

MECHANICAL ENGINEERING DEPARTMENT

ANNEX 2.1.9.4: Scientific Research Report for 2020

Scientific Research Report for 2020

College of Engineering – Mechanical Engineering Department						
Total Number of Published articles in SCOPUS (2020)	Total Number of Faculty members		Total Number of Published articles in Web of Science (2020)			
8	Male	Female	7			
	8	0				
	No. of Participants		Q1	Q2	Q3	Q4
	6	0	2	1	3	1

No.	Article Title	Faculty member	WOS or Scopus (IF or SJR)	DOI
1	Fundamental Concepts of Hydrogels: Synthesis, Properties, and Their Applications	Prof. Altaf Hussain Rajpar	SCI impact factor=3.14	https://doi.org/10.3390/polym12112702
2	Hydrothermally Assisted Synthesis of Porous Polyaniline@Carbon Nanotubes–Manganese Dioxide Ternary Composite for Potential Application in Supercapattery	Prof. Altaf Hussain Rajpar	SCI impact factor=3.14	www.mdpi.com/journal/polymers
3	A new system design of using solar dish-hydro combined with reverse osmosis for sewage water treatment: case study Al-Marj, Libya	Dr. Ahmed Mohamed Soliman	IF = 1.324	https://doi.org/10.5004/dwt.2020.25782
4	TENSILE AND FLEXURAL CHARACTERIZATION OF VINYL ESTER/ GREWIA ASIATICA (PHALSA) WOOD COMPOSITE	Dr. Ahmad Elsaid Eladawi Prof. Altaf Hussain Rajpar	SJR = 0.2	https://issuu.com/tjprc/docs/2-67-1587447831-109ijimperdapr2020109
5	Microstructure, Hardness, Wear, and Magnetic Properties of (Tantalum, Niobium) Carbide-Nickel–Sintered Composites Fabricated from Blended and Coated Particles, Hossam. M. Yehia,1 Walid M. Daoush,1,2 Fatma Abdel Mouez,3 Mohamed H. El-Sayed,3,4	Dr. Mohamed Hanafy El-Sayed	SJR = 1	10.1520/MPC20190128
6	On the Protective Performance of Firefighters' Garments: Air Gaps Between Fabric	Dr. Ahmed Elsayed Ghazy	SCI impact factor= 1.671	https://doi.org/10.1007/s10694-019-00905-w


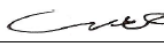

	Layers. Fire Technology Journal, Vol 56(2), pp. 821–836.			
7	Thermal Performance Enhancement for Heat Exchanger Tube Fitted with Vortex Generator Inserts, Abdelmaksoud, W.A., Mahfouz, A.E., Khalil, E.E.	Dr. Waleed Abdelmaksoud	SCI impact factor= 1.693	https://doi.org/10.1080/01457632.2020.1826743
8	Improving water productivity in active solar still	Dr. Waleed Abdelmaksoud	SCI impact factor= 1.184	https://doi.org/10.1080/15567036.2020.1844822
9	Enhancement of thermoelectric properties of Co ₄ Sb ₁₂ skutterudite by Al and La double filling/Mohamed Bashir Ali Bashir, Mohd Faizul Mohd Sabri, Suhana Mohd Said, Yuzuru Miyazaki, Irfan Anjum Badruddin, Dhafer Abdul Ameer Shnawah, Ethar Yahya Salih, Sabir Abushousha, Mohamed Hamid Elsheikh	Dr. Mohamed Bashir Ali Bashir	SCI impact factor= 2.726	https://doi.org/10.1016/j.jssc.2020.121205

Citations in 2020 - Scopus account

No.	Name	Citations	H-index
1	Dr. Altaf Ragbar	8	4
2	Dr. Mahmoud Abdelfatah	23	5
3	Dr. Ahmed Soliman	42	6
4	Dr. Ahmed Eladwi	1	3
5	Dr. Mohamed Hanefy	7	8
6	Dr. Ahmed Ghazy	30	9
7	Dr. Waleed Abdelsamei	11	5
8	Dr. M. Bashir	29	8

PROJECTS IN 2020							
PI project name	Team Data			Project type	Project title	Project Topics (University Priority)	
	Department	Team from the college	Number of members outside the college				
1	Prof. Altaf Hussain Rajpar	Mechanical	3	1	Deanship Project	Design and Development of Micro Vertical Axis Wind turbine with Omnidirectional Wind Deflector	Renewable Energy
2	Dr. Mahmoud Abdelfattah						
3	Dr. Ahmed Mohamed Soliman						
4	Dr. Ahmad Elsaid Eladawi						
5	Dr. Mohamed Hanafy Elsayed						
6	Dr. Ahmed Ghazy	Mechanical Engineering	Dr. Emad Mohamed Ahmed Dr. Ahmed Fathy	2	Group Project	Enhancing the performance of Saline water desalination using solar energy	Renewable Energy
7	Dr. Waleed Abdelsamee Marouf						
8	Dr. Mohamed Bashir Ali Bashir	Mechanical Engineering	Dr. Altaf Husain	2	Group Project	Thermoelectric Materials (CoSb3) for Electrical Energy as Renewable Energy Generation	Renewable Energy
8	Dr. Mohamed Bashir Ali Bashir	Mechanical Engineering	-	-	Deanship Project	Principle Parameters and Environmental Impacts that Affect the Performance of Wind Energy	Renewable Energy

لجنة البحث العلمي والدراسات العليا ببرنامج الهندسة الميكانيكية:

التوقيع	الاسم
	د/ محمود عبدالفتاح
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