Annual Review Research 2023

الأولويات البحثية لكلية العلوم

1. Research Excellence in advanced materials
2. Research in olive
3. Obtain solutions to environmental problems in Al Jouf region
4. Petrochemical and industrial
5. Theoretical Studies (Modeling and simulation)
6. Excellence in the scope of medical

	Top 10	Q1	Q2	Q3	Q4	ISI	Scopus	Other	Total	Top 100	Top 200	Top 500
Physics	31	76	136	57	8	277	277	6	283	1	44	50
Chemistry	1	42	45	15	4	106	106	8	114	3	13	23
Biology	0	22	13	16	4	55	55	5	60	2	8	7
Mathematics	4	18	14	7	4	43	43	2	45	3	2	1
Total	36	158	208	95	20	481	481	21	502	9	67	81

الابحاث المنشورة بقواعد البيانات ISI& Scopus :

1. اجمالي الأبحاث المنشورة481 بحثا

481 .2 بحث منشور في مجالات مصنفه في قاعدة البيانات بحث منشور Scopus

481.3 بحث منشور في مجالات مصنفه في قاعدة البيانات ISI

4. 36 بحثا مصنف في Top 10 Journal .

5. نسبة مجموع البحوث المنشورة والمصنفة في Q1&Q2 journal بنسبة 76%

للبحوث المنشورة في حين المنشور في 2022 بنسبه 77%.

6. نسبة البحوث المنشورة والمصنفة في Q1 journal بنسبة 33% من العدد الكلى للبحوث

المنشورة في حين المنشور في 2022 م بنسبه 38.8%.

7. نسبة البحوث المنشورة والمصنفة في Q2 journal بنسبة 43%من العدد الكلى للبحوث

المنشورة في حين المنشور في 2022 م بنسبة 38.2%.

8. نسبة البحوث المنشورة والمصنفة في Q3 journal بنسبة 20% من العدد الكلى للبحوث

المنشورة في حين المنشور في 2022 م بنسبة 17.7% .

9. نسبة البحوث المنشورة والمصنفة في Q4 journal بنسبة 4% من العدد الكلى للبحوث المنشورة

في حين المنشور في 2022 م بنسبة 4.8%.

Physics program

1- Number of Published articles in 2023

Q1 Top 10	Q1	Q2	Q3	Q4
31	76	136	57	8

ISI	Scopus	Other	Total
277	277	6	238

Top 100	Top 200	Top 500
1	44	50

3- List of impacted articles in Web of Science

No	Article Title	Journal Name	Link	Quartile
1	Recycling of waste cathode-ray tube glasses as building materials for shielding structures in medical and nuclear facilities	CONSTRUCTION AND BUILDING MATERIALS	10.1016/j.conbuildmat.2023.131029	Q1
2	Tb3+-doped GeO2-B2O3–P2O5–ZnO magneto-optical glasses: Potential application as gamma-radiation absorbers	RADIATION PHYSICS AND CHEMISTRY	10.1016/j.radphyschem.2023.110874	Q1
3	A new nanocomposite of copper oxide and magnetite intercalated into Attapulgite clay to enhance the radiation shielding	Radiation Physics and Chemistry	https://doi.org/10.1016/j.radphyschem.2023.111398	Q1
4	Atomic structure calculations, and electron impact ionization cross-sections of W LXI	Physica Scripta	https://doi.org/10.1088/1402-4896/ad0bc1	Q1
5	Boosting the electrochemical activities of MnO2 for next-generation supercapacitor application: Adaptation of multiple approaches	Fuel	https://doi.org/10.1016/j.fuel.2023.127946	Q1
6	Impact of CdO on optical, structural, elastic, and radiation shielding parameters of CdO–PbO–ZnO–B2O3–SiO2 glasses	Ceramics International	https://doi.org/10.1016/j.ceramint.2023.03.042	Q1
7	In Situ Polycondensation Synthesis of NiS-g-C3N4 Nanocomposites for Catalytic Hydrogen Generation from NaBH4	Nanomaterials	https://doi.org/10.3390/nano13050938	Q1
8	Influence of B2O3/Bi2O3 on the radiation absorption and nuclear safety of bismuth borosilicate glass system	RADIATION PHYSICS AND CHEMISTRY	10.1016/j.radphyschem.2023.110877	Q1
9	Management of heat transfer and hydraulic characteristics of a micro-channel heat sink with various arrangements of rectangular vortex generators utilizing artificial neural network and response surface methodology	Case Studies in Thermal Engineering	https://doi.org/10.1016/j.csite.2023.102850	Q1
10	MoO3/S@g-C3N4 Nanocomposite Structures: Synthesis, Characterization, and Hydrogen Catalytic Performance	Nanomaterials	https://doi.org/10.3390/nano13050820	Q1
11	New Hybrid PVC/PVP Polymer Blend Modified with Er2O3 Nanoparticles for Optoelectronic Applications	Polymers	https://doi.org/10.3390/polym15030684	Q1
12	Novel (Y2O3) x (CdO) 1-x binary mixed oxide nanocomposites: facile synthesis, characterization, and photocatalysis enhancement	Journal of Materials Research and Technology	https://doi.org/10.1016/j.jmrt.2023.01.105	Q1
13	One-step Hydrothermal Synthesis of Flower-like MoS2/VS2 Nanocomposite for Biomedical Applications	Inorganic Chemistry Communications	https://doi.org/10.1016/j.inoche.2023.111336	Q1
14	Photoluminescence and Fourier Transform Infrared Spectral Studies of Varying Levels of Manganese Doping in Zinc Phosphate Oxide Glasses	Journal of Electronic Materials	http://dx.doi.org/10.1007/s11664-023-10389-8	Q1
15	Radiation shielding performance of a newly synthesized bismuth borate glass system	RADIATION PHYSICS AND CHEMISTRY	10.1016/j.radphyschem.2022.110711	Q1

16	Silicate glass system and significant role of Bi2O3 on radiation protection ability against gamma, neutron, and charged particle	RADIATION PHYSICS AND CHEMISTRY	10.1016/j.radphyschem.2022.110609	Q1
17	Structural and Optical Characterization of g-C3N4 Nanosheet Integrated PVC/PVP Polymer Nanocomposites	Polymers	https://doi.org/10.3390/polym15030684	Q1
18	Study on active sites of Mn-doped iron selenide on pencil electrode for electrocatalytic water splitting	Journal of Sol-Gel Science and Technology	https://doi.org/10.1007/s10971-022-05961-3	Q1
19	Synthesis of Sulfur@g-C3N4 and CuS@g-C3N4 Catalysts for Hydrogen Production from Sodium Borohydride	Materials	https://doi.org/10.3390/ma16124218	Q1
20	Tailoring confined CdS quantum dots in polysulfone membrane for efficiently durable performance in solar-driven wastewater remediating systems	Tailoring confined CdS quantum dots in polysulfone membrane for efficiently durable performance in solar-driven wastewater remediating systems	https://www.sciencedirect.com/science/article/abs/pii/S0301479723001391	Q1
21	Preparation and Optical Properties of PVDF-CaFe2O4 Polymer Nanocomposite Films	Polymers	https://doi.org/10.3390/polym15092232	Q1
22	Structural characteristics and dielectric properties of irradiated polyvinyl alcohol/sodium iodide composite films	Inorganic Chemistry Communications	https://doi.org/10.1016/j.inoche.2023.111651	Q1
23	[HTML] from mdpi.com Fabrication, Structural Properties, and Electrical Characterization of Polymer Nanocomposite Materials for Dielectric Applications	Polymers	https://www.mdpi.com/2073-4360/15/14/3067	Q1
24	An ab-initio insight computation of Structural, Electronic and Optical properties of Na-doped CsSrF3 Fluoro-Perovskite for optoelectronic applications	Inorganic Chemistry Communications	https://doi.org/10.1016/j.inoche.2023.111151	Q1
25	Characterization and linear/non-linear optical properties of polypyrrole/NiO for optoelectronic devices	Inorganic Chemistry CommunicationS	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=h0GJXDEAAAAJ&sortby=pubdate&citation_for_view=h0GJXDEAAAAJ:_Ybze24A_UAC	Q1
26	Effect of Asymmetric Fins on Thermal Performance of Phase Change Material-Based Thermal Energy Storage Unit	Materials	https://www.mdpi.com/1996-1944/16/7/2567	Q1
27	Effect of BaO addition on gamma radiation shielding performance of sodium barium borate glasses using FLUKA code and PhyX/PSD platform	Radiation Physics and Chemistry	https://doi.org/10.1016/j.radphyschem.2023.110766	Q1
28	Effects of Nd2O3 Nanoparticles on the Structural Characteristics and Dielectric Properties of PVA Polymeric Films	Polymers	https://www.mdpi.com/2073-4360/15/20/4084	Q1
29	Enhancing the efficiency of Cu2Te thin-film solar cell with WS2 buffer layer: A simulation study	Optics and Laser Technology	https://doi.org/10.1016/j.optlastec.2022.108942	Q1
30	First-principles calculations to investigate structural, electronics, optical, and mechanical properties of Bi-based novel fluoroperovskites TBiF3 (T = Hg, Xe) for optoelectronic applications	Materials Science in Semiconductor Processing	https://doi.org/10.1016/j.mssp.2023.107399	Q1
31	Lead-Free Ternary Glass for Radiation Protection: Composition and Performance Evaluation for Solar Cell Coverage	Materials	https://doi.org/10.3390/ma16083036	Q1

32	NaBeAs and NaBeSb: Novel Ternary Pnictides with Enhanced Thermoelectric Performance	J. Phys. Chem. C 2023, 127, 1733−1743	https://doi.org/10.1021/acs.jpcc.2c07676	Q1
33	Optical Band Gap Tuning, DFT Understandings, and Photocatalysis Performance of ZnO Nanoparticle-Doped Fe Compounds	Materials	https://doi.org/10.3390/ma16072676	Q1
34	Phase and domain engineering strategy for enhancement of piezoelectricity in the lead-free BiFeO3-BaTiO3 ceramics	Journal of Materiomics	https://www.sciencedirect.com/science/article/pii/S2352847823000540	Q1
35	Radiation shielding and optical features for a PbO–BaO–B2O3 system	Radiation Physics and Chemistry	https://doi.org/10.1016/j.radphyschem.2022.110566	Q1
36	Synthesis of flexible polymer nanocomposites based on methyl cellulose/copper oxide with desired dielectric properties for electrical applications	Inorganic Chemistry Communications	https://scholar.google.com/scholar?oi=bibs&cluster=7645082479830277 5&btnI=1&hl=en	Q1
37	The potential of MXenes-based nanomaterials towards high performance in energy production and storage applications	International Journal of Hydrogen Energy	https://doi.org/10.1016/j.ijhydene.2023.05.166	Q1
38	A new Y-Zr/g-C3N4 nanoflakes anchored mesoporous silica composite for efficient environmental remediation applications	Inorganic Chemistry Communications, 151, 110610	https://doi.org/10.1016/j.inoche.2023.110609	Q1
39	Corrigendum to “Facile synthesis of transition metal oxide SnO2/MnO2 hierarchical nanostructure: As an efficient electrocatalyst for robust oxygen evolution reaction” [Surf. Interfaces 36 (2023) 102467] (Surfaces and Interfaces (2023) 36, (S246802302200726X), (10.1016/j.surfin.2022.102467))	Construction and Building Materials, 376, 131029	https://doi.org/10.1016/j.conbuildmat.2023.131028	Q1
40	Effect of source to the substrate distance on thermoelectric properties of copper nitride thin films grown by thermal evaporation method	Inorganic Chemistry Communications, 153, 110818	https://doi.org/10.1016/j.inoche.2023.110817	Q1
41	Facile synthesis of rGO/PANI/ZnO ternary nanocomposites for energy storage devices	Journal of Biomolecular Structure and Dynamics, 41(14), pp. 6894–6908	https://doi.org/10.1080/07391102.2022.2113562	Q1
42	GeSe/MoS2 van der Waal heterostructure a potential photocatalyst candidate for overall water splitting: A DFT study	Journal of Building Engineering, 73, 106857	https://doi.org/10.1016/j.jobe.2023.106856	Q1
43	Radiation shielding and nuclear security functions of Na2O–Fe2O3–B2O3–La2O3 glass system	Journal of Alloys and Compounds, 961, 170891	https://doi.org/10.1016/j.jallcom.2023.170890	Q1
44	Significant impact of lead (II) chloride on synthesis and properties of boron-based metallic glasses for mechanical, optical, and radiation applications		https://doi.org/10.1016/j.ijhydene.2023.03.313	Q1
45	The impact of cu-doping on Ni0.5-Co0.5Fe2O4 @graphitic carbon nitride for the degradation of organic pollutants	Results in Physics, 52, 106812	https://doi.org/10.1016/j.rinp.2023.106811	Q1
46	A closer inspection of the structural, mechanical, optical and radiation shielding properties of GeO2-doped magnesium-telluroborate glasses	Ceramics International, 49(17), pp. 28022–28029	https://doi.org/10.1016/j.ceramint.2023.06.047	Q1 -Top 10%
47	Bragg curve, dose distribution, and target fragmentation for thyroid proton therapy	Radiation Physics and Chemistry, 212, 111088	https://doi.org/10.1016/j.radphyschem.2023.111087	Q1 -Top 10%
48	Characterization and applications of highly optical transparency tellurite glasses doped with Er3+, Tm3+, and Nd3+		https://doi.org/10.1016/j.radphyschem.2022.110673	Q1 -Top 10%

49	Corrigendum to “Gamma shielding performance of B2O3/BaO-based glassy system: Synthesis and simulation study” [Radiat. Phys. Chem. 214 (2024) 111301] (Radiation Physics and Chemistry (2024) 214, (S0969806X23005479), (10.1016/j.radphyschem.2023.111301))	Journal of the Korean Ceramic Society	https://doi.org/10.1007/s43207-023-00330-3	Q1 -Top 10%
50	Designing of near-IR organic semiconductors for photodetectors: Machine learning and data mining assisted efficient pipeline	Journal of Molecular Liquids, 383, 122085	https://doi.org/10.1016/j.molliq.2023.122084	Q1 -Top 10%
51	Experimental design and characterization of Eu-doped tellurite matrix glassy composite for medical and ionizing-radiation sensing applications	Ceramics International, 49(11), pp. 18988–19002	https://doi.org/10.1016/j.ceramint.2023.03.023	Q1 -Top 10%
52	Fabrication of ZnO-CuFe2O4-CNTs ternary nanocomposite for harmful organic effluents degradation by sunlight irradiation	Surfaces and Interfaces, 38, 102753	https://doi.org/10.1016/j.surfin.2022.102466	Q1 -Top 10%
53	Heavy metals biosensor based on defective one-dimensional phononic crystals	Ceramics International, 49(7), pp. 11600–11611	https://doi.org/10.1016/j.ceramint.2022.12.006	Q1 -Top 10%
54	Investigations of graphene oxides and cement on strength performance of soil	International Journal of Hydrogen Energy, 48(70), pp. 27201–27214	https://doi.org/10.1016/j.ijhydene.2023.03.312	Q1 -Top 10%
55	Magnetically separable rGO based ternary composite for enhanced photocatalytic activity	Radiation Physics and Chemistry, 209, 110969	https://doi.org/10.1016/j.radphyschem.2023.110968	Q1 -Top 10%
56	Polarizability, optical electronegativity, and gamma transmission ability of newly developed Bi2O3–GeO2-Eu2O glasses	Surfaces and Interfaces, 36, 102467	https://doi.org/10.1016/j.surfin.2022.102466	Q1 -Top 10%
57	Radiation shielding capacity of Li2O-SiO2/GeO2 glasses doped with rare earth oxides: Nuclear security applications	Radiation Physics and Chemistry, 204, 110711	https://doi.org/10.1016/j.radphyschem.2022.110709	Q1 -Top 10%
58	Rational design of dithieno [2, 3-D: 2', 3'-D']-benzo [1, 2-B: 4, 5-B'] dithiophene based small molecule donor for plausible performance organic solar cell	Journal of Materials Research and Technology	https://doi.org/10.1016/j.jmrt.2022.11.177	Q1 -Top 10%
59	Synthesis of nanostructured gadolinium doped mixed ferrite: A novel catalyst for the mineralization of textile dyes	Ceramics International, 49(12), pp. 20772–20783	https://doi.org/10.1016/j.ceramint.2023.03.208	Q1 -Top 10%
60	Virtual mining of polymer monomers for photodetectors application and regression-aided reorganization energy prediction	Ceramics International, 49(18), pp. 30049–30059	https://doi.org/10.1016/j.ceramint.2023.06.261	Q1 -Top 10%
61	Virtual screening of efficient building blocks and designing of new polymers for organic solar cells	Radiation Physics and Chemistry, 208, 110874	https://doi.org/10.1016/j.radphyschem.2023.110873	Q1 -Top 10%
62	Economic, environmental and multi objective optimization of a clean tri-generation system based co-firing of natural gas and biomass: An emergy evaluation	Process Safety and Environmental Protection	https://doi.org/10.1016/j.psep.2023.02.076	Q1- Top 10%
63	Integration of 2D graphene oxide sheets with MgFe2O4/ZnO heterojunction for improved photocatalytic degradation of organic dyes and benzoic acid	CERAMICS INTERNATIONAL	10.1016/j.ceramint.2023.03.024	Q1- Top 10%
64	Effect of MoO3 on Na2O–B2O3–CdO–ZnO glasses: Applications in optoelectronics, communication devices, and radiation shielding	CERAMICS INTERNATIONAL	10.1016/j.ceramint.2022.12.007	Q1-Top 10%
65	Fabrication and characterization of structured Zn1-xCdxWO4 (0≤x≤1) with tunable photoluminescent and promising applicable heterometallic nanocomposites in shielding properties	Radiation Physics and Chemistry	https://doi.org/10.1016/j.radphyschem.2023.111335	Q1-Top 10%
66	Facile synthesis of transition metal oxide SnO2/MnO2 hierarchical nanostructure: As an efficient electrocatalyst for robust oxygen evolution reaction	SURFACES AND INTERFACES	10.1016/j.surfin.2022.102467	Q1-Top 10%

