

Kuwait Institute for Scientific Research
National Scientific & Technological Information Center (NSTIC)
Scientific Papers Published (Highest Rank) April – September 2020
January 2021

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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 April–September 2020 from Project Management Office (PMO) for 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 April–September 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 **49** scientific papers during April – September 2020 (table1), (Figure1), illustrated as follows:

✦ **49** scientific papers were published in **37** journals that have ranking quartiles:

Center / Division/ Department	April – Sep. 2020
WRC	5
EBRC	9
PRC	3
ELSRC	30
SSDD	2
Total	49

Table 1: Total KISR Scientific Papers Published during April – Sep. 2020

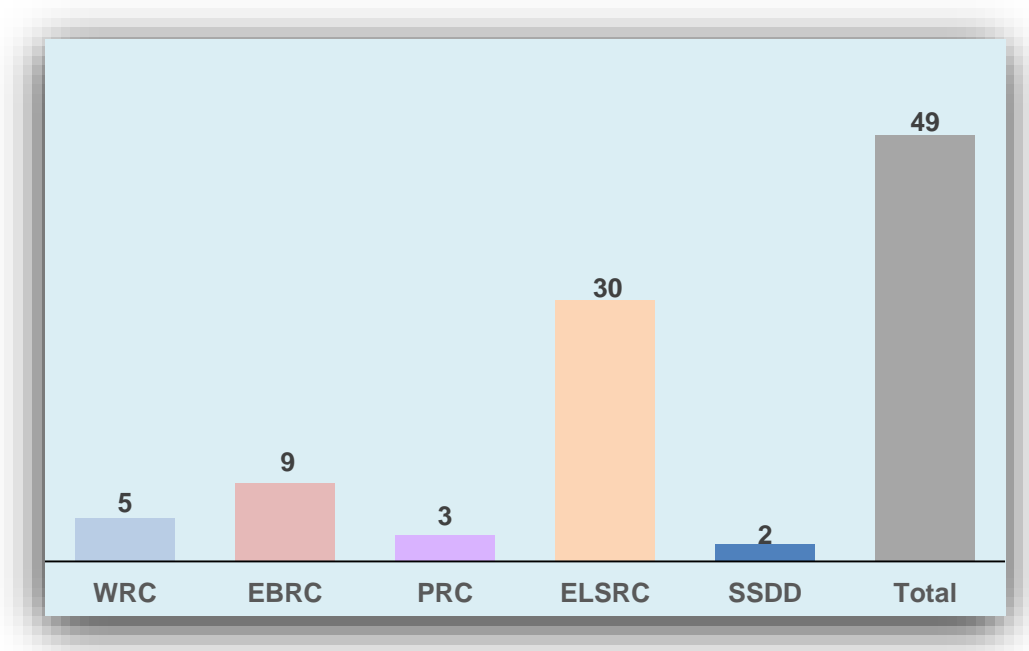


Figure 1: Total KISR Scientific Papers Published during April – Sep. 2020

Journal Ranking Quartiles April – Sep. 2020	WRC	EBRC	PRC	ELSRC	TED	SSDD	Total
Quartiles 1	4	9	2	19	0	0	34
Quartiles 2	1	0	1	9	0	1	12
Quartiles 3	0	0	0	2	0	1	3
Quartiles 4	0	0	0	0	0	0	0
Total Journal Ranking Quartiles	5	9	3	30	0	2	49

Table 2: Journal Ranking Quartiles for KISR Scientific Papers Published during April – Sep. 2020

