

Kuwait Institute for Scientific Research  
**KISR Scientific Papers Published**  
January - June 2019

July 2019



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## **Introduction:**

Science and Technology Publishing Program (STPP) team at the National Scientific & Technical Information Center (NSTIC) received the list of scientific papers which were published during the period January-June 2019 from Project Management Office (PMO) for the following research centers, division and department at Kuwait Institute for Scientific Research (KISR):

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

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

This report explains and analyzes the scientific papers published during January–June 2019 in relation to journal ranking quartiles for all the above-mentioned research centers, division and department. The data is illustrated by tables and figures.

## Findings:

The research centers, division and department at Kuwait Institute for Scientific Research (KISR) published **58** scientific papers during the period January–June 2019 (Table 1 & Figure 1). The papers were published in 44 journals that have ranking quartiles (Table 2 & Figure 2), illustrated as follows:

Table 1: Total KISR Scientific Papers Published during January–June 2019

Center / Division/ Department	Jan.– June 2019
WRC	12
EBRC	12
PRC	5
ELSRC	28
TED	1
SSDD	0
<b>Total</b>	<b>58</b>

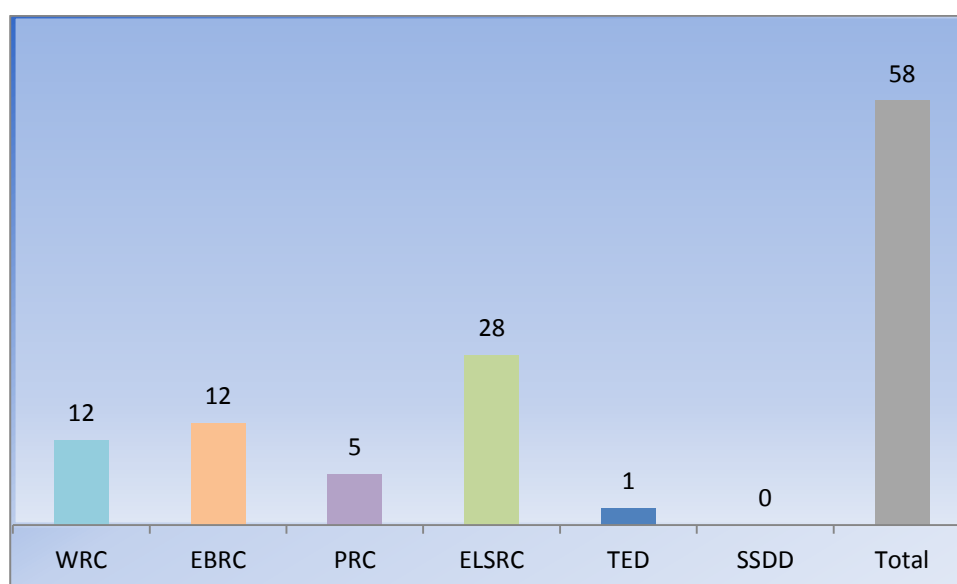


Figure 1: Total KISR Scientific Papers Published during January–June 2019.

Table 2: Journal Ranking Quartiles for KISR Scientific Papers Published during January–June 2019

Journal Ranking Quartiles Jan.– Jun. 2019	WRC	EBRC	PRC	ELSRC	TED	SSDD	Total
Quartiles 1	1	2	4	14	0	0	21
Quartiles 2	1	9	0	8	1	0	19
Quartiles 3	8	1	1	4	0	0	14
Quartiles 4	2	0	0	2	0	0	4
<b>Total Journal Ranking Quartiles</b>	<b>12</b>	<b>12</b>	<b>5</b>	<b>28</b>	<b>1</b>	<b>0</b>	<b>58</b>