67	Development and synergistic effects of magnetodielectric Dy-Gd co-doped YIG nanoferrites based meta-absorber for improved absorption applications	Results in Physics, 55, 107142	https://doi.org/10.1016/j.rinp.2023.107142	Q1-Top 10%
68	Influence of Alkaline Earth Metals on the Optical Properties and Radiation-Shielding Effectiveness of Sm3+-Doped Zinc Borophosphate Glasses	Radiation Physics and Chemistry, 212, 111200	https://doi.org/10.1016/j.radphyschem.2023.111199	Q1-Top 10%
69	Modulation of optical and structural properties of CoFe2O4/ZnO@CNTs for photocatalytic removal of crystal violet and phenol	Surfaces and Interfaces, 42, 103377	https://doi.org/10.1016/j.surfin.2023.103376	Q1-Top 10%
70	Detection and Selective Removal Strategy of Thorium Ions Using a Novel Fluorescent Ligand and Hybrid Mesoporous γ-Al2O3-like Nanoneedles	Detection and Selective Removal Strategy of Thorium Ions Using a Novel Fluorescent Ligand and Hybrid Mesoporous γ-Al2O3-like Nanoneedles	https://pubs.acs.org/doi/full/10.1021/acssuschemeng.2c05000	Q1-Top10%
71	Visible light induced photocatalytic activity of MnO2/BiVO4 for the degradation of organic dye and tetracycline	Visible light induced photocatalytic activity of MnO2/BiVO4 for the degradation of organic dye and tetracycline	https://www.sciencedirect.com/science/article/abs/pii/S0272884222042663	Q1-Top10%
72	Recent advances, properties, fabrication and opportunities in two-dimensional materials for their potential sustainable applications	Energy Storage Materials	https://doi.org/10.1016/j.ensm.2023.102780	Q1-Top10%
73	[HTML] from sciencedirect.com Evaluation of photon, proton, and alpha interaction parameters of EDTMPLu and MDPLu medications used for some bone cancer	Radiation Physics and Chemistry	https://doi.org/10.1016/j.radphyschem.2023.111419	Q1-Top10%
74	Optimal Composition for Radiation Shielding in BTCu-x Glass Systems as Determined by FLUKA Simulation	Journal of Materials Research and Technology	https://www.sciencedirect.com/science/article/pii/S2238785423013558	Q1-Top10%
75	Structure, magnetic, opto-electronic and thermoelectric properties of A3In2As4 and A5In2As6 (A = Sr and Eu) Zintl phase compounds	Journal of Alloys and Compounds	https://doi.org/10.1016/j.jallcom.2022.168614	Q1-Top10%
76	Synergistic approach for enhancement of piezoelectricity in the lead-free BiFeO3-BaTiO3 ceramics	Journal of Alloys and Compounds	https://www.sciencedirect.com/science/article/abs/pii/S092583882300717X	Q1-Top10%
77	[HTML] from rsc.org Theoretical framework for achieving high V oc in non-fused non-fullerene terthiophene-based end-capped modified derivatives for potential applications in organic photovoltaics	RSC Advances	DOI: 10.1039/D3RA00038A	Q2
78	A comprehensive first-principles study on the physical properties of Sr2ScBiO6 for low-cost energy technologies	Optical and Quantum Electronics	https://link.springer.com/article/10.1007/s11082-023-05282-x	Q2
79	Characterization and applications of highly optical transparency tellurite glasses doped with Er3+, Tm3+, and Nd3+	OPTIK	10.1016/j.ijleo.2023.170825	Q2
80	Enhancement of optical, electrical and sensing characteristics of ZnO nanowires for optoelectronic applications	Journal of Materials Science: Materials in Electronics	https://doi.org/10.1007/s10854-023-09905-7	Q2
81	Machine learning assisted designing of organic semiconductors for organic solar cells: High-throughput screening and reorganization energy prediction	INORGANIC CHEMISTRY COMMUNICATIONS	10.1016/j.inoche.2023.111060	Q2

82	Quantum mechanical modeling of fused rings-based small-donor molecules with enhanced optoelectronic attributes for high performance organic photovoltaic cells	Journal of Physics and Chemistry of Solids	https://doi.org/10.1016/j.jpcs.2022.111140	Q2
83	Radiation shielding competence of chalcogenide alloys with high Te content	APPLIED RADIATION AND ISOTOPES	10.1016/j.apradiso.2023.110759	Q2
84	Synthesis and characterization of graphitic carbon nitride composite with NiFe2O4/CdO for photocatalytic treatment of diclofenac sodium and crystal violet	OPTICAL MATERIALS	10.1016/j.optmat.2023.113721	Q2
85	Virtual screening of efficient building blocks and designing of new polymers for organic solar cells	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	10.1016/j.jpcs.2023.111340	Q2
86	One dimensional photonic crystal structure comprising a hyperbolic metamaterial for optical filtering purpose	OPTICAL AND QUANTUM ELECTRONICS	10.1007/s11082-022-04291-6	Q2
87	Optimising the physical, thermal, optical, and gamma-ray shielding features of B2O3–As2O3–Li2O–PbO glasses	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	10.1007/s10854-023-10062-0	Q2
88	Surface modifications and optical studies of irradiated flexible PDMS materials	Surface Innovations	https://doi.org/10.1680/jsuin.22.01089	Q2
89	Synthesis, physical properties, neutron, and gamma-ray shielding competence of borate-based glasses reinforced with erbium (III) oxide: a closer-look on the impact of Eu2O3	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	10.1007/s10854-022-09748-8	Q2
90	A closer-look at lithium strontium boro-fluoride glasses doped with CeO2 and Yb2O3 ions: Synthesis, radiation shielding properties, and prediction of density using artificial intelligence techniques	OPTICAL MATERIALS	10.1016/j.optmat.2022.113338	Q2
91	A theoretical investigation of the lead-free double perovskites halides Rb2XCl6 (X = Se, Ti) for optoelectronic and thermoelectric applications	J Computational Chem. 2023;1–14.	10.1002/jcc.27119	Q2
92	Alteration of the central core of a DF-PCIC chromophore to boost the photovoltaic applications of non-fullerene acceptor based organic solar cells	RSC Advances	DOI: 10.1039/D2RA08091E	Q2
93	Approach toward Low Energy Loss in Symmetrical Nonfullerene Acceptor Molecules Inspired by Insertion of Different π-Spacers for Developing Efficient Organic Solar Cells	ACS Omega	https://doi.org/10.1021/acsomega.3c05665	Q2
94	As2 O3 -poly(1H-pyrrole) nanocomposite for hydrogen generation from Red Sea water with high efficiencey	Physica scripta	DOI 10.1088/1402-4896/ace391	Q2
95	Chemical deposition of Ag and Ag2O on grafting film of PET-COOH by photografting polymerization for optoelectronic application	Journal of Materials Science: Materials in Electronics	https://doi.org/10.1007/s10854-022-09474-1	Q2
96	Controllable Fabrication of Zn2+ Self-Doped TiO2 Tubular Nanocomposite for Highly Efficient Water Treatment	Molecules	https://doi.org/10.3390/molecules28073072	Q2
97	Controlled supramolecular interactions for targeted release of Amiodarone drug through Graphyne to treat cardiovascular diseases: An in silico study	JOURNAL OF MOLECULAR GRAPHICS & MODELLING	https://doi.org/10.1016/j.jmgm.2023.108452	Q2
98	Deep insights into the Cu- and W-doped Na0.5Bi0.5TiO3 solid solution: A study focusing on optical, dielectric and electrical properties	Journal of Molecular Structure	https://doi.org/10.1016/j.molstruc.2023.136319	Q2

99	Designing of Thiophene [3, 2-b] Pyrrole Ring-Based NFAs for High-Performance Electron Transport Materials: A DFT Study	ACS omega	https://doi.org/10.1021/acsomega.2c07954	Q2
100	Development of Bi2O3/MoSe2 mixed nanostructures for photocatalytic degradation of methylene blue dye	Journal of Taibah University for Science	https://doi.org/10.1080/16583655.2022.2161333	Q2
101	Development of VSe2@ Cu2Se nano-composites via facile one-pot hydrothermal method for pharmaceutical applications	Physica Scripta	10.1088/1402-4896/aceada	Q2
102	Effect of copper and silver as a middle layer on the structural, electrical, photocatalytic, and optical properties of ZnS/metal/ZnS films for optoelectronics applications	Physica Scripta	DOI 10.1088/1402-4896/aceab9	Q2
103	Effect of Nd:YAG pulsed laser on the antibacterial activity and physical properties of newly synthesized composites, CdO/Co3O4 and Ag/CdO/Co3O4	Physic scripta	https://doi.org/10.1088/1402-4896/ad0fca	Q2
104	Effective Dielectric Loss Reduction and Enhanced Dielectric Temperature Stability of (1−x)BaFe0.5Nb0.5O3-xBiCu0.75W0.25O3 Ceramics	Journal of Inorganic and Organometallic Polymers and Materials	https://doi.org/10.1007/s10904-023-02850-2	Q2
105	Enhancement of optical, electrical and sensing characteristics of ZnO nanowires for optoelectronic applications	Journal of Materials Science: Materials in Electronics	https://doi.org/10.1007/s10854-023-09905-7	Q2
106	Enhancement of visible Light émission of Ni-doped ZnO sprayed thin films by Cooper Co doped	Protection of Metals And Physics Chemistry of Surfaces	https://doi.org/10.1134/S2070205123700533	Q2
107	Enhancing energy storage capability of advanced redox-based supercapacitors through PANI incorporation into NiMnS matrix	Materials Chemistry and Physics	https://doi.org/10.1016/j.matchemphys.2023.128077	Q2
108	Fabrication of Polypyrrole/Graphene Oxide Polymer Nanocomposites and Evaluation of their Optical Behavior for Optoelectronic Applications	Journal of Inorganic and Organometallic Polymers and Materials	https://doi.org/10.1007/s10904-023-02643-7	Q2
109	Fabrication of PPy nanomaterial/nanosheets graphene oxide composites and evaluation of their optical behaviour for optoelectronic applications	Journal of Inorganic and Organometallic Polymers and Materials	https://doi.org/10.1007/s10904-023-02643-7	Q2
110	Fabrication, surface characterization and electrical properties of hydrogen-irradiated nanocomposite materials	Surface Innovations	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=h0GJXDEAAAAJ&sortby=pubdate&citation_for_view=h0GJXDEAAAAJ:z_wVstp3MssC	Q2
111	Facile fabrication of polypyrrole/NiOx core-shell nanocomposites for hydrogen production from wastewater	Polymers for Advanced Technologies	DOI: 10.1002/pat.5997	Q2
112	Flower-like shapes M-PbS (M = Li, na, or Cs)/porous CuO photocatalytic electrode for converting sewage water into H2 fuel gas	Journal of Materials Science: Materials in Electronics	https://link.springer.com/article/10.1007/s10854-023-10154-x	Q2
113	Growth of AgCoS@CNTs composite on nickel foam to enrich the redox active sites for battery-supercapacitor hybrid energy storage device	Journal of Physics and Chemistry of Solids	https://doi.org/10.1016/j.jpcs.2023.111473	Q2
114	Hydrothermally assisted bimetallic transition metal sulfide as battery grade electrode and activated carbon as capacitive electrode for hybrid energy storage devices	Diamond and Related Materials	https://doi.org/10.1016/j.diamond.2023.109737	Q2

115	Impact of Y2O3 on structural, mechanical and nonlinear optical properties of CrO3-Na2O-B2O3 glasses	Optik	https://doi.org/10.1016/j.ijleo.2023.170546	Q2
116	Influence of temperature on the redox behaviour of binder-free CNTs-NiZnS electrode and the application in efficient energy storage devices	Physica Scripta	DOI 10.1088/1402-4896/aceac3	Q2
117	Investigating the effect of Te on the structural and physical properties of CdSe films for optoelectronic applications	Materials Today Communications	https://doi.org/10.1016/j.mtcomm.2023.107001	Q2
118	Locally resonant porous phononic crystal sensor for heavy metals detection: A new approach of highly sensitive liquid sensors	OPTICAL MATERIALS	10.1016/j.optmat.2022.113338	Q2
119	Low energy irradiation induced effects on the surface characteristics of polydimethylsiloxane polymeric films	Macromolecular Research	https://doi.org/10.1007/s13233-023-00118-9	Q2
120	Modelling of GaAsSb/InAs type-II QW heterostructure and simulation of its optical gain characteristics under (100), (001) and (110) directional pressure	Physica B: Condensed Matter	https://doi.org/10.1016/j.physb.2023.414969	Q2
121	Novel A-π-D-π-A type non-fullerene acceptors of dithienyl diketopyrropopyrrole derivatives to enhance organic photovoltaic applications: a DFT study	RSC Advances	DOI: 10.1039/D2RA07291B	Q2
122	Novel A-π-D-π-A-type non-fullerene acceptors for solution-processed organic photovoltaic cells: A DFT study	Journal of Solid State Chemistry	https://doi.org/10.1016/j.jssc.2022.123714	Q2
123	Optical and electrical modeling of CZTSSe based thin-film solar cells	Physica Scripta	10.1088/1402-4896/ace667	Q2
124	Optical and electrical properties of thin films of MnS/metal/MnS for photocatalysis and gas sensing applications	Optik	https://doi.org/10.1016/j.ijleo.2023.171549	Q2
125	Optical, structural, electrical and photocatalytic properties of aluminum doped zinc oxide nanostructures	Optical materials	https://doi.org/10.1016/j.optmat.2023.113880	Q2
126	Optimization of NPD/Alq3/TPBi/Bphen OLED structure and investigation of electrical characteristics along with allied parameters	Optical and Quantum Electronics	https://link.springer.com/article/10.1007/s11082-023-05000-7	Q2
127	Photoelectrochemical Conversion of Sewage Water into H2 Fuel over the CuFeO2/CuO/Cu Composite Electrode	Catalysts	https://doi.org/10.3390/catal13030456	Q2
128	Physica Scripta PAPER As2O3-poly(1H-pyrrole) nanocomposite for hydrogen generation from Red Sea water with high efficiencey	Physica Scripta	0.1088/1402-4896/ace391	Q2
129	Quantum modeling of dimethoxyl-indaceno dithiophene based acceptors for the development of semiconducting acceptors with outstanding photovoltaic potential	RSC Advances	DOI: 10.1039/D2RA07957G	Q2
130	Radiation transmittance of the optical SiO2-based glass system	OPTIK	10.1016/j.ijleo.2022.170385	Q2
131	Recycling of optical borosilicate waste glasses by Y2O3 doping for radiation shielding applications	OPTIK	10.1016/j.ijleo.2022.170399	Q2
132	Spectral analysis and line strengths of Tm2O3 doped ZrF4-BaF2-LaF3-AlF3-NaF glass under upconversion excitation at a pumping wavelength of 1064nm	Physica Scripta	https://doi.org/10.1088/1402-4896/aca5ce	Q2
133	Structural characterization and dielectric properties of low energy hydrogen beam irradiated PVA/ZnO nanocomposite materials	Inorganic Chemistry Communications	https://doi.org/10.1016/j.inoche.2023.110779	Q2
134	Structural, characterization and linear/nonlinear optical properties of oxygen beam irradiated PEO/NiO composite films	Optical and Quantum Electronics	https://doi.org/10.1007/s11082-023-04600-7	Q2

