

## CURRICULUM VITAE

### PERSONAL DATA

<b>Name</b>	Mohamed Hassan Eisa Salim
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<b>Position</b>	Professor
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### EDUCATION

Year	Academic Degree	Institution
1992	B. Sc.	University of Khartoum, Sudan
1997	M. Sc.	Nanjing Normal University, China
2005	Ph. D.	Fudan University, China
2010	Post Doctrate	Universiti Sains Malaysia, Malaysia

### WORK EXPERIENCE

Period	Position	Address
04-1992 -04-1994	Teaching Assistant of Physics	Al-Sharg University, Kassala, Sudan
03-1997 -11-1997	Lecturer of Physics	Kassala University, Kassala, Sudan
04-1999- 09-1999	Researcher	Sudan Institute for Natural Sciences (SIFNS) Khartoum, Sudan, Research Unit
10-1999 -08-2000	Lecturer of Physics	Sudan University of Science and Technology, Khartoum, Sudan
2006- 2009	Coordinator of M. Sc of Physics	SUST- Khartoum, Sudan
2009-2010:	Post- Doctorate	School of Physics, Universiti Sains Malaysia, Pinang 11800, Malaysia

2010 (25-10 to 25-11)	Head of Physics Department	Sudan University of Science and Technology, Khartoum, Sudan
12-05-2009-01-11-2012	Lecturer of Physics	Sudan University of Science and Technology, Khartoum, Sudan
01-11-2012- Up to now	Lecturer of Physics	Physics Department, College of Science, Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh, KSA

## RESEARCH INTERESTS

Applied Ion Beam Physics  
Nuclear Techniques  
Accelerator Technology  
Nanomaterials Physics  
Simulation

## PUBLICATIONS

### List of Publications: Selected Papers: Publications in international refereed journals

2023

- [1]. Ayesha Kausar, Ishaq Ahmad, Tingkai Zhao, O. Aldaghri, Khalid H. Ibnaouf and **M. H. Eisa**, Review: Shape Memory Graphene Nanocomposites—Fundamentals, Properties, and Significance, *Processes*: 11, 1171: 11 April 2023 (2023)
- [2]. Ayesha Kausar, Ishaq Ahmad, Tingkai Zhao, O. Aldaghri and **M. H. Eisa**, Review: Graphene in Polymeric Nanocomposite Membranes—Current State and Progress, *Processes*: 11, 927: 18 March (2023)
- [3]. Ayesha Kausar, Ishaq Ahmad, Tingkai Zhao, O. Aldaghri and **M. H. Eisa**, Review: Polymer/Graphene Nanocomposites via 3D and 4D Printing- Design and Technical Potential, *Processes*: 11, 868: 14 March (2023)
- [4]. Ayesha Kausar, Ishaq Ahmad, Tingkai Zhao, **M. H. Eisa**, O. Aldaghri, Meenal Gupta and Patrizia Bocchetta, Review: Green-Synthesized Graphene for Supercapacitors-Modern Perspectives, *Journal of Composites Science*, 7 (3), 08 March (2023), 108
- [5]. Ayesha Kausar, Ishaq Ahmad, Sobia A Rakha, **M. H. Eisa**, Abdoulaye Diallo, Review: State-Of-The-Art of Sandwich Composite Structures: Manufacturing-to-High Performance Applications, *Journal of Composites Science*, 7 (3), 07 March (2023), 102
- [6]. Ayesha Kausar, Ishaq Ahmad, **M. H. Eisa**, Malik Maaza, Review: Graphene Nanocomposites in Space Sector-Fundamentals and Advancements, *C-Journal of Carbon Research*, 9(1), 0 3 March (2023), 29
- [7]. Ayesha Kausar, Ishaq Ahmad, **M. H. Eisa**, Malik Maaza and Hamdullah Khan, Review: Manufacturing Strategies for Graphene Derivative Nanocomposites-Current Status and Fruitions, *Nanomanufacturing*, 3 (1), (2023), 1-19
- [8]. Ayesha Kausar, Ishaq Ahmad, **M. H. Eisa**, Malik Maaza, Review: Avant-Garde Polymer/Graphene Nanocomposites for Corrosion Protection: Design Versatility and Promises, *Corrosion and Materials Degradation*, 4(1), 17 January, (2023) 33-53.

