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Name:	Fryad Zeki Henari	Title:	
Title:	Associate Professo		
Start date with RCSI Bahrain:	8/1/2005		
Department:	Medicine		
Specialty:	Physics		

Third Level Education / Academic Awards:

Date Awarded	Awarding Institution:	Qualification Title:
1972	Sulaimaniyah University- Iraq	B.Sc.- Physics
1983	Strathclyde, University, Scotland, UK	MSc.- Physics
1988,	Physics Department, Trinity College, University of Dublin	PhD

Professional Qualifications:

Date Awarded	Awarding Institution:	Qualification Title:

Previous Academic Positions:

Date (To - From):	Institution:	Position:
2005- To date	Royal College of Surgeons, in Ireland, Medical University of Bahrain;	Associate professor
1997 To 2005	Physics Department, College of Science, University of Bahrain	Assistant Professor
1988 To 1997	Physics Department, Trinity College, University of Dublin	Post Doc, Senior researcher, Lecturing
1990 To 1992	Materials Ireland, Trinity College, University of Dublin, Dublin 2	Consultancy work with Irish companies
1973 To 1981	Physics Dept. Sulaimaniyah University- Iraq	Lecturing, Demonstrator and Lab management,
1972 To 1973	Ministry of Education, Iraq	Secondary School Teacher

Teaching Experience:

Medical physics, Lasers Optoelectronics, Physical Optics, Applied Optics, Physics Semiconductor Devices and General Physics,

Current Research and Scholarly Activities:

Research in investigating the nonlinear optical properties and optical limiting of polymers and nanoparticles for their use in medical applications. Medical and phase contrast imaging using optical Fourier and z scan techniques. Exploring the nonlinear properties of organic, nonorganic materials and nanoparticles for optical devices using pump and probe technique

Summary of Publication History: (Last 10 years only)

Publication Details:

Journal Impact Factor:

S. Al- Dallah, F. Z. Henari, S. M. Alawi, S. R. Arekat , H Manna, Optical Switching in Hydrogenated Amorphous Silicon Sulfur Alloy Prepared by glow- Discharge, J. of Non-Crystalline. Solids, Vols 345-346, 302-305, 2004.	1. 716
Hacen Manna Fryad Z. Henari , Ahmed al-Saei , Stefanie Maier and Werner Blau, Effective Stimulation Emission Cross-Section of poly (phenylene vinylene) Copolymer in toluene solution, Optical Quantum Electronics 36, 819, 2004.	0.987
F. Z. Henari , Gain Measurements in Dye Doped Poly Vinyl- Pyrrolidone Polymer, Laser physics, Vol. 15 No. 3, 419, 2005.	1.032
Fryad Z. Henari, Two photon absorption of pours Silicon, Laser Physics, Vol.15, No 12, 1634, 2005.	1.032
A.A. Dakhel, Y Ali- Mohamed Ahmed. F. Z. Henari, Structural and optical studies of evaporated Bis-(dimethyglyoximate) nickel(II) thin films, Optical Materials Vol.28, 925-929, 2006.	2.023
F. Z. Henari , A. Al Saie, Nonlinear refractive index measurement and self – action effect in Roselle-Hibicus Sabdariffa solution. Laser Physics, Vol. 16 N0. 12, 1664-1667, 2006	1.023
Fryad Z. Henari, Ahmed Y. Ali-Mohamed,Non- linear Refractive index Measurement of Tris (acetylacetonato) Manganese(III) solution, Optics and Laser Technology, 40, 602-606, 2008.	1.540
F. Z.. Henari, Dakhel A. A., Linear and non-linear optical properties of Gold nanoparticles -EU oxide composite thin film. Journal of Applied Physics 104, art no. 33110 (2008)	2.183
Fryad Z. Henari, Optical Nonlinearity in Hydrogenated Amorphous Silicon-Selenium film Optics Communications 281, 5894-5897 (2008).	1.36
Henari. F. Z., Dakhel A. A., Linear and Non linear Optical properties of Hydrogenated CdO Thin Films Laser Physics, issue Vol 18. No.12, 1557,(2008).	1.032



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F. Z. Henari, Dakhel A. A, Investigation of nonlinear Optical properties of gold nano nanograins embedded in Indium oxide films by reflection Z- scan using Continuous laser J Appl. Phys. 108, 12 123109- 1231095 (2010)	2.183
Dakhel A. A, F. Z. Henari , Optical and structural properties of silver nanoparticles embedded in indium oxide films. International Journal of Nanoscience. Vol.10, No.2, 433-440 (2011)	0.34
F. Z. Henari Nonlinear characterization and Optical Switching in Bromophenol Blue solutions". Natural Science (NS) Vol.3, No.8,728-732.(2011)	0.97
F. Z. Henari , Dakhel A. A., Observation of simultaneous reverse saturation absorption and saturation nonlinear absorption in silver nanoparticles incorporated into europium oxide thin film (Optical communications, 284 ,651-655 (2011).	1.316
Mohammed A. Almuqammam, Mohamed A. Ebrahim ,H. A. Radhi, Fryad Z. Henari Refractive Errors in the Bahrain Population, Middle East Journal of Family Medicine, Volume 9, Issue 2, pages 7-11, February /March 2011.	
Fryad Z Henari , Seamus Cassidy Non- linear optical properties and all optical switching of Congo red in solution , Optik - International Journal for Light and Electron Optics, DOI:10.1016/j.ijleo.2011.06.029. (JNOPM) Vol. 20, Number2 (2011)	0.677
Fryad Z. Henari , Abdullah M. Asiri Non- linear Refractive index Measurement of (2E)-3-[4-(Dimethylamino)phenyl]-1-(2,5-dimethylthiophen-3-yl)prop-2-en-1-one and (2E)-3-(3,4-Dimethoxyphenyl)-1-(2,5-dimethylthiophen-3-yl)prop-2-en-1-one. Journal	0.553



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A. E. Obied, Y. A. Alwatri, K. G. Culligan, F. Z. Henari , Z -scan method for measurement of Bovine serum albumin concentrations. J. Biomedical Sci. and Eng. Vol5 No.5, 290, 2012, http:// WWW. SciRP. Org/ Journal /Jbise/ (2012).	0.83
Fryad Z. Henari , Declan Gaynor, Darren M. Griffith , Clodagh Mulcahy, Celine J. Marmion “Non-linear optical Measurement of Iron (III)Tris(pyridinehydroxamate) complexes” Chemical Physics Letters 552 (2012) 126–129, http://dx.doi.org/10.1016/j.cplett.2012.09.058	2.337
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A. M. Al- Saie, F. Z. Henari , T. Souier, M. Bououdina Structural, Microstructural and Optical Properties of nanoscale Mo-doped Indium Oxide Films, J. Mater Sci.: Mater Electron 24(B) ,3081-3088 2013, ,DOI: 10.1007/s10854-013-1214-2).	1.569
Dakhel A. A , Khalil E. Jasim, S. Cassidy, F. Z. Henari Extraction and dielectric properties of curcuminoid films grown on Si substrate for high-k dielectric applications, Materials Science, Engineering B137, 1062-1067, 2013 ,(DOI: 10.1016/j.mseb.2013.06.003).	2.142
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