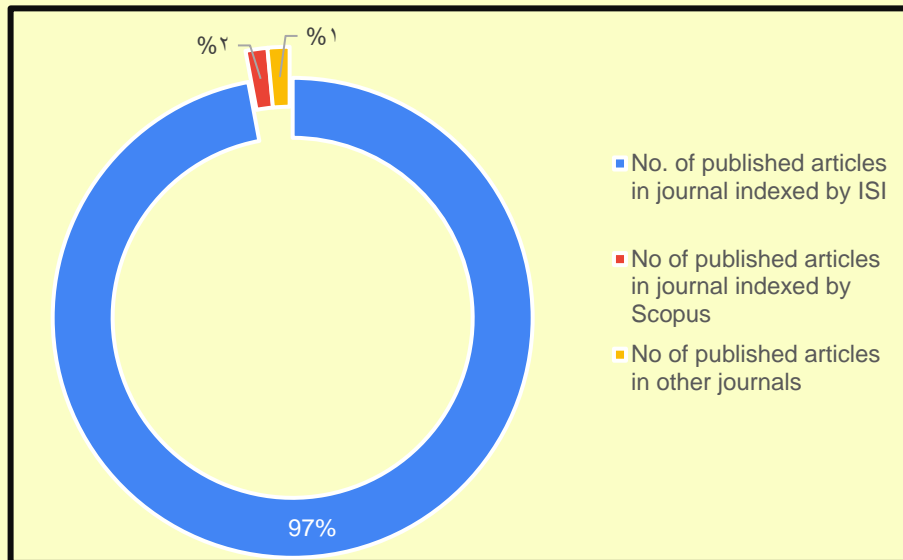




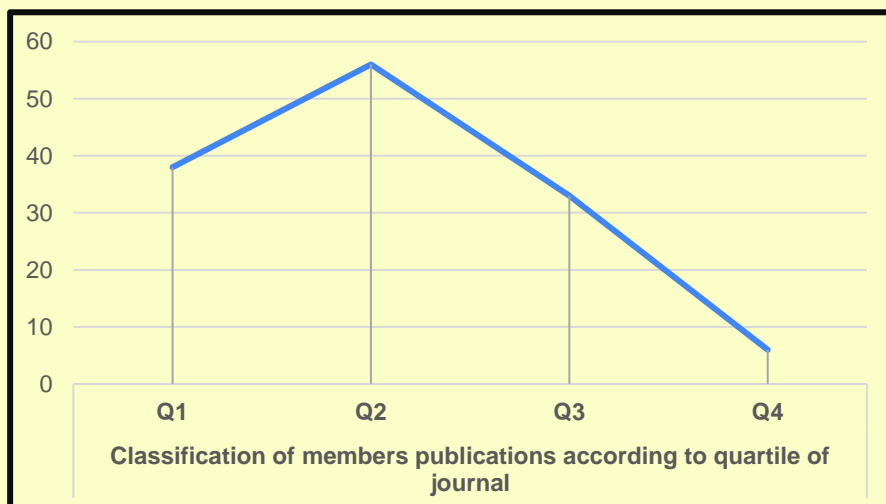
**PHYSICS DEPARTMENT
SCIENTIFIC PUBLICATION
2021**

Number of Published articles in 2021

No. of published articles in journal indexed by ISI	No of published articles in journal indexed by Scopus	No of published articles in other journals	Total Number of published articles
131	2	2	135



Classification of members publications according to quartile of journal				
Top 10	Q1	Q2	Q3	Q4
14	38	56	33	6



Top 10 articles

No	Name	Title of research	Journal	Quartile	Rank in Category	ISI /SCOUPUS/ other
1	Taha A. Taha	A molecular amalgamation of carbon nitride polymer as emphasized photocatalytic performance	International Journal of Energy Research	Q1	1/26 Top10	WoS &Scopus
2	Mohamed A. M.Uosif	An extended assessment of natural radioactivity in the sediments of the mid-region of the Egyptian Red Sea coast	MARINE POLLUTION BULLETIN	Q1	3/110 Top10	WoS &Scopus
3	Alrowaili, ZA (Alrowaili, Ziyad Awadh)	Antibiotic-Loaded Psyllium Husk Hemicellulose and Gelatin-Based Polymeric Films for Wound Dressing Application	PHARMACEUTICS	Q1	29/276 Top10	WoS &Scopus
4	A. Atta	Comparative analysis of different charged particles emerging from a broad beam ion source	Radiation Physics and Chemistry	Q1	3/34 Top10	WoS &Scopus

5	Meshal Alzaid	Effect of an optimal oxide layer on the efficiency of graphene-silicon Schottky junction solar cell	International Journal of Energy Research	Q1	1/34 Top10	WoS &Scopus
6	Mohamed A. M. Uosif	Effects of Nd2O3 substitution on the mechanical and radiation shielding properties of alumino-borobismuthate glasses	EUROPEAN PHYSICAL JOURNAL PLUS	Q1	20/86	WoS &Scopus
7	Alrowaili, ZA (Alrowaili, Z. A.)	Effects of TeO2/B2O3 substitution on synthesis, physical, optical and radiation shielding properties of ZnO-Li2O-GeO2-Bi2O3 glasses	CERAMICS INTERNATIONAL	Q1	3/29 Top10	WoS &Scopus
8	N.M.A. Hadia	Influence of nickel doping on the energy band gap, luminescence, and magnetic order of spray deposited nanostructured ZnO thin films	Journal of Alloys and Compounds	Q1	6/80 Top10	WoS &Scopus

