

## Physics publications, College of Science, Majmaah University

### Publications in 2013

	<b>Publication title</b>	<b>Authors</b>	<b>Journal / Conference name</b>
1	Ultrasonic relaxation in Zinc Borate glasses	Mohammad Jaafar et. al.	Current Applied Physics
2	Structural studies and mechanical properties of some borate glasses doped with different alkali and cobalt oxides	Mohammad Jaafar et. al.	Current Applied Physics

### Publications in 2014

	Publication title	Authors	Journal / Conference name
1	Investigation of possible correlation between $\alpha$ -particle preformation probability and energy levels for $\alpha$ emitters with $74 \leq Z \leq 83$	Ahmad Adel et. al.	Physical Review C
2	Effect of deformation parameters, Q value, and finite-range N N force on $\alpha$ -particle preformation probability	Ahmad Adel et. al.	Physical Review C
3	Natural radioactivity distribution of southern part of Jordan (Ma'an) Soil	Mohammad Abu Shayeb et. al.	Annals of Nuclear Energy
4	Structural investigations on some cadmium-borotellurate glasses using ultrasonic, FT-IR and X-ray techniques	Mohammad Jaafar et. al.	Journal of Alloys and Compounds
5	Simulation of acoustic properties of some tellurite glasses	Mohammad Jaafar et. al.	Ceramics International
6	Study of rigidity of semiconducting vanadate glasses and its importance in use of coatings	Mohammad Jaafar et. al.	Bulletin of Materials Science
7	Polymer nanocomposites part 1 Structural characterization of zinc oxide nanoparticles synthesized via novel calcination method	Mohammad Jaafar et. al.	Journal of Thermoplastic Composite Materials
8	Prediction of ultrasonic parameters at low temperatures for tellurite glasses using ANN	Mohammad Jaafar et. al.	Chalcogenide Letters
9	Determination of Ultrasonic Velocities Theoretically for Tellurite Glasses Using Makishima and Mackenzie Model	Mohammad Jaafar et. al.	Journal of Engineering and Applied Sciences
10	Architecture of industrial Automation systems	Abdo Idris et. al.	European Scientific Journal
11	Measurement Systems: Characteristics And Models	Abdo Idris et. al.	European Scientific Journal
12	Development Of Solar Thermoelectric	Abdo Idris et. al.	European Scientific Journal

## Publications in 2015

	Publication title	Authors	Journal / Conference name
1	On magic numbers for super- and ultraheavy systems and hypothetical spherical double-magic nuclei	Ahmad Adel et. al.	Journal of Physics G
2	Fine structure in $\alpha$ decay of even-even nuclei using a finite-range nucleon-nucleon interaction	Ahmad Adel et. al.	Physical Review C
3	Effect of deformations on the binding energy of centrally depressed nuclei	Ahmad Adel et. al.	Journal of Physics G
4	Population Inversion and X-Ray Laser Gain by Electron Impact Excitation of Ni-Like Tin	Mahmoud M. et. al.	American Journal of Optics and Photonics
5	Morphology-controlled Synthesis of Single Crystalline $\alpha$ -Mn <sub>2</sub> O <sub>3</sub> Sea-Urchins Assembled with Pen-type Nanoneedles and Broad Absorption Spectrum	Muhammad Arshad Kamran et. al.	Journal of Nano Research
6	Simulation of Acoustic properties of Borate and tellurite glasses	Mohammad Jaafar et. al.	International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering
7	High UV-shielding Performance of Zinc Oxide/High-Density Polyethylene Nanocomposites	Mohammad Jaafar et. al.	Spectroscopy Letters
8	Acoustic relaxation of some lead niobium tellurite glasses	Mohammad Jaafar et. al.	Bulletin of Materials Science
9	Elastic properties of quaternary TeO <sub>2</sub> -ZnO-Nb <sub>2</sub> O <sub>5</sub> -Gd <sub>2</sub> O <sub>3</sub> glasses	Mohammad Jaafar et. al.	Ceramics International
10	Evaluation of bulk modulus and ring diameter of some tellurite glass systems	Mohammad Jaafar et. al.	Chalcogenide Letters
11	Structural Investigation of Na <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Glasses Doped with NdF <sub>3</sub>	Mohammad Jaafar et. al.	International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering
12	Effects of UV radiation and isothermal crystallization on LDPE/MMT nanocomposites	Samer K. Zubaidi et. al.	Journal of Engineering and Applied Sciences
13	Simulation of Acoustic properties of Borate and tellurite glasses	Samer K. Zubaidi et. al.	International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering

## Publications in 2016

	Publication title	Authors	Journal / Conference name
1	Laser Irradiation Effect on the Optical Band Gap of Se <sub>96-x</sub> Te <sub>4</sub> Hg <sub>x</sub> Thin Films	Adam A. Bahishti et.al.	Journal of Modern Materials
2	Laser Irradiation Effect on the Optical Band Gap of Se-Te-Al Thin Films	Adam A. Bahishti et.al.	International Annals of Science
3	Islands of stability and quasi-magic numbers for super-and ultra-heavy nuclei	Ahmad Adel et. al.	Chinese Physics C
4	Nuclear spin of odd-odd $\alpha$ emitters based on the behavior of $\alpha$ -particle preformation probability	Ahmad Adel et. al.	Physical Review C
5	Toward a better parameterization of nuclear density for $\alpha$ -decay calculation	Ahmad Adel et. al.	Nuclear Physics A
6	Structural properties of heavy and superheavy nuclei in a semi-microscopic approach	Ahmad Adel et. al.	International Journal of Modern Physics E
7	Tailoring the electrical and Photo-electrical properties of WS <sub>2</sub> Field effect transistor by selective n-type chemical doping	Muhammad Arshad Kamran et. al.	RSC Advances
8	Synthesis and Photoluminescence of Single-Crystalline Fe(III)-doped CdS Nanobelts.	Muhammad Arshad Kamran et. al.	Journal of Nanoscience and Nanotechnology
9	Bosonic Lasing from Collective Exciton Magnetic Polarons in Diluted Magnetic Nanowires and Nanobelts	Muhammad Arshad Kamran et. al.	ACS Photonics
10	Tunable emission and conductivity enhancement by tellurium doping in CdS nanowires for optoelectronic applications	Muhammad Arshad Kamran et. al.	Physica E
11	Tailoring the electrical and Photo-electrical properties of WS <sub>2</sub> Field effect transistor by selective n-type chemical doping ,	Abdul Majid Abdul Majeed et. al.	RSC Adv.
12	Photodynamic Effect of Ni Nanotubes on an HeLa cell line	Abdul Majid Abdul Majeed et. al.	PLoS ONE
13	Distribution of natural radioactivity and radiological hazard using a NaI(Tl) gamma-ray spectrometric system	Abdul Majid Abdul Majeed et. al.	Journal of Building Physics
14	Synthesis and Photoluminescence of Single-Crystalline Fe(III)-doped CdS Nanobelts	Abdul Majid Abdul Majeed et. al.	. J of Nanoscience and Nanotechnology

15	Tunable emission and conductivity enhancement by tellurium doping in CdS nanowires for optoelectronic applications	Abdul Majid Abdul Majeed et. al.	Physica E: Low-dimensional Systems and Nanostructures
16	Transfer factors for natural radioactivity into date palm pits	Mohammad Abu Shayeb et. al.	Journal of environnemental radioactivité
17	Photon Multiplicity Distributions at Heavy Ion Au+Au, Pb+Au, Pb+Pb Interactions	Mohammad Abu Shayeb et. al.	Journal of modern matériel
18	Distribution of naturalradioactivity and radiologicalhazardusing a NaI (TI) gamma-ray spectrometric system	Mohammad Abu Shayeb et. al.	Journal of building physics
19	Acoustic relaxation of some lithium borate tungstate glasses at low temperatures	Mohammad Jaafar et. al.	Journal of Alloys and Compounds
20	Ultrasonic relaxation of some CdO boro-tellurate glasses	Mohammad Jaafar et. al.	Canadian Journal of Physics
21	Staticcriticalbehavior of the ferromagnetic transition in La <sub>0.67</sub> Ba <sub>0.33-x</sub> Zn <sub>x</sub> MnO <sub>3</sub> magnaites	Samer K. Zubaidi et. al.	Phase Transitions
22	Distribution of naturalradioactivity and radiologicalhazardusing a NaI (TI) gamma-ray spectrometric system	Samer K. Zubaidi et. al.	Journal of Building Physics
23	Studying the Intercalation of LowDensityPolyethylene/Clay NanocompositesafterDifferent UV Exposures	Samer K. Zubaidi et. al.	International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering

### Publications in 2017

	<b>Publication title</b>	<b>Authors</b>	<b>Journal name / Conference name</b>	<b>Link</b>
1	Quantitative analysis of the fusion cross sections using different microscopic nucleus-nucleus interactions	Ahmad Adel et. al.	European Physical Journal A	
2	Cluster decay half-lives of trans-lead nuclei based on a finite-range nucleon-nucleon interaction	Ahmad Adel et. al.	Nuclear Physics A	
3	Alpha-decay of deformed superheavy nuclei as a probe of shell closures	Ahmad Adel et. al.	Nuclear Physics A	
4	La <sub>0.67</sub> Pb <sub>0.33-x</sub> K <sub>x</sub> MnO <sub>3</sub> perovskite synthesized by sol-gel method: the effect of potassium substitution on the magnetic and electrical properties	Samer K. Zubaidi et. al.	Applied Physics A: Materials Science & Processing	