

## أبحاث قسم الفيزياء 2023-2020

I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
أ.د محمد محمود أحمد محمد					
2.670	Mohamad M Ahmad, Fatimah R Al-Ghareeb, Hicham Mahfoz Kotb, Sajid Ali Ansari, Tarek S Kayed, Hassan A Khater, Shalendra Kumar, Koji Yamada	2022	Crystals	Enhanced Li <sup>+</sup> Ionic Conduction and Relaxation Properties of Li <sub>5+2x</sub> La <sub>3</sub> Ta <sub>2-x</sub> GaxO <sub>12</sub> Garnets <a href="https://doi.org/10.3390/cryst12060770">https://doi.org/10.3390/cryst12060770</a>	1
3.748	Hicham Mahfoz Kotb, Adil Alshoaibi, Javed Mazher, Nagih M Shaalan, Mohamad M Ahmad	2022	Materials	Colossal Permittivity Characteristics of (Nb, Si) Co-Doped TiO <sub>2</sub> Ceramics <a href="https://doi.org/10.3390/ma15134701">https://doi.org/10.3390/ma15134701</a>	2
2.670	Sajid Ali Ansari, Hicham Mahfoz Kotb, Mohamad M Ahmad	2022	Crystals	Wrinkle-shaped nickel sulfide grown on three-dimensional nickel foam: A binder-free electrode designed for high-performance electrochemical supercapacitor applications <a href="https://doi.org/10.3390/cryst12060757">https://doi.org/10.3390/cryst12060757</a>	3
3.748	Mohamad M Ahmad, Adil Alshoaibi, Sajid Ali Ansari, Tarek S Kayed, Hassan A Khater, Hicham Mahfoz Kotb	2022	Materials	Dielectric Properties of Bi <sub>2/3</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics Prepared by Mechanical Ball Milling and Low Temperature Conventional Sintering. <a href="https://doi.org/10.3390/ma15093173">https://doi.org/10.3390/ma15093173</a>	4
4.927	Hicham Mahfoz Kotb, Mohamad Mahmoud Ahmad, Sajid Ali Ansari, Tarek S Kayed, Adil Alshoaibi	2022	Molecules	Dielectric Properties of Colossal-Dielectric-Constant Na <sub>1/2</sub> La <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics Prepared by Spark Plasma Sintering <a href="https://doi.org/10.3390/molecules27030779">https://doi.org/10.3390/molecules27030779</a>	5
2.670	Mohamad M Ahmad, Hicham Mahfoz Kotb, Shehla Mushtaq, Mir Waheed-Ur-Rehman, Christopher M Maghanga, Mir Waqas Alam	2022	Crystals	Green Synthesis of Mn + Cu Bimetallic Nanoparticles Using Vinca Rosea Extract and Their Antioxidant, Antibacterial, and Catalytic Activities <a href="https://doi.org/10.3390/cryst12010072">https://doi.org/10.3390/cryst12010072</a>	6

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2.670	Mohamad M Ahmad, Shehla Mushtaq, Hassan S Al Qahtani, A Sedky, Mir Waqas Alam	2021	Crystals	Investigation of TiO <sub>2</sub> Nanoparticles Synthesized by Sol-Gel Method for Effectual Photodegradation, Oxidation and Reduction Reaction <a href="https://doi.org/10.3390/cryst11121456">https://doi.org/10.3390/cryst11121456</a>	7
2.670	Mir Waqas Alam, Muhammad Aamir, Mohd Farhan, Maryam Albuhaulayqah, Mohamad M Ahmad, CR Ravikumar, VG Dileep Kumar, HC Ananda Murthy	2021	Crystals	Green synthesis of Ni-Cu-Zn based nanosized metal oxides for photocatalytic and sensor applications <a href="https://doi.org/10.3390/cryst11121467">https://doi.org/10.3390/cryst11121467</a>	8
2.779	Anju Kumari, Kavita Kumari, Faheem Ahmed, Mohamad M Ahmad, Jyotsna Sharma, Ankush Vij, Shalendra Kumar	2021	Journal of Materials Science: Materials in Electronics	Role of Bi-excess on structural, electrical, optical, and magnetic properties BiFeO <sub>3</sub> nanoparticles <a href="https://doi.org/10.1007/s10854-021-06860-z">https://doi.org/10.1007/s10854-021-06860-z</a>	9
3.748	Hicham Mahfoz Kotb, Hassan A Khater, Osama Saber, Mohamad M Ahmad	2021	Materials	Sintering Temperature, Frequency, and Temperature Dependent Dielectric Properties of Na <sub>0.5</sub> Sm <sub>0.5</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics <a href="https://doi.org/10.3390/ma14174805">https://doi.org/10.3390/ma14174805</a>	10
3.869	Anju Kumari, Kavita Kumari, Rezaq Naji Aljawfi, PA Alvi, Saurabh Dalela, Mohamad M Ahmad, Amit Kumar Chawla, Rajesh Kumar, Ankush Vij, Shalendra Kumar	2021	Applied Nanoscience	Role of La substitution on structural, optical, and multiferroic properties of BiFeO <sub>3</sub> nanoparticles <a href="https://doi.org/10.1007/s13204-021-01844-1">https://doi.org/10.1007/s13204-021-01844-1</a>	11
2.670	Mohamad M Ahmad, Hicham Mahfoz Kotb, Celin Joseph, Shalendra Kumar, Adil Alshoaibi	2021	Crystals	Transport and Dielectric Properties of Mechanosynthesized La <sub>2/3</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics <a href="https://doi.org/10.3390/cryst11030313">https://doi.org/10.3390/cryst11030313</a>	12
4.171	Mohamed Helmi Hadj Alouane, Olfa Nasr, Hammadi Khmissi,	2021	Journal of Luminescence	Temperature dependence of optical properties of InAs/InP quantum rod-nanowires grown on Si substrate	13

