



# USMAN ILYAS

## PROFILE

Dr. Usman Ilyas is an Assistant Professor in Department of Physics, University of Engineering & Technology, Lahore, Pakistan. He joined the Department of Physics, UET Lahore as lecturer in 2007 and was awarded fully funded research scholarship under Faculty Development Program to pursue his PhD studies abroad. During the course of PhD research work, he was awarded with Nanyang Technological University Research Scholarship (2012-2014) and Deans Commendation for Research (six times). He has published several papers in peer reviewed journals of international repute and attended professional conferences, workshops, meetings and trainings in different countries. Currently he is supervising different research projects related to plasma assisted nanostructures of different materials for their use in Photovoltaics and Biomedical industry.

## MY EDUCATION:

|        |  |      |
|--------|--|------|
| Ph.D   | Nanyang Technological University, Singapore                | 2014 |
| M.Phil | University of Engineering & Technology<br>Lahore, Pakistan | 2009 |
| M.Sc   | University of the Punjab, Lahore Pakistan                  | 2004 |

## HONORS AND AWARDS

Deans commendation for Research (six times)

Nanyang Technological University Research Scholarship

Fully Funded grant by South Korean Officials to represent Singapore in the 1<sup>st</sup> International Summer School on Lasers and Laser Applications (SSOLA), Advanced Photonics Research Institute, Guwangju Institute of Science and Technology, Guwangju, South Korea

University of Engineering & Technology Lahore Research Scholarship under Faculty Development Program of Higher Education Commission of Pakistan

### **Date of Birth:**

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## SELECTED JOURNAL PUBLICATIONS

Shariqa Hassan Butt, M.S. Rafique, Shazia Bashir, Usman Ilyas, K. Siraj, M.S. Awan, Khaliq Mehmood, M. Rafique, Amina Afzal, *"Influence of Er doping on the structural, optical and luminescence properties of pulsed laser deposited Er: BaZrO<sub>3</sub> thin films"*, Ceramics International, (In Press-2017)

Usman Ilyas, P. Lee, T. L. Tan, R.Chen, Abdul Waheed Anwar, Sam Zhang, H.D. Sun and R.S. Rawat, *Temperature-dependent stoichiometric alteration in ZnO:Mn nanostructured thin films for enhanced ferromagnetic response*, Applied Surface Science, 387, 461-468 (2016)

Saima Shaukat, M.Khaleeq-ur-Rahman, Usman Ilyas, A.Latif, R.S.Rawat, *Structural, morphological and optical changes in periodic fractal nanosymmetries of Ni doped chromium oxide ceramic nanostructures*, Ceramics International, 42, 4952-4963 (2016)

Abdul Majeed, Wasi Ullah, Abdul Waheed Anwar, Ahmad Shuaib, Usman Ilyas, Pervez Khalid, Gulam Mustafa, Junaid Khan, *Cost effective biosynthesis of silver nanoparticles using different organs of plants and their antimicrobial applications: A review*, Materials Technology: Advanced Biomaterials, 1-8 (2016) Doi: 10.1080/10667857.2015.1108065

Abdul Waheed Anwar, Abdul Majeed, Nadeem Iqbal, Wasi Ullah, Ahmad Shuaib, Usman Ilyas, Fozia Bibi, Hafiz Muhammad Rafique, *" Specific Capacitance and Cyclic Stability of Graphene Based Metal/Metal Oxide Nanocomposites: A Review"* Journal of Material Science and Technology, 31, 699 (2015)

Usman Ilyas, T. L. Tan, P. Lee, R.V. Ramanujan, Sam Zhang, Li Fengji, R. Chen, H. D. Sun and R. S. Rawat, *Enhanced Ferromagnetic Response in ZnO:Mn Thin Films by Tailoring Composition and Defect Concentration* Journal of Magnetism and Magnetic Materials 344, 171-175 (2013)

Usman Ilyas, R. S. Rawat, T. L. Tan, P. Lee, R. Chen, H. D. Sun, Li Fengji and Sam Zhang, *"Enhanced indirect ferromagnetic p-d exchange coupling of Mn in oxygen rich ZnO:Mn nanoparticles synthesized by wet chemical method"* Journal of Applied Physics 111, 33503 ~ 1-7 (2012)

Usman Ilyas, R. S. Rawat, Y. Wang, T. L. Tan, P. Lee, R. Chen, H. D. Sun Fengji Li and Sam Zhang, *"Alteration of Mn Exchange Coupling by Oxygen Interstitials in ZnO:Mn Thin Films"* Applied Surface Science 258 (17), 6373-6378 (2012)

Usman Ilyas, R. S. Rawat, T. L. Tan, P. Lee, R. Chen, H. D. Sun, Li Fengji and Sam Zhang, *"Oxygen rich p-type ZnO thin films using wet chemical route with enhanced carrier concentration by temperature-dependent tuning of acceptor defects"* Journal of Applied Physics 110, 093522 ~1-7 (2011)

Usman Ilyas, R. S. Rawat, G. Roshan, T. L. Tan, P. Lee, S. V. Springham, R. Chen, H. D. Sun, Li Fengji and Sam Zhang, *"Quenching of Surface Traps in Mn doped ZnO Thin Films for Enhanced Optical Transparency"*, Applied Surface Science 258, 890-897 (2011)