

LIST OF PUBLICATIONS JOURNAL/ INTERNATIONAL CONFERENCE

PUBLICATION

JOURNAL

1. **S. S. Hussain**, V. Brien, H. Rinnert, P. Pigeat, "Influence of the magnetron power on the Er-related photoluminescence of AlN:Er films prepared by magnetron sputtering", **Phys. Status Solidi C** 7 No 1, (2010) 72-75
2. T. Easwarakhanthan, **S. S. Hussain**, P. Pigeat, "Spectroellipsometric Investigation of Optical, Morphological, and Structural Properties of Reactively Sputtered Polycrystalline AlN Films", **Journal of Vacuum Science and Technology A (JVST A)**, 3 No 28, (2010) 495-501
Impact Factor : 2.140
3. H. Rinnert, **S. S. Hussain**, V. Brien, J. Legrand, P. Pigeat, "Photoluminescence properties of Er-doped AlN films prepared by magnetron sputtering", **Journal of Luminescence** 132 (2012) 2367–2370
Impact Factor : 2.367
4. M. A. Saeed, S. Riaz, **S. S. Hussain**, S. Naseem, "Structural and Optical Properties of Sol-Gel Derived $Zn_{1-x}Mn_xO$ Thin Films", **Advanced Science Letters**, 19 No 3, (2013) 789-794
Impact Factor : 1.253
5. Imran Sadiq, Shahzad Naseem, Saira Riaz, Hassan Mahmood Khan , Muhammad Naem Ashiq, **S. Sajjad Hussain**, and Mazhar Rana, "Enhanced microwave absorption properties of CTAB assisted Pr-cu substituted Nanomaterial", **Journal of Magnetism and Magnetic Materials**, 414 (2016) 198–203
Impact Factor: 1.970
6. M. Hassan, R. Irfan, Saira Riaz, Shahzad Naseem, **S. Sajjad Hussain**, G. Murtaza "Structural and Morphological Properties of $Zn_{1-x}Zr_xO$ with Room-Temperature Ferromagnetism and Fabricated by Using the Co-Precipitation Technique", **Journal of the Korean Physical Society**, Vol. 70, No. 5, March 2017, pp. 460~464
Impact Factor: 0.445
7. Imran Sadiq, Shahzad Naseem, Saira Riaz, Hassan Mahmood Khan , **S. Sajjad Hussain**, Hasan M. Khan, Muhammad Naem Ashiq, Mazhar Rana, "Study of structural, magnetic and microwave absorption properties of Dy-Mn substituted nanosized material in X-band frequency range", **Journal of Alloys and Compounds**, (2017), doi: 10.1016/j.jallcom.2017.03.033.
Impact Factor: 3.300
8. A. Abid, M. Hassan, **S. Sajjad Hussain**, Saira Riaz, Shahzad Naseem, "Temperature-Dependent Phase Formation, Surface Morphological and Magnetic Studies of Bismuth Iron Oxide Grown by Co-precipitation Method", **J Supercond Nov Magn**. DOI 10.1007/s10948-017-4067-8
Impact Factor: 1.100

9. M. Hassan, S. Younas, F. Sher, **S. Sajjad Hussain**, Saira Riaz, Shahzad Naseem, “Room temperature ferromagnetism in single-phase $Zn_{1-x}Mn_xS$ diluted magnetic semiconductors fabricated by co-precipitation technique”, **Appl. Phys. A**, (2017) 123:352, DOI 10.1007/s00339-017-0975-5

Impact Factor: 1.444

Materials Today: Proceedings (ICSSP13)