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
	Bouraoui Ilahi, Gilles Patriarche, <b>Mohamad M Ahmad</b> , Michel Gendry, Catherine Bru-Chevallier, Nicolas Chauvin			<a href="https://doi.org/10.1016/j.jlumin.2020.117814">https://doi.org/10.1016/j.jlumin.2020.117814</a>	
4.110	Anju Kumari, Kavita Kumari, Faheem Ahmed, Adil Alshoaibi, PA Alvi, Saurabh Dalela, <b>Mohamad M Ahmad</b> , Rezq Naji Aljawfi, Piyush Dua, Ankush Vij, Shalendra Kumar	2021	Vacuum	Influence of Sm doping on structural, ferroelectric, electrical, optical and magnetic properties of BaTiO <sub>3</sub> <a href="https://doi.org/10.1016/j.vacuum.2020.109872">https://doi.org/10.1016/j.vacuum.2020.109872</a>	14
2.670	<b>Mohamad M Ahmad</b> , H Mahfoz Kotb, Adil Alshoaibi, MH Hadj Alouane, Abdullah Aljaafari, Hassan A Khater	2021	Crystals	Effect of Sm <sup>3+</sup> Substitutions on the Lithium Ionic Conduction and Relaxation Dynamics of Li <sub>5+2x</sub> La <sub>3</sub> Nb <sub>2-x</sub> Sm <sub>x</sub> O <sub>12</sub> Ceramics <a href="https://doi.org/10.3390/cryst11020095">https://doi.org/10.3390/cryst11020095</a>	15
3.748	Hicham Mahfoz Kotb, <b>Mohamad M Ahmad</b> , Adil Alshoaibi, Koji Yamada	2020	Materials	Dielectric Response and Structural Analysis of (A <sup>3+</sup> , Nb <sup>5+</sup> ) Cosubstituted CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics (A: Al and Bi) <a href="https://doi.org/10.3390/ma13245822">https://doi.org/10.3390/ma13245822</a>	16
4.565	H Mahfoz Kotb, Osama Saber, <b>Mohamad M Ahmad</b>	2020	Results in Physics	Colossal relative permittivity and low dielectric loss in BaFe <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> ceramics prepared by spark plasma sintering <a href="https://doi.org/10.1016/j.rinp.2020.103607">https://doi.org/10.1016/j.rinp.2020.103607</a>	17
2.025	H Mahfoz Kotb, <b>Mohamad M Ahmad</b> , Adil Alshoaibi, Hassan A Khater, Abdullah Aljaafari	2020	Materials Research Express	Improved dielectric properties of Na <sub>1/2</sub> Y <sub>1/2</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics synthesized by ball-milling and reactive sintering <a href="https://doi.org/10.1088/2053-1591/ab73fb">https://doi.org/10.1088/2053-1591/ab73fb</a>	18
3.027	Mohamed Gouda Mohammad Abu-Abdeen, Osama Saber, Javed Mazher, <b>Mohamed M Ahmed</b>	2020	Journal of Thermoplastic Composite Materials	An effective and novel approach for enhancement of the oxidative thermal stability of multiwalled carbon nanotubes loaded polymer blend <a href="https://doi.org/10.1177/0892705719830757">https://doi.org/10.1177/0892705719830757</a>	19

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أ.د زكريا محمد محمد محمود					
4.996	Vyacheslav Gauzshtein, Alexander Fix, Bogdan Vasilishin, Eed Darwish, Matvey Kuzin, Michael Levchuk, Alexey Loginov, Dmitry Nikolenko, Igor Rachek, Yuriy Shestakov, Dmitry Toporkov, Arseniy Yurchenko, Sergey Zevakov, <b>Zakaria Mahmoud</b>	2023	Scientific Reports	The role of final-state interaction in tensor polarization effects of the reaction $\gamma d \rightarrow pn\pi^0$ <a href="https://www.nature.com/articles/s41598-023-34555-4">https://www.nature.com/articles/s41598-023-34555-4</a>	1
	<b>Zakaria M. M. Mahmoud</b>	2023	Nuclear Physics A	Energy density functional for $\alpha + {}^{12}\text{C}$ elastic scattering. <a href="https://doi.org/10.1016/j.nuclphysa.2022.122573">https://doi.org/10.1016/j.nuclphysa.2022.122573</a>	2
	Ahmed Hammad Amer, <b>Zakaria M. M. Mahmoud</b> , Yu E Penionzhkevich	2022	Nuclear Physics A	Optical model and coupled reaction channels analyses of the $9\text{Be} + {}^{12}\text{C}$ elastic scattering. <a href="https://doi.org/10.1016/j.nuclphysa.2022.122525">https://doi.org/10.1016/j.nuclphysa.2022.122525</a>	3
	VV Gauzshtein, BI Vasilishin, EM Darwish, AI Fix, M Ya Kuzin, MI Levchuk, A Yu Loginov, DM Nikolenko, IA Rachek, Yu V Shestakov, DK Toporkov, AV Yurchenko, SA Zevakov, BA Alexeev, GA Karmanov, SP Korneev, DD Zaytsev, IK Zaytsev, IA Dementiev, MV Shevelev, DA Shkitov, <b>Zakaria M.M. Mahmoud</b>	2022	Results in Physics	Coherent photoproduction of a $\pi^0$ -meson on a tensor-polarized deuteron at large momentum transfer. <a href="https://doi.org/10.1016/j.rinp.2022.105573">https://doi.org/10.1016/j.rinp.2022.105573</a>	4
	<b>Zakaria MM Mahmoud</b>	2022	Physical Review C	Energy density functional for $\alpha$ clustering and scattering of light 4m nuclei.	5