135	Structural, characterization, and linear/nonlinear optical behavior of polyaniline/cellulose acetate composite films	Journal of Materials Science: Materials in Electronics	DOI :10.1007/s10854-023-10598-1	Q2
136	Structure/function relationships of a new stannate (IV) complex based on 5, 7-dichloro-8-hydroxyquinolinium, accomplished with DFT calculations	Journal of Molecular Structure	https://doi.org/10.1016/j.molstruc.2022.134811	Q2
137	Structures and hydrogen storage properties of AeVH3 (Ae= Be, Mg, Ca, Sr) perovskite hydrides by DFT calculations	International Journal of Hydrogen Energy	https://doi.org/10.1016/j.ijhydene.2023.03.139	Q2
138	Surface characterization and linear/nonlinear optical properties of irradiated flexible PVA/ZnO polymeric nanocomposite materials	Optical and Quantum Electronics	https://doi.org/10.1007/s11082-023-04711-1	Q2
139	Synthesis of CaCO3/Cu2O/GO Nanocomposite Catalysts for Hydrogen Production from NaBH4 Methanolysis	Catalysts	https://doi.org/10.3390/catal13061010	Q2
140	Synthesis, structural, photocatalytic, wettability and optical properties of TiO2 films on polymethyl methacrylate substrates	PHYSICA SCRIPTA	DOI 10.1088/1402-4896/acc705	Q2
141	Tailoring the interfacial surfaces of tungsten and molybdenum tungsten disulfide electrodes for hybrid supercapacitors	RSC advances	DOI: 10.1039/D3RA00847A	Q2
142	The effect of synthesis conditions on the photokilling activity of TiO2 nanostructures	Materials Research Express	https://doi.org/10.1088/2053-1591/acb121	Q2
143	Investigation of external isotropic pressure effect on widening of bandgap, mechanical, thermodynamic, and optical properties of rubidium niobate using first-principles	Optical and Quantum Electronics	https://link.springer.com/article/10.1007/s11082-023-04596-0	Q2
144	Direct synthesis of sodium doped Cu2O/GO nanocomposites for catalytic hydrogen production from NaBH4	Diamond and relate materials	https://doi.org/10.1016/j.diamond.2023.110148	Q2
145	Synthesis and optical properties of polyvinylidene difluoride nanocomposites comprising MoO3/g-C3N4	Results in physics	https://doi.org/10.1016/j.rinp.2023.106403	Q2
146	A Promising Alternative: Examining TVS Tellurite Glass for Gamma Radiation Shielding Applications	Frontiers in Materials	doi: 10.3389/fmats.2023.1210524	Q2
147	A simple new method for retrieving spectral changes of the refractive index of thin films from transmission spectra	Optical Materials	https://doi.org/10.1016/j.optmat.2023.114584	Q2
148	Boost the photocatalytic hydrogen production of the nanocomposites conducting polypyrrole modified with metal oxide (CuO)	Physica Scripta 98	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=h0GJXDEAAAAJ&sortby=pubdate&citation_for_view=h0GJXDEAAAAJ:VLnqNzywnoUC	Q2
149	CASTEP study for mapping phase stability, and optical parameters of halide perovskite CsSiBr3 for photovoltaic and solar cell applications	Inorganic Chemistry Communications	https://www.sciencedirect.com/science/article/abs/pii/S1387700323000862	Q2
150	Characterization and linear/nonlinear optical properties of PVA/CS/TiO2 polymer nanocomposite films for optoelectronics applications	Optical and Quantum Electronics	https://doi.org/10.1007/s11082-023-05542-w	Q2
151	Copper oxide and copper nanoparticles insertion within a PPy matrix for photodetector applications	Optical and Quantum Electronics	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=h0GJXDEAAAAJ&sortby=pubdate&citatio	Q2

			n_for_view=h0GJXDEAAAAJ:9Nmd_mFXekcC	
152	Coupling photonic quasicrystals with a one-dimensional critical high-temperature superconducting cavity	Optik	https://doi.org/10.1016/j.ijleo.2023.170847	Q2
153	Developing a Simple, Effective, and Quick Process to Make Silver Nanowires with a High Aspect Ratio	Materials	https://www.mdpi.com/1996-1944/16/15/5501	Q2
154	Effect of Al2O3 and NiO Nanoparticle Additions on the Structure and Corrosion Behavior of Sn—4% Zn Alloy Coating Carbon Steel	Sustainability	https://doi.org/10.3390/su15032511	Q2
155	Electro-oxidation reconstitution of aluminium copper MOF-derived metal oxyhydroxides for a robust OER process	RSC Advances	https://doi.org/10.1039/D2RA07661F	Q2
156	Exploring the potential of BBNCo glasses: Physical, optical, and radiation shielding analysis	Optical Materials	https://doi.org/10.1016/j.optmat.2023.113976	Q2
157	Exploring the Potential of Zirconium-89 in Diagnostic Radiopharmaceutical Applications: An Analytical Investigation	Biomedicines	https://doi.org/10.3390/biomedicines11041173	Q2
158	First-principles calculations to investigate Structural, Elastic, Electronic, Optical, and Magnetic Properties of Hg2WO4 for Photocatalytic Applications	Optik	https://doi.org/10.1016/j.ijleo.2023.170565	Q2
159	PVC/PVP/SrTiO3 polymer blend nanocomposites as potential materials for optoelectronic applications	Results in physics	https://doi.org/10.1016/j.rinp.2022.106173	Q2
160	Structural, optical and electronic properties of novel 2D carbides and nitrides MXene based Materials: A DFT study	Optical and Quantum Electronics	https://link.springer.com/article/10.1007/s11082-023-04803-y	Q2
161	Structure, optical and magnetic properties of barium sodium borate/cobalt oxide glass structures	Optical and Quantum Electronics	https://doi.org/10.1007/s11082-023-04680-5	Q2
162	Surface Characterization and Electrical Properties of Low Energy Irradiated PANI/PbS Polymeric Nanocomposite Materials	Inorganics	https://doi.org/10.3390/inorganics11020074	Q2
163	Surface morphology, structure, and dielectric relaxation investigations of ZnO/iron nanostructures	Journal of Materials Science: Materials in Electronics	https://doi.org/10.1007/s10854-023-10160-z	Q2
164	Synthesis of ZnO/MoS2 heterojunction with the green Ag nanoparticles for the efficient sunlight photocatalytic activity	Optical and Quantum Electronics	https://link.springer.com/article/10.1007/s11082-022-04263-w	Q2
165	First-principles calculations to investigate structural, electronics, optical, and mechanical properties of Bi-based novel fluoroperovskites TBiF3 (T= Hg, Xe) for …	Materials Science in Semiconductor Processing	https://www.sciencedirect.com/science/article/abs/pii/S1369800123000926	Q2
166	Modifying the optical properties of hydrogen-beam-irradiated flexible PVA polymeric films	Surface Innovations	https://doi.org/10.1680/jsuin.22.01078	Q2
167	Synthesis and investigation of electromechanical property of lead-free BiFeO3–BaTiO3 quenched ceramics	Journal of Materials Science: Materials in Electronics	https://link.springer.com/article/10.1007/s10854-023-09837-2	Q2
168	A data mining assisted designing of quinoxaline-based small molecule acceptors for photovoltaic applications and quantum chemical calculations assisted molecular characterization	Heliyon, 9(2), e13607	https://doi.org/10.1016/j.heliyon.2023.e13606	Q2
169	A theoretical investigation of two-dimensional Antimonene/ZnSe heterostructure for photocatalytic water splitting: A DFT study	Journal of Rare Earths, 41(12), pp. 1919–1928	https://doi.org/10.1016/j.physb.2023.415389	Q2

170	Ba2−xHoxSr2−yNiyFe12O22 and its composite with MXene: synthesis, characterization and enhanced visible light mediated photocatalytic activity for colored dye and pesticide	Optical Materials, 144, 114363	https://doi.org/10.1016/j.optmat.2023.114362	Q2
171	Ball milling–based piezocatalysis using .5Ba(Zr0.2Ti0.8)O3–.5(Ba0.7Sr0.3)TiO3 ceramics		https://doi.org/10.1016/j.mseb.2023.116794	Q2
172	Charged and uncharged radiation shielding performance of CaO+ ZnO+ Na2B2O7 glass system	Journal of Physics and Chemistry of Solids	https://doi.org/10.1016/j.jpcs.2022.111173	Q2
173	Cobalt Ferrite Surface-Modified Carbon Nanotube Fibers as an Efficient and Flexible Electrode for Overall Electrochemical Water Splitting Reactions	RSC Advances, 13(43), pp. 29944–29958	https://doi.org/10.1039/D3RA05993F	Q2
174	Designing and significantly improved TeO2-based glass system for nuclear engineering applications: Radiation shielding performance and optical transparency		https://doi.org/10.1111/ijac.14469	Q2
175	Development of high-performance oxygen evolution reaction electrocatalyst with quick kinetics: Based on ultrafine Cu nanoparticles encircled by N-doped carbon	Physica C: Superconductivity and its Applications	https://doi.org/10.1016/j.physc.2023.1354250	Q2
176	Development of sustainable superhydrophobic coatings on aluminum substrate using magnesium nanoparticles for enhanced catalytic activity, self-cleaning, and corrosion resistance	Materials Science and Engineering: B, 294, 116532	https://doi.org/10.1016/j.mseb.2023.116531	Q2
177	Divalent metal Co2+ ions substituted ZnFe2O4 nanoparticles and their hybrid with carbonaceous matrix for the degradation of toxic dyes	Materials Science and Engineering: B, 296, 116646	https://doi.org/10.1016/j.mseb.2023.116645	Q2
178	Effect of ZnO on Radiation Shielding Performance and Gamma Dose of Boron Silicate Glasses	Journal of Taibah University for Science, 17(1), 2209676	https://doi.org/10.1080/16583655.2023.2209675	Q2
179	Environmental impacts of La2O3 on the optical and ligand field parameters of Ni ions inside Na2O-B2O3 glass	ACS Omega, 8(41), pp. 37927–37935	https://doi.org/10.1021/acsomega.3c03313	Q2
180	Examinations of mechanical, and shielding properties of CeO2 reinforced B2O3–ZnF2–Er2O3–ZnO glasses for gamma-ray shield and neutron applications	Journal of Materials Science: Materials in Electronics, 34(7), 652	https://doi.org/10.1007/s10854-023-10062-1	Q2
181	Identification of NEK7 inhibitors: structure based virtual screening, molecular docking, density functional theory calculations and molecular dynamics simulations		https://doi.org/10.1007/s11082-022-04240-2	Q2
182	Improving Alzheimer's Disease Classification in Brain MRI Images Using a Neural Network Model Enhanced with PCA and SWLDA	FlatChem, 41, 100546	https://doi.org/10.1016/j.flatc.2023.100546	Q2
183	Iron and vanadium co-doped WO3 nanomaterial and their composites for waste water applications	Materials Today Communications, 37, 107325	https://doi.org/10.1016/j.mtcomm.2023.107325	Q2
184	Machine learning assisted designing of organic semiconductors for organic solar cells: High-throughput screening and reorganization energy prediction	Biomedicines, 11(4), 1173	https://doi.org/10.3390/biomedicines11041172	Q2
185	Multidimensional modelling and designing of efficient small molecule acceptors for organic solar cells	Chemical Physics Letters, 827, 140689	https://doi.org/10.1016/j.cplett.2023.140688	Q2
186	Nature of radon, radium, exhalation and uranium concentration from construction materials used in Al Jouf city, Saudi Arabia		https://doi.org/10.1016/j.mseb.2023.116580	Q2
187	Nd-doped NiFe2O4 and its composite with CNTs to tune photocatalytic activity	Materials Today Communications, 37, 106931	https://doi.org/10.1016/j.jre.2023.07.020	Q2
188	Neutron attenuation features and elastic properties of silicate glasses containing Ta2O5, and Li2O	Materials Science and Engineering: B, 295, 116580	https://doi.org/10.1016/j.mseb.2023.116579	Q2

189	Nuclear attenuation ability of ternary alumina-borate glass system for medical shielding applications		https://doi.org/10.1016/j.mtcomm.2023.107325	Q2
190	Optical properties and radiation shielding performance of tellurite glassy composites: Role of rare earth oxides	International Journal of Applied Ceramic Technology, 20(6), pp. 3725–3734	https://doi.org/10.1111/ijac.14468	Q2
191	Optimising the physical, thermal, optical, and gamma-ray shielding features of B2O3–As2O3–Li2O–PbO glasses	Chemical Physics Letters, 814, 140349	https://doi.org/10.1016/j.cplett.2023.140348	Q2
192	Optimizing the Efficiency of Lead-Free Cs2TiI6-Based Double Halide Perovskite Solar Cells Using SCAPS-1D	Radiochimica Acta, 111(9), pp. 713–724	https://doi.org/10.1515/ract-2023-0139	Q2
193	Photonic crystal nanostructure as a photodetector for NaCl solution monitoring: theoretical approach	Chemical Physics Letters, 813, 140326	https://doi.org/10.1016/j.cplett.2023.140325	Q2
194	Physical, structural, thermal, and mechanical features combined with neutron and gamma radiation attenuation qualities of Sm2O3doped transparent borate-rich glasses		https://doi.org/10.1016/j.ijleo.2023.170825	Q2
195	Predicting the multiple parameters of organic acceptors through machine learning using RDkit descriptors: An easy and fast pipeline	International Journal of Quantum Chemistry, 123(23), e27230	https://doi.org/10.1002/qua.27229	Q2
196	Radiation Attenuation Properties of Zinc-Borosilicate Glasses Containing Al2O3 and Gd2O3	Chemical Physics Letters, 831, 140852	https://doi.org/10.1016/j.cplett.2023.140847	Q2
197	Radiation shielding ability and optical features of La2O3+ TiO2+ Nb2O5+ WO3+ X2O3 (X= B, Ga, and In) glass system containing high-entropy oxides	Heliyon	https://doi.org/10.1039/D3RA05993F	Q2
198	Radiation shielding competence of chalcogenide alloys with high Te content	Materials Science and Engineering: B, 292, 116444	https://doi.org/10.1016/j.mseb.2023.116443	Q2
199	Radiation shielding performance of recycled waste CRT glasses doped with Li2O and Y2O3: Potential applications in medical facilitates	Materials Science and Engineering: B, 297, 116794	https://doi.org/10.1016/j.mseb.2023.116793	Q2
200	Recycling of waste cathode-ray tube glasses as building materials for shielding structures in medical and nuclear facilities	Optical Materials, 139, 113721	https://doi.org/10.1016/j.optmat.2023.113720	Q2
201	Role of spin–orbit coupling on the physical properties of APb3 (A= Na, Ca, Y, and Th) superconductors	Physica C: Superconductivity and its Applications	https://doi.org/10.1016/j.physc.2023.1354250	Q2
202	Role of TiO2 addition on recycling of TV screen waste glasses: Experimental and theoretical studies on structure and radiation attenuation properties	Applied Radiation and Isotopes, 199, 110896	https://doi.org/10.1016/j.apradiso.2023.110895	Q2
203	Structural, elastic, thermodynamic, electronic and magnetic characteristics of FeNbScZ (Z = al, Ga, Ge, Si) heusler alloys: A DFT study	Materials Chemistry and Physics, 295, 127150	https://doi.org/10.1016/j.matchemphys.2022.127149	Q2
204	Synthesis and characterization of graphitic carbon nitride composite with NiFe2O4/CdO for photocatalytic treatment of diclofenac sodium and crystal violet	Diamond and Related Materials, 135, 109850	https://doi.org/10.1016/j.diamond.2023.109849	Q2
205	Synthesis and Optimization of Bi2O3-B2O3-Cr2O3 Glass System for Structural, Optical, and Radiation Shielding Properties	Materials Science and Engineering: B, 296, 116718	https://doi.org/10.1016/j.mseb.2023.116717	Q2
206	Synthesis of graphene-based Ag-doped CuFe2O4 composite for improved photocatalytic activity against industrial effluents	Journal of Materials Science: Materials in Electronics, 34(3), 221	https://doi.org/10.1007/s10854-023-09992-5	Q2
207	Synthesis, photoluminescence and gamma attenuation properties of europium-doped borate glasses	Optik, 288, 171213	https://doi.org/10.1016/j.ijleo.2023.171212	Q2