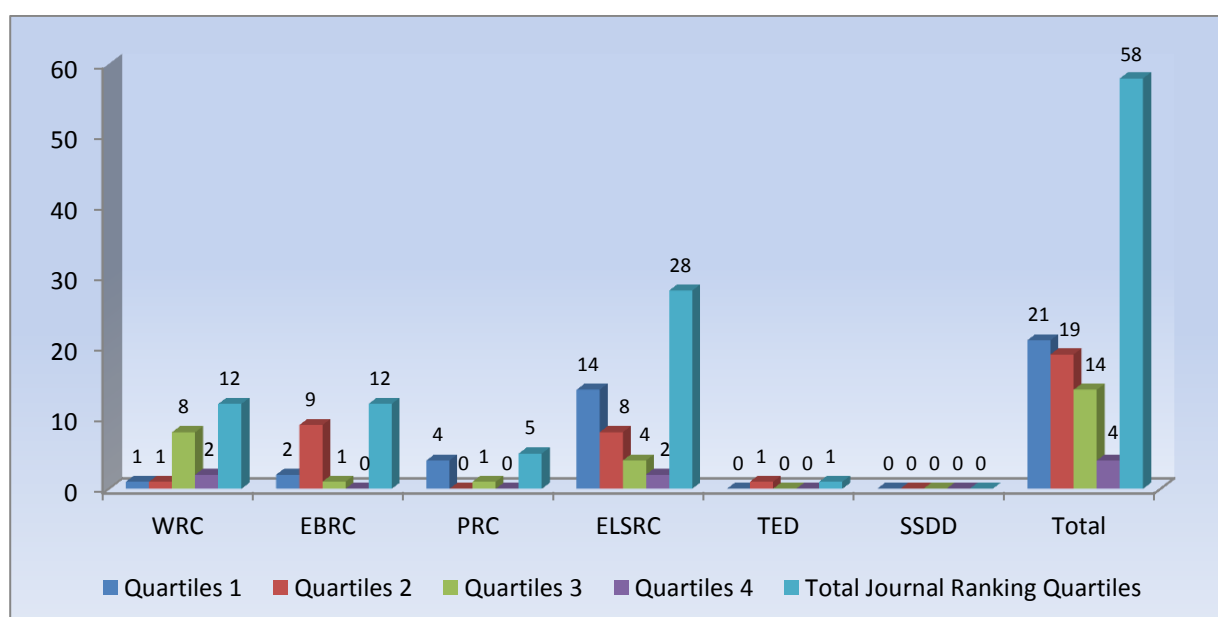


Figure 2: Journal Ranking Quartiles for KISR Scientific Papers Published during January–June 2019.

Table 3: KISR Scientific Papers published in Non-Ranked (NR) Journals during January–June 2019

Non-Ranked Journals Jan.–June 2019	WRC	EBRC	PRC	ELSRC	TED	SSDD	Total
NR	0	0	0	0	0	0	0



## Scientific Papers Published during January–June 2019

The following detailed list demonstrates the scientific papers published during January-June 2019 including information related to paper title, KISR No., author name, journal title, ISSN, journal quartile ranking and publication month/year per each research center, division and department:

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Publication month/Year	Research Center
1.	Performance Evaluation of a Thermoresponsive Polyelectrolyte Draw Solution in a Pilot Scale Forward Osmosis Seawater Desalination System (WT041C)	15200	M. Ahmed R. Kumar B. Garudachari J. P. Thomas	Desalination	0011-9164	Q1	Feb-19	WRC
2.	Boron Selective Thin Film Composite Nanofiltration Membrane Fabricated via a Self-Assembled Trimesic Acid Layer at a Liquid-Liquid Interface on an Ultrafiltration Support (WR036)	15381	R. Kumar M. Ahmed Salim Ok B. Garudachari J. P. Thomas	New Journal of Chemistry	1144-0546	Q2	Jan-19	WRC
3.	Establishment of database on the Physical, Chemical, and Biological Characteristics of the Seawater Intake of Kuwaiti Desalination Plants (WT043K)	14256	M. Salman A. Al-Haji S. Al-Haddad M. Al-Rugaib A. Al-Mesri	Desalination and Water Treatment	1944-3994	Q3	Jan-19	WRC
4.	Mineral Extraction from Seawater Reverse Osmosis Brine of Gulf Seawater (WR038)	15286	M. Ahmed B. Garudachari Y. Al-Wazzan R. Kumar J. P. Thomas	Desalination and Water Treatment	1944-3994	Q3	Mar-19	WRC
5.	A geochemical analogy between the metal sources in Kuwait Bay and territorial sea water of Kuwait.	14672	S. Chidambaram, H. Bhandary, A. Al-Khalid Chidambaram Sabarathinam Harish Bhandary Asim Al-Khalid	Environmental Monitoring and Assessment	1573-2959	Q3	Mar-19	WRC
6.	Assessment of pilot scale forward osmosis system for Arabian Gulf seawater desalination using polyelectrolyte draw solution	15557	M. Ahmed, R. Kumar, B. Garudachari, and J. Thomas	Desalination and water treatment	1944-3994	Q3	Jul-19	WRC
7.	Fabrication, characterization and performance study of acriflavine TFC nanofiltration membrane for brine concentration (WR035)	15426	B. Garudachari M. Ahmed, R. Kumar J. P. Thomas	Desalination and Water Treatment	1944-3994	Q3	Apr-19	WRC
8.	Hydrophobically modified silica blend PVDF nanocomposite membranes for seawater desalination via direct contact membrane distillation (WT050C)	15467	R. Kumar, M. Ahmed, B. Garudachari, A. Al-Mesri, J. P. Thomas	Desalination and Water Treatment	1944-3994	Q3	Apr-19	WRC