9	N.M.A. Hadia	LiTaO ₃ assisted giant strain and thermally stable energy storage response for renewable energy storage applications	Ceramics International	Q1	3/29 Top10	WoS &Scopus
10	Taha Abdel Mohaymen Taha	Molecular grafting based polymeric carbon nitride for wondrous artificial photosynthesis	International Journal of Energy Research	Q1	1/34 Top10	WoS &Scopus
11	Alrowaili, ZA (Alrowaili, Ziyad A.)	Novel green synthesis of hydroxyapatite uniform nanorods via microwave-hydrothermal route using licorice root extract as template	CERAMICS INTERNATIONAL	Q1	3/29 Top10	WoS &Scopus
12	Meshal Alzaid	Recent progress in the role of two-dimensional materials as an efficient charge transport layer in perovskite solar cells	International Journal of Energy Research	Q1	1/34 Top10	WoS &Scopus

13	Alrowaili, ZA (Alrowaili, Z. A.)	Significant influence of MoO ₃ content on synthesis, mechanical, and radiation shielding properties of B ₂ O ₃ -Pb ₃ O ₄ -Al ₂ O ₃ glasses	JOURNAL OF ALLOYS AND COMPOUNDS	Q1	6/80 Top10	WoS &Scopus
14	N.M.A. Hadia	Tailoring the physical properties of low dimensional MgO nanostructures using vapor transport deposition	Materials Characterization	Q1	3/32 Top10	WoS &Scopus

scientific cooperation between male and female sections 2021

In the next table Scientific cooperation between male and female sections 2021

No	Authors	Title	Journal	DOI
1	A. Atta, E. Abdeltwab, and A Bek	Structural, Mechanical and Electrical Properties of Sputter Coated Copper Thin Films on Poly Ethylene Terephthalate	Research Square	https://doi.org/10.21203/rs.3.rs-220271/v1

2	E. Abdeltwab and A. Atta	Influence of ZnO nanoadditives on the structural characteristics and dielectric properties of PVA	Surface Innovations	https://doi.org/10.1142/S0217979221503100
3	A Atta, E Abdeltwab and A Bek	Surface Physical Properties of Ion Beam Sputtered Copper Thin Films on Poly Tetrafluoroethylene	Surface Topography	https://doi.org/10.1088/2051-672X/abf9f5

There is an increasing of scientific cooperation between male and female sections 2021 compared to 2020

List of Published articles

No	Name	Title of research	Journal	Quartile	Rank in Category	ISI /SCO UPUS / other
1	Abdel El -azem Mebed	Comparative study of anodization of small-scale and wafer-scale aluminum films on a silicon substrate and	Journal of Electroanalytical Chemistry	Q1	20/83	Wos

		controlling pores shape for practical applications				
2	Nadia Zaidi	Effect of Nb substitution on the structural, dielectric and modulus character of Ba _{0.97} La _{0.02} TiO ₃ ceramics	Inorganic Chemistry Communications	Q1	67/116	Wos
3	Anwa. Tozri	Optical and magnetic characterization of one-dimensional Cu(ii)-based perovskite: a high UV-Vis-NIR absorber	JOURNAL OF MATERIALS CHEMISTRY C	Q1	25 /160	Wos
4	Alhulw H. Alshammari	Structure, thermal and dielectric insights of PVC/PVP/ZnFe ₂ O ₄ polymer nanocomposites	The European Physical Journal Plus	Q1	20/86	Wos
5	T.A. Taha	A butterfly shaped organic heterojunction photocatalyst for effective photocatalytic CO ₂ reduction	CrystEngComm	Q1	6/26	WoS &Scopus
6	T.A. TAHA	A molecular amalgamation of carbon nitride polymer as emphasized photocatalytic performance	International Journal of Energy Research	Q1	1/34 Top10	WoS &Scopus
7	Taha A. Taha	A molecular amalgamation of carbon nitride polymer as emphasized photocatalytic performance	International Journal of Energy Research	Q1	1/26 Top10	WoS &Scopus