208	Synthesis, physical properties, neutron, and gamma-ray shielding competence of borate-based glasses reinforced with erbium (III) oxide: a closer-look on the impact of Eu2O3	Optical Materials, 135, 113338	https://doi.org/10.1016/j.optmat.2022.113336	Q2
209	Synthesis, Thermal, Optical, and Radiation-Absorbing Properties of Bi2O3-Li2O-As2O3-B2O3 Glasses	Optical and Quantum Electronics, 55(1), 2	https://doi.org/10.1007/s11082-022-04240-2	Q2
210	Tb3+-doped GeO2-B2O3–P2O5–ZnO magneto-optical glasses: Potential application as gamma-radiation absorbers	Fuel, 343, 127946	https://doi.org/10.1016/j.fuel.2023.127945	Q2
211	Temperature dependent aluminum induced crystallization of amorphous germanium thin films	Chemical Physics Letters, 831, 140852	https://doi.org/10.1016/j.cplett.2023.140851	Q2
212	Unlocking the synergistic potential of peanut shell derived activated carbon-doped TiO2 for highly efficient photocatalytic removal of organic dye under visible light irradiation	Materials Science and Engineering: B, 296, 116618	https://doi.org/10.1016/j.mseb.2023.116616	Q2
213	Critical Behavior and Magnetocaloric Effect Simulation in NiMnGaTb Heusler Alloy	Journal of Low Temperature Physics	https://link.springer.com/article/10.1007/s10909-022-02883-w	Q3
214	Photocatalytic BiVO4-Cement Composites for Dye Degradation	JOURNAL OF ELECTRONIC MATERIALS	10.1007/s11664-023-10408-8	Q3
215	Analytical model for studying the role of ZnS-doped CdS on the performance of CZTSSe solar cells	Chalcogenide Letters	https://chalcogen.ro/index.php/journals/chalcogenide-letters/11-cl/597-volume-20-number-5-may-2023	Q3
216	Broadband dielectric relaxation investigations of polyvinyl chloride-fGO nanocomposite films	POLYMER BULLETIN	10.1007/s00289-022-04217-y	Q3
217	Characterization and dielectric studies of hydrogen-beam-irradiated PDMS polymeric materials	Macromolecular Research	https://doi.org/10.1007/s13233-023-00170-5	Q3
218	Correction to: Impact of end-group modifications and planarity on BDP-based non-fullerene acceptors for high-performance organic solar cells by using DFT approach	Journal of Molecular Modeling	https://doi.org/10.1007/s00894-022-05403-5	Q3
219	Critical behavior and magnetocaloric effect simulation in TbFeSi and DyFeSi intermetallic compounds using a Landau universal	Aip advances	https://doi.org/10.1063/5.0135433	Q3
220	DC pulsed plasma magnetron sputtering of CdO/Cu/CdO multilayers thin films for self-cleaning and optoelectronic applications	J. Eur. Opt. Society-Rapid Pub	https://doi.org/10.1051/jeos/2023009	Q3
221	Effects of a modified argon glow plasma source on PET polymeric surface properties	Emerging Materials Research	https://doi.org/10.1680/jemmr.22.00199	Q3
222	Effects of Ion Irradiation on Modifying Surface Characteristics and Dielectric Properties of PVA Polymeric Materials	ECS Journal of Solid State Science and Technology	DOI 10.1149/2162-8777/accb64	Q3
223	Effects of plasma treatments on the surface wettability properties of PTFE polymeric films	International Journal of Modern Physics B	https://doi.org/10.1142/S0217979224501649	Q3
224	Electron modes simulation of a Siemens-Primus-Linac at 10, 12, and 14 MeV with various field sizes	Journal of Radiation Research and Applied Sciences	https://doi.org/10.1016/j.jrras.2023.100584	Q3
225	Impact of end-group modifications and planarity on BDP-based non-fullerene acceptors for high-performance organic solar cells by using DFT approach	JOURNAL OF MOLECULAR MODELING	10.1007/s00894-022-05382-7, 2022	Q3

226	Impact of end-group modifications and planarity on BDP-based non-fullerene acceptors for high-performance organic solar cells by using DFT approach	JOURNAL OF MOLECULAR MODELING	10.1007/s00894-022-05382-7	Q3
227	Improvement of physical properties of MOS devices based on rare earth oxides	AIP Advances	doi: 10.1063/5.0135129	Q3
228	Improvement of physical properties of MOS devices based on rare earth oxides	AIP Advances	https://doi.org/10.1063/5.0135129	Q3
229	Improving the properties of commercial steel alloys in the industrial/nuclear field by RFplasma carbonitriding	Applied Radiation and Isotopes	https://doi.org/10.1016/j.apradiso.2022.110619	Q3
230	Influence of argon irradiation on electrical properties of PVA/NaI polymer composites	Surface Review and Letters	https://www.worldscientific.com/doi/abs/10.1142/S021862X2450029X	Q3
231	Magnetocaloric Effect Simulation in La0.8Na0.2MnO3-Δ Nanopowders	Journal of NanoScience in Advanced Materials	DOI:10.5281/zenodo.8002201	Q3
232	Preparation, structural characteristics and dielectric studies of polyaniline/lead sulfide composite materials	Indian Journal of Physics	https://link.springer.com/article/10.1007/s12648-023-02794-w	Q3
233	Strategies towards end-group engineering of chrysene core based non-fullerene acceptors for high performance organic solar cells: A DFT study	Journal of Computational Biophysics and Chemistry	https://doi.org/10.1142/S2737416523420097	Q3
234	Structural Characterization and Dielectric Properties of Flexible PVA/PANI/Ag Nanocomposite Materials	ECS Journal of Solid State Science and Technology	DOI 10.1149/2162-8777/acc9dc	Q3
235	Study of impurities diffusion in Al2O3/GaN/AlxGa1−xN hetero-structures	Journal of Materials Science: Materials in Electronics	https://doi.org/10.1007/s10854-022-09744-y	Q3
236	Study of mechanical, optical, and thermoelectric characteristics of Ba2XMoO6 (X = Zn, Cd) double perovskite for energy harvesting	Journal of Computational Chemistry	https://doi.org/10.1002/jcc.27209	Q3
237	Synthesis of ternary photocatalysts BiVO4/Ag/black phosphorene for the degradation of dyes and pharmaceuticals	Applied Nanoscience	https://link.springer.com/article/10.1007/s13204-023-02762-0	Q3
238	Theoretical designing of small molecule donors for organic solar cells: Analyzing the effect of molecular polarity through structural engineering at terminal position	CHEMICAL PHYSICS LETTERS	10.1016/j.cplett.2023.140349	Q3
239	Thermal and Mechanical Studies of Cerium Molybdenum Borosilicate Glasses and Glass–Ceramics	SILICON	10.1007/s12633-023-02433-3	Q3
240	An Ab–initio simulation of boron-based hydride perovskites XBH3 (X= Cs and Rb) for advance hydrogen storage system	Elsevier	https://doi.org/10.1016/j.comptc.2023.114173	Q3
241	Significant improvement of dielectric, magnetic, and gas-sensing properties of the (La0.8Ca0.2)0.6Bi0.4FeO3 nanomaterial: particles size effects	Journal of Materials Science: Materials in Electronics	https://doi.org/10.1007/s10854-022-09408-x	Q3
242	Structural, electronic, mechanical and dynamical stability properties of LiAH3 (A= Sc, Ti & V) perovskite-type hydrides: A first principle study	Chemical Physics	https://www.sciencedirect.com/science/article/abs/pii/S0301010423000332	Q3
243	Synthesis, structural characterization, and optical properties of PVA/MnO2 materials for optoelectronics applications	Macromolecular Research	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=h0GJXDEAA	Q3

			AAJ&sortby=pubdate&citation_for_view=h0GJXDEAAAAJ:uWiczbcajpAC	
244	Ba 2− x Ho x Sr 2− y Ni y Fe 12 O 22 and its composite with MXene: synthesis, characterization and enhanced visible light mediated photocatalytic activity for colored dye	Physica B: Condensed Matter	https://doi.org/10.1016/j.physb.2022.414550	Q3
245	Design, synthesis, and characterization of Pb-free tellurite glasses for radiation shielding applications	Silicon, 15(12), pp. 5233–5243	https://doi.org/10.1007/s12633-023-02433-2	Q3
246	Designing of novel organic semiconductors materials for organic solar cells: A machine learning assisted proficient pipeline	Current Applied Physics, 51, pp. 80–90	https://doi.org/10.1016/j.cap.2023.05.001	Q3
247	Dosimetric characterization of CyberKnife® robotic SRS using MOSFET-based" MOskin" detector	Journal of Radiation Research and Applied Sciences	https://doi.org/10.1016/j.jrras.2023.100676	Q3
248	Effect of poling on electrochemical properties of Ag/Ba0.85Ca0.15Zr0.1Ti0.9O3 composites	Silicon	https://doi.org/10.1007/s12633-023-02685-z	Q3
249	First-principles calculations to investigate structural, electrical, elastic and optical characteristics of BWF3 (W = S and Si) fluoroperovskites	Energy Technology, 11(9), 2300459	https://doi.org/10.1515/ract-2023-0138	Q3
250	Gamma, neutron, and charged particle shielding performance of ABKT glass system	Journal of Radiation Research and Applied Sciences	https://doi.org/10.1016/j.jrras.2023.100743	Q3
251	Microwave absorption, physicochemical, elemental mapping, and high-frequency perspectives of the Co, Cu, Zn doped Ni-Ce absorbers for Ku band frequency	Journal of Electronic Materials, 52(11), pp. 7794–7806	https://doi.org/10.1007/s11664-023-10698-y	Q3
252	Modulating electronic and structural properties of NiCo-layered double hydroxide with iodine: As an efficient electro-catalyst for the oxygen evolution reaction		https://doi.org/10.1016/j.physb.2023.414885	Q3
253	One dimensional photonic crystal structure comprising a hyperbolic metamaterial for optical filtering purpose	Journal of Electronic Materials, 52(1), pp. 569–582	https://doi.org/10.1007/s11664-022-10028-7	Q3
254	Optical features and radiation absorption efficiency of borate glasses and the role of PbO/Eu2O3 substitution	Journal of Radiation Research and Applied Sciences	https://doi.org/10.1016/j.jrras.2023.100746	Q3
255	Phase transformation of α-MnO2 to β- MnO2 induced by Cu doping: Improved electrochemical performance for next generation supercapacitor	Physica B: Condensed Matter, 663, 415008	https://doi.org/10.1016/j.physb.2023.415006	Q3
256	Photocatalytic BiVO4-Cement Composites for Dye Degradation	Physica B: Condensed Matter, 660, 414885	https://doi.org/10.1016/j.physb.2023.414884	Q3
257	Pyro-Catalytic Activates of Cement-Based BaTiO3 Composites	Silicon	https://doi.org/10.1007/s12633-023-02654-5	Q3
258	Radiation attenuation and optical properties of P2O5-based glass system	Journal of Radiation Research and Applied Sciences	https://doi.org/10.1016/j.jrras.2023.100712	Q3
259	Radiation attenuation of SiO2–MgO glass system for shielding applications	Journal of Radiation Research and Applied Sciences	https://doi.org/10.1016/j.jrras.2023.100747	Q3
260	Rare earth Gd-doped NiFe2O4@ 2D layered carbonaceous composite: Synthesis, structural evaluation and photocatalytic parameters studies	Journal of Radiation Research and Applied Sciences	https://doi.org/10.1016/j.jrras.2023.100639	Q3
261	Study on the synthesis and activity of Ag/LaFeO3/CNTs for photodegradation of harmful pollutants under visible light irradiation	Environmental Progress and Sustainable Energy	https://doi.org/10.1002/ep.14297	Q3

262	Synthesis and optimization of alkaline earth borate glasses doped with Fe2O3: Significance of BaO/MgO on the physical, structural features and radiation shielding performance	Applied Radiation and Isotopes	https://doi.org/10.1016/j.apradiso.2023.111139	Q3
263	Synthesis and optimization of B2O3-based glass: Influence of MgO on hardness, structure properties, and radiation shielding performance	Silicon, 15(18), pp. 8031–8043	https://doi.org/10.1007/s12633-023-02636-7	Q3
264	Synthesis of Cd-substituted NiCoPrFe2O4@ CNTs via sol-gel method: Investigating the structural and photocatalytic properties		https://doi.org/10.1016/j.jrras.2023.100579	Q3
265	Synthesis of CNT supported nickel and cobalt doped zinc ferrite for photodegradation of organic effluents by visible light irradiation	Journal of Electronic Materials, 52(10), pp. 6445–6459	http://dx.doi.org/10.1007/s11664-023-10613-4	Q3
266	Synthesis, physical, optical, and radiation attenuation efficiency of Bi2O3+ SrF2+ Li2O glass system	Journal of Radiation Research and Applied Sciences	https://doi.org/10.1016/j.jrras.2023.100688	Q3
267	Synthetic accessibility-informed designing of efficient organic semi-conductors for organic solar cells	Zeitschrift fur Physikalische Chemie, 237(11), pp. 1691–1711	https://doi.org/10.1515/zpch-2023-0266	Q3
268	Thermal, optical, and radiation shielding capacity of B2O3-MoO3-Li2O-Nb2O5 glasses	Journal of Radiation Research and Applied Sciences	https://doi.org/10.1016/j.jrras.2023.100742	Q3
269	Tungsten oxide-copper oxide supported on reduced graphene oxide as a proficient electrocatalyst with enhanced hydrogen evolution efficiency in an alkaline media	Journal of Electronic Materials, 52(7), pp. 4672–4685	https://doi.org/10.1007/s11664-023-10408-7	Q3
270	Characterization, electrical and optical properties of PVA/MnO2 nanocomposite materials	Digest Journal of Nanomaterials and Biostructures	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=h0GJXDEAAAAJ&sortby=pubdate&citation_for_view=h0GJXDEAAAAJ:0KyAp5RtaNEC	Q4
271	Effect of Fe doping on the structural, electrical and optical properties of Bi2Te3 thin films	Bulletin of Materials Science	https://doi.org/10.1007/s12034-022-02855-6	Q4
272	Effects of inorganic MnO2 and ZnO nanofillers on the structural investigations and dielectric behaviour of PVA polymeric materials.	Journal of Ovonic Research	DOI:10.15251/JOR.2023.192.175	Q4
273	Effects of modified argon glow plasma source on PET polymeric surface properties	Emerging Materials Research	https://doi.org/10.1680/jemmr.22.00199	Q4
274	Preparation, surface characterization and dielectric studies of hydrogen irradiated Cu/PANI polymer composites	Digest Journal of Nanomaterials and Biostructures	https://doi.org/10.15251/DJNB.2023.182.475	Q4
275	Tunable Optical Gain Characteristics of AlN/GaN/InAlN Quantum Well Heterostructure under Uniaxial and Biaxial Pressures	physica status solidi (b)	https://doi.org/10.1002/pssb.202200479	Q4
276	Characterization and discrimination of some gem silicate minerals adopting LIBS, FTIR, and Raman spectroscopic techniques	AIP advances	https://doi.org/10.1063/5.0157623	Q4
277	Optical Properties and Radiation Shielding Performance of Boron Silicate Glasses Containing CrO3 and SrTiO3	Integrated Ferroelectrics, 237(1), pp. 133–139	https://doi.org/10.1080/10584587.2023.2227054	Q4

4- List of articles cooperation with the best Top 100/200/500 university

No	**Title of research**	**Journal**	**Link**	**Quartile**
1	Structural investigation and optical characteristics of low-energy hydrogen beam irradiated polyvinyl alcohol/polyaniline composite materials	Optical and Quantum Electronics	https://link.springer.com/article/10.1007/s11082-023-05490-5#citeas	None
2	Structural, optical, electronic, elastic properties and population inversion of novel 2D carbides and nitrides MXene: A DFT study	Materials Science and Engineering: B	https://www.sciencedirect.com/science/article/abs/pii/S0921510722006183	None
3	Preparation and Optical Properties of PVDF-CaFe2O4 Polymer Nanocomposite Films	Polymers	https://doi.org/10.3390/polym15092232	Q1
4	Structural characteristics and dielectric properties of irradiated polyvinyl alcohol/sodium iodide composite films	Inorganic Chemistry Communications	https://doi.org/10.1016/j.inoche.2023.111651	Q1
5	[HTML] from mdpi.com Fabrication, Structural Properties, and Electrical Characterization of Polymer Nanocomposite Materials for Dielectric Applications	Polymers	https://www.mdpi.com/2073-4360/15/14/3067	Q1
6	An ab-initio insight computation of Structural, Electronic and Optical properties of Na-doped CsSrF3 Fluoro-Perovskite for optoelectronic applications	Inorganic Chemistry Communications	https://doi.org/10.1016/j.inoche.2023.111151	Q1
7	Characterization and linear/non-linear optical properties of polypyrrole/NiO for optoelectronic devices	Inorganic Chemistry CommunicationS	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=h0GJXDEAAAAJ&sortby=pubdate&citation_for_view=h0GJXDEAAAAJ:_Ybze24A_UAC	Q1
8	Effect of Asymmetric Fins on Thermal Performance of Phase Change Material-Based Thermal Energy Storage Unit	Materials	https://www.mdpi.com/1996-1944/16/7/2567	Q1
9	Effect of BaO addition on gamma	Radiation Physics and	https://doi.org/10.1016/j.radphyschem.2023.110766	Q1

	radiation shielding performance of sodium barium borate glasses using FLUKA code and PhyX/PSD platform	Chemistry		
10	Effects of Nd2O3 Nanoparticles on the Structural Characteristics and Dielectric Properties of PVA Polymeric Films	Polymers	https://www.mdpi.com/2073-4360/15/20/4084	Q1
11	Enhancing the efficiency of Cu2Te thin-film solar cell with WS2 buffer layer: A simulation study	Optics and Laser Technology	https://doi.org/10.1016/j.optlastec.2022.108942	Q1
12	First-principles calculations to investigate structural, electronics, optical, and mechanical properties of Bi-based novel fluoroperovskites TBiF3 (T = Hg, Xe) for optoelectronic applications	Materials Science in Semiconductor Processing	https://doi.org/10.1016/j.mssp.2023.107399	Q1
13	Lead-Free Ternary Glass for Radiation Protection: Composition and Performance Evaluation for Solar Cell Coverage	Materials	https://doi.org/10.3390/ma16083036	Q1
14	NaBeAs and NaBeSb: Novel Ternary Pnictides with Enhanced Thermoelectric Performance	J. Phys. Chem. C 2023, 127, 1733−1743	https://doi.org/10.1021/acs.jpcc.2c07676	Q1
15	Optical Band Gap Tuning, DFT Understandings, and Photocatalysis Performance of ZnO Nanoparticle-Doped Fe Compounds	Materials	https://doi.org/10.3390/ma16072676	Q1
16	Phase and domain engineering strategy for enhancement of piezoelectricity in the lead-free BiFeO3-BaTiO3 ceramics	Journal of Materiomics	https://www.sciencedirect.com/science/article/pii/S2352847823000540	Q1
17	Radiation shielding and optical features for a PbO–BaO–B2O3 system	Radiation Physics and Chemistry	https://doi.org/10.1016/j.radphyschem.2022.110566	Q1
18	Synthesis of flexible polymer nanocomposites based on methyl cellulose/copper oxide with desired dielectric properties for electrical applications	Inorganic Chemistry Communications	https://scholar.google.com/scholar?oi=bibs&cluster=7645082479830277 5&btnI=1&hl=en	Q1
19	The potential of MXenes-based	International Journal of	https://doi.org/10.1016/j.ijhydene.2023.05.166	Q1