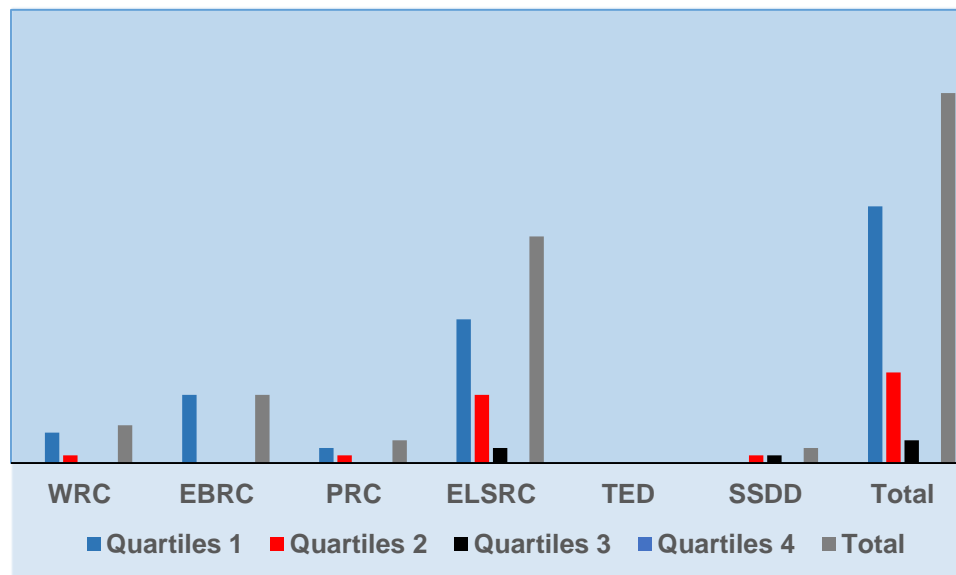


Figure 2: Journal Ranking Quartiles for KISR Scientific Papers Published during April – Sep. 2020

Non-Ranked Journals April – Sep. 2020	WRC	EBRC	PRC	ELSRC	TED	SSDD	Total
NR	0	0	0	1	0	0	1

Table 3: KISR Scientific Papers published in Non-Ranked (NR) Journals during April – Sep. 2020

Publications during April – September 2020

The following detailed table demonstrates the scientific papers published in April – September 2020 including information related to paper title, KISR No., author name, journal title, ISSN, journal quartile ranking, and publication's month/year per each Research Center/ Division/ Department:

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
1	Assessment of trace inorganic contaminates in water and sediment to address its impact on common fish varieties along Kuwait Bay	16099	Ameena Ali , Sabarathinam Chidambaram	Environmental Geochemistry and Health	15732983, 02694042	Q1	Apr-20	WRC
2	Adequacy of Logistic Models for Describing the Dynamics of COVID Pandemic	16113	A. Abusam, R. Abusam, B. Al-Anzi	Infectious Disease Modelling	24680427	Q1	Aug-20	WRC
3	Estimation of Submarine groundwater discharge and nutrient loading using Radium Isotopes quartet in Kuwait	16083	H. Bhandary, S. Chidambaram	Arabian Journal of Geosciences	18667538, 18667511	Q2	Aug-20	WRC
4	Paleoclimatic investigations using isotopic signatures of the Late	16098	Chidambaram Sabarathinam, Tariq Rashid, Habib Al-Qallaf,	Journal of Hydrology	00221694	Q1	Sep-20	WRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
	Pleistocene-Holocene groundwater of the stratified aquifers in Kuwait.		Khaled Hadi, Harish Bhandary					
5	The effect of chemistry of nanoparticle modifier groups on the PVDF membranes for membrane distillation	16150	Rajesha Kumar, Mansour Ahmed, Garudachari Bhadrachari, Abbas Al-Missri, Jibu P. Thomas	Chemical Engineering Research and Design	17443563, 02638762	Q1	Dec.-20	WRC
6	The formation mechanism of hexagonal Mo ₂ C defects in CVD grapheme grown on liquid copper	16107	M. Saeed, J. Robson, I.A. Kinloch, B. Derby, Chu-Da Liao, S. Al- Awadhi	Physical Chemistry Chemical Physics	14639084, 14639076	Q1	Jan-20	EBRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
7	On the Role of Nanofluids in Thermal-Hydraulic Performance of Heat Exchangers—A Review	16061	Salah Almurtaji, Naser Ali, Joao A. Teixeira, Abdulmajid Addali	Nanomaterials	20794991	Q1	Apr-20	EBRC
8	Glass-Forming Ability and Soft Magnetic Properties of (Co ₇₅ Ti ₂₅) _{100-x} Fe _x (x; 0–20 at. %) Systems Fabricated by SPS of Mechanically Alloyed Nanopowders	16097	Mohamed Sherif El-Eskandarany, Naser Ali and Maryam Saeed	Nanomaterials	20794991	Q1	Apr-20	EBRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
9	Synthesizing of novel bulk (Zr ₆₇ CU ₃₃) 100-xWx Glassy alloys by spark plasma sintering of mechanically alloyed powders	16105	Mohamed Sherif El-Eskandarany and Naser Ali	Molecules	14203049	Q1	Apr-20	EBRC
10	Conductivity extraction of thin Ti ₃ C ₂ T _x MXene films over 1–10 GHz using capacitively coupled test-fixture	16095	K. Al-hasson, M. Han, Y. Malallah, V. Ananthakrishnan, R. Rakhmanov, W. Reil, Y. Gogotsi, A. Daryoush	Applied Physics Letters	10773118, 00036951	Q1	May-20	EBRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
11	Solid – State conversion of magnesium waste to advanced hydrogen storage Nano powder particles	16127	M. El-Eskandarany, N. Ali, S. Al-Salem	Nanomaterials	20794991	Q1	May-20	EBRC
12	Broadband RF characterization and extraction of material properties in 30 printed composite substrates for magnetically tuned circuits	16060	K. Alhassoon Y. Malallah J. Alcantar-Peña N. Kumar A. S. Daryoush	IEEE Transactions on Microwave Theory and Techniques	15579670, 00189480	Q1	Jun-20	EBRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
13	Photoelectrochemical etching of ca203	16106	B. Alhalaili, R.V.H. Mao, O. Kamoun, M. S. Islam	Ceramics International	02728842	Q1	Aug-20	EBRC
14	Top-down reactive approach for the synthesis of disorder Zn nanocrystalline bulk material from solid waste	16140	M.EL-Eskandarany, S. Al-Salem, N. Ali	Nanomaterials	20794991	Q1	Sep-20	EBRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
15	Accurate Modeling of Asphaltene Onset Pressure in Crude Oils under Gas Injection Using Peng-Robinson Equation of State	16103	Mohammed I. L. Abutaqiya, Caleb J. Sisco, Yash Khemka, Muhieddine A. Safa, Ebtisam F. Ghloom, Abeer Rashed, Ridha Gharbi, Sriram Santhanagopalan, Misfera Al-Qahtani, Eman Al-Kandari, Francisco M. Vargas	Energy & Fuels	08870624, 15205029	Q1	Mar.-20	PRC
16	Effect of catalyst and feed properties on the deactivation parameters of an ARDS process model for HDS and HDM reactions	16100	Hamza Albazzaz, Dawoud Bahzad Dduha Chehadeh, Mohammad Khajah,	Chemical Engineering Communications	00986445, 15635201	Q2	Aug-20	PRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