8	Mohamed A. M.Uosif	An extended assessment of natural radioactivity in the sediments of the mid-region of the Egyptian Red Sea coast	MARINE POLLUTION BULLETIN	Q1	3/110 Top10	WoS &Scopus
9	Alrowaili, ZA (Alrowaili, Ziyad Awadh)	Antibiotic-Loaded Psyllium Husk Hemicellulose and Gelatin-Based Polymeric Films for Wound Dressing Application	PHARMACEUTICS	Q1	29/276 Top10	WoS &Scopus
10	Meshal Alzaid	Biomass derived activated carbon based hybrid supercapacitors	Journal of Energy Storage	Q1	28/114	WoS &Scopus
11	Alrowaili, Z. A. & Alrowaili, Ziyad A. & Alrowaili, Ziyad Awadh	Boosting the catalytic efficiency of platinum nanoparticles supported on pristine carbon nanotubes: Synergistic effects of conducting polymers	FUEL	Q1	27/114	WoS &Scopus
12	A. Atta	Comparative analysis of different charged particles emerging from a broad beam ion source	Radiation Physics and Chemistry	Q1	3/34 Top10	WoS &Scopus
13	Meshal Alzaid	Copper doped cobalt-manganese phosphate ternary composites for high-performance supercapattery devices	JOURNAL OF ENERGY STORAGE	Q1	28/114	WoS &Scopus
14	Kh. O. Kassem	Design of mesoporous ZnO @ silica fume-derived SiO ₂ nanocomposite as	Journal of Cleaner Production	Q1	25	WoS &Scopus

		photocatalyst for efficient crystal violet removal: Effective route to recycle industrial waste				
15	Meshal Alzaid	Effect of an optimal oxide layer on the efficiency of graphene-silicon Schottky junction solar cell	International Journal of Energy Research	Q1	1/34 Top10	WoS & Scopus
16	Mohamed A. M. Uosif	Effects of Nd2O3 substitution on the mechanical and radiation shielding properties of alumino-borobismuthate glasses	EUROPEAN PHYSICAL JOURNAL PLUS	Q1	20/86	WoS & Scopus
17	Alrowaili, ZA (Alrowaili, Z. A.)	Effects of TeO2/B2O3 substitution on synthesis, physical, optical and radiation shielding properties of ZnO-Li2O-GeO2-Bi2O3 glasses	CERAMICS INTERNATIONAL	Q1	3/29 Top10	WoS & Scopus
18	Ali Atta	Flexible Methyl Cellulose/Polyaniline/Silver Composite Films with Enhanced Linear and Nonlinear Optical Properties	Polymers	Q1	18/90	WoS & Scopus
19	Alrowaili, ZA (Alrowaili, Ziyad A.)	Fully-developed laminar flow in trapezoidal ducts with rounded corners: a numerical solution and case study	INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW	Q1	10/60	WoS & Scopus

20	Meshal Alzaid	Improved performance and long-term stability of organogelator electrolyte based semi-solid-state dye sensitized solar cells with electrospun ZnO-TiO ₂ hybrid films	Surface & Coatings Technology	Q1	40/160	WoS & Scopus
21	N.M.A. Hadia	Influence of nickel doping on the energy band gap, luminescence, and magnetic order of spray deposited nanostructured ZnO thin films	Journal of Alloys and Compounds	Q1	6/80 Top10	WoS & Scopus
22	Alrowaili, ZA (Alrowaili, Z. A.)	Investigation of the structure and radiation shielding properties of borate/Y ₂ O ₃ glasses	EUROPEAN PHYSICAL JOURNAL PLUS	Q1	20/86	WoS & Scopus
23	N.M.A. Hadia	LiTaO ₃ assisted giant strain and thermally stable energy storage response for renewable energy storage applications	Ceramics International	Q1	3/29 Top10	WoS & Scopus
24	A. Tozri	Magnetocaloric effect and critical behavior in La _{0.8} K _{0.2} MnO ₃ nanoparticle	RESULTS IN PHYSICS	Q1	18 of 86	WoS & Scopus
25	Taha Abdel Mohaymen Taha	Molecular grafting based polymeric carbon nitride for wondrous artificial photosynthesis	International Journal of Energy Research	Q1	1/34 Top10	WoS & Scopus

26	Taha Abdel Mohaymen Taha	Nanostructure Engineering via Intramolecular Construction of Carbon Nitride as Efficient Photocatalyst for CO2 Reduction	Nanomaterials	Q1	35/160	WoS & Scopus
27	Alrowaili, ZA (Alrowaili, Ziyad A.)	Novel green synthesis of hydroxyapatite uniform nanorods via microwave-hydrothermal route using licorice root extract as template	CERAMICS INTERNATIONAL	Q1	3/29 Top10	WoS & Scopus
28	Alrowaili, ZA (Alrowaili, Z. A.)	Nuclear shielding properties and buildup factors of Cr-based ferroalloys	PROGRESS IN NUCLEAR ENERGY	Q1	7/34	WoS & Scopus
29	R. M. El-Agmy	Optical and spectroscopic study of Nd2O3-doped SBN glass in the near-infrared, visible and UV regions under pumping up-conversion emissions	The European Physical Journal Plus	Q1	20/86	WoS & Scopus
30	Meshal Alzaid	Recent progress in the role of two-dimensional materials as an efficient charge transport layer in perovskite solar cells	International Journal of Energy Research	Q1	1/34 Top10	WoS & Scopus
31	Alrowaili, ZA (Alrowaili, Ziyad A.)	Robust Adaptive HCS MPPT Algorithm-Based Wind Generation System Using Model Reference Adaptive Control	SENSORS	Q1	14/64	WoS & Scopus