[9]. Ayesha Kausar, Ishaq Ahmad, Tianle Zhu, **M. H. Eisa**, Review: Exigency of Control and Upgradation of Indoor Air Quality-Forefront Advancements towards Nanomaterials, Pollutants, 3 (1), 14 February (2023) 123–149

[10]. Ayesha Kausar, Ishaq Ahmad, Tingkai Zhao, **M. H. Eisa** and O. Aldaghri, Review: Graphene Nanofoam Based Nanomaterials: Manufacturing and Technical Prospects, Nanomanufacturing, 3 (1), 1 February (2023) 37–56

#### 2022

[11]. Ayesha Kausar, Ishaq Ahmad and **M. H. Eisa**, Review: State-of-the-Art of Polymer/Fullerene C60 Nanocomposite Membranes for Water Treatment: Conceptions, Structural Diversity and Topographies, *Membranes*, 13(1),25 December (2022), 27

[12]. Ayesha Kausar, Ishaq Ahmad, Malik Maaza, **M. H. Eisa** and Patrizia Bocchetta, Review: Polymer/Fullerene Nanocomposite for Optoelectronics-Moving toward Green Technology, *Journal of Composites Science*, 6 (12), 16 December (2022), 393

[13]. Ayesha Kausar, Ishaq Ahmad, Malik Maaza, **Mohamed Hassan Eisa**, Patrizia Bocchetta, Review: Cutting-edge Green Polymer/Nanocarbon Nanocomposite for Supercapacitor—State-of-the-Art, *Journal of Composites Science*, 6 (12), 6 December (2022), 376

[14]. Ayesha Kausar, Ishaq Ahmad, Malik Maaza and **M. H. Eisa**, Review: State-of-the-Art Nanoclay Reinforcement in Green Polymeric Nanocomposite: From Design to New Opportunities, *Minerals*, 12(12), 23 November (2022) 1495

[15]. A. A. Ahmed, **M. H. Eisa**, M. D. Abdulla, Study the optical parameters of aluminum doped ZnS films deposited on soda-lime glass substrate, *Chalcogenide Letters*, Vol. 19, No. 9, September (2022), p. 591 – 598

[16]. John Ojur Dennis, Abdullahi Abbas Adam, MKM Ali, Hassan Soleimani, Muhammad Fadhullullah Bin Abd Shukur, KH Ibnaouf, O Aldaghri, **M. H. Eisa**, MA Ibrahim, Abubakar Bashir Abdulkadir, Vipin Cyriac, Substantial proton ion conduction in methylcellulose/pectin/ammonium chloride based solid nanocomposite polymer electrolytes: effect of ZnO nanofiller, *Membranes*, Volume12, Issue 7 (2022), p. 706

[17]. **M. H. Eisa**, MG Faraj, Optical properties of Al-doped with zinc oxide (AZO) thin films with PLD technique, *Digest Journal of Nanomaterials & Biostructures* (DJNB), Volume17, Issue 3 (2022), p. 706

[18]. A. A. Ahmed, O. Aldaghri, Ethar Yahya Salih, Asmiet Ramizy, Nawal Madkhali, Tarfah Alinad, Khalid Hassan Ibnaouf, **M. H. Eisa**, Optical characteristic of Al-doped ZnS thin films using pulsed laser deposition technique: the effect of aluminum concentration, *Chalcogenide Letters*, Vol. 19, No. 6, June (2022), p. 381-388

[19]. Ethar Yahya Salih, Asmiet Ramizy, Osamah Aldaghri, Mohd Faizul Mohd Sabri, Nawal Madkhali, Tarfah Alinad, Khalid Hassan Ibnaouf, **Mohamed Hassan Eisa**, Rapid Synthesis of Hexagonal-Shaped Zn (Al) O- MMO Nanorods for Dye-Sensitized Solar Cell Using Zn/Al-LDH as Precursor, *Nanomaterials* 12 (9), (2022), 1477, <https://doi.org/10.3390/nano12091477>.