17	A novel approach for investigating the effect of flowing fluid on the susceptibility of alloys to environmental stress cracking	16092	R. Rihan, B. Al-Wakaa, N. Tanoli	Journal of Petroleum Science and Engineering	09204105	Q1	Sep-20	PRC
18	Abundance and Reproductive Traits of Two Harpacticoid Copepod species under an increasing Salinity Gradient	16034	R. Kobbi-Rebai, N. Annabi-Trabelsi, S. Al-Jutail, Y. Al-Enezi, M.N.V. Subramaniyam, H. AyadiM. Ali, G. Belmonte	Aquatic Ecology	13862588, 15735125	Q2	Jan-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
19	Genetic diversity analysis of <i>Rhanterium eppaposum</i> Oliv. by ISSRs reveals a weak population structure	16059	FadilaAl Salameen, NazimaHabibi, SamiAl Amad, VinodKumar, JamalDashti, LinaTalebi, BashayerAl Doajj	Current Plant Biology	22146628	Q1	Jan-20	ELSRC
20	Hydrogen-Rich gas stream from steam gasification of Biomass: Eggshell as a CO ₂ Sorbent	16055	Shakirudeen A. Salaudeen, Bishnu Acharya, Mohammad Heidari, S.M.Al-Salem, Animesh Dutta	Energy & Fuels	08870624, 15205029	Q1	Feb-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
21	Efficacy of Mating disruption compared with chemical insecticides for controlling Tuna absoluta (Lepidoptera: Gelechiidae) in Kuwait.	16109	Mustapha Jallow, Abdelhafiz Dahab, Mohammed Albaho, Vimala Devi, Joby Jacob, Omar Al-Saeed	Applied Entomology and Zoology	00036862, 1347605X	Q2	Mar-20	ELSRC
22	Controlling Lambs Mortality Through Ewes' Vaccination in the Farms of Kuwait	16135	H.A. Burezq, F. Khalil, J. Dashti, A. Essawi, F. Al-Thefeeri, M. Farouq	The Journal of Animal and Plant Sciences	10187081	Q3	Jun.-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
23	Combating wind erosion through soil Stabilization under simulated wind flow condition-case of kuwait	16148	Hana'a Burezq	International soil and water conservation research	20956339	Q1	Jun.-20	ELSRC
24	Computational Fluid Dynamics and Reaction modelling study of Bio-Oil Catalytic Hydrodeoxygenation in Microreactors	16073	Sanaa Hafeez, Elsa Aristodemou, George Manos, S.M. Al-Salem, Achilleas Constantinou	Reaction Chemistry and Engineering	20589883	Q1	Jun.-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
25	Pyro-Oil and wax recovery from reclaimed plastic waste in a continuous auger pyrolysis reactor	16076	S. Alem, Y. Yang, J. Wang, G.A. Leeke	Energies	19961073	Q2	Apr-20	ELSRC
26	Ozone (O ₃) Ambient levels as a Secondary Airborne Precursor in Fahaheel Urban Area, The state of Kuwait	16056	M.Al-Qassimi, S.M. Al-Salem	Atmospheric Science Letters	1530261X	Q2	May-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
27	Molten Solar Salt Pyrolysis of Mixed Plastic Waste: Process Simulation and Technoeconomic Evaluation	16070	Guozhan Jiang, Jiawei Wang, Sultan Al-Salem, Gary Leeke	Energy & Fuels	08870624, 15205029	Q1	May-20	ELSRC
28	Evidence of Microplastic in Gulf Content of Major Consumed Marine Fish Species in the State of Kuwait (of the Arabian/Persian Gulf)	16074	S.M. Al-Salem, Saif Uddin, Brett Lyons	Marine Pollution Bulletin	0025326X, 18793363	Q1	May-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
29	Evaluating farm size and technology use in poultry production in Kuwait	16154	A-AL-Nasser, H.AL-Khlaifa, H.AL-Mansour, A.Ahmad, G. Ragheb	World's Poultry Science Journal	17434777, 00439339	Q1	May-20	ELSRC
30	Microplastic particles in the Persian/ Arabian Gulf-A Review on sampling and identification	16172	S.Uddin, S.W.Fowler. T.Saeed	Marine Pollution Bulletin	0025326X, 18793363	Q1	May-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
31	Bio-Hydrogen Production by Catalytic supercritical Water Gasification : A comparative study	16054	Mohammad Shahed Tushar, Paul C Dimaria, S.M.Al-Salem, Animesh Dutta, Chunbai XU	ACS Omega	24701343	Q1	Jun-20	ELSRC
32	Valorization of End of life tyres in a Newly Developed Pyrolysis Fixed - Bed Batch Process	16057	S.M. Al-Salem	Process Safety and Environmental protection	17443598, 09575820	Q1	Jun-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
33	Identification of Commercial Oxo-Biodegradable Plastics: Study of UV induced Degradation in an Effort to Combat Plastic Waste Accumulation	16068	Ana Antelava, Achilleas Constantinou, Al-Bumajdad, George Manos, Raf Dewil and S.M. Al-Salem	Journal of Polymers and the Environment	15728900, 15662543	Q2	Jun-20	ELSRC