10. S. Riaz, M. Bashir, **S. S. Hussain**, S. Naseem, “Effect of Mn doping concentration on the structural & magnetic properties of sol-gel deposited ZnO diluted magnetic semiconductor”, Amsterdam, The Netherlands: **Atlantis Press**, (2013), 518-522
11. Haroon M. Jaral, **S. Sajjad Hussain**, Saira Riaz, Shahzad Naseem “Effect of annealing on structural and magnetic properties of magnetite Fe_3O_4 thin films using radio frequency magnetron sputtering”, **Materials Today: Proceedings ISSN: 2214-7853**, 2 (2015) 5601 – 5606
12. **S. S. Hussain**, Philippe Pigeat, “Effect of annealing on the Photoluminescence of Er doped AlN thin films grown by PVD magnetron sputtering (RF)”, **Materials Today: Proceedings ISSN: 2214-7853**, 2 (2015) 5236 – 5240
13. Manzar Mashaf Yaqoob, **S Sajjad Hussain**, Saira Riaz and Shahzad Naseem, “Effect of Oxidation Temperature on Structural and Magnetic Properties of Al-doped Iron Oxide Thin Films”. **Materials Today: Proceedings ISSN: 2214-7853**, 2 (2015) 5400 – 5404
14. Robina Ashraf*, Saira Riaz, **S. Sajjad Hussain**, Shahzad Naseem, “Effect of pH on properties of ZnO nanoparticles”, **Materials Today: Proceedings ISSN: 2214-7853**, 2 (2015) 5754 – 5759
15. Aseya Akbar*, Saira Riaz, **S. Sajjad Hussain**, Shahzad Naseem, “Magnetic properties of sol-gel deposited magnetite thin films”, **Materials Today: Proceedings ISSN: 2214-7853**, 2 (2015) 5395 – 5399
16. Muhammad Ashraf, **S. Sajjad Hussain**, Saira Riaz, Shahzad Naseem, “Preparation and characterization of ZnCdS and CdTe thin films by PVD for photovoltaic applications”, **Materials Today: Proceedings ISSN: 2214-7853**, 2 (2015) 5695 – 5699
17. Muhammad Habib, **S. Sajjad Hussain**, Saira Riaz, Shahzad Naseem, “Preparation and characterization of ZnO nanowires and their applications in CO_2 gas sensors”, **Materials Today: Proceedings ISSN: 2214-7853**, 2 (2015) 5714 – 5719
18. S Mazhar H Shah, Saira Riaz, **S Sajjad Hussain**, Shahid Atiq, Shahzad Naseem, “Structural, Magnetic and Dielectric Properties of Ba Doped $BiFeO_3$ Thin Films”, **Materials Today: Proceedings ISSN: 2214-7853**, 2 (2015) 5654 – 5659
19. Raja Shehryar Ali, **S. Sajjad Hussain**, Saira Riaz, Shahzad Naseem, “Structural, optical and electrical characterization of Fe_3O_4 thin films prepared using PVD magnetron sputtering (RF)”, **Materials Today: Proceedings ISSN: 2214-7853**, 2 (2015) 5543 –

20. **S. Sajjad Hussain**, Philippe Pigeat, “Time-resolved spectroscopy of Er doped AlN thin films with columnar and nanogranular morphologies grown by PVD magnetron sputtering (RF)”, **Materials Today: Proceedings ISSN: 2214-7853**, 2 (2015) 5361 – 5364

INTERNATIONAL CONFERENCE

21. V. Brien, M. Dossot, H. Rinnert, **S. S. Hussain**, B. Humbert, P. Pigeat, “Optical Characterization of Nanocrystallized AlN and AlN:Er Films Prepared by Magnetron Sputtering”, **Mater. Res. Soc. Symp. Proc. 111-D02-03 (2009)**, *International Conference MRS Fall Meeting, 11-16* th December, 2008, Boston USA.
22. S. Farooq, **S. S. Hussain**, S. Riaz, S. Naseem, “ZnO / c-Si Solar cell Fabricated through Sol-Gel and Spin Coating”, *World congress on Advances in, Civil, Environmental, and materials Research (ACEM 12)*, August 26-29, 2012, **ISBN 978-89-89693-34-5-98530**, Proc. The 2012 Intl. Conf. on Adv. In Mater. Res. (ICAMR), (http://www.i-asem.org/acem12_publication.html), *Seoul, Korea*.
23. S. Riaz, Mehwish Bashir, **S. S. Hussain**, S. Naseem, “Effect of Mn-doping Concentration on the Structural & Magnetic Properties of Sol-Gel Deposited ZnO Diluted Magnetic Semiconductor”. *Presented at International Conference on Advanced Materials and manufacturing Science (ICAMMS)*, December 21-21, 2012, *Beijing, China*
24. Saira Riaz, **S. S. Hussain**, Shahzad Naseem, “Preparation and Characterization of Cu – ZnTe Thin Films,” Proc. *World congress on Advances in, Nano, Biomechanics, Robotics, and Energy Research (ANBRE13)*, August 25-28, 2013, **ISBN 978-89-89693-36-9- 93420**, *Seoul, Korea*. (http://www.i-asem.org/anbre13_publication.html)
25. Saira Riaz, Aseya Akbar, **S. S. Hussain**, Shahzad Naseem, “Magnetic and Magnetization Properties of Sol-Gel deposited Magnetite Thin Films,” *The 3rd International symposium on Advanced Magnetic Materials and Applications (ISAMMA)*, July 21-25, 2013, *Taichung, Taiwan*
26. S. Honey, S. Riaz,, **S. S. Hussain**, S. Naseem, “ Effect of Calcination on Phase transition in Titania Nanoparticles”, *World congress on Advances in, Civil, Environmental, and materials Research (ACEM 14)*, 24-28, **ISBN 978-89-89693-38-3- 93530**, Aug 2014, BEXCO, Busan, **Korea**. (http://www.i-asem.org/acem14_publication.html)
27. M. Akhtar, S. Riaz,, **S. S. Hussain**, S. Naseem, “ Magnetic properties of un-doped and Fe-doped ZnS thin films”, *World congress on Advances in, Civil, Environmental, and materials Research (ACEM 14)*, 24-28, **ISBN 978-89-89693-38-3- 93530**, Aug 2014, BEXCO, Busan, **Korea**. (http://www.i-asem.org/acem14_publication.html)
28. A. Akbar, S. Riaz,, **S. S. Hussain**, Z Kayani, S. Naseem, “ Effect of Co Doping on Structural Properties of Hematite Thin Films”, *World congress on Advances in, Civil, Environmental, and materials Research (ACEM 14)*, 24-28 Aug 2014, **ISBN 978-89-89693-38-3- 93530**, BEXCO, Busan, **Korea**(http://www.i-asem.org/acem14_publication.html)