[20]. Ethar Yahya Salih, Asmiet Ramizy, Osamah Aldaghri, Mohd Faizul Mohd Sabri, Nawal Madkhali, Tarfah Alinad, Khalid Hassan Ibnaouf, **Mohamed Hassan Eisa**, In-Depth Optical Analysis of Zn (Al)O Mixed Metal Oxide Film-based Zn/Al-Layered Double Hydroxide for TCO Application, *Crystals*, 12 (1), (2022)

[21]. O. Aldaghri, E. Y. Salih, A. Ramizy, M. F. M. Sabri, N. Madkhali, T. Alinad, K. H. Ibnaouf, **M. H. Eisa**, Morphological characteristics of  $\beta$ -irradiated lead oxide nano-sized particles, *Digest Journal of Nanomaterials and Biostructures*, Vol. 17, No. 1, January - March (2022), p. 29 – 37

[22]. M. A. Alalousi, Jamal M. Rzaij, I.M. Ibrahim, A. Ramizy and **M. H. Eisa**, Sensing Enhancement of Gold Nanoparticles Doped-TiO<sub>2</sub> Thin Films as H<sub>2</sub>S Gas Sensor, *Nano Hybrids and Composites*, Vol. 35 (2022), pp 1-10

[23]. Fawzia E. M. Elbashir, Wassim Ksouri, Farouk Habbani, Ahmed El-Khayatt, **Mohamed Hassan Eisa**, Ibrahim I. Suliman, Analysis of Uncertainties in clinical high energy photon beam calibrations using absorbed dose standards, *Applied Physics*, 12, 3857, 11 April (2022)

[24]. Fawzia E. M. Elbashir, Wassim Ksouri, **Mohamed Hassan Eisa**, Sitah Alanazi, Farouk Habbani, Abdelmoneim Sulieman, David A. Bradley, and Ibrahim I. Suliman, Comparison of Dosimetry Protocols for Electron Beam Radiotherapy Calibrations and Measurement Uncertainties, *Life*, January (2022)

#### 2021

[25]. Ibrahim Idris Suliman, Sawsan Mohamed, Alaa Mahadi, Einas Bashier, A Farah, Nada Hassan, Nada Ahmed, **Mohamed H. Eisa**, Ahmed El-Khayatt, Salem Sassi, Analysis of Average Glandular Dose (AGD) and Associated Parameters for Conventional and Digital X-Ray Mammography, (2021)

[26]. **M. H. Eisa** and A. A. Ahmed, Structural Characterization of Synthesized Al-Doped ZnS Nanoparticles Deposited on Glass Substrate, *Journal of Chalcogenide Letters*, Vol. 18, No. 12, December (2021), p. 783-789

[27]. M. E. Ali, A. A. Alfaki, A. S. Mohammed, H. H. Abuelhassan, A. A. Qurtam, Kh. M. Haroun, **M. H. Eisa**, Synthesis and characterization of carbon nanotubes incorporated with MgO nanoparticles, *Journal of Ovonic Research*, Vol. 17, No. 5, September–October (2021), p 429 – 435

[28]. Adam S. Abdalla, Suliman Alameen, **M. H. Eisa** and O Aldaghri, Electronic and magnetic properties of Fe-doped GaN: First principle calculations, *Zeitschrift für Naturforschung A*, ZNA: vol:76 (2021), iss:03

[29]. M. S. ABDELRAHIM, KH. M. HAROUN, A. H. ALFAKI, H. S. BUSH, O ALDAGHRI, **M. H. EISA**, Effective atomic numbers and electron densities of gel dosimeters for He, B, C, and O highly charged particles interaction in the energy range 10 keV–100 MeV, *Digest Journal of Nanomaterials and Biostructures*, Vol. 16, No. 1, January - March (2021), p. 61 – 71

[30]. Ethar Yahya Salih, Mohd Faizul Mohd Sabri, **M. H. Eisa**; Khaulah Sulaiman, Asmiet Ramizy, Mohd Zobir Hussein; Suhana Mohd Said, Mesoporous ZnO/ZnAl<sub>2</sub>O<sub>4</sub> Mixed Metal Oxide-Based Zn/Al Layered Double Hydroxide as an Effective Anode Materials for Visible Light Photodetector, *Materials Science in Semiconductor Processing*, Volume 121, January (2021), 105370