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
				<a href="https://doi.org/10.1103/PhysRevC.105.044609">https://doi.org/10.1103/PhysRevC.105.044609</a>	
	Ahmed Hammad Amer, <b>Zakaria MM Mahmoud</b> , Yu E Penionzhkevich	2022	Nuclear Physics A	Double folding analysis of $\alpha+^{12}\text{C}$ elastic scattering using different effective interactions. <a href="https://doi.org/10.1016/j.nuclphysa.2022.122398">https://doi.org/10.1016/j.nuclphysa.2022.122398</a>	6
	EM Darwish, <b>Zakaria M. M. Mahmoud</b> , SS Al-Thoyaib	2022	Modern Physics Letters A	Spin correlation coefficients in lepton–deuteron elastic scattering and their sensitivity to realistic NN potentials <a href="https://doi.org/10.1142/S0217732322500353">https://doi.org/10.1142/S0217732322500353</a>	7
	S. S. Al-Thoyaib E. M. Darwish, <b>Zakaria M. M. Mahmoud</b>	2022	Moscow University Physics Bulletin	Influence of nucleon structure on tensor spin asymmetries in elastic lepton-deuteron scattering <a href="https://doi.org/10.3103/S0027134922010246">https://doi.org/10.3103/S0027134922010246</a>	8
	AH Amer, <b>Zakaria M. M. Mahmoud</b> , YE Penionzhkevich	2022	Physics of Particles and Nuclei	Comparison between Different Interaction Models of Double Folding Potential for $6\text{He} + ^{12}\text{C}$ Elastic Scattering up to 500 MeV. <a href="https://doi.org/10.1134/S1063779622020071">https://doi.org/10.1134/S1063779622020071</a>	9
	<b>Zakaria M. M. Mahmoud</b> , O. S. A. Qandil	2022	Revista Mexicana de Física	Microscopic Spin Orbit Potential for Proton + $9\text{Be}$ Scattering <a href="https://doi.org/10.1134/S1063778821050100">https://doi.org/10.1134/S1063778821050100</a>	10
	Kassem O Behairy, <b>Zakaria M. M. Mahmoud</b>	2021	Physics of Atomic Nuclei	Systematic Low-Energy Optical Model Potential for-Nucleus Elastic Scattering <a href="https://doi.org/10.1134/S1063778821050045">https://doi.org/10.1134/S1063778821050045</a>	11
	Kevin Bauerbach, <b>Zakaria M. M. Mahmoud</b> , Florian Gebhard	2021	Physica status solidi (b)	Thermodynamics and Screening in the Ising–Kondo Model <a href="https://doi.org/10.1002/pssb.202000367">https://doi.org/10.1002/pssb.202000367</a>	12

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	Awad A Ibraheem, M El-Azab Farid, Eman Abd El-Rahman, <b>Zakaria M. M. Mahmoud</b> , Sherif R Mokhtar	2020	International Journal of Modern Physics E	Different folding models for ${}^6\text{Li}+{}^{28}\text{Si}$ elastic scattering <a href="https://doi.org/10.1142/S0218301320500755">https://doi.org/10.1142/S0218301320500755</a>	13
	<b>Zakaria M. M. Mahmoud</b> , Mahmoud A Hassanien	2020	Physics of Atomic Nuclei	Analytical Potential for Energy Range between 6 and 280 MeV <a href="https://doi.org/10.1134/S106377882003014X">https://doi.org/10.1134/S106377882003014X</a>	14
	<b>Zakaria M. M. Mahmoud</b> , A Hemmdan, KO Behairy	2020	Results in Physics	Systematic analysis of elastic $\alpha$ scattering on $A \approx 118-130$ nuclei around the Coulomb barrier <a href="https://doi.org/10.1016/j.rinp.2019.102892">https://doi.org/10.1016/j.rinp.2019.102892</a>	15
	<b><u>M. Y. Salem.</u></b>	(2019/2020)	<i>Egypt. J. Solids</i>	Influence of Small Amount of Cu Addition on Microstructure, Deformation Temperature, and the Tensile Behaviour of Sn-9Zn-1.5Ag Lead free Solder Alloy. <a href="https://doi.org/10.21608/ejs.2020.148115">https://doi.org/10.21608/ejs.2020.148115</a>	1
	<b><u>M. Y. Salem.</u></b>	2020	<i>American Research Journal of Physics</i>	Influence of Cu Addition on the Transient Creep Characteristics of Sn-9Zn-1.5Ag Solder Alloy;	2
	<b><u>M. Y. Salem;</u></b>	2020	<i>American Research Journal of Physics;</i>	Study of Transient creep Characteristics of Zinc-40Aluminium And Zinc-90Aluminium <a href="https://doi.org/10.21608/ejs.2021.66610.1003">https://doi.org/10.21608/ejs.2021.66610.1003</a>	3
	<b><u>M. Y. Salem;</u></b>	2021	<i>Egypt. J. Solids;</i>	Effect of Zinc on the Tensile Properties, Microstructure and characteristics in Aluminium Alloys. <a href="https://doi.org/10.21608/ejs.2021.66610.1003">https://doi.org/10.21608/ejs.2021.66610.1003</a>	4

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	<u>Gena M.A.H, Khalid. M .El-Shahat, M.Y. Salem and Atef. El-Taher;</u>	2021	<i>Iranian Journal of Medical Physics;</i>	Use of Amorphous Silicon (ASi) Electronic Portal Imaging Devices for Other applications for Linear Accelerator Quality <a href="https://doi.org/10.22038/ijmp.2020.45434.1701">https://doi.org/10.22038/ijmp.2020.45434.1701</a>	5
	<u>M.Y.Salem, Manal A. Maher;</u>	2022	<i>Egypt J. Solids</i>	Effect of Copper and Copper oxide Nanoparticles on The Transient Creep Properties of Sn-4Zn alloy. <a href="https://doi.org/10.21608/ejs.2022.155017.1039">https://doi.org/10.21608/ejs.2022.155017.1039</a>	6
	<u>M.Y.Salem;</u>	2021	<i>American Research Journal of Physics</i>	<b>Influence of addendum of Graphene Oxide (GO) Nanoparticles on the deformation temperature and tensile properties of Tin-3.5Antimony-3.5 Silver lead free solder ternary alloy</b> <a href="https://doi.org/10.21608/ajnsa.2018.2952.1061(2019)">doi.org/10.21608/ajnsa.2018.2952.1061(2019)</a>	7
	<u>M.Y.Salem;</u>	2022	<i>Global Journal of Science Frontier Research: A Physics and Space Science</i>	Influence about Zinc for Transient; Steady State Creep Properties, Microstructure and Characteristics in Aluminum Alloys <a href="http://dx.doi.org/10.18576/ijnhp/040201">http://dx.doi.org/10.18576/ijnhp/040201</a>	8
	<u>M.Y.Salem;</u>	2021	<i>Journal of Materials Science and Chemical Engineering</i>	<b>Influence of Copper, Silver addition on Transient and steady state creep characteristics and deformation temperature of Tin-5 Antimony solder alloy</b>	9
	K Salahel Din, <b>W Rashed</b>	2021	Radiation Protection Dosimetry	Assessment of norm levels and radiological hazards from petroleum extraction in the onshore oil fields, Egypt <a href="https://doi.org/10.1093/rpd/ncab099">https://doi.org/10.1093/rpd/ncab099</a>	1