32	N.M.A. Hadia	Role of Cu dilute on microstructures, optical, photoluminescence, magnetic and electrical properties of CdS film	Materials Science in Semiconductor Processing	Q1	65/273	WoS & Scopus
33	Meshal Alzaid	Role of electron carrier selective contact layer of lithium fluoride films with wide bandgap and low work function for silicon heterojunction solar cells	Materials Science in Semiconductor Processing	Q1	65/273	WoS & Scopus
34	Alrowaili, ZA (Alrowaili, Z. A.)	Significant influence of MoO ₃ content on synthesis, mechanical, and radiation shielding properties of B ₂ O ₃ -Pb ₃ O ₄ -Al ₂ O ₃ glasses	JOURNAL OF ALLOYS AND COMPOUNDS	Q1	6/80 Top10	WoS & Scopus
35	Meshal Alzaid	Synergistic effect of magnetron sputtered silver nano-islands and Co-3(PO ₄) ₂ for high performance supercapattery devices	JOURNAL OF ELECTROANALYTICAL CHEMISTRY	Q1	20/87	WoS & Scopus
36	Alrowaili, Z. A. & Alrowaili, Ziyad A. & Alrowaili, Ziyad Awadh	Synthesis, physical and nuclear shielding properties of novel Pb-Al alloys	PROGRESS IN NUCLEAR ENERGY	Q1	7/34	WoS & Scopus
37	N.M.A. Hadia	Tailoring the physical properties of low dimensional MgO nanostructures using vapor transport deposition	Materials Characterization	Q1	3/32 Top10	WoS & Scopus

38	Mohamed A. M. Uosif	The Influence of CoO/P2O5 Substitutions on the Structural, Mechanical, and Radiation Shielding of Boro-Phosphate Glasses	Matirials	Q1	17/80	WoS &Scopus
39	Massaud Mostafa	Biosynthesis of Zinc Oxide Nanoparticles Using Leaf Extract of Prosopis juliflora as Potential Photocatalyst for the Treatment of Paper Mill Effluent	Applied science	Q2	60	Wos
40	N.Zaidi	DC-Bias Dependent Impedance and UV-Vis Diffuse Reflectance Spectroscopy of The Un-Doped and Nb-Doped Ba0.97La0.02TiO3 Ceramics	Journal of Alloys and Compounds	Q2	11 / 153	Wos
41	A. Atta	Enhanced dielectri properties of flexible Cu/polymer nanocomposite films	Surface Innovations	Q2	91/162	Wos
42	M.R Atta	Enhanced optical, morphological, dielectric, and conductivity properties of gold nanoparticles doped PVA/CMC blend as an application in organoelectronic devices	Journal of Materials Science: Materials in Electronics (JMSE)	Q2	132/266	Wos
43	N.Zaidi	Magnetocaloric properties of MnFeP1-xAsx (x = 0.55 and 0.53)	Journal of Alloys and Compounds	Q2	11 / 153 Top10	Wos
44	A. Tozri	Study of physical properties of a ferrimagnetic spinel Cu1.5Mn1.5O4: spin dynamics,	RSC ADVANCES	Q2	81 / 178	Wos

		magnetocaloric effect and critical behavior				
45	E Abdeltwab	Surface Physical Properties of Ion Beam Sputtered Copper Thin Films on Poly Tetrafluoroethylene	Surface Topography: Metrology and Properties	Q2	37/119	Wos
46	Mebed	Synthesis and Thermal Treatment of Pd-Cr@Carbon for Efficient Oxygen Reduction Reaction in Proton-Exchange Membrane Fuel Cells	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	Q2	30/88	Wos
47	A. Tozri	Tunable broad-band white-light emission in two-dimensional (110)-oriented lead bromide perovskite (C ₃ H ₈ N ₆)[PbBr ₄]: optical, electronic and luminescence properties	NEW JOURNAL OF CHEMISTRY	Q2	75 /178	Wos
48	A. Atta	Effects of polyaniline and silver nanoparticles on the structural characteristics and electrical properties of methylcellulose polymeric films	Inorganic Chemistry Communications	Q2	21/45	WoS &Scopus
49	Alrowaili, ZA (Alrowaili, Z. A.)	A Significant Role of Tb ₂ O ₃ on the Optical Properties and Radiation Shielding Performance of Ga ₂ O ₃ -B ₂ O ₃ -Al ₂ O ₃ -GeO ₂ Glasses	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	Q2	30/90	WoS &Scopus

