تقرير عن البحوث المنشورة والتي تخدم المجتمع وخاصة في مجال في مجال الطاقة الشمسية في كلية العلوم عن عام ٢٠٢٢م تم نشر عدد خمس وثلاثون بحثا عن الطاقة الشمسية كلها بحوث مفهرسه في قواعد البيانات العلمية العالمية Wos
وكان تصنيفها كالتالي:

Q1 Top 10	Q1	Q2	Q3
6	24	9	2
17.1%	68.6%	25.7%	5.7%

## الجدول التالي يحتوي على عناوين البحوث وتصنيفها وروابط النشر لكل بحث:

Ν	De	Article Title	Journal Name	Ind	Link or DOI	Journal Rank	Cate
0	par			ex			gory
	tm			ed			Ran
	ent			In			k
1	Phy	Quantum chemical modification of indaceno dithiophene-	RSC advances	W	DOI:	55/160	Q1
	sics	based small acceptor molecules with enhanced photovoltaic		oS	10.1039/D2RA0523		
		aspects for highly efficient organic solar cells			9C		
2	Phy	Enhancing the efficiency of Cu2Te thin-film solar cell with WS2	Optics and Laser	W	https://doi.org/10.	20/101	Q1
	sics	buffer layer: A simulation study	Technology	oS	1016/j.optlastec.20		
					22.108942		
3	Phy	Environmentally compatible and highly improved hole	Solar Energy	W	https://doi.org/10.	12/100	Q1
	sics	transport materials (HTMs) based on benzotrithiophene (BTT)		oS	1016/j.solener.202		
		skeleton for perovskite as well as narrow bandgap donors for			1.12.010		
		organic solar cells					

4	Phy	Environmentally compatible and highly improved hole	Solar Energy	W	https://doi.org/10.	12/100	Q1
	sics	transport materials (HTMs) based on benzotrithiophene (BTT)		oS	1016/j.solener.202		
		skeleton for perovskite as well as narrow bandgap donors for			1.12.010		
-		organic solar cells			111 112		
5	Phy	Magnetic Ge:Mn nanocrystals grown by MBE on insulator	Applied Surface	W	https://doi.org/10.	44582	Q1
	sics	substrate for solar cell and photodetector applications	Science	oS	1016/j.apsusc.2021		
	D.		D.I	147	.151644	40/400	01
6	Phy	Quantum chemical study of end-capped acceptor and bridge	Polymer	W	https://doi.org/10.	10/100	Q1
	sics	on triphenyl diamine based molecules to enhance the		oS	1016/j.polymer.20 22.124675		
_	Cha	optoelectronic properties of organic solar cells	Journal of Molecular	W		13606	01
'	Che	Solar energy conversion to electricity by Tris (2, 2'-bipyirdyl)	Liquid		https://doi.org/10.	13000	Q1
	mis	ruthenium (II) chloride hexahydrate-diethyl ammonium tetrachloroferrate-oxalic acid photogalvanic cell: Statistical	Liquid	oS	1016/j.molliq.2021. 117824		
	try	analysis			11/024		
8	Phy	Investigation of the effect of hybrid CuO-Cu/water nanofluid	JOURNAL OF	W	https://doi.org/10.	28/114	Q1
	sics	on the solar thermal energy storage system	ENERGY STORAGE	oS	1016/j.est.2022.10	20/114	Q1
	3103	on the solar thermal energy storage system	ENERGY STORVIGE		4675		
9	Che	Molecular Engineering Optimized Carbon Nitride Photocatalyst	Journal of Science	W	10.1016/j.jsamd.20	0	Q1
	mis	for CO2 Reduction to Solar Fuels	Advanced Materials	oS	22.100483		
	try		and Devices				
1	Phy	Quantum chemical modification of indaceno dithiophene-	RSC advances	W	DOI:	55/160	Q1
0	sics	based small acceptor molecules with enhanced photovoltaic		oS	10.1039/D2RA0523		
		aspects for highly efficient organic solar cells			9C		
1	Phy	Energy conversion performance of porous ZrTe hybrid derived	Fuel	W	https://doi.org/10.	29/119	Q1
1	sics	from chemical transformation of Zr(OH)4		oS	1016/j.fuel.2022.1		
					25264		
1	Phy	Energy conversion performance of porous ZrTe hybrid derived	Fuel	W	https://doi.org/10.	29/119	Q1
2	sics	from chemical transformation of Zr(OH)4		oS	1016/j.fuel.2022.1		
					25264		