[31]. Mohammed Al-zharani, Ashraf Ahmed Qurtam, Walid M. Daoush, **Mohamed Hassan Eisa**, Nada H. Aljarba, Saad Alkahtani and Fahd A. Nasr, *Environmental Science and Pollution Research*, (2021) <https://doi.org/10.1007/s11356-020-09843-5>, IF: 2.914

#### 2020

[32]. A. S. Abdalla, Suliman Alameen\*, Mohammed S. G. Hamed and **M. H. Eisa**, Single-photon pulse transport in a waveguide coupled with a quantum system, *Results in Optics*, Volume 1, 21 November, (2020), 100026

[33]. H. S. Bush, **M. H. Eisa**, Asmeit Ramizy, M. Ashari, Kh. M. Haroun and M. D. Abd-Alla, The Effect of Gold Nanoparticles on Radiation Dose Distribution in Breast Cancer Using Monte Carlo Simulation, *Journal of Optoelectronic and Biomedical Materials*, Volume 12, Number 3, July - September (2020)

[34]. Adam S. I. Abdalla, Ahmed M. Dafalla, **M. H. Eisa**, O. Aldaghri and Ahmed M. Al kaoud, *Digest Journal of Nanomaterials and Biostructures*, Vol. 15, No. 2, April-June (2020), p. 569-577

[35]. **M. H. Eisa**, Effects of beta-ray irradiation on optical properties of PbO thin films, *Journal of Materials Science in Semiconductor Processing*, Volume 110, May (2020), 104966

[36]. **M. H. EISA**, A. H. A. ALFEDEEL, SIMULATION PROPERTIES OF THIN FILMS OF INDIUM TIN OXIDE DEPOSITED ON POLYMER SUBSTRATES, *Digest Journal of Nanomaterials and Biostructures*, Vol. 15, No. 1, January-March (2020), p. 59-65

[37]. Asmiet Ramizy, Isam M. Ibrahim, Abu baker S. Mohammed and **M. H. Eisa**, Performance of multi-function devices fabricated from La<sub>2</sub>O<sub>3</sub>-doped NiO Thin Films, *International Journal of Nanoelectronics and Materials*, Volume 13, No. 1, Jan (2020) p. 101-112

#### 2019

[38]. M. G. Faraj, **M. H. Eisa**, M. Z. Pakhuruddin, Physical Properties of Spray Pyrolysis Cadmium Sulfide Thin Films Deposited on Different Polymer Substrates, *Int. J. Electrochem. Sci.*, 14 (2019), 10633 – 10641

[39]. M. G. Faraj and **M. H. EISA**, Effect of polyimide substrate on the physical properties of aluminum doped zinc oxide (AZO) thin films deposited by spray pyrolysis technique, *Digest Journal of Nanomaterials and Biostructures*, Volume 14, No. 2, April -June (2019) 471 – 478

[40]. **M. H. Eisa**. Electronic structure and optical properties of Cd co-doped wurtzite GaN exposed from first principles study, *Results in Physics* (13), June (2019) 102330

[41]. Batol I Dheeb, Sundus MA Al-dujayli, Isam M Ibrahim, Qayes A Abbas, Ahmed H Ali, Asmeit Ramizy, **M. H. Eisa**, and et al., Study the Antifungal Activity of ZnS: Mn Nanoparticles against Some Isolated Pathogenic Fungi, *Journal of Physics: Conference Series* 1178 (1), (2019) 012008

[42]. Abd-Elmoniem A. Elzain, Hajo Idriss, Yousif Sh. Mohammed, Khidir Shaib Mohamed, Mohamed Abd Elwahab Mohamed Ali, Mohamed Musa Saad Hasb Elkhaliq, Isam Salih, Adam Khatir Sam, **Mohammed H. Eisa** and et al., Assessment of radioactivity from selected soil samples from Halfa Aljadida area, Sudan, *Radiochim. Acta* January (2019); Volume: 107, Issue: 6, JUN (2019) Pages: 489-502

#### 2018

[43]. A. Ramizy, **M. H. Eisa**, M. A. Alalousi, I. M. Ibrahim, I. M. Ali, NANOSTRUCTURED SILICON TRAPPING FOR SINGLE ESCHERICHIA COLI BACTERIA DETECTION, *Digest Journal of Nanomaterials and Biostructures* Vol.13, No.4, October-December 2018, p. 1165-1171

