

Volume 40 Basic Science (2023)		
<i>Article Title</i>	<i>Authors</i>	<i>Pages</i>
Accurate Measurement of Surface Irregularities for a Standard Sphere Using Fizeau Laser Interferometer	Ahmed Ali Saleh, Mohamed Ahmed Amer, Nadra Nada	1-14
Assessment of Health Risks due to Occupational Exposure to Natural Radioactivity of Some Building Materials in Egypt	Enas Sanad, S. Salama, Nermin El-anwar	15-33
DC-DC Boost Converter for Enhancing the Generated Output Voltage from Microbial Fuel Cell	Hager Meatimed, aya sayed rady, S. A. Kamh, S. M. Abd El-Azeem	34-51
Study of Higgs boson decay to muon-antimuon pairs at center of mass energy 14 TeV	Aya Ismail Beshr, Zeinab Yousf Morsy, Ahmed Ali Abdelalim	52-61
Comparative Study of Commonly Used Batteries for Solar PV Applications	Z. I. M. Awad, S. A. Kamh, F. A.S. Soliman, Doaa Hassan Hanafy	62-71
Design and Implementation of Electronic Illumination Control System	M. A. Tawfik, A. M. Abd El-Maksood, F. A.S. Soliman, Wafaa Abd El- Basit	72-85
Development of Irrigation Water Quality Index Using Artificial Neural Network	Nema Kandil, rafat rayan, Mostafa Sadek	86-101
Laser Raman micro spectroscopy and high frequency dielectric properties of silica- xerogel loaded with different concentrations of α-Fe₂O₃	Reham Abd El Hamid, Naglaa Shahin	102-120
Anisotropic pressure effect on strongly magnetized white dwarfs using quasi-local equation of state	Mohamed Moussa	121-141

Water Pollution and its Treatment using nanocomposites of graphene oxide (GO 50%) / Zn²⁺ for different dyes and heavy metals using sol-gel synthesized	Rehab Atya Mohamed, N. Okasha, A. Azab, A. M. Baker	142-167
Graphene-based hydrogel silver nano-composites for antibacterial and antitumor applications: In vitro evaluation	Asmaa Khaled Atef, Tahia A. Mostafa, Hazem M. El-Sherif	168-197
Efficacy of Laser-Assisted Hatching on Pregnancy and Live-Birth Rates of Human Frozen-Thawed Embryos	Shorouk El-Toukhy, Mohamed Ali El-Desouky, Ragaa Taha Mansour, Mariam Abdur-Rahman	198-212