	nanomaterials towards high performance in energy production and storage applications	Hydrogen Energy		
20	Recent advances, properties, fabrication and opportunities in two-dimensional materials for their potential sustainable applications	Energy Storage Materials	https://doi.org/10.1016/j.ensm.2023.102780	Q1-Top10 %
21	[HTML] from sciencedirect.com Evaluation of photon, proton, and alpha interaction parameters of EDTMPLu and MDPLu medications used for some bone cancer	Radiation Physics and Chemistry	https://doi.org/10.1016/j.radphyschem.2023.111419	Q1-Top10 %
22	Optimal Composition for Radiation Shielding in BTCu-x Glass Systems as Determined by FLUKA Simulation	Journal of Materials Research and Technology	https://www.sciencedirect.com/science/article/pii/S2238785423013558	Q1-Top10 %
23	Structure, magnetic, opto-electronic and thermoelectric properties of A3In2As4 and A5In2As6 (A = Sr and Eu) Zintl phase compounds	Journal of Alloys and Compounds	https://doi.org/10.1016/j.jallcom.2022.168614	Q1-Top10 %
24	Synergistic approach for enhancement of piezoelectricity in the lead-free BiFeO3-BaTiO3 ceramics	Journal of Alloys and Compounds	https://www.sciencedirect.com/science/article/abs/pii/S092583882300717X	Q1-Top10 %
25	Investigation of external isotropic pressure effect on widening of bandgap, mechanical, thermodynamic, and optical properties of rubidium niobate using first-principles	Optical and Quantum Electronics	https://link.springer.com/article/10.1007/s11082-023-04596-0	Q2
26	Direct synthesis of sodium doped Cu2O/GO nanocomposites for catalytic hydrogen production from NaBH4	Diamond and relate materials	https://doi.org/10.1016/j.diamond.2023.110148	Q2
27	Synthesis and optical properties of polyvinylidene difluoride nanocomposites comprising MoO3/g-C3N4	Results in physics	https://doi.org/10.1016/j.rinp.2023.106403	Q2
28	A Promising Alternative: Examining TVS Tellurite Glass for	Frontiers in Materials	doi: 10.3389/fmats.2023.1210524	Q2

	Gamma Radiation Shielding Applications			
29	A simple new method for retrieving spectral changes of the refractive index of thin films from transmission spectra	Optical Materials	https://doi.org/10.1016/j.optmat.2023.114584	Q2
30	Boost the photocatalytic hydrogen production of the nanocomposites conducting polypyrrole modified with metal oxide (CuO)	Physica Scripta 98	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=h0GJXDEAAAAJ&sortby=pubdate&citation_for_view=h0GJXDEAAAAJ:VLnqNzywnoUC	Q2
31	CASTEP study for mapping phase stability, and optical parameters of halide perovskite CsSiBr3 for photovoltaic and solar cell applications	Inorganic Chemistry Communications	https://www.sciencedirect.com/science/article/abs/pii/S1387700323000862	Q2
32	Characterization and linear/nonlinear optical properties of PVA/CS/TiO2 polymer nanocomposite films for optoelectronics applications	Optical and Quantum Electronics	https://doi.org/10.1007/s11082-023-05542-w	Q2
33	Copper oxide and copper nanoparticles insertion within a PPy matrix for photodetector applications	Optical and Quantum Electronics	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=h0GJXDEAAAAJ&sortby=pubdate&citation_for_view=h0GJXDEAAAAJ:9Nmd_mFXekcC	Q2
34	Coupling photonic quasicrystals with a one-dimensional critical high-temperature superconducting cavity	Optik	https://doi.org/10.1016/j.ijleo.2023.170847	Q2
35	Developing a Simple, Effective, and Quick Process to Make Silver Nanowires with a High Aspect Ratio	Materials	https://www.mdpi.com/1996-1944/16/15/5501	Q2
36	Effect of Al2O3 and NiO Nanoparticle Additions on the Structure and Corrosion Behavior of Sn—4% Zn Alloy Coating Carbon Steel	Sustainability	https://doi.org/10.3390/su15032511	Q2
37	Electro-oxidation reconstitution of aluminium copper MOF-derived metal oxyhydroxides for a robust OER process	RSC Advances	https://doi.org/10.1039/D2RA07661F	Q2

38	Exploring the potential of BBNCo glasses: Physical, optical, and radiation shielding analysis	Optical Materials	https://doi.org/10.1016/j.optmat.2023.113976	Q2
39	Exploring the Potential of Zirconium-89 in Diagnostic Radiopharmaceutical Applications: An Analytical Investigation	Biomedicines	https://doi.org/10.3390/biomedicines11041173	Q2
40	First-principles calculations to investigate Structural, Elastic, Electronic, Optical, and Magnetic Properties of Hg2WO4 for Photocatalytic Applications	Optik	https://doi.org/10.1016/j.ijleo.2023.170565	Q2
41	PVC/PVP/SrTiO3 polymer blend nanocomposites as potential materials for optoelectronic applications	Results in physics	https://doi.org/10.1016/j.rinp.2022.106173	Q2
42	Structural, optical and electronic properties of novel 2D carbides and nitrides MXene based Materials: A DFT study	Optical and Quantum Electronics	https://link.springer.com/article/10.1007/s11082-023-04803-y	Q2
43	Structure, optical and magnetic properties of barium sodium borate/cobalt oxide glass structures	Optical and Quantum Electronics	https://doi.org/10.1007/s11082-023-04680-5	Q2
44	Surface Characterization and Electrical Properties of Low Energy Irradiated PANI/PbS Polymeric Nanocomposite Materials	Inorganics	https://doi.org/10.3390/inorganics11020074	Q2
45	Surface morphology, structure, and dielectric relaxation investigations of ZnO/iron nanostructures	Journal of Materials Science: Materials in Electronics	https://doi.org/10.1007/s10854-023-10160-z	Q2
46	Synthesis of ZnO/MoS2 heterojunction with the green Ag nanoparticles for the efficient sunlight photocatalytic activity	Optical and Quantum Electronics	https://link.springer.com/article/10.1007/s11082-022-04263-w	Q2
47	Tailoring 2D carbides and nitrides based photo-catalytic nanomaterials for energy production and storage: a review	Zeitschrift für Physikalische Chemie	https://www.degruyter.com/document/doi/10.1515/zpch-2021-3158/html	Q2
48	First-principles calculations to investigate structural, electronics,	Materials Science in Semiconductor Processing	https://www.sciencedirect.com/science/article/abs/pii/S1369800123000926	Q2

	optical, and mechanical properties of Bi-based novel fluoroperovskites TBiF3 (T= Hg, Xe) for …			
49	Modifying the optical properties of hydrogen-beam-irradiated flexible PVA polymeric films	Surface Innovations	https://doi.org/10.1680/jsuin.22.01078	Q2
50	Synthesis and investigation of electromechanical property of lead-free BiFeO3–BaTiO3 quenched ceramics	Journal of Materials Science: Materials in Electronics	https://link.springer.com/article/10.1007/s10854-023-09837-2	Q2
51	An Ab–initio simulation of boron-based hydride perovskites XBH3 (X= Cs and Rb) for advance hydrogen storage system	Elsevier	https://doi.org/10.1016/j.comptc.2023.114173	Q3
52	Significant improvement of dielectric, magnetic, and gas-sensing properties of the (La0.8Ca0.2)0.6Bi0.4FeO3 nanomaterial: particles size effects	Journal of Materials Science: Materials in Electronics	https://doi.org/10.1007/s10854-022-09408-x	Q3
53	Structural, electronic, mechanical and dynamical stability properties of LiAH3 (A= Sc, Ti & V) perovskite-type hydrides: A first principle study	Chemical Physics	https://www.sciencedirect.com/science/article/abs/pii/S0301010423000332	Q3
54	Synthesis, structural characterization, and optical properties of PVA/MnO2 materials for optoelectronics applications	Macromolecular Research	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=h0GJXDEAAAAJ&sortby=pubdate&citation_for_view=h0GJXDEAAAAJ:uWiczbcajpAC	Q3
55	Characterization and discrimination of some gem silicate minerals adopting LIBS, FTIR, and Raman spectroscopic techniques	AIP advances	https://doi.org/10.1063/5.0157623	Q4

Chemistry program

1- Number of Published articles in 2023

Q1 Top 10	Q1	Q2	Q3	Q4
1	42	45	15	4

ISI	Scopus	Other	Total
106	106	8	114

Top 100	Top 200	Top 500
3	13	23

1- List of impacted articles in Web of Science

No	Title of research	Journal	Link	Quartile
1	A Superficial Intramolecular Alignment of Carbon Nitride through Conjugated Monomer for Optimized Photocatalytic CO2 Reduction. Catalysts 2021 …	Catalysts	https://doi.org/10.3390/catal11080935	Q1
2	Journal of Environmental Management	Journal of Environmental Management	https://doi.org/10.1016/j.jenvman.2023.117351	Q1
3	A metal-free protocol for the preparation of amines using ammonia borane under mild conditions	Organic Chemistry Frontiers	https://doi.org/10.1039/D2QO01938H	Q1
4	Catalytic Reduction of p-Nitrophenol on MnO2/Zeolite -13X Prepared with Lawsonia inermis Extract as a Stabilizing and Capping Agent	Nanomaterials	https://doi.org/10.3390/ nano13040785	Q1
5	Correction: A butterfly shaped organic heterojunction photocatalyst for effective photocatalytic CO 2 reduction	CrystEngComm	DOI https://doi.org/10.1039/D1CE00405K	Q1
6	Covalent organic frameworks (COFs) as Multi-target Multifunctional frameworks	Polymers	https://doi.org/10.3390/polym15020267	Q1
7	Efficient nitrophenol reduction with Noria-GO nanocomposite decorated with Pd–Cu nanoparticles	Environmental Research	https://doi.org/10.1016/j.envres.2023.116259	Q1
8	Electrospun TiO2-GO/PAN-CA nanofiber mats: A novel material for remediation of organic contaminants and nitrophenol reduction	Environmental Research	https://doi.org/10.1016/j.envres.2023.116587	Q1
9	Environmental Policy to Develop a Conceptual Design for the Water–Energy–Food Nexus: A Case Study in Wadi-Dara on the Red Sea Coast, Egypt	Water	https://doi.org/10.3390/w15040780	Q1
10	Fabrication, Structural Properties, and Electrical Characterization of Polymer Nanocomposite Materials for Dielectric Applications	Polymers	https://doi.org/10.3390/polym15143067	Q1
11	Fabrication, Structural Properties, and Electrical Characterization of Polymer Nanocomposite Materials for Dielectric Applications	Polymers	https://doi.org/10.3390/polym15143067	Q1
12	Facile fabrication of nano zerovalent iron and granular activated carbon for enhanced nitrate removal from water	Geology, Ecology, and Landscapes	https://doi.org/10.1080/24749508.2023.2167626	Q1
13	Galangal–cinnamon spice mixture blocks the coronavirus infection pathway through inhibition of SARS-CoV-2 MPro, three HCoV-229E targets;	Pharmaceuticals	https://doi.org/10.3390/ph16101378	Q1

	quantum-chemical calculations support in vitro evaluation			
14	Hybrid Beads of Poly(Acrylonitrile-co-Styrene/Pyrrole)@Poly Vinyl Pyrrolidone for Removing Carcinogenic Methylene Blue Dye Water Pollutant	JOURNAL OF POLYMERS AND THE ENVIRONMENT	DOI10.1007/s10924-023-02776-3	Q1
15	Modification of sugarcane bagasse as a novel lignocellulosic biomass adsorbent nanocomposite to improve adsorption of methylene blue	Cellulose	https://doi.org/10.1007/s10570-023-05205-9.	Q1
16	Novel (Y2O3) x (CdO) 1-x binary mixed oxide nanocomposites: facile synthesis, characterization, and photocatalysis enhancement	Journal of Materials Research and Technology	https://doi.org/10.1016/j.jmrt.2023.01.105	Q1
17	Novel P@SiO2 Nano-Composite as Effective Adsorbent to Remove Methylene Blue Dye from Aqueous Media	Materials	https://doi.org/10.3390/ma16020514	Q1
18	Phthalazone tethered 1,2,3-triazole conjugates: In silico molecular docking studies, synthesis, in vitro antiproliferative, and kinase inhibitory activities	Bioorganic Chemistry	DOI: 10.1016/j.bioorg.2023.106404	Q1
19	Simultaneous green TLC determination of nirmatrelvir and ritonavir in the pharmaceutical dosage form and spiked human plasma	Scientific Reports	https://doi.org/10.1038/s41598-023-32904-x	Q1
20	Surface modified Acacia Senegal Gum based spherical hydrogel; fabrication,characterization, and kinetically optimized waste water treatment with remarkable adsorption efficiency	Heliyon	https://doi.org/10.1016/j.heliyon.2023.e17197	Q1
21	Synergistic effect of gold nanoparticles anchored on conductive carbon black as an efficient electrochemical sensor for sensitive detection of anti-COVID-19 drug Favipiravir in	Microchemical Journal	https://doi.org/10.1016/j.microc.2023.108696	Q1
22	Synthesis of Ni-Fe-CO3 layered double hydroxide as Effective Adsorbent to remove Cr(VI) and ARS-dye from aqueous media	Environmental Technology & Innovation.	https://doi.org/10.1016/j.eti.2023.103214	Q1
23	Tailoring confined CdS quantum dots in polysulfone membrane for efficiently durable performance in solar-driven wastewater remediating systems	Journal of Environmental Management	https://doi.org/10.1016/j.jenvman.2023.117351	Q1
24	Tailoring confined CdS quantum dots in polysulfone membrane for efficiently durable performance in solar-driven wastewater remediating systems	Journal of Environmental Management	https://doi.org/10.1016/j.jenvman.2023.117351	Q1
25	Unveiling the elastic properties of PbF2–MoO3–Bi2O3–B2O3 glass: A comprehensive analysis using FTIR and Raman spectroscopy	Ceramics International	https://doi.org/10.1016/j.ceramint.2023.11.124	Q1