50	T.A. Taha	A Superficial Intramolecular Alignment of Carbon Nitride through Conjugated Monomer for Optimized Photocatalytic CO ₂ Reduction	Catalysts	Q2	67/162	WoS & Scopus
51	N.M.A. Hadia	Charge carrier modulation in dual-gated graphene field effect transistor using honey as polar organic gate dielectric	Applied Physics A-materials Science & Processing	Q2	77/160	WoS & Scopus
52	Alrowaili, ZA (Alrowaili, Z. A.)	Comparison of different adsorption pairs based on zeotropic and azeotropic mixture refrigerants for solar adsorption ice maker	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	Q2	91/274	WoS & Scopus
53	A. Tozri	Effect of Bi substitution on nanostructural, morphologic, and electrical behavior of nanocrystalline La _{1-x} Bi _x Ni _{0.5} Ti _{0.5} O ₃ (x=0 and x=0.2) for the electrical devices	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	Q2	129 / 334	WoS & Scopus
54	N.M.A. Hadia	Effect of surfactant concentration on the morphology and thermoelectric power factor of PbTe nanostructures prepared by a hydrothermal route	Physica E: Low-dimensional Systems and Nanostructures	Q2	28/69	WoS & Scopus
55	R. M. El-Agmy	Enhancement of spectroscopic parameters of Er ³⁺ -doped cadmium lithium gadolinium	Solid state sciences	Q2	32/69 Physics	WoS & Scopus

		silicate glasses as an active medium for lasers and optical amplifiers in the NIR-region				
56	W.S.Mohamed	Experimental and theoretical studies of (CdS) 1-x (ZnS)x thin-films for second generation CdS/CdTe solar cells	Physica B: Physics of Condensed Matter	Q2	40/125	WoS & Scopus
57	Meshal Alzaid	Exploring the electrochemical performance of copper-doped cobalt-manganese phosphates for potential supercapattery applications	RSC ADVANCES	Q2	81/178	WoS & Scopus
58	N.M.A. Hadia	Extraction of thickness, linear and nonlinear optical parameters of Ge _{20+x} Se _{80-x} thin films at normal and slightly inclined light for optoelectronic devices	Optical Materials	Q2	32/99	WoS & Scopus
59	Meshal Alzaid	Fabrication of direct Z-scheme MoO ₃ /N-MoS ₂ photocatalyst for synergistically enhanced H ₂ production	INT J HYDROGEN ENERG	Q2	37/114	WoS & Scopus
60	W.S.Mohamed	Facile synthesis and characterization of novel Gd ₂ O ₃ -CdO binary mixed oxide nanocomposites of highly photocatalytic activity for wastewater remediation under solar illumination	Journal of Physics and Chemistry of Solids	Q2	30/125	WoS & Scopus

61	Meshal Alzaid	Functionalized role of highly porous activated carbon in bismuth vanadate nanomaterials for boosted photocatalytic hydrogen evolution and synchronous activity in water	INT J HYDROGEN ENERG	Q2	37/114	WoS &Scopus
62	Amal Khedr	Gold Nanoparticle-Enhanced Laser-Induced Breakdown Spectroscopy and Three-Dimensional Contour Imaging of an Aluminum Alloy	Applied Spectroscopy	Q2	55/117	WoS &Scopus
63	C. Bilel	Growth and investigation of LaNiO ₃ /La ₂ O ₃ composites films for optoelectronic applications	Optik	Q2	64/192	WoS &Scopus
64	A. Tozri	High-temperature dielectric behavior of hexagonal HoMnO ₃	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	Q2	23 / 69	WoS &Scopus
65	M.F.Hasaneen	Influence of different types of substrates on the physical properties of CdSe films	Physica B	Q2	39/69	WoS &Scopus
66	A. Tozri	Investigation of the magnetocaloric effect and the critical behavior of the interacting superparamagnetic nanoparticles of La _{0.8} Sr _{0.15} Na _{0.05} MnO ₃	JOURNAL OF ALLOYS AND COMPOUNDS	Q2	97 / 334	WoS &Scopus
67	A.A. El-Maaref	Lithium cadmium phosphate glasses doped Sm ³⁺ as a host material	Optical Materials	Q2	32/99	WoS &Scopus

		for near-IR laser applications				
68	Alrowaili, ZA (Alrowaili, Ziyad A.)	Machine Learning Enabled Early Detection of Breast Cancer by Structural Analysis of Mammograms	CMC- COMPUTERS MATERIALS & CONTINUA	Q2	57/161	WoS &Scopus
69	C. Bilel	Modeling of the Growth Mechanisms of GaAsBi and GaAs Nanowires	Journal of Electronic Materials	Q2	181/411	WoS &Scopus
70	Meshal Alzaid	Optical properties upon ZnS film thickness in ZnS/ITO/glass multilayer films by ellipsometric and spectrophotometric investigations for solar cell and optoelectronic applications	Optical Materials	Q2	32/99	WoS &Scopus
71	Alrowaili, ZA (Alrowaili, Z. A.)	Organic heterostructure modified carbon nitride as apprehension for Quercetin Biosensor	SYNTHETIC METALS	Q2	30/69	WoS &Scopus
72	A. Atta	Oxygen ion induced variations in the structural and Linear/Nonlinear optical properties of the PVA/PANI/Ag nanocomposite film	Inorganic Chemistry Communications	Q2	21/45	WoS &Scopus
73	Alrowaili, ZA (Alrowaili, Ziyad Awadh)	Ozone Depletion Identification in Stratosphere Through Faster Region-Based Convolutional Neural Network	CMC- COMPUTERS MATERIALS & CONTINUA	Q2	57/161	WoS &Scopus
74	A.M.A. Mostafa	PbO–Sb ₂ O ₃ –B ₂ O ₃ –CuO glassy system: Evaluation of optical, gamma and	Materials Chemistry and Physics	Q2	126/334	WoS &Scopus