No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Publication month/Year	Research Center
9.	Predominance of Attached Versus Suspended Growth in a Mixed-Growth, Continuous-Flow Biological Reactor Treating Primary-Treated Petrochemical Wastewater (WT040K)	14479	Mohd. E. Ahmed A. Al-Dhafeeri A. Mydlarczyk	Arabian Journal for Science and Engineering	0377-9211	Q3	May-19	WRC
10.	Sustainability of Brackish Groundwater Utilization from the Eocene Aquifer for Oil Exploration Operations in Central Kuwait (WM055C)	15576	A. Aliewi, H. Al-Enezi, I. Al-Maheimid, J. Al-Kandari, A. Al-Haddad, H. Al-Qallaf, T. Rashid, D. Sadeqi	ENVIRONMENTAL DEVELOPMENT AND SUSTAINABILITY	1387-585X	Q3	Jun-19	WRC
11.	Laboratory assessment of GAC-packed IFAS for treatment of primary treated petrochemical wastewater (WT040K)	13974	Mohd. E. Ahmed, A. Abusam, A. Mydlarczyk	Journal of Environmental Biology	0254-8704	Q4	May-19	WRC
12.	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 of Engineering Geology and Hydrogeology	0481-2085	Q4	Jun-19	WRC
1.	Computational Modeling of a unique tower in Kuwait for Structural Health Monitoring: Numerical Investigations	15319	Hao Sun, J. Al-Qazweeni, J. Parol, H. Kamal, Zhao Chen, O. Buyukozturk	Structural Control and Health Monitoring	1545-2255	Q1	Jan-19	EBRC
2.	Construction of mesoporous g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> nanocrystals with enhanced photonic efficiency	15156	L. AL-Hajji, A. Ismail, M. Faycal Atitar, I. Abdelfattah, A. M. El-Toni	Ceramics International	0272-8842	Q1	Jan-19	EBRC
3.	Metallic glassy Ti <sub>2</sub> Ni grain-growth inhibitor powder for enhancing the hydrogenation/dehydrogenation kinetics of MgH <sub>2</sub>	15377	M. Sherif	RSC Advances	2046-2069	Q2	Jan-19	EBRC
4.	Highly efficient solar light-assisted TiO <sub>2</sub> nanocrystalline for photodegradation of ibuprofen drug	14776	T. M. Khedr, S. M. El-Sheikh, A. Ismail, D. W. Bahnemann	Optical Materials	0925-3467	Q2	Feb-19	EBRC
5.	Effect of LaNi <sub>3</sub> Amorphous Alloy Nanopowders on the Performance and Hydrogen Storage Properties of MgH <sub>2</sub>	15414	M. Sherif, Maryam Saeed, Eissa Al-Nassrallah, Fahad Al-Ajmi, Mohammad Banyan	Energies	1996-1073	Q2	Mar-19	EBRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Publication month/Year	Research Center
6.	Deposition of Stainless Steel Thin Films : An Electron Beam Physical Vapour Deposition Approach	15429	N. Ali, J.A. Teixeira, A. Addali, M. Saeed, F. Alzubi, A. Sedaghat, H. Bahzad	Materials	1996-1944	Q2	Feb-19	EBRC
7.	Recent developments in the fabrication, characterization and implementation of MgH <sub>2</sub> -based solid-hydrogen materials in the Kuwait Institute for Scientific Research	15436	M. El-Eskandarany	RSC Advances	2046-2069	Q2	Mar-19	EBRC
8.	Synergistic effect of new ZrNi <sub>5</sub> /Nb <sub>2</sub> O <sub>5</sub> catalytic agent on storage behavior of nanocrystalline MgH <sub>2</sub> powders	15451	M. Sherif El-Eskandarany, Mohammad Banyan and Fahad Al-Ajmi	Catalysts	2073-4344	Q2	Mar-19	EBRC
9.	Mechanically-Induced Catalyzation of MgH <sub>2</sub> Powders with Zr <sub>2</sub> Ni-Ball Milling Media	15506	M.S.El-Eskandarany, Fahad Al-Ajmi, Mohammad Banyan	Catalysts	2073-4344	Q2	Apr-19	EBRC
10.	Photooxidation of acetaldehyde over TiO <sub>2</sub> film: Impact of the substrate glassy structure on the photonic efficiency	15453	L.A. Al-Hajjia, Adel A. Ismail	Superlattices and Microstructures	0749-6036	Q2	May-19	EBRC
11.	old-Rolled Magnesium Hydride Strips Decorated with Cold-Sprayed Ni Powders for Solid-Sate-Hydrogen Storage	15581	M. Sherif El-Eskandarany, Mohammad Banyan and Fahad Al-Ajmi	International Journal of Hydrogen Energy	0360-3199	Q2	Jun-19	EBRC