[44]. M. E. Jahelnabi, M. A. H. Khalafalla, **M. H. Eisa** and R. A. Alobaid, Configurational Phase Transition in Au<sub>x</sub>Cu<sub>1-x</sub> Nano-Alloy: First Principle and Monte-Carlo Calculations, *Phase Transitions*, 02 July (2018)

[45]. A. S. Abdalla, **M. H. Eisa**, R. Alhathloul and O. Aldaghri, Quantum resonant tunneling in semiconductor double-barrier structure, *Optik*, Volume 170, October (2018), Pages 314–320

[46]. A. Modwi, M. K. M. Ali, Kamal K. Taha, M. A. Ibrahim, H. M. El-Khair, **M. H. Eisa**, M. R. Elamin, O. Aldaghri, Raed Alhathloul, K. H. Ibnaouf, Structural and optical characteristic of chalcone doped ZnO nanoparticles, *Journal of Materials Science: Materials in Electronics*, Volume --, No.---, 14 November (2018) p 1–6

#### 2017

[47]. **M. H. Eisa** and A. S. Abdalla, X-ray absorption calculations of ground state and electronic transitions for molecules and crystals of acridine, *Digest Journal of Nanomaterials and Biostructures*, Volume 12, No 3, July-September (2017) P. 639-644

[48]. Isam M. Ibrahim, Iftikhar M. Ali, Batol Imran Dheeb, Qays A. Abbas, Asmeit Ramizy, **M. H. Eisa** and A. I. Aljameel, Antifungal activity of wide band gap Thioglycolic Acid Capped ZnS: Mn semiconductor nanoparticles against some pathogenic fungi, *Materials Science and Engineering C*, Vol. 73, 1April (2017), P. 665–669

[49]. A. M. Ibraheem, **M. H. Eisa**, W. Adlan, George O. Amolo, and M. A. H. Khalafalla, First principle identification of charge transition levels of native defects in BaF<sub>2</sub>, *Modern Physics Letter B*, Vol. 31, Issue 07, 10 March (2017)

[50]. A. M. Ibrahim Elrufai, M. Khalafalla, **M. H. Eisa**, First principle calculation of accurate native defect levels in CaF<sub>2</sub>, *European Physical Journal B*, Volume 90, Issue 3, 8 March (2017)

[51]. **M. H. Eisa** and A. S. Abdalla, Dynamics of supersolid crystals in microcavity polariton condensates, *International Journal of Modern Physics C*, Vol. 28, No. 2, 8 March (2017) 1750043

#### 2016

[52]. Asmeit Ramizy, Mays A. Hammadi, Isam. M. Ibrahim, **M. H. Eisa**, R. Alhathloul, High Sensitive H<sub>2</sub> Gas Sensor of ZnO/PS Nanostructure Prepared Via Pulsed Laser Deposition Technique, *Digest Journal of Nanomaterials and Biostructures*, Vol. 11, No. 4, October-December (2016), p. 1351-1360

[53]. **M. H. Eisa**, H. Shen, W. Jin, Abdulaziz S. Alaamer, M.A. Al-Rajhi and Hajo Idriss, PIXE study on the effects of parathyroid hormone on elemental content in rat bones, *Physica Medica*, Vol. 32, Issue 12, 23 December (2016) 1615– 1620

[54]. H. Idriss, K. M. Haroun, D. Abd Allah, **M. H. Eisa**, Effect of Acetylene Rates and Temperature Variations of Iron Nanoparticles in Carbon Nanotubes, *International Journal of Mathematics and Physical Sciences Research*, Vol. 4, Issue 1, April-September (2016) 110-111

[55]. **M. H. Eisa**, Calculation Parameters of proton Ions in Indium Tin Oxide and Polyethylene Terephthalate, *International Journal of Science and Research (IJSR)* Vol. 5 (3), March (2016) 480–483, <http://www.ijsr.net/archive/v5i3/v5i3.php>