		neutron shielding properties				
75	N.M.A. Hadia	Pre-Crystallization Criteria and Triple Crystallization Kinetic Parameters of Amorphous–Crystalline Phase Transition of As₄₀S₄₅Se₁₅ Alloy	Journal of Inorganic and Organometallic Polymers and Materials	Q2	30/88	WoS &Scopus
76	Alrowaili, ZA (Alrowaili, Z. A.)	Significant Enhanced Optical Parameters of PVA-Y₂O₃ Polymer Nanocomposite Films	JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS	Q2	30/90	WoS &Scopus
77	T.A. TAHA	Simple and efficient design towards a significant improvement of the optical absorption of amorphous silicon solar cell	Journal of Quantitative Spectroscopy and Radiative Transfer	Q2	44/99	WoS &Scopus
78	Meshal Alzaid	Simultaneous enhancement of Seebeck coefficient and electrical conductivity in ZnSnO by the engineering of grain boundaries using post annealing	PHYSICS LETTERS A	Q2	36/86	WoS &Scopus
79	Alrowaili, ZA (Alrowaili, Z. A.)	Sn-induced changes in the structure and optical properties of amorphous As-Se-Sn thin films for optical devices	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	Q2	77/160	WoS &Scopus
80	A. Atta	Structural and electrical properties of irradiated flexible ZnO/PVA nanocomposite films	Surface Innovations	Q2	9/21	WoS &Scopus

81	Alrowaili, ZA (Alrowaili, Z. A.)	Structural and magnetic properties of erbium substituted spinel ferrites for microwave absorptions	JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE	Q2	35/72	WoS &Scopus
82	A. Tozri	Structural, dielectric, electrical and modulus spectroscopic characteristics of CoFeCuO ₄ spinel ferrite nanoparticles	MATERIALS SCIENCE AND ENGINEERING B- ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	Q2	129/334	WoS &Scopus
83	W.S.Mohamed	Structural, optical and electrical properties of Bi ₂₂ xMnxTe ₃ thin films	J Mater Sci: Mater Electron	Q2	38/125	WoS &Scopus
84	M.F.Hasaneen	Study the effect of type of substrates on the microstructure and optical properties of CdTe Thin Films	Optik	Q2	46/99	WoS &Scopus
85	Alrowaili, Z. A.	Synthesis and characterization of B ₂ O ₃ -Ag(3)PO ₄ -ZnO-Na ₂ O glasses for optical and radiation shielding applications	OPTIK	Q2	47/99	WoS &Scopus
86	N.M.A. Hadia	Synthesis and characterization of undoped and copper-doped zinc oxide nanowires for optoelectronic and solar cells applications	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	Q2	77/160	WoS &Scopus
87	C. Bilel	Synthesis and physical characterization of Ni-doped La ₂ O ₃ for photocatytic application under sunlight	Journal of Materials Science: Materials in Electronics	Q2	139/411	WoS &Scopus

88	Alrowaili, ZA (Alrowaili, Z. A.)	Synthesis of an optimized ZnS/Au/ZnS multilayer films for solar cell electrode applications	OPTICAL MATERIALS	Q2	32/99	WoS &Scopus
89	AMA Mostafa	Tailoring the structuralism in $x\text{BaO} \cdot (30-x)\text{Li}_2\text{O} \cdot 70\text{B}_2\text{O}_3$ glasses for highly efficient shields of Gamma radiation and neutrons attenuators	PHYSICA SCRIPTA	Q2	40/86	WoS &Scopus
90	Alrowaili, ZA (Alrowaili, Z. A.)	The Evaluation of Structural, Electrical and Magnetic Properties of Samarium substituted Spinel Ferrites	JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE	Q2	35/72	WoS &Scopus
91	Alrowaili, ZA (Alrowaili, Z. A.)	The significant role of CeO ₂ content on the radiation shielding performance of Fe ₂ O ₃ -P ₂ O ₅ glass-ceramics: Geant4 simulations study	PHYSICA SCRIPTA	Q2	40/86	WoS &Scopus
92	Mebed	Theoretical and Experimental Parameters of the Structure and Crystallization Kinetics of Melt-Quenched As ₃₀ Te ₆₄ Ga ₆ Glassy Alloy	Journal of Inorganic and Organometallic Polymers and Materials	Q2	30/88	WoS &Scopus
93	Alrowaili, ZA (Alrowaili, Z. A.)	Theoretical investigation of pressure sensing using a defect of polystyrene inside photonic crystals	MATERIALS CHEMISTRY AND PHYSICS	Q2	126/334	WoS &Scopus
94	Alrowaili, ZA (Alrowaili, Z. A.)	Theoretical investigations of Tamm plasmon resonance for monitoring of isoprene traces in the exhaled breath: Towards	PHYSICS LETTERS A	Q2	36/86	WoS &Scopus