12.	Effect of LaNi <sub>3</sub> amorphous alloy nanopowders on the performance and hydrogen storage properties of MgH <sub>2</sub>	15414	M.S. El Eskandarany, m. Saeed, E. Al-Nasrallah, F. Al-Ajmi, M. Banyan	Energies	1996-1073	Q3	Mar-19	EBRC
1.	Oxidative desulfurization kinetics of refractory sulfur compounds in hydrotreated middle distillates.	15173	Muhieddine Safa Rashed Boursesli Rawan Al-Majren Tahani Al-Shamary Xiaoliang Ma	Fuel	0016-2361	Q1	Mar-19	PRC
2.	The susceptibility of P110 downhole tubular steel to sulfide stress cracking in H <sub>2</sub> S and NaCl	15266	Rihan O. Rihan B. Al-Wakaa N. Tanoli H. Shalaby	Journal of Petroleum Science and Engineering	0920-4105	Q1	Mar-19	PRC
3.	Mitigation of Asphaltenes Precipitation Phenomenon via Chemical Inhibitors	15278	Ebtisam Ghloom, Abeer Rashed, Muhieddine Safa , Rachid C. Sablit , Saleh Al-Jowhar	Journal of Petroleum Science and Engineering	0920-4105	Q1	Apr-19	PRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Publication month/Year	Research Center
4.	Hydroprocessing of Heavy Residual Oil: Opportunities and Challenges	14855	A Marafi, Hamza Albazzaz, Mohan Rana	Catalysis Today	0920-5861	Q1	Jun-19	PRC
5.	A study of Galvanic Corrosion in stagnant Ammonium Bisulfide Solution	15587	H. Al-Mazeedi, A. AL-Farhan, N. Tanoli, and L. Abraham	International Journal of Corrosion	16879333	Q3	Feb-19	PRC
1.	Chemical profile and antioxidant activities of 26 selected species of seaweeds from Kuwait coast	15440	K. H. Sabeena Farvin, A. Surendraraj , Aws Al-Ghunaim , Faiza Al-Yamani ,	Journal of Applied Phycology	0921-8971	Q1	Jan-19	ELSRC
2.	Influential Parameters on Natural Weathering Under Harsh Climatic Conditions of Mechanically Recycled Plastic Film Specimens	15197	S. Al-Salem	Journal of Environmental Management	0301-4797	Q1	Jan-19	ELSRC
3.	A comparison of elemental presence in UK and Kuwait road dust	14451	Abdullah Alsubaie, Maisarah Jaafar, Abdullah N. Al-Dabbous, S Alomairy, Yasser Altoarqi, Eman Daar, Mohammed Alkhorayef , L Alsulaiti, KS Almugren, NI Ward, DA Bradley	Radiation Physics and Chemistry	0969806X	Q1	Feb-19	ELSRC
4.	Feasibility of offshore wind energy as an alternative source for the state of Kuwait	14579	W. K. Al-Nasser, S. Neelamani, K. A. Al-salem, H. A. Al-Dashti	Energy	0360-5442	Q1	Feb-19	ELSRC
5.	The Response of Microzooplankton (tintinnid) Community to Salinity Related Environmental Changes in a Hypersaline Marine System in the Northwestern Arabian Gulf	14349	Faiza Y.Al-Yamani, Rakhesh Madhusoodhanan , Valeriye Skryabin, Turki Al-Said .	Deep-Sea Reseaerch Part II - TOPICAL STUDIES IN OCEANOGRAPHY	0967-0645	Q1	Feb-19	ELSRC
6.	Untangling the bacterial community composition and structure in selected Kuwait desert soils	14742	M. Quoreshi, M. K. Suleiman, V. Kumar, A. J. Manuvel, M.T. Sivadasan, M.A. Islam, D.P. Khasa	Applied Soil Ecology	0929-1393	Q1	Jul-19	ELSRC
7.	High-Pressure Assisted Enzymatic Proteolysis of Kidney Beans Protein Isolates and Characterization of Hydrolysates by Functional, Structural, Rheological and Antioxidant Properties	15420	N. Al-Ruwaih, J. Ahmed, M. Mehraj F. Mulla, Y. Ali-Arafat	LWT- Food Science and Technology	0023-6438	Q1	Feb-19	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Publication month/Year	Research Center
8.	Elemental evaluation of urban road dirt in tropical, arid, and maritime climates	15549	a. Alsubaie, E. Daar, L. Alsulaiti, A.N. Al-Dabbous, M. Chamakh, M. Jaafar, and D. A. Bradley	Radiation Physics and Chemistry	0969-806X	Q1	Jul-19	ELSRC
9.	Assessment of loss of <sup>210</sup> Po from fish and shrimp by cooking and its effect on dose estimates to humans ingesting seafood	15509	S.Uddin, M.Behbehani, S.W.Fowler, A.N.Al-Ghadban, S.Dupont	Journal of Environmental Radioactivity	0265931X	Q1	Sep-19	ELSRC