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	W Rashed, KS Din, M Youssef	2021	Isotopes in Environmental and Health Studies	Natural radioactivity levels in benthic foraminifera <i>Sorites marginalis</i> as a pollution indicator. <a href="https://doi.org/10.1080/10256016.2021.1974854">https://doi.org/10.1080/10256016.2021.1974854</a>	2
	EAH Adel, SH Taha, OA Ebyan, WM Rashed, MG El-Feky, MS Alqahtani, ...	2022	Toxics	Natural Radioactivity Assessment and Radiation Hazards of Pegmatite as a Building Material, Hafafit Area, Southeastern Desert, Egypt <a href="https://doi.org/10.3390/toxics10100596">https://doi.org/10.3390/toxics10100596</a>	3
د. رشا محمد امين محمد نصار					
4.45	M. Rashad a,b,*, N.M. Shaalan a,c, A.A.I. Abd-Elmageed d, R. Amin d, M.M. Hafiz a, A. A. Abu-Sehly	2021	Journal of Non Crystalline Solids	Extensive thermal study of sulfur dopants effects on the selenium tellurium glasses. <a href="https://doi.org/10.1016/j.jnoncrysol.2020.120630">https://doi.org/10.1016/j.jnoncrysol.2020.120630</a>	1
3.75	A.A. Abu-Sehly, M. Rashad ,M.M. Hafiz , A.A.I. Abd-Elmageed , R. Amin	2020	Optical Materials	Tuning optical properties of thin films based on selenium tellurium <a href="https://doi.org/10.1016/j.optmat.2020.110291">https://doi.org/10.1016/j.optmat.2020.110291</a>	2
2.84	M. Rashad, N.M. Shaalan, A.A.I. Abd-Elmageed, R. Amin, M.M. Hafiz a, A. A. Abu-Sehly.	2021	Optik	The effects of different dopant on the optical parameters for selenium tellurium thin films. <a href="https://doi.org/10.1016/j.ijleo.2020.166102">https://doi.org/10.1016/j.ijleo.2020.166102</a>	3
2.04	M. RASHAD, R. AMIN, S.A. AL-GHAMDI, M.M. HAFIZ, and ALAA M. ABD-ELNAIEM	2021	Journal of ELECTRONIC MATERIALS	Improving the Electrical Parameters of Se <sub>80</sub> Te <sub>20</sub> Films by the Sn Substitution for Te and Thermal-Induced Effect. <a href="https://doi.org/10.1007/s11664-020-08674-x">https://doi.org/10.1007/s11664-020-08674-x</a>	4



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<b>د. عصام محمد صديق محمد</b>					
	E. Sidique, M. A. Elhaddad, S. F. Abdelwahab, and H. H. El Hadek	2021	Applied Sciences	Health Hazards Assessment and Geochemistry of ElSibai- Abu ElTiyur Granites, Central Eastern Desert, Egypt <a href="https://doi.org/10.3390/app112412002">https://doi.org/10.3390/app112412002</a>	1
	G. Salaheldin, M. Elhaddad, and E. Sidique	2022	Arabian Journal of Geosciences	Radon concentration and exhalation rate for granitic rocks, Central Eastern Desert, Egypt, <a href="https://doi.org/10.1007/s12517-022-09693-0">https://doi.org/10.1007/s12517-022-09693-0</a>	2
	E. Sidique, S. H. A. Hassan, and M. M. Dawoud	2022	Sustainability	Natural Radioactivity Measurements and Radiological Hazards Evaluation for Some Egyptian Granites and Ceramic Tiles <a href="https://doi.org/10.3390/su142114611">https://doi.org/10.3390/su142114611</a>	3
<b>أ.د عمرو عبدالله إبراهيم عبدالمجيد</b>					
	Rashad, M., Shaalan, N.M., Abd-Elmageed, A.A.L., ...Hafiz, M.M., Abu-Sehly, A.A.	2021	Optik	The effects of different dopant on the optical parameters for selenium tellurium thin films <a href="https://doi.org/10.1016/j.ijleo.2020.166102">https://doi.org/10.1016/j.ijleo.2020.166102</a>	1
	Rashad, M., Shaalan, N.M., Abd-Elmageed, A.A.L., ...Hafiz, M.M., Abu-Sehly, A.A.	2021	Journal of Non-Crystalline Solids	Extensive thermal study of sulfur dopants effects on the selenium tellurium glasses. <a href="https://doi.org/10.1016/j.jnoncrysol.2020.120630">doi.org/10.1016/j.jnoncrysol.2020.120630</a>	2
	A.A.I.Abed-Elmageed, M. Sh. Zoromba, Reda Hassaniien, A.F.Al-Hossainy	2020	Optical Materials	Facile synthesis of spin-coated poly (4-nitroaniline) thin film: Structural and optical properties <a href="https://doi.org/10.1016/j.optmat.2020.110378">https://doi.org/10.1016/j.optmat.2020.110378</a>	3