26	Visible light driven Ni doped hematite for photocatalytic reduction of noxious methylene blue	Materials Research Bulletin	https://doi.org/10.1016/j.materresbull.2023.112306	Q1
27	Direct synthesis of organic salt-derived porous carbons for enhanced CO2 and methane storage	Journal of Materials Chemistry A	DOI: 10.1039/D3TA00044C	Q1
28	The nutraceutical properties and health benefits of pseudocereals: a comprehensive treatise	CritiCal reviews in Food sCienCe and nutrition	https://doi.org/10.1080/10408398.2022.2071205	Q1
29	Chitosan Polymer Functionalized-Activated Carbon/Montmorillonite Composite for the Potential Removal of Lead Ions from Wastewater	Polymers	DOI10.3390/polym15092188	Q1
30	A hybrid mesoporous composite of SnO2 and MgO for adsorption and photocatalytic degradation of anionic dye from a real industrial effluent water	Environmental Science and Pollution Research	https://link.springer.com/article/10.1007/s11356-023-29649-5	Q1
31	carbon nanodots fabricated from manufactured dairy product as a precursorBifunctional ratiometric sensor based on highly fluorescent nitrogen and sulfur biomass-derived	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	https://doi.org/10.1016/j.saa.2023.122444	Q1
32	Chitosan Polymer Functionalized-Activated Carbon/ Montmorillonite Composite for the Potential Removal of Lead Ions from Wastewater	polymers	https://doi.org/10.3390/polym15092188	Q1
33	Detection and Selective Removal Strategy of Thorium Ions Using a Novel Fluorescent Ligand and Hybrid Mesoporous γ-Al2O3-like Nanoneedles	SustainableChemistry& Engineering	https://pubs.acs.org/doi/full/10.1021/acssuschemeng.2c05000	Q1
34	Highly efficient ultrafiltration membrane performance of PES@microcrystalline cellulose extracted from waste fruits for the removal of BrO3- from drinking water samples	COLLOID AND INTERFACE SCIENCE COMMUNICATIONS	DOI10.1016/j.colcom.2023.100718	Q1
35	Synthesis, characterization, and biological evaluation of Mel-drum's acid derivatives: Dual activity and molecular docking stud	Pharmaceuticals	https://doi.org/10.3390/ph16020281	Q1
36	Bifunctional ratiometric sensor based on highly fluorescent nitrogen and sulfur biomass-derivedcarbon nanodots fabricated from manufactured dairy product as a precursor	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	Q1
37	Carbon microspheres uniformly decorated with ceria nanoparticles as an ultrasensitive platform for electrochemical sensing of antihypertensive drug	Microchemical Journal	https://doi.org/10.1016/j.microc.2023.108422	Q1

	lacidipine in patient plasma and pharmaceutical formulation			
38	Efficient Dual-Function Catalyst: Palladium-Copper Nanoparticles Immobilized on Co-Cr LDH for Seamless Aerobic Oxidation of Benzyl Alcohol and Nitrobenzene Reduction	Nanomaterials	DOI10.3390/nano13131956	Q1
39	Monitoring antiviral active metabolite (N-hydroxycytidine) levels in plasma in presence of carboxylesterase-2 inhibitor verapamil using copper tetracyanoquinodimethane enhanced sensor	Microchemical	https://doi.org/10.1016/j.microc.2023.109330	Q1
40	Synthesis of Adenosine 5-monophosphate monohydrate functionalized mesoporous Ag/CuO/MCM-41 nanostructures for enormous mineralization of insistent organic contaminants and …	Journal of Molecular Liquids	https://doi.org/10.1016/j.molliq.2023.123379	Q1
41	Ultrasensitive and selective determination of naringin using eggplant peel- derived nitrogen doped-carbon dots after extraction with Amberlite IRA-400: Evaluation the bitterness of grapefruit juice	Microchemical Journal	https://doi.org/10.1016/j.microc.2023.109358	Q1
42	Bifunctional ratiometric sensor based on highly fluorescent nitrogen and sulfur biomass-derived carbon nanodots fabricated from manufactured dairy product as a precursor	Spectrochimica Acta Part A:Molecular and Biomolecular Spectroscopy	https://doi.org/10.1016/j.saa.2023.122444	Q1-Top 10%
43	A p-Si/CoPc Hybrid Photodiode System for Looking at Frequency and Temperature Dependence on Dielectric Relaxation and AC Electrical Conductivity	Journal of Electronic Materials	https://doi.org/10.1007/s11664-023-10460-4	Q2
44	Advanced Plasmonic Nanoparticle-Based Techniques for the Prevention, Detection, and Treatment of Current COVID-19	Plasmonics	https://doi.org/10.1007/s11468-022-01754-0	Q2
45	anaging Encapsulated Oil Extract of Date Seed Waste for High Hydroxyl Radical Scavenging Assayed via Hybrid Photo-Mediated/Spectrofluorimetric Probing	Molecules 28(13)	DOI: 10.3390/molecules28135160	Q2
46	Anticancer, antioxidant, ameliorative and therapeutic properties of kaempferol	International Journal of Food Properties	https://doi.org/10.1080/10942912.2023.2205040	Q2
47	Applicability of mesoporous carbon-glassy polyvinyl alcohol/silica gel hybrid composite to remove methylene blue from aqueous solution	Research on Chemical Intermediates	https://doi.org/10.1007/s11164-023-05041-3	Q2
48	Asiatic acid: a review on its polypharmacologicalproperties and therapeutic potential againstvarious Maladies	International Journal of Food Properties	nternational Journal of Food Properties	Q2

49	Berberine: a comprehensive Approach to combat human maladies	International Journal of Food Properties	https://doi.org/10.1080/10942912.2023.2184300	Q2
50	Bionanocomposite scaffolds based on MnS-nanorods loaded acacia-Senegal-gum hydrogels:Fabrication, characterization and biological evaluation	Bioactive Carbohydrates and Dietary Fibre	https://doi.org/10.1016/j.bcdf.2023.100368	Q2
51	Bio-synthesis of Fe-nanocomplex using leaves Ocimum basilicum L. as a promising tool for tanning effluent treatment	Biomass Conversion and Biorefinery	https://doi.org/10.1007/s13399-023-04139-3	Q2
52	Characterization and Catalytic Performance of Al-SBA-15 Catalyst Fabricated Using Ionic Liquids with High Aluminum Content	Catalysts	https://doi.org/10.3390/catal13111395	Q2
53	Characterization and linear/nonlinear optical properties of PVA/CS/TiO2 polymer nanocomposite films for optoelectronics applications	Optical and Quantum Electronics	https://doi.org/10.1007/s11082-023-05542-w	Q2
54	Chitosan/Selenium@ Olive Oil Nanocomplex Targeted Therapy for Multiple Cancers	Journal of Polymers and the Environment	https://doi.org/10.1007/s10924-023-02975-y	Q2
55	Chrysin a promising anticancer agent: recent perspectives	INTERNATIONAL JOURNAL OF FOOD PROPERTIES	https://doi.org/10.1080/10942912.2023.2246678© 2023 Muhammad Shahbaz, Hammad Naeem, Muhammad Imran, Hammad Ul Hassan, Suliman A. Alsagaby, Waleed Al Abdulmonem, Ahmed Bilal Waqar, Ahmed H. Ghorab, Mohamed A. Abdelgawad, Mohammed M. Ghoneim, Muzzamal Hussain, Entessar Al Jbawi and Amna Ihsan Published with license by Taylor & Francis Group, LLC. This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. The terms on which this article has been published allow the posting of the Accepted Manuscript in a repository by the author(s) or with their consent.	Q2
56	Curcumin: recent updates on gastrointestinal cancers	JOURNAL OF FOOD : 2023, VOL. 21, NO. 1, 502–513	https://doi.org/10.1080/19476337.2023.2245009	Q2
57	Design, Synthesis, Characterization, Spectral, Chemical Analysis, Biological Evaluation, and Molecular Docking Studies of Novel Fatty Schiff Base Ligands and Their Nickel and Mercury Complexes	Inorganic chemistry communication	https://doi.org/10.1016/j.inoche.2023.111382	Q2
58	Development of Bi2O3/MoSe2 mixed nanostructures for photocatalytic degradation of methylene blue dye	Journal of Taibah University for	https://doi.org/10.1080/16583655.2022.2161333	Q2

		Science 17 (1), 2161333		
59	Effect of green and sustainable extracted fucoidan polysaccharide as a corrosion inhibitor in 3.5% NaCl	Biomass Conversion and Biorefinery	https://doi.org/10.1007/s13399-022-03579-7	Q2
60	Experimental strategy of the spectrophotometric approach using freeze-drying for PO34 determination in frozen and chilled chickens in the Saudi Arabia market	Journal of Saudi Chemical Society	https://doi.org/10.1016/j.jscs.2023.101615	Q2
61	Isolation and Bioassay of a New Terminalone A from Terminalia arjuna	Molecules	https://doi.org/10.3390/molecules28031015	Q2
62	Microwave-Aided Green Synthesis of ZrO2/ZnO/AC Nanocomposite for Catalytic Degradation of Organic Dye	Water, Air, & Soil Pollution	https://doi.org/10.1007/s11270-023-06451-0	Q2
63	Mixed matrix membrane comprising functionalized sulfonated activated carbon from tea waste biomass for enhanced hydrophilicity and antifouling properties	DIAMOND AND RELATED MATERIALS	10.1016/j.diamond.2023.109945	Q2
64	Phytochemical profile and pro-healthy properties of Terminalia chebula: A comprehensive review	International Journal of Food Properties	https://www.tandfonline.com/loi/ljfp20	Q2
65	Purification of benzene-laden air by static adsorption of benzene onto activated carbon prepared from Diplotaxis acris biomass	Biomass Conversion and Biorefinery	https://doi.org/10.1007/s13399-021-01462-5	Q2
66	Quantitative determination of trace elements in frozen and chilled chicken using ICP OES and related health risk assessment	Journal of Taibah University for Science	https://doi.org/10.1080/16583655.2023.2196235	Q2
67	Synthesis of Bivalent Ni(II), Cu(II) and Zn(II) Complexes of Azodicarbonamide in Mixture of Methanol and Aqueous Solvents: Spectral Characterizations and Anti-Microbial Studies	Crystals	10.3390/cryst13030367	Q2
68	Synthesis, Spectroscopic Characterization and Thermal Studies of Polymer-Metal Complexes Derived from Modified Poly Styrene-Alt-(Maleic Anhydride) as a Prospects for Biomedical Applications	crystals	https://doi.org/10.3390/cryst13050728	Q2
69	The anticancer and EGFR-TK/CDK-9 dual inhibitory potentials of new synthetic pyranopyrazole and pyrazolone derivatives: X-ray crystallography, in vitro, and in silico mechanistic investigations	Journal of biomolecular Structure & Dynamics 20:1-15	DOI: 10.1080/07391102.2023.2167000	Q2
70	Adsorptive performance of aminonaphthalenesulfonic acid modified magnetic-graphene oxide for methylene	Inorganic Chemistry	https://doi.org/10.1016/j.inoche.2022.110261	Q2

	blue dye: Mechanism, isotherm and thermodynamic studies	Communications		
71	Light trapping by porous TiO2 hollow hemispheres for high efficiency photoelectrochemical water splitting	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	DOI10.1039/d2cp04246k	Q2
72	Optimizing the performance of Au-y/Ni-x/TiO2NTs photoanodes for photoelectrochemical water splitting	RSC advances	DOI10.1039/d3ra02011h	Q2
73	Physical and chemical evaluation of groundwater quality in Jouf region in Saudi Arabia for energy, agriculture and drinking purposes	Desalination and Water Treatment	doi: 10.5004/dwt.2023.29554	Q2
74	Synthesis, physicochemical properties, biological, molecular docking and DFT investigation of Fe(III), Co(II), Ni(II), Cu(II) and Zn(II) complexes of the 4-[(5-oxo-4,5-dihydro-1,3-thiazol-2-yl)hydrazono]methyl}phenyl 4-methylbenzenesulfonate Schiff-base ligand	Polyhedron	https://doi.org/10.1016/j.poly.2022.116219	Q2
75	Towards superior permeability and antifouling performance of sulfonated polyethersulfone ultrafiltration membranes modified with sulfopropyl methacrylate functionalized SBA-15	Chinese Journal of Chemical Engineering	https://doi.org/10.1016/j.cjche.2021.09.019	Q2
76	A DFT study for improving the photovoltaic performance of organic solar cells by designing symmetric non-fullerene acceptors by quantum chemical modification on pre-existed …	Tamer H. A. Hasanin	https://doi.org/10.1016/j.jmgm.2023.108613	Q2
77	Anticancer and apoptosis inducing potentialof quercetin against a wide range of humanmalignancies	International Journal of Food Properties	https://doi.org/10.1080/10942912.2023.2252619	Q2
78	Assessment of Physicochemical, Functional, Rheological and end-use properties of Tribulus terrestris	INTERNATIONAL JOURNAL OF FOOD PROPERTIES	DOI: 10.1080/10942912.2023.2261666	Q2
79	Cleaner pathway for developing bioactive textile materials using natural dyes: a review	Environmental Science and Pollution Research	DOI: 10.1007/s11356-023-26131-0	Q2
80	Combined influence of Ce(III) and iodide ions for corrosion protection of AA 2024-T3 in acidic to neutral chloride-rich environments: Electrochemical and surface characterization studies	Journal of Rare Earths	https://doi.org/10.1016/j.jre.2022.05.014	Q2
81	Design and Synthesis of Pyridine and Thiazole Derivatives as Eco-friendly Insecticidal to Control Olive Pests	Chemistry and Biodiversity	https://doi.org/10.1002/cbdv.202300559	Q2

82	Design, synthesis, docking study of pyrazolohydrazinopyrimidin-4-one derivatives and their application as antimicrobials	Chemistry & Biodiversity	https://doi.org/10.1002/cbdv.202201209	Q2
83	Design, Synthesis, Docking Study of Pyrazolohydrazinopyrimidin-4-one Derivatives and Their Application as Antimicrobials	Chemistry and Biodiversity	https://doi.org/10.1002/cbdv.202201209	Q2
84	DFT Study of Structural, Electronic, Thermoelectric and Elastic Properties of KPdX3 (X = F, Cl, Br, and I) Perovskites	Physica Scripta	DOI: 10.1088/1402-4896/acce76	Q2
85	Dual activity of indolin-2-ones containing an arylidene motif: DNA and BSA interaction	RSC Advances	https://doi.org/10.1039/D3RA04997C	Q2
86	Electrochemical and surface characterisation of carbon steel exposed to mixed Ce and iodide electrolytes	Metals	Doi.org/10.3390/met13091553	Q2
87	Green Synthesis of Novel Pyridines via One-Pot Multicomponent Reaction and Their Anti-Inflammatory Evaluation	ACS omega	: https://doi.org/10.1021/acsomega.3c00066	Q2
88	Characterization, Antimicrobial and Antitumor Investigation for Substituted Cyclodiphosph (V) azane sulfa medicines and their Transition Metal Complexes.	Egyptian Journal of Chemistry	DOI: 10.21608/EJCHEM.2022.136363.6007	Q3
89	"Adsorption of Direct Red 81 dye onto friendly prepared Iron oxide /MWCNTs Nanocomposite: Kinetics and Thermodynamic studies	Desalination and Water Treatment	accepted/ in press	Q3
90	Adsorption of Direct red 81 dye onto friendly prepared iron oxide/multi-walled carbon nanotubes nanocomposite: kinetics and thermodynamic studies	desalination and water treatment	doi: 10.5004/dwt.2023.29565	Q3
91	An overview of chemical composition and fungicidal activity of Olive (Olea Europea L.) Leaf Extract.	Egyptian journal of chemistry	10.21608/EJCHEM.2022.120206.5397	Q3
92	Asymmetrical liquid crystals synthesis for effective sensing: Fluorescence investigations	Results in Chemistry	https://doi.org/10.1016/j.rechem.2023.101166	Q3
93	Biochemical profile, antioxidant effect and antifungal activity of Saudi Ziziphus spina-christi (L.) Desf. for vaginal lotion formulation	Plant Science Today	https://doi.org/10.14719/pst.1659	Q3
94	Design, antimicrobial testing, and molecular docking studies of new chalcone and pyrimidine derivatives based on 2-phenyl-1H-pyrazol-3(2H)-one	Letters in Drug Design & Discovery	http://dx.doi.org/10.2174/1570180820666230505142821	Q3
95	Electrochemical study on using aminated MIL–101(Cr) as corrosion inhibitor for mild steel in acidic environment	Anti-Corrosion Methods and Materials	https://doi.org/10.1108/ACMM-08-2022-2686	Q3
96	haracterization, Antimicrobial and Antitumor Investigation for Substituted Cyclodiphosph(V)azane sulfa medicines and their Transition Metal Complexes.	Egyptian journal of chemistry	10.21608/EJCHEM.2022.136363.6007	Q3

97	LC-MS/MS Approach for Simultaneous Assessment of Hyoscine N-butyl bromide and Ketoprofen in biological fluids and Pharmaceuticals	biomedical chromatography	https://doi.org/10.1002/bmc.5612	Q3
98	Novel Indene-[1, 3, 4] Oxadiazine hybrids: Design, construction, molecular docking, QSAR, ADME study and anticancer potential	Egyptian Journal of Chemistry	DOI: 10.21608/ejchem.2023.216875.8133	Q3
99	Preparation and characterization of Polyvinyl chloride/Polymethyl- methacrylate/Graphite [PVC/PMMA/G] membrane used for the purification of the bioethanol produced from the hydrolysis and fermentation of rice waste	Egyptian Journal of Chemistry	10.21608/ejchem.2022.143958.6292	Q3
100	Synthesis, characterization, and adsorption study of magnetic superhydrophobic monolithic core-shell polystyrene composite for the removal of ethyl naphthalene from produced water using fixed column bed	Egyptian Journal of Chemistry	DOI: 10.21608/ejchem.2023.188348.7486	Q3
101	Synthesis, Characterization, Antibacterial Evaluation, and Insecticidal Activity of Some New Heterocyclic Compounds Containing Styrylpyridine Moiety	Russian Journal of Bioorganic Chemistry	-	Q3
102	Design, Antimicrobial Testing, and Molecular Docking Studies of New Chalcone and Pyrimidine Derivatives Based on 2-phenyl-1H-pyrazol3(2H)-one	Letters in Drug Design & Discovery, 2023, Vol. 20, No. 0	DOI: 10.2174/1570180820666230505142821	Q3
103	A SIMPLE AND LOW-COST NEW PROCEDURE FOR SYNTHESIS OF NICKEL(II) AND CADMIUM(II) SULFIDES in situ THIOUREA METAL-CHELATION PRECURSOR	BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA	10.4314/bcse.v37i3.10	Q4
104	Organic Ligands on the Sorption of Radiocobalt on Soil	Arab Journal of Nuclear Sciences and Applications	DOI: 10.21608/ajnsa.2022.145694.1603	Q4
105	Strategies towards end-group engineering of chrysene core based non-fullerene acceptors for high performance organic solar cells: A DFT study	Journal of Computational Biophysics and Chemistry	https://doi.org/10.1142/S2737416523420097	Q4
106	Towards Development of High-performance Perovskite Solar cells based on Pyrrole Materials for Hole Transport Layer by using Computational Approach	Journal of Computational Biophysics and Chemistry	https://doi.org/10.1142/S2737416523420127	Q4