34	Thermal Degradation kinetics of real-life reclaimed plastic solid waste (PSW) from an active landfill site: The mining of an unsanitary arid landfill	16069	S.M. Al-Salem, H.J.Karam, M.H. Al-Wadi, S. Alsamaq, G. Jiang, J. Wang, G.A. Leeke	Ain Shams Engineering Journal	20904479	Q1	Jun-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
35	Baseline Soil Characterization of active landfill sites for future restoration and development in the state of Kuwait	16072	S.M. Al-Salem, R. Zeitoun, A. Dutta, A.Al-Nasser, M.H.Al-Wadi, A.T. Al-Dhafeeri, H.J.Karam, F.Aisiri, A.Biswas	International Journal of Environmental Science and Technology	17351472	Q2	Jun-20	ELSRC
36	An Assessment of Microplastic threat to the marine environment: A short review in context of the Arabian/Persian Gulf.	16075	S.M. Al-Salem, Saif Uddin, F.Al-Yamani	Marine Environmental Research	18790291, 01411136	Q1	Jul-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
37	Five new records of mantis shrimps (Stomatopoda) from Kuwait	16108	M. Al-Kandari, S. Grave, S. Hussain, A. Anker	Crustaceana	15685403, 0011216X	Q3	Jul-20	ELSRC
38	Sedimentary batyultin compounds and sediment transport model at Shuwaikh Port- Kuwait Bay	16138	H. Al-Shammari, M. Al-Wadi, Q. karam, L. Talebi	Arabian Journal of Geosciences	18667538, 18667511	Q2	Jul-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
39	Poultry Industry in the Gulf Cooperation Council with Emphasis on Kuwait	16169	A-AL-Nasser, H.AL-Khlaifa, F . Khalil, H.AL-Mansour	World's Poultry Science Journal	17434777, 00439339	Q2	Jul-20	ELSRC
40	Effects of Dietary Doum Palm Fruit Powder on Growth, Antioxidant Capacity, Immune Response, and Disease Resistance of African Catfish, <i>Clarias gariepinus</i> (B.)	16124	H. Khalifa, A. Al-Khalil, A. Al-Khalil, S. Amer, S. Shalaby, H. Badr, M. Farag, D. Altohamy, A. Rahman	Animals	20762615	Q1	Aug-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
41	Dietary Supplementation with Various Fat Oils Affect Phytohemagglutinin Skin Test in Broiler Chickens	16130	H. Al-Khalifa, A. Al-Nasser	Frontiers in Immunology	16643224	Q1	Aug-20	ELSRC
42	Astaxanthin extraction from shrimp shell wastes and its potential as a gold-fish feed. Authors	16058	Nazima Habibi and Fadila Al Salameen	Research Journal of Chemistry and Environment			NP	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
43	Standardized protocols for microplastics determinations in environmental samples from the Gulf and marginal seas	16065	S. Uddin, S.W.Fowler, T. Saeed, A. Najj, N. Aljandal	Marine Pollution Bulletin	0025326X, 18793363	Q1	Sep-20	ELSRC
44	Fuel Production using membrane Reactors: a review	16067	Sanaa Hafeez, S.M. Al-Salem, George Manos, Achilleas Constantinou	Environmental Chemistry Letters	16103653	Q1	Sep-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
45	Taxonomic Notes on <i>Alpheus inopinatus</i> Holthuis & Gottlieb, 1958 and <i>Alpheus</i> cf. <i>Lobidens</i> De Haan, 1849 from Kuwait (Malacostraca: Decapoda: Alpheidae)	16142	Arthur Anker, Manal Al-Kandari, Sammy De Grave	Zootaxa	11755334, 11755326	Q2	Sep-20	ELSRC
46	Impact of SARS-Con-V2 on the Poultry Industry in Kuwait A case study	16153	Hanan Al-Khalaifa, A-AL-Nasser, Noura Abdulmalek , Hamad Al-Mansour , Abdulaziz Ahmad, Gehan Ragheb	Frontiers in Veterinary Science	22971769	Q1	Sep-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
47	Modulatory effect of dietary Polyunsaturated faaty acid on immunity ,Represented by phagocytic activity	16155	Hanan Al-Khalaifa	Frontiers in Veterinary Science	22971769	Q1	Sep-20	ELSRC
48	Co2 capture using Membrane Contactors: A systematic Literature Review	16170	Constantinou, A, Hafeez, S, Safdar, T, Pallari, E, Manos, G, Aristodemou, E, Zhang, Z and Al-Salem, SM	Frontiers of Chemical Science and Engineering	20950179, 20950187	Q1	Sep-20	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Date Published	Research Center
49	Schemes of eStories for children with social communication difficulties	16077	N. Al-Ghurair, G. Al-Naqi	Advances in Human - Computer Interaction	16875893, 16875907	Q3	Jul-20	SSDD
50	Effects of Catalyst and Feed Properties on the Deactivation Parameters of Atmospheric Residue Desulfurization Process Model	16100	Dduha Chehadeh, Mohammad Khajah, Hamza Albazzaz, Dawoud Bahzad	Chemical Engineering Communications	00986445, 15635201	Q2	Aug-20	SSDD

❖ *The highlighted paper in yellow is not published yet.*