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	A. A. Abu-Sehly, M. Rashad, M. M. Hafiz, <b>A. A. I. Abd-Elmageed</b> , R. Amin	2020	Optical Materials	Tuning optical properties of thin films based on selenium tellurium <a href="https://doi.org/10.1016/j.optmat.2020.110291">https://doi.org/10.1016/j.optmat.2020.110291</a>	4
	<b>A. I. Abdelmegeed</b>	2020	Journal of Electronic Materials	Biofabrication and Structural Characterization of Cd-Nanoparticles Using Moringa Oleifera Extract <a href="https://doi.org/10.1007/s11664-020-08004-1">https://doi.org/10.1007/s11664-020-08004-1</a>	5
	<b>A. A. I. Abd-Elmageed</b> , S. M. Ibrahim, A. Bourezgui and A. F. Al-Hossainy	2020	New J Chem.	Synthesis, DFT studies, fabrication, and optical characterization of the [ZnCMC]TF polymer (organic/inorganic) as an optoelectronic device <a href="https://doi.org/10.1039/D0NJ01719A">DOI: 10.1039/D0NJ01719A</a>	6
	Samia M. Ibrahim, A. Bourezgui, <b>A. I. Abd-Elmageed</b> , I. Kacem, Ahmed F. Al-Hossainy	2020	Journal of Materials Science: Materials in Electronics	Structural and optical characterization of novel [ZnKCMC] <sup>TF</sup> for optoelectronic device applications <a href="https://doi.org/10.1007/s10854-020-03404-9">https://doi.org/10.1007/s10854-020-03404-9</a>	7
	<b>A.A.I.Abd-Elmageed</b> , A.F.Al-Hossainy, E.M.Fawzy, N.Almutlaq, M.R.Eid, A.Bourezgui, S.M.S.Abdel-Hamid, N.B.Elsharkawy, M.Zwawi, M.H.Abdel-Aziz, M.Bassyouni, A.B.Slimane, M. Sh. Zoromba	2020	Optical Materials	Synthesis, characterization and DFT molecular modeling of doped poly (para-nitroaniline-co-para-toluidine) thin film for optoelectronic devices applications <a href="https://doi.org/10.1016/j.optmat.2019.109593">https://doi.org/10.1016/j.optmat.2019.109593</a>	8

محمد صلاح حسن إبراهيم الخولى

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
	M. S. El-khooly, A. S. Abdraboh, A. M. Bakr & K. H. T. Ereiba	2023	Egyptian Journal of Biomedical Engineering and Biophysics	Preparation of a Mixture of Bioglass/ Sodium Alginate Doped with Silver Incorporated with Graphene Oxide. <a href="https://doi.org/10.21608/EJBBE.2023.184969.1061">https://doi.org/10.21608/EJBBE.2023.184969.1061</a>	1
3.5	M. S. El-khooly, A. S. Abdraboh, A. M. Bakr & K. H. T. Ereiba	2023	Silicon	Bioactivity and Mechanical Properties Characterization of Bioactive Glass Incorporated with Graphene Oxide. <a href="https://doi.org/10.1007/s12633-022-02088-6">Doi: 10.1007/s12633-022-02088-6</a>	2
	Mohamed El-khooly	2022	IntechOpen <i>Journals</i>	"Drug Delivery of Corticosteroids" chapter On book "Updates on Corticosteroids" <a href="https://doi.org/10.5772/intechopen.109085">https://doi.org/10.5772/intechopen.109085</a>	3
3.5	Raboh, A.S.A., El-khooly, M.S. & Hassaan, M.Y.	2021	Journal of Inorganic and Organometallic Polymers and Materials	Bioactivity and Drug Release Study of Dexamethasone Loaded Bioglass/Chitosan Composites for Biomedical Applications <a href="https://doi.org/10.1007/s10904-021-01936-z">https://doi.org/10.1007/s10904-021-01936-z</a>	4
	H. G. Abdelwahed, E. K. El-Shewy, <a href="#">A. A. El-Rahman</a> , and N. F. Abdo	2020	Advances in Space Research	Nonthermal effects on the cylindrical dusty ion shocks in nonthermal viscous space <a href="https://doi.org/10.1016/j.asr.2019.09.051">https://doi.org/10.1016/j.asr.2019.09.051</a>	1
	<a href="#">A. A. El-Rahman</a>	2020	Physica Scripta	Effects of positron and two ion masses on the critical behaviour in superthermal collisional plasmas <a href="https://doi.org/10.1088/1402-4896/ab7aa9">https://doi.org/10.1088/1402-4896/ab7aa9</a>	2

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
	H. G. Abdelwahed, R. Sabry, and <a href="#">A. A. El-Rahman</a>	2020	Advances in Space Research	On the positron superthermality and ionic masses contributions on the wave behaviour in collisional space plasma <a href="https://doi.org/10.1016/j.asr.2020.03.046">https://doi.org/10.1016/j.asr.2020.03.046</a>	3
	H. G. Abdelwahed, E. K. El-Shewy, <a href="#">A. A. El-Rahman</a> , and N. F. Abdo	2021	Indian Journal of Physics	<b>Cylindrical shock potentials in non-extensive space plasmas</b> <a href="https://doi.org/10.1007/s12648-019-01658-6">https://doi.org/10.1007/s12648-019-01658-6</a>	4
	H. G. Abdelwahed, A. M. El-Hanbaly, R. Sabry, <a href="#">A. A. El-Rahman</a>	2021	Indian Journal of Physics	Effects of the ionic masses and positron density on the damped behavior in nonthermal collisional plasmas <a href="https://doi.org/10.1007/s12648-020-01831-2">https://doi.org/10.1007/s12648-020-01831-2</a>	5
	H. G. Abdelwahed, E. K. El-Shewy, Mahmoud A. E. Abdelrahman, <a href="#">A. A. El-Rahman</a>	2021	Advances in Space Research	Positron nonextensivity contributions on the rational solitonic, periodic, dissipative structures for MKP equation described critical plasmas <a href="https://doi.org/10.1016/j.asr.2021.02.015">https://doi.org/10.1016/j.asr.2021.02.015</a>	6
	H. G. Abdelwahed, R. Sabry, <a href="#">A. A. El-Rahman</a>	2021	Chinese Journal of Physics	Electron and positron nonthermality effects on the formation of damped solitons in collisional multi-component plasmas <a href="https://doi.org/10.1016/j.cjph.2021.03.022">https://doi.org/10.1016/j.cjph.2021.03.022</a>	7
	A. M. Awad, M. S. Badr, <a href="#">A. A. El-Rahman</a>	2021	Results in Physics	The steady-state of probe susceptibility in a four-level N-type atomic system with a squeezed vacuum field <a href="https://doi.org/10.1016/j.rinp.2021.104977">https://doi.org/10.1016/j.rinp.2021.104977</a>	8
	H. G. Abdelwahed, E. K. El-Shewy, Mahmoud A. E. Abdelrahman, S. Alghanim, A. F. Alsarhan, <a href="#">A. A. El-Rahman</a>	2022	Chinese Journal of Physics	The nonextensive effects on the supersoliton structure in critical plasma state <a href="https://doi.org/10.1016/j.cjph.2021.12.003">https://doi.org/10.1016/j.cjph.2021.12.003</a>	9