#### 2015

[56]. K Ibrahim, M.H. Khalid, **M. H. Eisa**, M. N. Najimudin, M. A. Al- Rajhi and Hajo Idriss, Comparative study of AFM and FESEM for Imaging the Single Cell of Escherichia Coli Bacteria, *Journal of Nano Research*, Vol. 34 October (2015) pp 61-66

#### 2014

[57]. M. G. Faraj, K. Ibrahim, **M. H. Eisa**, M. A. Al-Rajhi, Comparison of Aluminum Thin Film Deposited on Different Polymer substrates with Thermal Evaporation for Solar Cells Applications, *Journal of Ovonic Research*, Vol. 10, No. 6, December (2014) 231 -235

[58]. **M. H. Eisa**, H. Shen, M. A. Al-Rajhi, Hajo Idriss, Proton-Induced-X-Ray-Emission-Study-on-the-Content-of-Whale-Tooth, *IOSR Journal of Applied Physics (IOSR -JAP)*, Volume 6 Issue 5, October (2014) 35-39

[59]. M. G Faraj, K. Ibrahim, **M. H. Eisa**, F Azhari, M. A. Al-Rajhi, Aluminum Deposition on Polymer Substrate by DC Sputtering and Evaporation Methods, *Journal of Mechatronics*, Volume 2 Issue 3, September (2014) 223- 225

[60]. M. D. Abd Allah, K. G. Elgaylani, K. M. Haroun, **M. H. Eisa** and et al., Derivation of Einstein Generalized Special Relativity Using Lorentz Transformation, *International Journal of Science and Research (IJSR)* Volume 3 Issue 6, June (2014) 2319-7064

[61]. H. Idriss, I. Salih, AS Alaamer, **M. H. Eisa**, AK Sam, Investigation of radioactivity concentration in spent technetium generators, *Radiation Physics and Chemistry*, Vol. 97, April (2014) 346-348

[62]. K. G. Elgaylani, M. D. Abd Allah, K. M. Haroun, **M. H. Eisa** and et al., Derivation of Einstein's Energy Equation from Maxwell's Electric Wave Equation, *International Journal of Science and Research (IJSR)* Vol. 3 (3), **March (2014)** 2319-7064

[63]. K. G. Elgaylani, M. D. Abd Allah, K. M. Haroun, **M. H. Eisa** and A. S. Al Amer., Derivation of Klein-Gordon Equation from Maxwell's electric wave equation, *International Journal of Physical Sciences* Vol. 2(2), **February (2014)** 015-020

### 2013

[64]. M. D. Abdulla, A. El-Tahir, **M. H. Eisa**, Abdulaziz S. Alaamer, M. Elnabhani and K. G. Elgaylani, Gravitational Self Energy Mass and Gravitational Radiation Quantization within the Framework of the Generalized General Relativity, *International Journal of Astronomy and Astrophysics, IJAA*, Vol.3 No.2 **(2013)** PP131-136

### 2011

[65]. M.G. Faraj, K. Ibrahim and **M. H. Eisa**, Investigation of the optical and structural properties of thermally Evaporated cadmium sulphide thin films on polyethylene terephthalate substrate, *Materials Science in Semiconductor Processing*, volume 14, **June (2011)** 146-150

[66]. M. K. M. Ali, K. Ibrahim, Osama S. Hamad, **M. H. Eisa**, M. G. Faraj, F. Azhari, Deposited Indium Tin Oxide (ITO) Thin Films by DC-Magnetron Sputtering on Polyethylene Terephthalate Substrate (PET), *Romanian Journal of Physics*, ISSN1221-146X (IF0.279), (Volume 56, **Numbers 5-6, (2011)** 730-741

### 2010

[67]. M.G. Faraj, K. Ibrahim, **M. H. Eisa**, M. K.M. Ali and F. Azhari, Investigation on Molybdenum Thin Films Deposited by DC-Sputtering on Polyethylene Terephthalate Substrate, *International Journal of Polymeric Materials*, 59, **(2010)**, 622-627

[68]. M. G. Faraj, K. Ibrahim, **M. H. Eisa**, M. K. M. Pakhuruddin, M. Z. Pakhuruddin, Comparison of Zinc Oxide thin films deposited on the glass and polyethylene terephthalate substrates by thermal evaporation technique for applications in solar cells, *Journal of Optoelectronics and Advanced Materials-Rapid Communications (OAM-RC)*, Vol 4 ISS.10, **(2010)**, 1587-1590