29. A. Akbar, S. Riaz,, S. Naseem, **S. S. Hussain**, “ Effect of Al doping on Structural and Magnetic Properties of Iron oxide Thin Films prepared by Sol-Gel Method”, *World congress on Advances in, Civil, Environmental, and materials Research (ACEM 14)*, 24-28, **ISBN 978-89-89693-38-3- 93530**, Aug 2014, BEXCO, Busan, **Korea**.
(http://www.i-asem.org/acem14_publication.html)
30. **S. Sajjad Hussain**, Farman Ullah Khan, Saira Riaz, Shahzad Naseem, “Sol-Gel Prepared and Spin Coated TiO₂ Thin Films for DSSC: Optical and Structural Properties”, Proceedings: International Conference Sustainable Materials Science and Technology, **Paris (France), 15-17 July 2015**
31. **S. Sajjad Hussain**, Muhammad Imran , Saira Riaz, Shahzad Naseem, “Variations in Structural and Magnetic Properties of Sol-Gel deposited Hematite – Dependence on Annealing Conditions”, Proceedings: International Conference Sustainable Materials Science and Technology, **Paris (France), 15-17 July 2015**
32. Saira Riaz, Aseya Akbar, **S Sajjad Hussain**, Shahzad Naseem, “Systematic Magnetic and Dielectric Investigations of Aluminum Doped Iron Oxide Thin Films”, (**ACEM16**) **The 2016 World Congress on Advances in Civil, Environmental, and Materials Research**, <http://acem16.com/>, Jeju island, Korea on August 28 - September 1, 2016.
33. Saira Riaz, **S Sajjad Hussain**, Aseya Akbar, Shahid Atiq, Shahzad Naseem, “ Thickness Dependent Magnetic and Dielectric Behavior of Iron Oxide Thin Films”, (**ACEM16**) **The 2016 World Congress on Advances in Civil, Environmental, and Materials Research**, <http://acem16.com/>, Jeju island, Korea on August 28 - September 1, 2016.
34. Saira Riaz, **S Sajjad Hussain**, Shahzad Naseem, “Structural and Magnetic Properties of Monodispersed Iron Oxide Nanoparticles for use in Magnetic Resonance Imaging”, (**ACEM16**) **The 2016 World Congress on Advances in Civil, Environmental, and Materials Research**, <http://acem16.com/>, Jeju island, Korea on August 28 - September 1, 2016.
35. **S Sajjad Hussain**, Saira Riaz, Hadia Noor, Asghar Hashmi, Shahzad Naseem, “UV Photoluminescence of ZnO Nanostructures Based Thin films synthesized by Sol Gel method”, (**ACEM16**) **The 2016 World Congress on Advances in Civil, Environmental, and Materials Research**, <http://acem16.com/>, Jeju island, Korea on August 28 - September 1, 2016.

CONFERENCE PARTICIPATION

(Invited talk/ Oral/ Poster/ WORKSHOP/ SEMINARS)