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
	Mahmoud Hassanain, <a href="#">Ali Abd El-Rahman</a>	2022	Journal of Taibah University for Science	On the nonextensivity contributions in collisional plasma damping waves <a href="https://doi.org/10.1080/16583655.2022.2099723">https://doi.org/10.1080/16583655.2022.2099723</a>	10
14.51	<a href="#">Mostafa Afifi Hassan</a> , Aadil Waseem, Muhammad Ali Johar, Indrajit V Bagal, Jun-Seok Ha, Sang-Wan Ryu	2020	Journal of Materials Chemistry A	Single-step fabrication of 3D hierarchical ZnO/ZnS heterojunction branched nanowires by MOCVD for enhanced photoelectrochemical water splitting <a href="https://doi.org/10.1039/C9TA13714A">https://doi.org/10.1039/C9TA13714A</a>	1
5.59	Muhammad Ali Johar, Taeyun Kim, Hyun-Gyu Song, Aadil Waseem, Jin-Ho Kang, <a href="#">Mostafa Afifi Hassan</a> , Indrajit V Bagal, Yong-Hoon Cho, Sang-Wan Ryu	2020	Nanoscale Advances	Three-dimensional hierarchical semi-polar GaN/InGaN MQW coaxial nanowires on a patterned Si nanowire template <a href="https://doi.org/10.1039/D0NA00115E">https://doi.org/10.1039/D0NA00115E</a>	2
2.35	<a href="#">Mostafa Afifi Hassan</a> , Aadil Waseem, Muhammad Ali Johar, Sou Young Yu, June Key Lee, Jun-Seok Ha, Sang-Wan Ryu	2020	Thin Solid Films	Optical characterization of type-II ZnO/ZnS multiple quantum wells grown by atomic layer deposition <a href="https://doi.org/10.1016/j.tsf.2019.137740">https://doi.org/10.1016/j.tsf.2019.137740</a>	3
2.17	Aadil Waseem, Muhammad Ali Johar, <a href="#">Mostafa Afifi Hassan</a> , Indrajit V Bagal, Jun-Seok Ha, June Key Lee, Sang-Wan Ryu	2020	Physica status solidi (a)	Cu <sub>2</sub> O Heterostructured GaN Thin Film and GaN Nanowire Piezoelectric Nanogenerators <a href="https://doi.org/10.1002/pssa.201900798">https://doi.org/10.1002/pssa.201900798</a>	4
6.14	Indrajit V Bagal, Ammara Ejaz, Aadil Waseem, Muhammad Ali Johar, <a href="#">Mostafa Afifi Hassan</a> , Jong Hun Han, Sang-Wan Ryu	2020	ACS Applied Nano Materials	Three-Dimensional Integration of CuO-Si Hierarchical Nanowires for Electrochemical Detection of N <sub>2</sub> H <sub>4</sub> <a href="https://doi.org/10.1021/acsnm.0c00501">https://doi.org/10.1021/acsnm.0c00501</a>	5

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
8.66	Muhammad Ali Johar, Hyun-Gyu Song, Aadil Waseem, <b>Mostafa Afifi Hassan</b> , Indrajit V Bagal, Yong-Hoon Cho, Sang-Wan Ryu	2020	Applied Materials Today	Universal and scalable route to fabricate GaN nanowire-based LED on amorphous substrate by MOCVD <a href="https://doi.org/10.1016/j.apmt.2019.100541">https://doi.org/10.1016/j.apmt.2019.100541</a>	6
3.75	Muhammad Ali Johar, Aadil Waseem, Hyun-Gyu Song, <b>Mostafa Afifi Hassan</b> , Indrajit V Bagal, Yong-Hoon Cho, Sang-Wan Ryu	2020	Optical Materials	Growth of a-axial GaN core nanowires, semi-polar (11 $\bar{0}$ 1) GaN/InGaN multiple quantum well co-axial nanowires on Si substrate, and their carrier dynamics <a href="https://doi.org/10.1016/j.optmat.2020.109854">https://doi.org/10.1016/j.optmat.2020.109854</a>	7
4.13	Muhammad Ali Johar, Aadil Waseem, <b>Mostafa Afifi Hassan</b> , Indrajit V Bagal, Ameer Abdullah, Jun-Seok Ha, June Key Lee, Sang-Wan Ryu	2020	ACS omega	Epitaxial Growth of GaN Core and InGaN/GaN Multiple Quantum Well Core/Shell Nanowires on a Thermally Conductive Beryllium Oxide Substrate <a href="https://doi.org/10.1021/acsomega.0c02411">https://doi.org/10.1021/acsomega.0c02411</a>	8
13.59	Tian-Feng Hou, Muhammad Ali Johar, Ramireddy Boppella, <b>Mostafa Afifi Hassan</b> , Swati J Patil, Sang-Wan Ryu, Dong-Weon Lee	2020	Journal of Energy Chemistry	Vertically aligned one-dimensional ZnO/V <sub>2</sub> O <sub>5</sub> core-shell hetero-nanostructure for photoelectrochemical water splitting <a href="https://doi.org/10.1016/j.jechem.2020.02.004">https://doi.org/10.1016/j.jechem.2020.02.004</a>	9