[69]. M. G. Faraj, K. Ibrahim, **M. H. Eisa**, M. K. M. Ali and F. Azhari, Investigation on CIGS solar cells on Polyethylene Terephthalate Substrate, *International Journal of Polymeric Materials*, **(2010)**

[70]. M. K. M. Ali, K. Ibrahim, Osama S. Hamad, **M. H. Eisa**, M. G. Faraj, F. Azhari, Structure and Thermal properties of Polyethylene Terephthalate Substrate for Optoelectronics Applications, *International Journal of Advances in Science and Technology (IJAST)* Vol 1, Number 5, **December (2010)**

### 2009

[71]. Y. Zheng, W. Jin, C. Wang, M. Yang, H. Shen, **M. H. Eisa** and Y. Mi, The effects of Strontium Ranelate treatment on Ovariectomized Sprague-Dawley Rat Femur, *Nuclear Instruments and Methods in Physics Research B* 267, 12-13, 15 June **(2009)** 2128-2131

### 2008

[72]. C. Wang, **M. H. Eisa**, W Jin, H Shen and et al., Age-related elemental change in bones, *Nuclear Instruments and Methods in Physics Research B* 266, 8, April **(2008)** 1619-1622

## 2005

[73]. **M. H. Eisa**, H. Shen, H. Y. Yao, Y. Mi, Z. Y. Zhou and et al., Studies on Absorption Coefficient near edge of Multi elements, *Journal of Quantitative Spectroscopy and Radiative Transfer (JQSRT)*, **96**, 3-4, 15 December (2005) 503-511

## 2000

[74]. LIANG Zhongcheng, LIU Dongxin, **Mohamed H. Eisa**, Simulation of the liquid crystal behavior with the Toothpick experiments, *Journal of Physics Experimentation*, 9 (2000) 10-12

