

Dr. Muhammad Gul Bahar Ashiq

Phone :

Cell #+966-534197282 +92-3362343556

Email: gulbahar.ashiq@gmail.com

Education and Training

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| 2014 | Ph.D (Physics) Universiti Teknologi Malaysia
-Department of Physics,
-Thesis: A numerical study of Laser induced coulomb explosion of gold nanoparticles for Breast cancer treatment |
| 2007 | M.Phil (Solid State Physics)University of the Punjab Lahore Pakistan
-Department of Physics
-Thesis: Photoconductivity of Zinc Molybdenum Phosphate glasses |
| 2003 | M.Sc (Physics)
-Department of Physics
Bahauddin Zakarya Unviversity Multan |
| 2001 | B.Sc (Physics, Chemistry, Math)
- Bahauddin Zakarya Unviversity Multan |

Teaching and Research Experience

Lecturer (Visiting)

Minhaj University, Lahore

Plan research regarding material sciences

Train manpower & work on FTIR equipment

Guide M.Phil students generally in M.Phil course work

Lecturer,

Department of Physics, Punjab Group of colleges, Lahore. BS Courses taught: Basic Electronics, Semiconductor and Solid State Devices

Awards, Scholarships and Honours

2014	Research Contribution certificate at orientation of New student and Research Appreciation from International Student Center,UTM
2013	First Prize Winner in UTM Three Minuets Thesis Competition
2011-2013	International Doctoral Fellowship Award (Universiti Teknologi Malaysia)
2012	Teaching Assistant in Physics Department Universiti Teknologi Malaysia

Academic and Research Interests

Courses	Basic Electronics Semiconductor and Solid State Devices Quantum Mechanics,
Research	Breast Cancer Treatment Nanostructure Materials Solid State Physics Semiconductor Phosphate Glasses

Workshops, Conferences and Seminars/Talks

2012	International Postgraduate Conference Physics Department Universiti Teknologi Malaysia
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Computer, Technical Skills and Research Projects

Math Packages Matlab

OS Windows,

List of International Journal Publications

2015	M.G B Ashiq, M A Saeed, B A Tahir, A survey of Fabrication techniques of Long Period Grating (LPG) sensor,Jurnal Fizik UTM, 1, 2015,88-94.
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- 2015 **M.G B Ashiq**, M A Saeed, Treatment of breast cancer by nanophotolysis approach, Submitted to Elsevier Journal
- 2014 **M.G.B Ashiq**, M A Saeed, N Ibarhim, Comparison of nanophotolysis approach and current experimental approaches for breast cancer treatment (submitted)
- 2014 **M.G.B Ashiq**, M A Saeed, N Ibarhim Emerging use of GNPS for breast cancer treatment (under review in springer)
- 2014 M.A Ghuari S A Siddiqi, **M G B Ashiq**, Band gap measurement of ZnO₂- MoO₃ – P₂O₅ glasses by photoconductivity, Glass Physics and Chemistry, 2014, Vol. 40, No. 2, pp. 151–156.
- 2013 **M G B Ashiq**, M A Saeed, Noorddin Ibrahim, B A Tahir, Breast Cancer Therapy by Laser Induced Coulomb Explosion of Gold Nanoparticles, Chinese Journal of Cancer Research,
- 2012 **M G B Ashiq**, M. A Saeed, Noorddin Ibrahim, M Shahid, B A Tahir, Novel Nanophotolysis technique for breast cancer Therapy, Mod. Phy. Lett.B, Vol. 26, No. 23 (2012) 1250147.
- 2012 **M G B Ashiq**, M A Saeed, Noorddin Ibrahim, M Shahid, B A Tahir, Numerical Study of Nanophotolysis Approach for Breast Cancer, Mod. Phy. Lett.B ,Vol. 26, No. 28 (2012) 1250187.
- 2012 B A Tahir, M A Saeed, **M G B Ashiq**, Long-Period Grating as Strain Sensor, Journal of Ovonic Research Vol. 8, No. 2, 2012, 225 – 232.
- 2012 **M G B Ashiq**, M A Saeed, Noorddin Ibrahim, M Shahid, B A Tahir, Laser induced Coulomb explosion of gold nanoparticles, Application of Nanophotolysis for breast cancer. J.Int.Pulse Laser and Adv. Phy. Vol. 2, No. 1, p. 1 – 3, 2012.
- 2012 Bashir Ahmed Tahir, Rashid Ahmed, **M. G. B. Ashiq**, Afaq Ahmed, and M. A. Saeed, Cutting of nonmetallic materials using Nd:YAG laser beam, Chin. Phys. B Vol. 21, No. 4 (2012) 044201.
- 2012 Bashir Ahmed Tahir, M. A. Saeed, Afaq Ahmed, Rashid Ahmed, **M. G B Ashiq**, Effect of Sensor Gauge Length on Strain Sensitivity of a Fiber Bragg Grating System, CHINESE JOURNAL OF PHYSICS VOL. 49, NO. 5, 1035-1045.

- 2011 Muhammad Shahid,, Noriah Bidin, Yacoob Mat Daud, M.Inayat Ullah, M.G.B. Ashiq, Enhancement of hydrogen using green laser from plasma electrolysis of water Journal Of Intense Pulsed Lasers And Applications In Advanced Physics Vol. 1, No. 3, p. 65 – 68,2011
- 2011 Muhammad Shahid,, Noriah Bidin, Yacoob Mat Daud, M.G.B. Ashiq, Numerical study of laser induced ionized species in breast cancer tumor Journal of Intense Pulsed Lasers And Applications In Advanced Physics Vol. 1, No. 3, p. 65 – 68,2011
- 2009 M.A. Ghauri , S.A. Siddiqi , W.A. Shah , **M.G.B. Ashiq** , M. Iqbal, Optical properties of zinc molybdenum phosphate glasses, Journal of Non-Crystalline Solids 355 (2009) 2466–2471.

Book Chapter

- 2014** Photoconductivity of Zinc Molybdenum Phosphate Glasses (submitted to UTM, under press)