## أبحاث قسم الفيزياء 2020-2023

I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
29.71	Muhammad Ali Johar, Aadil Waseem, <b>Mostafa Afifi Hassan</b> , Indrajit V Bagal, Ameer Abdullah, Jun-Seok Ha, Sang-Wan Ryu	2020	Advanced Energy Materials	Highly Durable Piezoelectric Nanogenerator by Heteroepitaxy of GaN Nanowires on Cu Foil for Enhanced Output Using Ambient Actuation Sources  <a href="https://doi.org/10.1002/aenm.202002608">https://doi.org/10.1002/aenm.202002608</a>	10
4.13	Aadil Waseem, Muhammad Ali Johar, <b>Mostafa Afifi Hassan</b> , Indrajit V Bagal, Ameer Abdullah, Jun-Seok Ha, June Key Lee, Sang-Wan Ryu	2021	ACS omega	GaN Nanowire Growth Promoted by In–Ga–Au Alloy Catalyst with Emphasis on Agglomeration Temperature and In Composition  <a href="https://doi.org/10.1021/acsomega.0c05587">https://doi.org/10.1021/acsomega.0c05587</a>	11
4.77	Santosh S Patil, Muhammad Ali Johar, <b>Mostafa Afifi Hassan</b> , Aadil Waseem, Indrajit V Bagal, Diksha E Shinde, Sang-Wan Ryu	2021	Materials Chemistry and Physics	Synergic effect of ZnO nanostructures and cobalt phosphate co-catalyst on photoelectrochemical properties of GaN  <a href="https://doi.org/10.1016/j.matchemphys.2020.124141">https://doi.org/10.1016/j.matchemphys.2020.124141</a>	12
5.53	Arunkumar Shanmugasundaram, Muhammad Ali Johar, Ramireddy Boppella, Dong-Su Kim, Yun-Jin Jeong, Jong Yun Kim, <b>Mostafa Afifi Hassan</b> , Sang-Wan Ryu, Dong Weon Lee	2021	Ceramics International	Stabilizing nanocrystalline Cu <sub>2</sub> O with ZnO/rGO: Engineered photoelectrodes enables efficient water splitting  <a href="https://doi.org/10.1016/j.ceramint.2020.11.094">https://doi.org/10.1016/j.ceramint.2020.11.094</a>	13

## أبحاث قسم الفيزياء 2023-2020

I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
6.37	Aadil Waseem, Muhammad Ali Johar, <b>Mostafa Afifi Hassan</b> , Indrajit V Bagal, Jun-Seok Ha, June Key Lee, Sang-Wan Ryu	2021	Journal of Alloys and Compounds	GaN/Al <sub>2</sub> O <sub>3</sub> core-shell nanowire based flexible and stable piezoelectric energy harvester <a href="https://doi.org/10.1016/j.jallcom.2020.158545">https://doi.org/10.1016/j.jallcom.2020.158545</a>	14
6.37	Aadil Waseem, Muhammad Ali Johar, <b>Mostafa Afifi Hassan</b> , Indrajit V Bagal, Ameer Abdullah, Jun-Seok Ha, June Key Lee, Sang-Wan Ryu	2021	Journal of Alloys and Compounds	Flexible self-powered piezoelectric pressure sensor based on GaN/p-GaN coaxial nanowires <a href="https://doi.org/10.1016/j.jallcom.2021.159661">https://doi.org/10.1016/j.jallcom.2021.159661</a>	15
16.74	Indrajit V Bagal, Nilesh R Chodankar, Aadil Waseem, Muhammad Ali Johar, Swati J Patil, Ameer Abdullah, <b>Mostafa Afifi Hassan</b> , Young-Kyu Han, Sang-Wan Ryu	2021	Chemical Engineering Journal	CF <sub>4</sub> plasma-treated porous silicon nanowire arrays laminated with MnO <sub>2</sub> nanoflakes for asymmetric pseudocapacitors <a href="https://doi.org/10.1016/j.cej.2021.129515">https://doi.org/10.1016/j.cej.2021.129515</a>	16
3.40	Ameer Abdullah, Muhammad Ali Johar, Aadil Waseem, Indrajit V Bagal, <b>Mostafa Afifi Hassan</b> , June Key Lee, Sang-Wan Ryu	2022	Materials Science and Engineering: B	Unbiased solar water splitting of GaN photoanodes with Au nanoparticles supported by plasmon-assisted hot-carrier transfer <a href="https://doi.org/10.1016/j.mseb.2021.115514">https://doi.org/10.1016/j.mseb.2021.115514</a>	17



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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
د. سماح احمد محمد احمد الشلقامى					
	M Monazie, A. Abdel-Latif M, Ahmed M. Al Kaisy, A.F. Tawfic, <b>Samah A. Al-Shelkamy.</b>	2023	Applied Radiation and Isotopes	Shielding and dosimetry parameters for aluminum carbon steel. <a href="https://doi.org/10.1016/j.apradiso.2023.111022">https://doi.org/10.1016/j.apradiso.2023.111022</a>	1
	<b>Al-Shelkamy, S. A.</b> , Vega-Carrillo, H. R., Xie, Z., El-Hossary, F. M., Mosa, E. S., Mahdy, A. A., ... & Ghafaar, M. A.	2023	Applied Radiation and Isotopes	Mechanical and radiation shielding characterization of W-based alloys for advanced nuclear unit. <a href="https://doi.org/10.1016/j.apradiso.2023.110995">https://doi.org/10.1016/j.apradiso.2023.110995</a> .	2
	Majed H. Moosa, Mohamed Abu-Okail, Ahmed Abu-Oqail, <b>Samah A. Al-Shelkamy</b> , W. M. Shewakh and M. Abdel Ghafaar.	2023	polymers	Structural and Tribological Characterization of <b>Glass and Carbon Fabrics Reinforced Epoxy for Bushing Applications Safety</b> <a href="https://doi.org/10.3390/polym15092064">https://doi.org/10.3390/polym15092064</a> .	3
1.78	<b>Samah A. Al-Shelkamy</b> , Hassan M. Abu Hashish, E. Salama	2022	Applied Radiation and Isotopes	Influence of heat treatment on the mechanical and the lubricant wear characteristics of stainless-steel grades against 5 wt% NaCl as industrial shielding materials <a href="https://doi.org/10.1016/j.apradiso.2022.110361">https://doi.org/10.1016/j.apradiso.2022.110361</a>	4
6.5	Mohammed S. Saddik ,Mahmoud M. A.Elsayed,Amayn A. Abdel-Rheem ,Mohamed A. El-Mokhtar ,Eisa S. Mosa ,Mostafa F. Al-Hakkani , <b>Samah A. Al-Shelkamy</b>	2022	pharmaceutics	A Novel C@Fe@Cu Nanocomposite Loaded with Doxorubicin Tailored for the Treatment of Hepatocellular Carcinoma <a href="https://doi.org/10.3390/pharmaceutics14091845">https://doi.org/10.3390/pharmaceutics14091845</a>	5