4- List of articles cooperation with the best Top 100/200/500 university

No	Title of research	Journal	Link	Quartile
1	Direct synthesis of organic salt-derived porous carbons for enhanced CO2 and methane storage	Journal of Materials Chemistry A	DOI: 10.1039/D3TA00044C	Q1
2	The nutraceutical properties and health benefits of pseudocereals: a comprehensive treatise	CritiCal reviews in Food sCienCe and nutrition	https://doi.org/10.1080/10408398.2022.2071205	Q1
3	Chitosan Polymer Functionalized-Activated Carbon/Montmorillonite Composite for the Potential Removal of Lead Ions from Wastewater	Polymers	DOI10.3390/polym15092188	Q1
4	Synthesis and X-ray structure of the first thioether of quinolin-2-one naming as 4,4'-thio-bis(1-methylquinoline-2(1H)-thione) and X-ray structure of 3,3'- methylenebis(4-hydroxy-1-methylquinolin2(1H)-one)	researchsquare preprint	https://doi.org/10.21203/rs.3.rs-3085178/v1	Q1
5	A hybrid mesoporous composite of SnO2 and MgO for adsorption and photocatalytic degradation of anionic dye from a real industrial effluent water	Environmental Science and Pollution Research	https://link.springer.com/article/10.1007/s11356-023-29649-5	Q1
6	carbon nanodots fabricated from manufactured dairy product as a precursorBifunctional ratiometric sensor based on highly fluorescent nitrogen and sulfur biomass-derived	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	https://doi.org/10.1016/j.saa.2023.122444	Q1
7	Chitosan Polymer Functionalized-Activated Carbon/ Montmorillonite Composite for the Potential Removal of Lead Ions from Wastewater	polymers	https://doi.org/10.3390/polym15092188	Q1
8	Detection and Selective Removal Strategy of Thorium Ions Using a Novel Fluorescent Ligand and Hybrid Mesoporous γ-Al2O3-like Nanoneedles	SustainableChemistry& Engineering	https://pubs.acs.org/doi/full/10.1021/acssuschemeng.2c05000	Q1
9	Highly efficient ultrafiltration membrane performance of PES@microcrystalline cellulose extracted from waste fruits for the removal of BrO3- from drinking water samples	COLLOID AND INTERFACE SCIENCE COMMUNICATIONS	DOI10.1016/j.colcom.2023.100718	Q1
10	Synthesis, characterization, and biological evaluation of Mel-drum's acid derivatives: Dual activity and molecular docking stud	Pharmaceuticals	https://doi.org/10.3390/ph16020281	Q1
11	Bifunctional ratiometric sensor based on highly fluorescent nitrogen and sulfur biomass-derivedcarbon nanodots fabricated from manufactured dairy product as a precursor	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	Q1

12	Carbon microspheres uniformly decorated with ceria nanoparticles as an ultrasensitive platform for electrochemical sensing of antihypertensive drug lacidipine in patient plasma and pharmaceutical formulation	Microchemical Journal	https://doi.org/10.1016/j.microc.2023.108422	Q1
13	Efficient Dual-Function Catalyst: Palladium-Copper Nanoparticles Immobilized on Co-Cr LDH for Seamless Aerobic Oxidation of Benzyl Alcohol and Nitrobenzene Reduction	Nanomaterials	DOI10.3390/nano13131956	Q1
14	Monitoring antiviral active metabolite (N-hydroxycytidine) levels in plasma in presence of carboxylesterase-2 inhibitor verapamil using copper tetracyanoquinodimethane enhanced sensor	Microchemical	https://doi.org/10.1016/j.microc.2023.109330	Q1
15	Synthesis of Adenosine 5-monophosphate monohydrate functionalized mesoporous Ag/CuO/MCM-41 nanostructures for enormous mineralization of insistent organic contaminants and …	Journal of Molecular Liquids	https://doi.org/10.1016/j.molliq.2023.123379	Q1
16	Ultrasensitive and selective determination of naringin using eggplant peel- derived nitrogen doped-carbon dots after extraction with Amberlite IRA-400: Evaluation the bitterness of grapefruit juice	Microchemical Journal	https://doi.org/10.1016/j.microc.2023.109358	Q1
17	Bifunctional ratiometric sensor based on highly fluorescent nitrogen and sulfur biomass-derived carbon nanodots fabricated from manufactured dairy product as a precursor	Spectrochimica Acta Part A:Molecular and Biomolecular Spectroscopy	https://doi.org/10.1016/j.saa.2023.122444	Q1-Top 10 %
18	Adsorptive performance of aminonaphthalenesulfonic acid modified magnetic-graphene oxide for methylene blue dye: Mechanism, isotherm and thermodynamic studies	Inorganic Chemistry Communications	https://doi.org/10.1016/j.inoche.2022.110261	Q2
19	Light trapping by porous TiO2 hollow hemispheres for high efficiency photoelectrochemical water splitting	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	DOI10.1039/d2cp04246k	Q2
20	Optimizing the performance of Au-y/Ni-x/TiO2NTs photoanodes for photoelectrochemical water splitting	RSC advances	DOI10.1039/d3ra02011h	Q2
21	Physical and chemical evaluation of groundwater quality in Jouf region in Saudi Arabia for energy, agriculture and drinking purposes	Desalination and Water Treatment	doi: 10.5004/dwt.2023.29554	Q2
22	Synthesis, physicochemical properties, biological, molecular docking and DFT investigation of Fe(III), Co(II), Ni(II), Cu(II) and Zn(II) complexes of the 4-[(5-oxo-4,5-dihydro-1,3-thiazol-2-yl)hydrazono]methyl}phenyl 4-methylbenzenesulfonate Schiff-base ligand	Polyhedron	https://doi.org/10.1016/j.poly.2022.116219	Q2
23	Towards superior permeability and antifouling performance of sulfonated polyethersulfone ultrafiltration membranes modified with sulfopropyl methacrylate functionalized SBA-15	Chinese Journal of Chemical Engineering	https://doi.org/10.1016/j.cjche.2021.09.019	Q2
24	A DFT study for improving the photovoltaic performance of organic solar cells by designing symmetric non-fullerene acceptors by quantum chemical modification on pre-existed …	Tamer H. A. Hasanin	https://doi.org/10.1016/j.jmgm.2023.108613	Q2
25	Anticancer and apoptosis inducing potentialof quercetin against a wide range of humanmalignancies	International Journal of Food Properties	https://doi.org/10.1080/10942912.2023.2252619	Q2
26	Assessment of Physicochemical, Functional, Rheological and end-use properties of Tribulus terrestris	INTERNATIONAL JOURNAL OF FOOD PROPERTIES	DOI: 10.1080/10942912.2023.2261666	Q2
27	Cleaner pathway for developing bioactive textile materials using natural dyes: a review	Environmental Science and Pollution Research	DOI: 10.1007/s11356-023-26131-0	Q2
28	Combined influence of Ce(III) and iodide ions for corrosion protection of AA 2024-T3 in acidic to neutral chloride-rich environments: Electrochemical and surface characterization studies	Journal of Rare Earths	https://doi.org/10.1016/j.jre.2022.05.014	Q2
29	Design and Synthesis of Pyridine and Thiazole Derivatives as Eco-friendly Insecticidal to Control Olive Pests	Chemistry and Biodiversity	https://doi.org/10.1002/cbdv.202300559	Q2

30	Design, synthesis, docking study of pyrazolohydrazinopyrimidin-4-one derivatives and their application as antimicrobials	Chemistry & Biodiversity	https://doi.org/10.1002/cbdv.202201209	Q2
31	Design, Synthesis, Docking Study of Pyrazolohydrazinopyrimidin-4-one Derivatives and Their Application as Antimicrobials	Chemistry and Biodiversity	https://doi.org/10.1002/cbdv.202201209	Q2
32	DFT Study of Structural, Electronic, Thermoelectric and Elastic Properties of KPdX3 (X = F, Cl, Br, and I) Perovskites	Physica Scripta	DOI: 10.1088/1402-4896/acce76	Q2
33	Dual activity of indolin-2-ones containing an arylidene motif: DNA and BSA interaction	RSC Advances	https://doi.org/10.1039/D3RA04997C	Q2
34	Electrochemical and surface characterisation of carbon steel exposed to mixed Ce and iodide electrolytes	Metals	Doi.org/10.3390/met13091553	Q2
35	Green Synthesis of Novel Pyridines via One-Pot Multicomponent Reaction and Their Anti-Inflammatory Evaluation	ACS omega	: https://doi.org/10.1021/acsomega.3c00066	Q2
36	Adsorption of Molnupiravir anti-COVID-19 drug over B12N12 and Al12N12 nanocarriers: a DFT study	Journal of Biomolecular Structure and Dynamics	https://doi.org/10.1080/07391102.2023.2169763	Q3
37	Design, Antimicrobial Testing, and Molecular Docking Studies of New Chalcone and Pyrimidine Derivatives Based on 2-phenyl-1H-pyrazol3(2H)-one	Letters in Drug Design & Discovery, 2023, Vol. 20, No. 0	DOI: 10.2174/1570180820666230505142821	Q3
38	Strategies towards end-group engineering of chrysene core based non-fullerene acceptors for high performance organic solar cells: A DFT study	Journal of Computational Biophysics and Chemistry	https://doi.org/10.1142/S2737416523420097	Q4
39	Towards Development of High-performance Perovskite Solar cells based on Pyrrole Materials for Hole Transport Layer by using Computational Approach	Journal of Computational Biophysics and Chemistry	https://doi.org/10.1142/S2737416523420127	Q4

Biology program

1- Number of Published articles in 2023

Q1 Top 10	Q1	Q2	Q3	Q4
-	22	13	16	4

ISI	Scopus	Other	Total
55	55	5	60

Top 100	Top 200	Top 500
2	8	7

2- List of impacted articles in Web of Science

No	Title of research	Journal	Link	Quartile
1	Advanced implications of nanotechnology in disease control and environmental perspectives	Biomedicine & Pharmacotherapy	https://doi.org/10.1016/j.biopha.2022.114172	Q1
2	Chromium (VI) Toxicity and Active Tolerance Mechanisms of Wheat Plant Treated with Plant Growth-Promoting Actinobacteria and Olive Solid Waste	ACS Omega	https://doi.org/10.1021/acsomega.3c02447?urlappend=%3Fref%3DPDF&jav=VoR&rel=cite-as	Q1
3	Determination of the relationship between class IV sirtuin genes and growth traits in Chinese black Tibetan sheep	Animal Biotechnology	https://doi.org/10.1080/10495398.2021.2016434	Q1
4	Exploration of Maternal and Fetal Toxicity Risks for Metronidazole-Related Teratogenicity and Hepatotoxicity through an Assessment in Albino Rats	Toxics	https://doi.org/ 10.3390/toxics11040303	Q1
5	Helicobacter pylori Infection: Current Status and Future Prospects on Diagnostic, Therapeutic and Control Challenges	antibiotics	https://doi.org/10.3390/ antibiotics12020191	Q1
6	Hydrocortisone-Loaded Lipid–Polymer Hybrid Nanoparticles for Controlled Topical Delivery: Formulation Design Optimization and In Vitro and In Vivo Appraisal	ACS omega	https://pubs.acs.org/doi/10.1021/acsomega.3c00638?goto=supporting-info	Q1
7	Immune Responses of Rhynchophorus ferrugineus to a New Strain of Beauveria bassiana	Sustainability	; https://doi.org/10.3390/su142013002	Q1
8	Integrating Chemical Profiling, In Vivo Study, and Network Pharmacology to Explore the Anti-inflammatory Effect of Pterocarpus dalbergioides Fruits and Its	ACS Omega	https://doi.org/10.1021/acsomega.3c02940?urlappend=%3Fref%3DPDF&jav=VoR&rel=cite-as	Q1

	Correlation with the Major Phytoconstituents			
9	Interactive Effect of Arbuscular Mycorrhizal Fungi (AMF) and Olive Solid Waste on Wheat under Arsenite Toxicity	Plants	https://doi.org/10.3390/plants12051100	Q1
10	Novel Ultrasensitive Point of Care Device for Diagnosis of Human Schistosomiasis Mansoni	Acta Tropica	ScienceDirect https://www.sciencedirect.com › acta-...Acta Tropica | Journal | ScienceDirect.com by Elsevier	Q1
11	Positive Interaction of Selenium Nanoparticles and Olive Solid Waste on Vanadium-Stressed Soybean Plant	Agriculture	https://doi.org/10.3390/agriculture13020426	Q1
12	NMR-Based Metabolomics for Geographical Discrimination of Adhatoda vasica Leaves	Plants	https://doi.org/10.3390/ plants12030453	Q1
13	Organic Amendments Improved the Productivity and Bio-Fortification of Fine Rice by Improving Physiological Responses and Nutrient Homeostasis under Salinity Stress	Plants	https://doi.org/10.3390/plants12081644	Q1
14	Facilitation by Haloxylon persicum Shrubs Enhances Density and Richness of Soil Seed Bank of Annual Plants in a Hyper-Arid Ecosystem	Plants	https://doi.org/10.3390/plants12061276	Q1
15	Green Biogenic of Silver Nanoparticles Using Polyphenolic Extract of Olive Leaf Wastes with Focus on Their Anticancer and Antimicrobial Activities	Plants	https://doi.org/10.3390/plants12061410	Q1
16	Mentha piperita and Stressful Conditions	Mentha piperita and Stressful Conditions	DOI: 10.1201/9781003242963-10	Q1
17	Morphological and cytochemical characteristics of Varanus niloticus (Squamata, Varanidae) blood cells	Microscopy Research and Technique	https://doi.org/10.1002/jemt.24298	Q1
18	Petrosolinum crispum under Stressful Conditions	Petrosolinum crispum under Stressful Conditions	DOI: 10.1201/9781003242963-15	Q1
19	Protective efficacy of luteolin against aflatoxinB1-induced toxicity, oxidative damage, and apoptosis in the rat liver	Environmental Science and Pollution Research	https://link.springer.com/article/10.1007/s11356-023-26085-3	Q1
20	Rosemary and neem methanolic extract: antioxidant, cytotoxic, and larvicidal activities supported by	Frontiers in Plant Science	https://doi.org/10.3389/fpls.2023.1155698	Q1

	chemical composition and molecular docking simulations			
21	Prevalence and Morphological Investigation of Parasitic Infection in Freshwater Fish (Nile Tilapia) from Upper Egypt	Animal	https://www.mdpi.com/2076-2615/13/6/1088	Q1
22	Tongue microarchitecture and functional characterization of the lingual papillae in the desert hedgehog (Paraechinus aethiopicus)	Journal of Experimental Zoology – A (JEZ-A)	https://doi.org/10.1002/jez.2770	Q1
23	A Comprehensive Approach to Derivatization: Elemental Composition, Biochemical, and In Silico Studies of Metformin Derivatives Containing Copper and Zinc Complexes	Molecules	https://doi.org/10.3390/metabo13010094	Q2
24	Aloe vera and wound healing: a brief review	Brazilian Journal of Pharmaceutical Sciences	https://doi.org/10.1590/s2175-97902022e20837	Q2
25	Antifungal Activity of Fresh and Stored Olive Mill Wastewater (OMW) and Its Ethyl Acetate Extract against Plant Pathogens Fungi	agricultural science and agronomy	doi: 10.20944/preprints202304.0661.v1	Q2
26	Antiviral activities of olive oil apigenin and taxifolin against SARS-CoV-2 RNA-dependent RNA polymerase (RdRP): In silico, pharmacokinetic, ADMET, and in-vitro approaches	Cogent Food \& Agriculture	https://doi.org/10.1080/23311932.2023.2236828	Q2
27	Bio-synthesis of Fe-nanocomplex using leaves Ocimum basilicum L. as a promising tool for tanning efuent treatment	Biomass Conversion and Biorefnery https://doi.org/10.1007/s13399-023-04139-3	https://link.springer.com/article/10.1007/s13399-023-04139-3	Q2
28	Detecting STR profiles from degrading menstrual blood samples and their use as possible evidence in forensic investigations	Forensic Science International	https://www.sciencedirect.com/science/article/abs/pii/S0379073823000129	Q2
29	Molecular and physiochemical evaluation of buck semen cryopreserved with antioxidants	Reprod Dom Anim.	DOI: 10.1111/rda.14354	Q2
30	Patterns of mutations in nine cancer-related genes and PAF development among smoking male patients diagnosed with bladder cancer	Tumor Biology	https://content.iospress.com/articles/tumor-biology/tub220032	Q2
31	Polysaccharides in Berberis dasystachya improve intestinal flora	Journal of Functional Foods	https://www.sciencedirect.com/science/article/pii/S1756464622004510	Q2

	depending on the molecular weight and ameliorate type 2 diabetes in rats			
32	Revealing the Underlying Mechanism of Acacia Nilotica against Asthma from a Systematic Perspective: A Network Pharmacology and Molecular Docking Study	Life	https://doi.org/10.3390/life13020411	Q2
33	The Combined Effect of Licorice Extract and Bone Marrow Mesenchymal Stem Cells on Cisplatin-Induced Hepatocellular Damage in Rats	Metabolites	https://doi.org/10.3390/metabo13010094	Q2
34	The Development of Diagnostic and Vaccine Strategies for Early Detection and Control of Human Brucellosis, Particularly in Endemic Areas	vaccines	https:// doi.org/10.3390/vaccines11030654	Q2
35	Protective effect of vitamin D against hepatic molecular apoptosis caused by high-fat diet in rats	current issue in molecular biology	https://doi.org/10.3390/cimb45010031	Q2
36	Fish Scales as a Bio Indicator of Environmental Pollution in Some Fish Species Collected from Different Areas in Saudi Arabia	Egyptian Journal of Aquatic Biology & Fisheries	DOI: 10.21608/EJABF.2023.297302	Q3
37	A Promising Approach to Control Aquatic Developmental Stages of Culex Cx. univittatus Theobald, 1901 Using 4G Mobile (HSDPA 2100) Radiation	Egyptian Journal of Aquatic Biology and Fisheries (EJABF)	DOI: 10.21608/EJABF.2023.299731	Q3
38	Biosynthesis of Fe nano complex using leaves Ocimum basilicum L. as a promising tool for tanning efuent treatment	Biomass Conversion and Biorefinery	https://doi.org/10.1007/s13399-023-04139-3	Q3
39	Characterization of the Small Intestine in the Southern White-breasted Hedgehog (Erinaceus concolor) Using Histological, Histochemical, Immunohistochemical, and Scanning Electron Microscopic Techniques	Microscopy and Microanalysis	DOI: 10.1093/micmic/ozad128	Q3
40	Design, Antimicrobial Testing, and Molecular Docking Studies of New Chalcone and Pyrimidine Derivatives	Letters in Drug Design & Discovery	DOI: 10.2174/1570180820666230505142821	Q3