		chronic liver fibrosis disease biomarkers				
95	N.M.A. Hadia	Thickness controlling bandgap energy, refractive index and electrical conduction mechanism of 2D Tungsten Diselenide (WSe ₂) thin flms for photovoltaic applications	Applied Physics A Materials Science & Processing	Q2	77/160	WoS &Scopus
96	Alrowaili, ZA (Alrowaili, Z. A.)	Structure and AC electrical characterization for amorphous Se ₅₀ Te ₅₀ thin-film fabricated by thermal evaporation technique	PHYSICA B-CONDENSED MATTER	Q3	39/69	None
97	A. Arfaoui	Photocatalytic degradation of methylene blue dye via MoO ₃ , NiMoO ₄ , Co _{0.7} Fe _{0.3} (MoO ₄) and Fe ₂ (MoO ₄) 3 thin films prepared by spray pyrolysis technique	Bulletin of Materials Science	Q3	0.35	Scopus
98	Ahlem Cherif	Electrical and Dielectric Properties of a Dy ₂ O ₃ MOS Capacitor	Journal of Electronic Materials	Q3	125	Wos
99	A. Atta	Enhanced dielectric properties of flexible Cu/polymer nanocomposite films	Surface Innovations	Q3	9/21	WoS &Scopus
100	Alrowaili, ZA	A Review of Chemotherapy and Photodynamic Therapy for Lung Cancer Treatment	ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY	Q3	45/62	WoS &Scopus

101	Alrowaili, ZA (Alrowaili, Z. A.)	A Study of Thermal, and Optical Properties of 22SiO(2)-23Bi(2)O(3)- 37B(2)O3-13TiO(2)-(5-x) LiF- x BaO Glasses	SILICON	Q3	104/16 2	WoS &Scopus
102	Alrowaili, ZA (Alrowaili, Z. A.)	Characterization of physicochemical properties of As ₂ Se ₃ - GeTe-AgI chalcohalide glasses for solar cell and IR applications: influence of adding AgI	JOURNAL OF MATERIALS SCIENCE- MATERIALS IN ELECTRONIC S	Q3	215/33 4	WoS &Scopus
103	A. M. A. Mostafa	Characterization of synthesized xBaO-(40- x)Li ₂ O- 60B ₂ O ₃ glass system: a multi- dimensional research on optical and physical properties	JOURNAL OF MATERIALS SCIENCE- MATERIALS IN ELECTRONIC S	Q3	83/160	WoS &Scopus
104	Meshal Alzaid	Drive towards Sonochemically Synthesized Ternary Metal Sul!de for High- Energy Supercapattery	Energy Technology	Q3	66/114	WoS &Scopus
105	Alrowaili, ZA (Alrowaili, Z. A.)	Elastic properties and radiation shielding ability of ZnO-P ₂ O ₅ /B ₂ O ₃ glass system	JOURNAL OF MATERIALS SCIENCE- MATERIALS IN ELECTRONIC S	Q3	83/160	WoS &Scopus
106	Meshal Alzaid	Enhancement in Optical Properties of Lanthanum-Doped Manganese Barium Hexaferrites under Different Substitutions	Advances in Condensed Matter Physics	Q3	49/69	WoS &Scopus

107	A. Tozri	Experimental and theoretical investigations on structural-function relationship of new iron (III) complex with 2-(Ammoniomethyl)pyridinium cation as ligand: A promising material for green solar cells	Journal of Molecular Structure	Q3	83/162	WoS & Scopus
108	Mebed	Fabrication and evaluation of structural, thermal, mechanical and optical behavior of epoxy-TEOS/MWCNTs composites for solar cell covering	Polymer Bulletin	Q3	33/120	WoS & Scopus
109	Alrowaili, ZA (Alrowaili, Z. A.)	Fabrication of nanostructured NiO and NiO:Cu thin films for high-performance ultraviolet photodetector	OPTICAL MATERIALS	Q3	32/99	WoS & Scopus
110	Mebed	Fabrication, Boron Leaching, and Electrochemical Impedance Spectroscopy of Nanoporous P-Type Silicon	Silicon	Q3	202/333	WoS & Scopus
111	Alrowaili, ZA (Alrowaili, Z. A.)	FT-IR and Gamma Shielding Characteristics of 22SiO(2)-23Bi(2)O(3)-37B(2)O3-13TiO(2)-(5-x) LiF- x BaO Glasses	SILICON	Q3	104/162	WoS & Scopus
112	Alrowaili, ZA (Alrowaili, Z. A.)	Gamma, neutron, and charged-particles shielding properties of tellurite glass system containing Sb2O3 and V2O5	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	Q3	83/160	WoS & Scopus

