Candidate application to the ISGS Board of Directors

Prof. / Dr. …Saira Riaz……

Age: …39 years

Address: *Centre of Excellence in Solid State Physics,*
University of the Punjab, Lahore, Pakistan

CV with main research interests (no longer than 1/2 page)

Major Achievements:

- 1st position in District Okara in S.S.C. Examination
- President Scholarship holder in S.S.C. & F.Sc.
- 1st position in A.I.O.U. in P.G.D. (Computer Science)
- 1st position in M.Phil. Solid State Physics
- Training Program Scholarship from HEC, Pakistan, 2006
- Int. Research Support Initiative (IRSI) Scholarship from HEC, Pakistan, 2006
- Post-doc Fellowship, NCNST, Govt. of Pakistan, 2008
- Selected as Foreign Expert by Institute of Physics, CAS, Beijing, China (2011)
- Selected as Foreign Expert by Institute of Physics, CAS, Beijing, China (2015)

Offices Held:

- Established Nanoelectronics – Chemistry-Research (NCR) Group in Collaboration with LCWU, Lahore
- Honorary Judge, National Science Olympiad held under the auspices of MOE & INTEL
- Honorary Judge, National Science Exhibition held under the auspices of MOE, BSS
- Student Advisor CSSP, Punjab University
- Editor, Solid State Physics Newsletter
- Editor (G) Nanomaterials
- Editor (G) Materials Today: Proceedings

Professional Experience:

- Visiting Researcher, State Key Laboratory of Magnetism, Chinese Academy of Sciences, Beijing, Chi
- Post-doc Fellowship, Spintronics and Nanodevices Lab, Department of Electronics, University of Yo Heslington, York, UK 2008
- Post-doc Fellowship, Spintronics- Materials and Devices, Institute of Physics, CAS, Beijing, China, 2

Experimental Capabilities:

- Can Handle and Supervise
- Sol Gel based synthesis / projects
- Preparation Equipments based on Vacuum
- Optical Lithography Systems
- Microscopy (Optical, Electron)
- Elemental & Structural Properties (Mass Spectrometry, XRD)

Thesis Supervised **6** PhD; **135** MPhil

Conferences / Symposia organized National **02;** International **15**

Awards Received Punjab University Research Productivity Award – 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2016

PCST Research Productivity Award – 2012, 2014, 2015
Productive Scientist of Pakistan

Publications: more than 130 (*IF 250.212*)

Most publications are sol gel based
Details can be found in full resume (attached)

5 recent publications

1. "Synthesis and characterization of room temperature sol–gel-assisted transparent tin-doped magnesium oxide nanoparticles' protective coating" Journal of Sol-Gel Science and Technology, 1-9, 2016 **1.550**
   Islam S, Bidin N, Saeed MA, Riaz S, Bakar MAA, Naseem S, Abbas KN, Sanagi MM

2. "Structural and Magnetic Investigations of Cr Substituted $NiFe_2O_4$ Nanostructures", Journal of Alloys and Compounds, 698, 228-233, Jan 2017 **3.014**
   Azam M, Adeela N, Khan U, Riaz S, Iqbal M and Naseem S

3. "Surfactant and template free synthesis of porous ZnS nanoparticles" Materials Chemistry and Physics, 189, 28-34, Jan 2017 **2.101**
   Akhtar MS, Riaz S, Mehmood RF, Ahmad KS, Alghamdi Y, Malik MA, Naseem S

4. "Synthesis and investigation of structural, morphological, magnetic, dielectric and impedance spectroscopic characteristics of Ni-Zn ferrite nanoparticles" Ceramics International, 43 (2), 2486-2494, Jan 2017 **2.758**
   Atiq S, Majeed M, Ahmad A, Abbas SK, Saleem M, Riaz S, Naseem S

5. "Fabrication and Characterization of Nanocrystalline Al, Co:ZnO Thin Films by Sol-Gel Dip Coating" Optical and Quantum Electronics 49, 223, May 2017 doi:10.1007/s11082-017-1061-0 **1.55**
   Kayani ZN, Ishaque R, Zulfiqar B, Riaz S, Naseem S

Statement of Interest:

In the short span of my research career (2003-date) I have always strived to be a role model scientist for the young ones entering into the research field. The interest that I generated can be seen from the number of thesis supervised (around 10 / year).

I started my sol-gel career back in 2005 during my PhD research; that was an amazing new experience with little facilities to support the research. I hope to go a long way in this field while I am still learning to add on various important steps to the processes. This interest prompted me to stand for this post, and I sincerely hope that I would put all efforts in promoting sol-gel science and technology.