	Based on 2-phenyl-1H-pyrazol3(2H)-one			
41	Development of more potent anti-microbial drugs from extracts of fve medicinal plants resistant to S. aureus in human fuids: an ex vivo and in vivo analysis	Rendiconti Lincei. Scienze Fisiche e Naturali	https://link.springer.com/article/10.1007/s12210-023-01135-7	Q3
42	FGFR3 and FGFR4 overexpression in juvenile nasopharyngeal angiofibroma: impact of smoking history and implications for personalized management	JOURNAL OF APPLIED GENETICS	. https://doi.org/10.1080/02772248.2015.1070853	Q3
43	Fish Scales as a Bio Indicator of Environmental Pollution in Some Fish Species Collected from Different Areas in Saudi Arabia	Egyptian Journal of Aquatic Biology & Fisheries	DOI: 10.21608/EJABF.2023.297302	Q3
44	Histological and Immunohistochemical Studies of the Effect of Buspirone Hydrochloride on the Fetal Lung Tissue of Rats	International Journal of Pharmacology	DOI: 10.3923/ijp.2023.80.88	Q3
45	Histology and histochemistry of the major salivary glands in the southern white-breasted hedgehog (Erinaceus concolor)	Anatomia, Histologia, Embryologia	https://doi.org/10.1111/ahe.12878	Q3
46	Integrated Use of Organic and Bio-fertilizers to Improve Yield and Fruit Quality of Olives Grown in Low Fertility Sandy Soil in an Arid Environment	Phyton-International Journal of Experimental Botany	https://scholar.google.com/scholar?hl=ar&as_sdt=0%2C5&q=Integrated+Use+of+Organic+and+Bio-fertilizers+to+Improve+Yield+and+Fruit+Quality+of+Olives+Grown+in+Low+Fertility+Sandy+Soil+in+an+Arid+Environment&btnG=	Q3
47	Knowledge, attitudes and preventive practices towards COVID-19 among prenatal women in an antenatal clinic in Sakaka City, Aljouf region: A cross-sectional study	African Journal of Reproductive Health	DOI: 10.29063/ajrh2023/v27i1.7	Q3
48	Phytochemical Screening of Some Medicinal Plants in Al Jouf, KSA	Open Journal of Ecology	https://doi.org/10.4236/oje.2023.132006	Q3
49	Characterization of different Varieties of Olea europaea Using Metabolomics Combined with Multivariate Data Analysis	International Journal of Agriculture and Biology	DOI: 10.17957/IJAB/15.2032	Q3
50	Microbiological quality assessment of milk and its fermented derivatives produced in Sfax region, Tunisia	The South African Journal of Animal Science	Accepted, in Press	Q3

51	Evaluation of the physiological and histological effects induced by some energy drinks on male rabbits	Bioscience Research	Available online freely at www.isisn.org-Print ISSN: 1811-9506 Online ISSN: 2218-3973 Journal by Innovative Scientific Information & Services Network	Q4
52	Immunohistochemical Evidence of Melatonin Protection on Lung Tissue During Chemotherapy	International Journal of Morphology	http://dx.doi.org/10.4067/S0717-95022023000100167	Q4
53	TEM and LM assessment of Biomphalaria alexandrina snails' immunotoxicity as a bio-monitor for water pollution by cuprous oxide nanoparticles and copper sulphate	DESALINATION AND WATER TREATMENT	10.5004/dwt.2023.29959	Q4
54	Effect of Microwave Radiation on the Red Flour Beetle Tribolium castaneum (Herbst)	Indian Journal of Entomology	https://indianentomology.org/index.php/ije/article/view/1246/755	Q4

3- List of articles cooperation with the best Top 100/200/500 university

No	**Title of research**	**Journal**	**Link**	**Quartile**
1	Physico-chemical characterization of compost Extracts- Study of the antifungal activity against phytopathogenic fungi: Aspergillus niger and Fusarium oxysporum	International Conference on New Trends in Renewable Energy and Environment for 2030 Vision (ICNTREE 2023)	none	Q2
2	Prevalence and Morphological Investigation of Parasitic Infection in Freshwater Fish (Nile Tilapia) from Upper Egypt	Animal	https://www.mdpi.com/2076-2615/13/6/1088	Q1
3	Tongue microarchitecture and functional characterization of the lingual papillae in the desert hedgehog (Paraechinus aethiopicus)	Journal of Experimental Zoology – A (JEZ-A)	https://doi.org/10.1002/jez.2770	Q1
4	Characterization of different Varieties of Olea europaea Using Metabolomics Combined with Multivariate Data Analysis	International Journal of Agriculture and Biology	DOI: 10.17957/IJAB/15.2032	Q3
5	Microbiological quality assessment of milk and its fermented derivatives produced in Sfax region, Tunisia	The South African Journal of Animal Science	Accepted, in Press	Q3
6	Effect of Microwave Radiation on the Red Flour Beetle Tribolium castaneum (Herbst)	Indian Journal of Entomology	https://indianentomology.org/index.php/ije/article/view/1246/755	Q4

Mathematic program

1- Number of Published articles in 2023

Q1 Top 10	Q1	Q2	Q3	Q4
4	18	14	7	4

ISI	Scopus	Other	Total
43	43	2	45

Top 100	Top 200	Top 500
3	2	1

2- List of articles impacted in Web of Science

List of Top 10% (IF) impacted articles in Web of Science

No	Title of research	Journal	Link	Quartile
1	Conjugate free convection from an array of discrete heat sources with water and nano-encapsulated phase change particle in a cold enclosure	Journal of Energy Storage	https://doi.org/10.1016/j.est.2022.106076	Q1
2	Convective Flow Analysis for Moderate Rayleigh Numbers of Nano Encapsulated Phase Change Materials-Water Filled Enclosure with Various Thermal Conditions	Journal of Energy Storage	https://doi.org/10.1016/j.est.2023.107523	Q1
3	Some results for a class of delayed fractional partial differential equations with Caputo–Hadamard derivative	Mathematical Methods in the Applied Sciences	https://onlinelibrary.wiley.com/doi/abs/10.1002/mma.9096	Q1
4	Stability of some generalized fractional differential equations in the sense of Ulam–Hyers–Rassias	Boundary Value Problems	https://doi.org/10.1186/s13661-023-01695-5	Q1
5	On Ulam Stability of the Inhomogeneous Version of the General Linear Functional Equation	Results in Mathematics	https://link.springer.com/article/10.1007/s00025-023-01840-7	Q1
6	Optimal control problems governed by a class of nonlinear systems	Aims Mathematics	DOI:10.3934/math.2024024	Q1
7	Chitosan/Selenium@Olive Oil Nanocomplex Targeted Therapy for Multiple Cancers	Journal of Polymers and the Environment	https://link.springer.com/article/10.1007/s10924-023-02975-y	Q1
8	Existence and uniqueness for a coupled system of fractional equations involving Riemann-Liouville and Caputo derivatives with coupled Riemann-Stieltjes integro-multipoint boundary conditions	Aims Math.	https://www.aimspress.com/aimspress-data/math/2023/5/PDF/math-08-05-510.pdf	Q1
9	Fractional Itô–Doob Stochastic Differential Equations Driven by Countably Many Brownian Motions	Fractal and Fractional	https://www.mdpi.com/2504-3110/7/4/331	Q1
10	On Coupled System of Langevin Fractional Problems with Different Orders of μ-Caputo Fractional Derivatives	fractal and fractional	https://doi.org/10.3390/fractalfract7040337	Q1
11	A new Cosine-Weibull model: Distributional properties with applications to basketball and medical sectors	Alexandria Engineering Journal	https://doi.org/10.1016/j.aej.2022.10.068	Q1
12	A novel logarithmic approach to generate new probability distributions for data modeling in the engineering sector	Alexandria Engineering Journal	https://doi.org/10.1016/j.aej.2022.07.021	Q1
13	Numerical simulation and mathematical modeling for heat and mass transfer in MHD stagnation point flow of nanofluid consisting of entropy generation	Scientific Reports	https://doi.org/10.1038/s41598-023-33412-8	Q1
14	An Infinite System of Fractional Sturm–Liouville Operator with Measure of Noncompactness Technique in Banach Space	mathematics	Website: https://www.mdpi.com/2227-7390/11/6/1444	Q1
15	Averaged control	Mathematics	https://doi.org/10.1155/2023/6687006	Q1-Top 10%
16	Practical stability for nonlinear systems with generalized conformable derivative	AIMS Mathematics	http://www.aimspress.com/article/doi/10.3934/math.2023797	Q1-Top 10%
17	Analyzing the acoustic wave propagation characteristics in discontinuous bifurcated waveguide	Chaos, Solitons and Fractals	https://doi.org/10.1016/j.chaos.2023.113499	Q1-Top 10%
18	Proportional Itô–Doob Stochastic Fractional Order Systems	Mathematics	https://www.mdpi.com/2227-7390/11/9/2049	Q1-Top 10%

19	Enhancement of conjugate heat transfer in an enclosure by utilizing water and nano encapsulated phase change materials with active cylinder	Journal of Energy Storage	https://doi.org/10.1016/j.est.2023.107422	Q2
20	Multicomponent approach to the synthesis and spectral characterization of some 3,5- pyrazolididione derivatives and evaluation as anti-inflammatory agents	Current Chemistry Letters	doi: 10.5267/j.ccl.2023.8.003	Q2
21	Quantum Fisher information matrix for the two-axis twisting model at thermal equilibrium	Modern Physics Letters A	https://doi.org/10.1142/S0217732322502078	Q2
22	Classes of operators related to m-hypercontractive and m-hyperexpansive Hilbert space operators	Linear and Multilinear Algebra ISSN:	https://doi.org/10.1080/03081087.2022.2114409	Q2
23	Convective heat transfer performance of MHD nanofluid flow with temperature dependent viscosity over stretching surface	ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik	https://doi.org/10.1002/zamm.202300053	Q2
24	Gutman Connection Index of Graphs under Operations	Symmetry	https://doi.org/10.3390/sym15010021	Q2
25	n-Quasi-m-Complex Symmetric Transformations	Symmetry	n-Quasi-m-Complex Symmetric Transformations	Q2
26	Theoretical and Numerical Study for Volterra−Fredholm Fractional Integro-Differential Equations Based on Chebyshev Polynomials of the Third Kind	Complexity	https://www.hindawi.com/journals/complexity/2023/6401067/	Q2
27	Thermal-Diffusive Processes of an Electron-Hole Non-Local Semiconductor Model with Variable Thermal Conductivity and Hall Current Effect	Mathematics	https://doi.org/10.3390/math11020264	Q2
28	Quantum Fisher information for two-qubit XY spin-chain: individual characterization of different parameters	Optical and Quantum Electronics	https://doi.org/10.1007/s11082-023-04696-x	Q2
29	(n1, · · · , nd)-quasi-(p, q)-isometric commuting tuple of operators	Filomat	https://doi.org/10.2298/FIL2328531A	Q2
30	Thermal local quantum Fisher and Wigner–Yanase correlations in an anisotropic two-qubit Heisenberg XY model	Optical and Quantum Electronics	https://doi.org/10.1007/s11082-023-04839-0	Q2
31	Bioconvection Maxwell nanofluid flow over a stretching cylinder influenced by chemically reactive activation energy surrounded by a permeable medium	Frontiers in Physics	https://doi.org/10.3389/fphy.2022.1065264	Q2
32	Influence of COVID-19 vaccination on the dynamics of new infected cases in the world	Mathematical Biosciences and Engineering	doi: 10.3934/mbe.2023156	Q2
33	Unsteady free convection in a composite enclosure having flexible wall	Advances in Mechanical Engineering	https://doi.org/10.1177/1687813223 1167947	Q3
34	Use of Finite Element Method for Free Convection of Nanofluids between a Rectangular Enclosure and a Sinusoidal Cylinder Using Buongiorno's Two-Phase Model	Advances in Mathematical Physics	https://doi.org/10.1155/2023/8426825	Q3
35	Components' Tolerance Impact on the Design of a Real Case of One MW PV Substation	Discrete Dynamics in Nature and Society	https://www.hindawi.com/journals/ddns/2023/8520036/	Q3
36	Nonsimilar convection analysis of single and multilayer carbon nanotubes based nanofluid flow over a vertical cone in a complex porous media subjected to thermal radiations and chemical reaction	Journal of Magnetism and Magnetic Materials	https://doi.org/10.1016/j.jmmm.2023.170583	Q3
37	On k-Quasi-(m, n, C)-Isosymmetric Operators	Hacettepe Journal of Mathematics and Statistics	https://doi.org/10.1007/s41478-023-00676-2(0123456789().,-volV)(0123456789().,-volV)	Q3

38	On some inequalities for numerical radius of semi – Hilbert space multioperators	Georgian Mathematical journal	https://doi.org/10.1016/j.jmmm.2023.170583	Q3
39	SOME RESULTS ON (m; n;C)-ISOSYMMETRIC COMMUTING d- TUPLES OF OPERATORS ON A HILBERT SPACE	Rocky Mountain J. Math.	https://doi.org/10.1007/s41478-023-00676-2(0123456789().,-volV)(0123456789().,-volV)	Q3
40	On a class of Drazin invertible operators for which (S*)2(SD)2 = (S*SD)2	The Journal of Analysis	https://doi.org/10.1007/s41478-023-00676-2(0123456789().,-volV)(0123456789().,-volV)	Q4
41	CLASS OF OPERATORS RELATED TO (;)-CLASS (Q) OPERATORS	Bulletin of Mathematical Analysis and Applications	https://doi.org/10.54671/BMAA-2023-4-2	Q4
42	m-QUASI-(n;A)-PARANORMAL OPERATORS IN SEMI-HILBERTIAN SPACES	Bulletin of Mathematical Analysis and Applications	https://doi.org/10.54671/BMAA-2023-3-5	Q4
43	Numerical examination of the Darcy–Forchheimer Casson model with instigation energy and second-order momentum slip: Thermal features	Numerical Heat Transfer, Part B: Fundamentals	https://doi.org/10.1080/10407790.2023.2257881	Q4

3- List of articles cooperation with the best Top 100/200/500 university

Title of research	Journal	Link	Quartile
A new Cosine-Weibull model: Distributional properties with applications to basketball and medical sectors	Alexandria Engineering Journal	https://doi.org/10.1016/j.aej.2022.10.068	Q1
A novel logarithmic approach to generate new probability distributions for data modeling in the engineering sector	Alexandria Engineering Journal	https://doi.org/10.1016/j.aej.2022.07.021	Q1
Numerical simulation and mathematical modeling for heat and mass transfer in MHD stagnation point flow of nanofluid consisting of entropy generation	Scientific Reports	https://doi.org/10.1038/s41598-023-33412-8	Q1
Influence of COVID-19 vaccination on the dynamics of new infected cases in the world	Mathematical Biosciences and Engineering	doi: 10.3934/mbe.2023156	Q2
An Infinite System of Fractional Sturm–Liouville Operator with Measure of Noncompactness Technique in Banach Space	mathematics	Website: https://www.mdpi.com/2227-7390/11/6/1444	Q1
Proportional Itô–Doob Stochastic Fractional Order Systems	Mathematics	https://www.mdpi.com/2227-7390/11/9/2049	Q1-Top10%