113	A. Atta	Influence of ion beam and silver nanoparticles on dielectric properties of flexible PVA/PANI polymer composite films	Plastics, Rubber and Composites	Q3	20/28	WoS &Scopus
114	A. Atta	Influence of Ion Irradiation on the Surface Properties of Silver-Coated Flexible PDMS Polymeric Films	Brazilian Journal of Physics	Q3	62/86	WoS &Scopus
115	A. Atta	Influence of ZnO nanoadditives on the structural characteristics and dielectric properties of PVA	International Journal of Modern Physics B	Q3	34/55	WoS &Scopus
116	T.A. TAHA	Investigation of Sm ₂ O ₃ effect on opto-electrical parameters and dielectric properties of some fluorophosphate glasses	Journal of Materials Science: Materials in Electronics	Q3	83/160	WoS &Scopus
117	N.M.A. Hadia	Linear and Non-linear Optical Parameters of Diluted Magnetic Semiconductor CdS _{0.9} Mn _{0.1} Thin Film: Influence of the Film Thickness	Journal Of Electronic Materials	Q3	174/273	WoS &Scopus
118	Alrowaili, ZA (Alrowaili, Z. A.)	Mechanical and Thermodynamic Characteristics of 22SiO ₂ -23Bi ₂ O ₃ -37B ₂ O ₃ -13TiO ₂ -(5-x) LiF- x BaO Glasses	SILICON	Q3	104/162	WoS &Scopus
119	N.M.A. Hadia	Microstructural, optical, and electrical characteristics of Cu-doped CdTe nanocrystalline films for	Journal Of Materials Science-materials In Electronics	Q3	215/334	WoS &Scopus

		designing absorber layer in solar cell applications				
120	Alrowaili, ZA (Alrowaili, Z. A.)	Phosphate, phosphoric acid and phosphogypsum natural radioactivity and radiological hazards parameters	JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY	Q3	23/34	WoS &Scopus
121	Alrowaili, ZA (Alrowaili, Z. A.)	Structural, thermal, and mechanical characteristics of yttrium lithium borate glasses and glass-ceramics	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	Q3	83/160	WoS &Scopus
122	Meshal Alzaid	Superior performance of cobalt oxide/carbon composite for solid-state supercapattery devices	PHYSICA B-CONDENSED MATTER	Q3	39/69	WoS &Scopus
123	Meshal Alzaid	Synthesis and enhanced electromechanical properties of Bi(Mg _{0.5} Zr _{0.5})O ₃ -modified BiFeO ₃ -BaTiO ₃ piezoceramics by ordinary firing process	J KOREAN CERAM SOC	Q3	16/29	WoS &Scopus
124	Meshal Alzaid	Synthesis of BiVO ₄ /NiFe ₂ O ₄ composite for photocatalytic degradation of methylene blue	APPLIED NANOSCIENCE	Q3	60/106	WoS &Scopus
125	Alrowaili, ZA (Alrowaili, Z. A.)	Synthesis of Pb ₃ O ₄ -SiO ₂ -ZnO-WO ₃ Glasses and their Fundamental Properties for Gamma Shielding Applications	SILICON	Q3	104/162	WoS &Scopus

126	Alrowaili, ZA (Alrowaili, Z. A.)	Synthesis, Optical Absorption and Radiation Shielding Performance of Sodium Zinc Borate-Er ₂ O ₃ Glasses	JOURNAL OF ELECTRONIC MATERIALS	Q3	102/160	WoS & Scopus
127	Meshal Alzaid	Tailoring the thermoelectric properties of bulk ZnAlO with different aluminum concentrations (1, 1.5 and 2%) by post annealing in air at various temperatures	PHYSICA B-CONDENSED MATTER	Q3	39/69	WoS & Scopus
128	Alrowaili, ZA (Alrowaili, Z. A.)	The role of PbF ₂ on the gamma-ray photon, charged particles, and neutron shielding prowess of novel lead fluoro bismuth borate glasses	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	Q3	215/334	WoS & Scopus
129	Kassem Kh, O.	Estimation of Clear-Sky Global Solar Radiation Using Hottel's Model and Liu and Jordan's Model for Qena/Egypt.	Resources and Environment	Q4	125	None
130	M. Mostafa	Preparation and Characterization and Dielectric Properties of (Ba _{0.95} Ca _{0.05}) TiO ₃ Ceramic Material	International Journal of Thin Film Science and Technology	Q4	30	Scopus
131	E. Abdeltwab	Structural and electrical properties of irradiated flexible ZnO/PVA nanocomposite films	Surface Innovations	Q4	59/110	Wos
132	A. Atta	Oxygen plasma irradiation-induced surface modifications on	Journal of the Korean Physical Society	Q4	80/86	WoS & Scopus

		HDPE and PET polymeric films				
133	N.M.A. Hadia	Change in properties upon thermal treatment of copper sulphide powder and thin films	Bulletin Of Materials Science	Q4	263/334	WoS & Scopus
134	N.M.A. Hadia	Ellipsometric evaluation and morphology of mixed zinc sulfide/zinc oxide and zinc oxide nanostructures synthesized at various temperatures	Canadian Journal of Physics	Q4	65/86	WoS & Scopus
135	N.M.A. Hadia	Structural and optical properties of CuIn_{1-x}GaxSe₂ thin films	Journal Of Optoelectronics And Advanced Materials	Q4	338/384	WoS & Scopus

Head of scientific committee

Head of Physics Department

Prof. Mohamed Amin Uosif

Dr. Alhulw Alshammari