1	Phy	Evaluation of d-block metal sulfides as electrode materials for	Journal of Energy	W	https://doi.org/10.	23/119	Q1
3	sics	battery-supercapacitor energy storage devices	Storage	oS	1016/j.est.2022.10	,	
		, , , , ,			5418		
1	Phy	Evaluation of d-block metal sulfides as electrode materials for	Journal of Energy	W	https://doi.org/10.	23/119	Q1
4	sics	battery-supercapacitor energy storage devices	Storage	oS	1016/j.est.2022.10		
					5418		
1	Phy	Exploring the synergy of binder free MoWS2@ Ag as electrode	Journal of Energy	W	https://doi.org/10.	23/119	Q1
5	sics	materials for hybrid supercapacitors	Storage	oS	1016/j.est.2022.10		
					5925		
1	Che	Facile hydrothermal synthesis of Dy-doped NiMnO3	Journal of Sol-Gel	W	https://doi.org/10.	https://link.springe	Q1
6	mis	nanoflakes as a highly stable electrode for energy conversion	Science and	oS	1007/s10971-022-	r.com/article/10.10	
	try	system	Technology		05953-3	07/s10971-022-	
						05953-3	
1	Che	Green synthesis of magnesium oxide nanosheets by using	Biomass and	W	https://doi.org/10.	х	Q1
7	mis	Citrullus colocynthis fruit extract and its use in biofuel	Bioenergy 167,	oS	1016/j.biombioe.2		
	try	production	106640		022.106640		
1	Phy	Dynamic models for air-breathing and conventional polymer	RENEWABLE	W	https://doi.org/10.	25/119	Q1
8	sics	electrolyte fuel cells: A comparative study	ENERGY	oS	1016/j.renene.202		
					2.06.092		
1	Phy	End-group Modification of terminal acceptors on	Journal of Molecular	W	https://doi.org/10.	13302	Q1-
9	sics	benzothiadiazole-based BT2F-IC4F molecule to establish	Liquids	oS	1016/j.molliq.2022.		Тор
		efficient organic solar cells			120770		10%
2	Phy	Electrochemical performance of transition metal sulfide by	International Journal	W	doi:10.1002/er.859	12420	Q1-
0	sics	employing different synthesis techniques for hybrid batteries	of Energy Research	oS	2		Тор
							10%
2	Phy	Ag2Se/SnTe nanorod as potential candidate for energy	Ceramics	W	https://doi.org/10.	44649	Q1-
1	sics	conversion system developed via hydrothermal route	International	oS	1016/j.ceramint.20		Тор
					22.10.131		10%

2	Phy	Diffusion control and surface control mechanism in	International Journal	W	https://doi.org/10.	13881	Q1-
2	sics	hierarchical nanostructured porous zinc-based MOF material	of Energy Research	oS	1002/er.8169		Тор
		for supercapattery					10%
2	Phy	Diffusion control and surface control mechanism in	International Journal	W	https://doi.org/10.	13881	Q1-
3	sics	hierarchical nanostructured porous zinc-based MOF material	of Energy Research	oS	1002/er.8169		Тор
		for supercapattery					10%
2	Phy	Reduced graphene oxide/cobalt phosphate composites with	International Journal	W	https://doi.org/10.	18/196	Q1-
4	sics	improved electrochemical performance for supercapattery	of Energy Research	oS	1002/er.8636		Тор
		devices					10%
2	Phy	State of the art advancement in rational design of g-C3N4	International Journal	W	https://doi.org/10.	48/162	Q2
5	sics	photocatalyst for efficient solar fuel transformation,	of Hydrogen Energy	oS	1016/j.ijhydene.20		
		environmental decontamination and future perspectives			21.11.252		
2	Phy	Synthesis and characterization of undoped and copper-doped	Applied Physics A	W	https://doi.org/10.	77/160	Q2
6	sics	zinc oxide nanowires for optoelectronic and solar cells	volume	oS	1007/s00339-021-		
		applications			05155-8		
2	Phy	The influential role of ITO heat treatment on improving the	Materials Today	W	https://doi.org/10.	25/125	Q2
7	sics	performance of solar cell n-ITO/p-Si junction: Structural,	Communications	oS	1016/j.mtcomm.20		
		optical, and electrical characterizations			22.103272		
2	Phy	Experimental and theoretical investigations on structural-	Journal of Molecular	W	https://doi.org/10.	23/72	Q2
8	sics	function relationship of new iron (III) complex with 2-	Structure	oS	1016/j.molstruc.20		
		(Ammoniomethyl)pyridinium cation as ligand: A promising			21.132051		
		material for green solar cells					
2	Phy	The influential role of ITO heat treatment on improving the	MATERIALS TODAY	W	https://doi.org/10.	165/334	Q2
9	sics	performance of solar cell n-ITO/p-Si junction: Structural,	COMMUNICATIONS	oS	1016/j.mtcomm.20		
		optical, and electrical characterizations			22.103272		
3	Phy	Facile synthesis of rGO/PANI/ZnO ternary nanocomposites for	Journal of the	W	https://doi.org/10.	44833	Q2
0	sics	energy storage devices	Korean Ceramic	oS	1007/s43207-022-		
			Society		00250-9		

3	Che	A new cadmium oxide (CdO) and copper selenide (CuSe)	Colloids and	W	https://doi.org/10.	1	Q2
1	mis	nanocomposite: An energy-efficient electrode for wide-voltage	Surfaces A:	oS	1016/j.colsurfa.202		
	try	hybrid supercapacitors	Physicochemical and		2.130327		
			Engineering Aspects				
3	Phy	Structural characteristics and optical properties of	Inorganic Chemistry	W	https://doi.org/10.	0	Q2
2	sics	methylcellulose/polyaniline films modified by low energy	Communications	oS	1016/j.inoche.2022		
		oxygen irradiation			.109502		
3	Phy	Tunable decorated flake interlayers of functionalized graphene	APPLIED PHYSICS A-	W	https://doi.org/10.	72/161	Q2
3	sics	oxide for energy storage devices	MATERIALS SCIENCE	oS	1007/s00339-022-		
			& PROCESSING		05707-6		
3	Phy	Solar Array Drive Assembly Disturbance Modeling, Jitter	Journal of Vibration	W	https://link.springe	75/137	Q3
4	sics	Analysis and Validation Tests for Precision Space-Based	Engineering &	oS	r.com/article/10.10		
		Operations	Technologies		07/s42417-022-		
					00688-		
3	Ma	Determination of an Energy Source Term for Fractional	Journal of Sensors	W	https://doi.org/10.	120/270	Q3
5	th	Diffusion Equation		oS	1155/2022/798468		
	ma				8		
	tic						