10.	Thermal pyrolysis of high density polyethylene (HDPE) In a novel fixed bed reactor system for the production of high value gasoline range hydrocarbons (HC)	15537	S.Al-Salem	Process Safety and Environmental Protection	0957-5820	Q1	Jul-19	ELSRC
11.	Acute effects of air pollution on mortality: A 17 year analysis in Kuwait	15466	S. Achilleos, E. Al-Ozairi, B. Alahmad, E. Garshick A. Neophytou, W. Bouhamra, M. F. Yassin, P. Koutrakis	Environment International	0160-4120	Q1	May-19	ELSRC
12.	Evaluation of elemental concentrations of uranium, thorium, and potassium in top soils from Kuwait	15578	A.D. Bajoga, A.N. Al-Dabbous, A.S. Abdullahi, N. A. Alazemi, Y. D. Bachama, Alaswad, S.O.f	Nuclear Engineering and Technology	1738-5733	Q1	May-19	ELSRC
13.	Solar and wind energy: challenges and solutions in desert regions	15498	A.Al-Dousairi, W. Al-Nasser, A. Al-Hemoud, A. Al-Saleh, N. Al-Dousari, M. Ahmed, Ramadan, A	Energy	0360-5442	Q1	Jun-19	ELSRC
14.	Hydro-environmental processes governing the formation of hypoxic parcels in an inverse estuarine water body: Model validation and discussion	15545	Dr. Yousef Al-Osairi Eng. Nada AL-Sulaiman	Marine Pollution Bulletin	0025-326X	Q1	Jul-19	ELSRC
15.	Preface to Dust Events in the Environment	15465	D. M. Doronzo, A. Al-Dousari	Sustainability	2071-1050	Q2	Jan-19	ELSRC
16.	Key Drivers for Copepod Assemblages in a Eutrophic Coastal Brackish Lake	15476	Neila Annabi-Trabelsi, Gamal El-Shabrawy, Mohammed E. Goher, Madhavapeddi N. V. Subrahmanyam, Yousef Al-Enezi, Mohammad Ali, Habib Ayadi and Genuario Belmonte	Water	2073-4441	Q2	Feb-19	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Publication month/Year	Research Center
17.	Distribution and antimicrobial activity of lactic acid bacteria from raw camel milk	14744	R.Rahmeh A.Akbar M.Kishk T.Al-Onaizi A.Al-AzmiA. Al-Shatti A.Shajan S.Al-Mutairi B.Akbar	New Microbes and New Infections	2052-2975	Q2	Jul-19	ELSRC
18.	Thermal Response and Degressive reaction Study of Oxo-Biodegradable Plastic Products Exposed to Various Degradation Media	15527	S.Al-Salem, A.Nasser, M.Behbehani, H.Sultan, M.Al-Wadi, A.Al-Dhafeeri, Z.Al-Rasheed, M.Al-Fouadarree, H.Karam	International Journal of Polymer Science	1687-9422	Q2	Apr-19	ELSRC
19.	Response of Corals Acropora pharaonis and Porites lutea to Changes in pH and temperature in the Gulf	15531	M. Behbehai, S. Uddin, S. Dupont, S. Sajid, L. Musallam, and A. Al-Gadban	Sustainability	2071-1050	Q2	Jun-19	ELSRC
20.	Economic Impact and Risk assessment of Sand and Dust Storms (SDS) on the Oil and Gas Industry in Kuwait	15280	A. Al-Hemoud, A. Al-Dousari, R. Misak, M. Al-Sudairawi, A. Naseeb, H. Al-Dashti, N. Al-Dousari	Sustainability	2071-1050	Q2	Jan-19	ELSRC
21.	On the kinetics of Degradation Reaction Determined post Accelerated Weathering of Polyolefin Plastic Waste Blends	15368	S.Al-Salem, M.Behbehani, H.Karam, S.Al-Rowaih, F.M.Asiri	International Journal of Environmental Research and Public Health	1660-4601	Q2	Jan-19	ELSRC
22.	Assessment of the Diversity of Fungal Community Composition Associated with Vachellia pachyceras and its Rhizosphere Soil from Kuwait Desert	15339	Majda Khalil Suleiman, Kingsley Dixon, Lucy Commander, Paul Nevill, Ali Quoreshi, Narayana Bhat, Anitha Manuvel, Mini Sivadasan	Frontiers in Microbiology	1664-302X	Q2	Jan-19	ELSRC
23.	Study of the degradation profile for virgin linear low-density polyethylene (LLDPE) and polyolefin (PO) plastic waste blends	15508	S.M. Al-Salem, M.H. Behbehani, A. Al-Hazza'a, J.C. Arnold, S.M. Alston, A.A. Al-Rowaih, F. Asiri, S.F. Al-Rowaih, H. Karam	Journal of Material Cycles and Waste Management	1438-4957	Q3	May-19	ELSRC