### **b. Contributions to conference proceedings**

1. S. A. Aloraini, **M. H. Eisa**, ASMEIT RAMIZY, and A. AKAUD, OPTICAL CHARACTERIZATION OF WIDE-BAND GAP SEMICONDUCTOR DOPED WITH AI PREPARED BY PULSED LASER DEPOSITION TECHNIQUE, International Conference on Nanoscience, Nanotechnology and Advanced Materials (IC2NM) Kuala Lumpur Malaysia (1st-2nd July 2018) , <http://www.academicworld.org/Conference2018/Malaysia/3/IC2NM>
2. M.G. Faraj, K. Ibrahim, **M. H. Eisa**, M. K. M. Ali and F. Azhari, Comparative studies of the Properties of Molybdenum Thin Films Deposited on Different Substrates by DC Sputtering, The 2<sup>nd</sup> ISESCO International Workshop and Conference on Nanotechnology (2010) (IWCN2010) (<http://pkukmweb.ukm.my/~iwcN2010/>) on 25<sup>th</sup>-27<sup>th</sup> January 2010, Nanotechnology in Energy, Materials and Health
3. M. K. M. Ali, K. Ibrahim, **M. H. Eisa**, M. Z. Pakhuruddin and M.G. Faraj, Optical and Electrical Properties of Indium Tin Oxide (ITO) Thin Films Prepared by Thermal Evaporation Method on Polyethylene Terephthalate (PET) Substrate, The 1<sup>st</sup> International Conference on Advancement of Materials and Nanotechnology (ICAMN 1) (2010) Kuala Lumpur
4. M. H. Khalid, K. Ibrahim, M. N. Najimudin, **M. H. Eisa** and F. Azhari, A Novel Technique to Trap and Investigate Single Cell E-Coli Bacteria on psi, The 2nd ISESCO International Workshop and Conference on Nanotechnology 2010 (IWCN2010), 25th to 27th January (2010)-(http://pkukmweb.ukm.my/~iwcN2010/), Kuala Lumpur, Malaysia
5. M. H. Khalid, K. Ibrahim, M. N. Najimudin, **M. H. Eisa** and F. Azhari, Effect of Variable Current Density Parameter to Fabrication Porous Silicon, the 2nd ISESCO International Workshop and Conference on Nanotechnology 2010 (IWCN2010), 25th to 27th January (2010)-(http://pkukmweb.ukm.my/~iwcN2010/), Kuala Lumpur, Malaysia
6. **M. H. Eisa**, H. Shen, Y. Mi, K. Ibrahim, K. M. Haroun, I. M. Elfaki and M.H. Khalid, X-Ray Absorption Fine Structure Measurements on Bone Composition, International Conference on Nanotechnology Research and Commercialization (ICONT2009) (<http://icont2009.sirim.my>), 14-17 December (2009), Langkawi, SIRIM
7. M. H. Khalid, K. Ibrahim, M. N. Najimudin and **M. H. Eisa**, A comparison of Atomic Force Microscopy and Field-Emission Scanning Electron Microscopy for Imaging the Single Cell of E- Coli Bacteria, the National Physics Conference 2009 (PERFIK2009), 7<sup>th</sup> to 9<sup>th</sup> December (2009)- (<http://pvmc.uitm.edu.my/perfik/index.htm>), Malacca, Malaysia
8. M.K.M. Ali, K. Ibrahim, **M. H. Eisa**, M. G. Faraj, Osama S. Hamad and F. Azhari, Characterization of Polyethylene terephthalate (PET) substrate for Optoelectronic Applications, the First International Conference on Engineering, Environment, Economic, Safety & Health, CONVEEESH'09, (<http://acta.fih.upt.ro/pdf/2009-3/ACTA-2009-3-14-Event-3.pdf>) Manado Island, Indonesia 26-27 October (2009)
9. M.K.M. Ali, K. Ibrahim, **M. H. Eisa**, M. G. Faraj, Osama S. Hamad and F. Azhari, Characterization of Indium Tin Oxide Thin Films Deposited by DC-Magnetron Sputtering on Polyethylene terephthalate (PET) substrate, The First International Conference on Engineering, Environment, Economic, Safety & Health, CONVEEESH'09 (<http://acta.fih.upt.ro/pdf/2009-3/ACTA-2009-3-14-Event-3.pdf>), Manado Island, Indonesia 26-27 October (2009)
10. F. Azhari, K. Ibrahim, **M. H. Eisa**, M.K.M. Ali, M. H. Khalid, M. G. Faraj, Liu Chao Zhuo, Characterization of Aluminum Deposited on PET Substrate by DC Sputtering and Evaporation Methods, the 7<sup>th</sup> Asia Pacific Conference on Sustainable Energy and Environmental Technologies, China Academy of Science, (<http://apcseet2009.upc.edu.cn>) Qingdao, China, 15-17 October (2009)



11. **C. Wang<sup>1</sup>, Y. Zheng, W. Jin, H. Shen, L. Zhong, M. H. Eisa, Y. Mi, M. Yang, J. Gao**, Evaluation of strontium in the bone development, Tuesday 22 July 2008, 10:00, Biology, Medicine and Botany abs115, p34, ICNMTA 2008 (11<sup>th</sup> International Conference on Nuclear microprobe Technology and Applications 20-25- (2008), Hungary
12. **Wang Cheng-Hua; M. H. Eisa; Shen Hao; Lijia Qing; Zhang Jiexiong; Wang Jianzhong; Yang Mingjie; Mi Yong; Yao Huiying**, thirteenth meeting of the National Nuclear Physics Conference and the Eighth Congress Proceedings of the thirteenth National Nuclear Physics Conference and the Eighth Congress Abstract Book, (2007) Chinese, Nuclear Physics Society Press, Lanzhou, Gansu, Jiayuguan, China
13. **M. H. Eisa and et al**, A nuclear Technique Study on the Content of Zinc and Strontium in Different Annual Rings Layer of Whale Tooth, Seventh Symposium on Use of Nuclear Techniques in Environmental Studies, 3-5 September, (2007) Yarmouk University, Irbid- Jordan
14. **M. H. Eisa and et al.**, Measurement of Mass Absorption Coefficients of Multi Elements, the XXXVI Conference Solid State Physics and Materials Science Workshop Nanostructure; Science; Fabrication; Characterization and Devices, 10<sup>th</sup> to 14<sup>th</sup> September (2006) Alexandria, Egypt