PRC
19	Thermal and Rheological Response to ultraviolet stabilizers additive in linear low density polyethylene under server environmental condition	15937	Meshal Al-Samhan Fatma Al-Attar Jamal Al-Fadli Gils Abraham	Journal of environmental science and technology	19947887	NR	NR	NR	NR	Q3	Dec.-19	PRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
20	Emerging role of organic acids in leaching of valuable metals from refinery - spent hydroprocessing catalysts, and potential techno-economic challenges : A review	15948	Ashish Pathak Mari Vinoba Richa Kothari	Critical reviews in environmental science and technology	15476537	Environmental Sciences				Q1	Jan-20	PRC
21	Sulfur Speciation of Kuwaiti Crude Oils Fractions using two-dimensional gas chromatography	15949	Hassan Al-Rabiah Latifa Al-Ostad Tahani Al-Shamary Abdulwahab Al-Hendi Hisham Al-Henayyan Roaya Khazemi	Arabian Journal of Chemistry	18785352		Chemistry, Multidiscp.			Q1	Feb-20	PRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
22	Influence of hot air drying and freeze-drying on functional, rheological, structural and dielectric properties of green banana flour and dispersions.	15934	Dr. Jasim Ahmed Linu Thomas Rawan Khashawi	Food Hydrocolloids	0268005X	Chemistry, Applied  Food Science & Technology				Q1	Feb-20	ELSRC
23	Elevated concentrations of bromate in drinking water and groundwater from Kuwait and associated exposure and health risks	15929	Dr. Husam F. Alomirah Dr. Sameer F. Al-Zenki Marivi C. Alaswad Noor A. Alruwaih Qian Wu Kurunthachalam Kannan	Environmental Research	10960953	Environmental Sciences  Public, Environmental & Occupational Health				Q1	Feb-20	ELSRC



No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
24	Evaluation of Various Growth Conditions for the Cultivation of Microalgae Species in the Arid Regions.	15908	V Kumar, S Al-Momin, VK Vanitha, H Al-Aqeel, L Al-Musallam, H Al-Mansour, AB Shajan	Journal of Mechanics of Continua and Mathematical Sciences	0973-8975	NR	NR	NR	NR	NR	Jan-20	ELSRC
25	Exposure Levels of Air Pollution (PM2.5) and Associated Health Risk in Kuwait	15925	A. Al-Hemoud, J.Gasana, A. N.Al-Dabbous, A. Alajeel, A. Al-Shatti, W. Behbehani, M. Malak	Environmental Research	10960953	Environmental Sciences Public, Environmental & Occupational Health				Q1	Jan-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
26	Comparison of different dietary sources of n-3 polyunsaturated fatty acids on immune response in broiler chickens	15999	H. Al-Khalaifa, A. Al-Nasser, D.I. Givens, C. Rymer, P. Yaqoob	Heliyon	24058440	NR	NR	NR	NR	Q1	Jan-20	ELSRC
27	Genetic Diversity Analysis of <i>Rhanterium eppaposum</i> Oliv. by ISSRs Reveals a Weak Population Structure	16059	Fadila Al Salameen, Nazima Habibi, Sami Al Amad, Vinod Kumar, Jamal Dashti, Lina Talebi, Bashayer Al Doaij	Current Plant Biology	22146628	NR	NR	NR	NR	Q1	Jan-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
28	Microplastics in Kuwait marine Environment: Results of First Survey	15938	Sheikh T. Saeed, N.Al-Jandal, A.Al-Mutairi, H.Abdullah	Marine Pollution Bulletin	0025326X	Marine & Freshwater Biology	Environmental Sciences			Q1	Mar.-20	ELSRC
29	Po uptake in microalgae at different seawater pH: An experimental study simulating ocean acidification	15987	S.Uddin, M.Behbehnai, L.Mussallam, V.V.Kumar, S.Sajid	Marine Pollution Bulletin	0025326X	Marine & Freshwater Biology	Environmental Sciences			Q1	Feb-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
30	Effect of Different Levels of Multienzymes on Immune Response, Blood Hematology and Biochemistry, Antioxidants Status and Organs Hostology of Broiler Chicks Fed Standard and Low-Density Diets	15964	Y.A. Attia, H. Al-Khalaifah, H. S. Abd El-Hamid, M.A. Al-Harhi, A. A. El-shafey	Frontiers in Veterinary Science	22971769	Veterinary Sciences				Q1	Feb-20	ELSRC
31	Growth Performance, Digestibility, Intestinal Morphology, Carcass Traits and Meat Quality of Broilers Fed Marginal Nutrients Deficiency-Diet Supplemented with Different Levels of Active Yeast	15998	Yousef Attia, Hanan Al-Khalaifa, Hatem Abd El-Hamid, M. Al-Harhi, Ali El-Shafey	Livestock Science	18711413		Agriculture, Dairy, & Animal Science			Q1	Mar.-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
32	Hydrogen-rich gas stream from steam gasification of biomass: Eggshell as a CO <sub>2</sub> sorbent	16055	Shakirudeen A. Salaudeen , Mohammad Heidari, S.M. Al-Salem, Animesh Dutta	Energy & Fuels	08870624		Energy & Fuels  Engineering Chemical			Q1	Feb-20	ELSRC
33	Valorisation of End of Life Tyres (ELTs) in a Newly Developed Pyrolysis Fixed-Bed Batch Process	16057	S.Al-Salem	Process Safety and Environmental Protection	0957-5820	Engineering, Environmental	Engineering, Chemical			Q1	June-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Q1	Q2	Q3	Q4	Scimago (SJR)	Date Published	Research Center
						Category	Category	Category	Category			
34	Availability and mean time to failure of K-out-N : G system	14485	Mohammad Hajeeh	International Journal of Information and decision sciences	1756-7025						NP	TED

- The highlighted paper in yellow has not been published yet.