No	Paper Title	KISR No.	Author Name	Journal Title	ISSN	Quartile Ranking	Publication month/Year	Research Center
24.	Enhancement of heavy metal tolerance and accumulation efficiency by expressing Arabidopsis ATP Sulphyrase gene in alfalfa	14494	Dr. Vinod Kumar, Dr. Sabah Almomin, Hamed Al-Aqeel, Dr. Fadila Al-Salameen Al-Shatti, A, Shajan, A.B., Nair, S.M.	International Journal of Phytoremediation	1522-6514	Q3	May-19	ELSRC
25.	Determination of biodegradation rate of commercial oxo-biodegradable polyethylene film products using ASTM D5988	15561	S. M. Al-Salem, H.H. Sultan, H.J. Karam, A.T. Al Dhafeeri	Journal of Polymer Research	1022-9760	Q3	Jul-19	ELSRC
26.	Special issue of the workshop on indoor air quality in hot arid climate	15536	M.F. Yassin	International journal of Environmental Science and Technology	1735-1472	Q3	Jun-19	ELSRC
27.	High- Frequency multiple shoot induction from nodal segments and assessment of genetic homogeneity of micropropagated Atriplex halimus L.	14347	Dr. Vinod Kumar, Dr. Sabah Almomin, Anisha Shajan, Hamed Al-Aqeel, Dr. Fadila Al-Salameen Sindhu, N.	Research Journal of Biotechnology	2278-4535	Q4	May-19	ELSRC
28.	Evaluating the diversity and composition of bacterial communities associated with Vachellia pachyceras — the only existing native tree species in the Kuwait desert	15390	M. K. Suleiman, K. Dixon, L. Commander, P. Nevill, A. M. Quoreshi, N. R. Bhat, A. J. Manuvel, M. T. Sivadasan	Canadian Journal of Microbiology	0008-4166	Q4	Mar-19	ELSRC
1.	Economic impact and risk assessment of sand and dust storms (SDS) on the oil and gas industry in Kuwait	15280	Ali Al-Hemoud, Ali Al-Dousari, Raafat Misak, Mane Al-Sudairawi, Adil Naseeb, Hassan Al-Dashti, Noor Al-Dousari	Sustainability	2071-1050	Q2	Jan-19	TED
1.	communicate in Arabic Ausability study of augmentative and alternative communicate application	15579	Noura Al-Ghurair , Ghada Al-Naqi	Journal of Engineering Research	2307-1877	Q4	NP	SSDD

**Note:**

Scientific paper highlighted yellow is not published yet and it is not included in statistics, tables, and figures in this report.