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
	,Ali Khames ,Mohamed A. Daha and Jelan A. Abdel-Aleem .				
6.5	Mohammed S. Saddik, Mahmoud M. A. Elsayed ,Mohamed A. El-Mokhtar ,Haitham Sedky,Jelan A. Abdel-Aleem,Ahmed M. Abu-Dief,Mostafa F. Al-Hakkani ,Hazem L. Hussein , <b>Samah A. Al Shelkamy</b> ,Fatma Y. Meligy ,Ali Khames and Heba A. Abou-Taleb	2022	pharmaceutics	<b>Tailoring of Novel Azithromycin-Loaded Zinc Oxide Nanoparticles for Wound Healing</b>  <a href="https://doi.org/10.3390/pharmaceutics14010111">https://doi.org/10.3390/pharmaceutics14010111</a>	6
3.2	<b>Samah A. Al-Shelkamy</b> , Hassan M. Abu Hashish and Amir A. Mahdy	2021	Coatings	<b>Structural and Tribological Properties of Heat-Treated Stainless Steels against Abrasive and Lubricant Wear Conditions</b>  <a href="https://doi.org/10.3390/coatings11121473">https://doi.org/10.3390/coatings11121473</a>	7
5.2	Mostafa F. Al-Hakkani , Sedky H.A. Hassan , Mohammed S. Saddik , Mohamed A. El-Mokhtar , <b>Samah A. Al-Shelkamy</b>	2021	Journal of Materials Research and Technology	<b>Bioengineering, characterization, and biological activities of C@Cu<sub>2</sub>O@Cu nanocomposite based-mediated the Vicia faba seeds aqueous extract</b>  <a href="https://doi.org/10.1016/j.jmrt.2021.07.076">https://doi.org/10.1016/j.jmrt.2021.07.076</a>	8
أ.د محمود احمد حسنين محمد					

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
	Zakaria M. M. Mahmoud, <u>Mahmoud A Hassanien</u>	2020	Physics of Atomic Nuclei	Analytical Potential for Energy Range between 6 and 280 MeV <a href="https://doi.org/10.1134/S106377882003014X">https://doi.org/10.1134/S106377882003014X</a>	1
	A. Hemmdan, Fatma O. M. Al Mahmody and <u>M. A. Hassanain</u>	2021	The physical society of Japan	Coupled Channels and Cluster Folding Analysis of the Elastic and Inelastic $^{12}\text{C}+^{12}\text{C}$ Scattering up to High Energies <a href="https://doi.org/10.7566/JPSJ.90.094201">https://doi.org/10.7566/JPSJ.90.094201</a>	2
	A.Hemmdan, <u>M. A. Hassanain</u> , M. Anwar and Kassem O. Behairy	2021	Phys. Rev. C	Analysis of elastic and inelastic scattering of $^{20}\text{Ne}$ on $^{76}\text{Ge}$ at 306 MeV <a href="https://doi.org/10.1103/PhysRevC.104.044604">https://doi.org/10.1103/PhysRevC.104.044604</a>	3
	<u>Mahmoud Hassanain</u> , Ali Abd El-Rahman	2022	Journal of Taibah University for Science	On the nonextensivity contributions in collisional plasma damping waves <a href="https://doi.org/10.1080/16583655.2022.2099723">https://doi.org/10.1080/16583655.2022.2099723</a>	4
<b>د. شهاب البلتاجي محروس أحمد</b>					
<u>5</u>	Shehab Elbeltagia*, Haifa E. Alfassamb, Ahmad M. Saeedic, Zienab E. Eldind,e, Eslam M. Ibrahimf, Abo bakr Abdel shakorg, Mohamed Abd El-Aalh	2023	Journal of Drug Delivery Science and Technology	A novel quercetin-loaded NiFe <sub>2</sub> O <sub>4</sub> @Liposomes hybrid biocompatible as a potential chemotherapy/hyperthermia agent and cytotoxic effects on breast cancer cells <a href="https://doi.org/10.1016/j.jddst.2023.105203">https://doi.org/10.1016/j.jddst.2023.105203</a>	1

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	الرقم
2.7	Shehab Elbeltagi, Ahmad M. Saeedi, Maha A. Ali, Samaa I. El-Dek	2023	Applied Physics A	Magnetic fluid hyperthermia controlled by frequency counter and colorimetric program systems based on magnetic nanoparticles <a href="https://doi.org/10.1007/s00339-023-06825-5">https://doi.org/10.1007/s00339-023-06825-5</a>	2
5	BahigA. Eldeeb, Walaa M.Abd El-Raheem & Shehab Elbeltagi	2023	Scientific Reports	Green synthesis of biocompatible Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles using Citrus Sinensis peels extract for their biological activities and magnetic-hyperthermia applications <a href="https://doi.org/10.1038/s41598-023-46287-6">https://doi.org/10.1038/s41598-023-46287-6</a>	3
د. محمد عبد النبي عبد العظيم غنيم					
	M. A. Ghoneim	2023	Mansoura Journal of PHYSICS	Optimization of Pinhole Collimator Patterns for Gamma Camera System: A Gate Simulation Study	1
د. سعاد حمدالله جامع آدم					
لا يوجد					
د. جمال مصطفى محمد محمد شريت					
لا يوجد					
د. محمد تاج الدين مصطفى					
لا يوجد					