INTERNATIONAL CONFERENCE

1. Oral Presentation: **International Conference MRS Fall Meeting**, on “Optical Characterization of Nanocrystallized AlN and AlN:Er Films Prepared by Magnetron Sputtering”, V. Brien, M. Dossot, H. Rinnert, **S. S. Hussain**, B. Humbert, P. Pigeat, 5th December, **2008**, Boston, **USA**.
2. Oral Presentation: **Journée des Doctorants du LPMIA**, “Réalisation de Dépôts par Plasma Magnétron de Film AlN Dopé Er, pour l'étude de L'influence de la Nano Cristallisation sur les Propriétés Optiques”, **S.S. Hussain**, V. Brien, H. Rinnert, P. Miska, P. Pigeat, 3rd July, 2008, **Nancy France**.
3. Oral Presentation: **E-MRS 2009 Spring Meeting**, on “Influence of Magnetron Power on the Infra-red Photoluminescence of Nanostructured Magnetron Sputter Deposited AlN:Er Films”, **S. S. Hussain**, V. Brien, H. Rinnert, P. Pigeat, 8-12 June, **2009**, **Strasbourg France**.
4. Oral Presentation: **12th International Symposium on Advanced Materials** on “Influence of Annealing Treatment on Near Infrared Photoluminescence of Er Doped AlN Thin Films with Columnar Morphology”, **S. S. Hussain**, December, **2011**, **Islamabad, Pakistan**.
5. Oral Presentation: **2nd International Conference on Semiconductor Materials and Nano-Devices (ICSMAND-2011) IUB, Pakistan** on “Time-resolved Spectroscopy Er Doped AlN Thin Films with Columnar and Nanogranular Morphologies Grown by PVD Magnetron Sputtering” **S.S. Hussain**, 10-12 October **2011, Pakistan**
6. Oral Presentation: **The 2012 World Congress on Advances in Civil, Environmental, and Materials Research (ACEM' 12)**, “ZnO / c-Si Solar cell Fabricated through Sol-Gel and Spin Coating”. **August 26-30, 2012, Seoul, Korea**.
7. Oral Presentation: **International Confrence on Information , Business and Education Technology (ICIBET 2012)**, “Effect of Mn-doping Concentration on the Structural & Magnetic Properties of Sol-Gel Deposited ZnO Diluted Magnetic Semiconductor”. **December 20-21, 2012, Beijing, China**.
8. Oral Presentation: **World congress on Advances in, Nano, Biomechanics, Robotics, and Energy Research (ANBRE13)**, “Preparation and Characterization of Cu – ZnTe Thin Films, Saira Riaz, **S. S. Hussain**, Shahzad Naseem ”, **August 25-28, 2013, Seoul, Korea**
9. **Invited talk: “International Conference on Solid State Physics (ICSSP'13)”**
” Effect of annealing on the Photoluminescence of Er doped AlN thin films grown by PVD magnetron sputtering (RF)”, **02 – 06 December, 2013 Lahore, Pakistan**.

10. Oral Presentation: **“International Conference on Solid State Physics (ICSSP’13)”** , “Time-resolved spectroscopy of Er doped AlN thin films with columnar and nanogranular morphologies grown by PVD magnetron sputtering(RF)”, **02 – 06 December, 2013 Lahore, Pakistan**
11. Oral Presentation: **The 2014 World Congress on Advances in Civil, Environmental, and Materials Research (ACEM’ 14)**, “Effect of Co Doping on Structural Properties of Hematite Thin Films”. **24-28 Aug 2014, BEXCO, Busan, Korea.**
12. Oral Presentation: **The 2014 World Congress on Advances in Civil, Environmental, and Materials Research (ACEM’ 14)**, “Effect of Al doping on Structural and Magnetic Properties of Iron oxide Thin Films prepared by Sol-Gel Method”. **24-28 Aug 2014, BEXCO, Busan, Korea.**
13. Oral Presentation: **International Conference Sustainable Materials Science and Technology, (SMST)**, “Sol-Gel Prepared and Spin Coated TiO₂ Thin Films for DSSC: Optical and Structural Properties”, **Paris (France), 15-17 July 2015**
14. Poster Presentation: **International Conference Sustainable Materials Science and Technology, (SMST)**, “Variations in Structural and Magnetic Properties of Sol-Gel deposited Hematite – Dependence on Annealing Conditions”, **Paris (France), 15-17 July 2015**
15. Poster Presentation: **10th Conference of Plasmas Division of the French Physical Society (SFP)**, on “Influence of Polarisation of Substrat on Photoluminescence of AlN :Er Films Prepared by PVD Magnetron rf”, **S.S. Hussain, V. Brien, H. Rinnert, P. Miska, P. Pigeat, 19th-21st May, 2008, Paris France.**
16. Poster Presentation: **Doctoriales de Lorraine**, on “ Elaboration, characterization structural and luminescence of Er doped AlN thin film deposition obtained by PVD magnetron RF”, **S. S. Hussain, V. Brien, H. Rinnert, P. Pigeat, 17th-21st May, 2010, Ventron France.**
17. Poster Presentation: **Journée Scientifique STAN**, on “Influence of Polarisation of Substrat on Photoluminescence of AlN :Er Films Prepared by PVD Magnetron RF”, **S.S. Hussain, V. Brien, H. Rinnert, P. Miska, P. Pigeat, 3rd April, 2008, UHP Nancy 1 France.**
18. Poster Presentation: **Journées Surface et Interfaces**, on “Influence of Polarisation of Substrat on Photoluminescence of AlN :Er Films Prepared by PVD Magnetron RF”, **S.S. Hussain, V. Brien, H. Rinnert, P. Miska, P. Pigeat, 27th-29th January, 2009, UHP Nancy 1 France.**
19. Poster Presentation: **One Day Conference of L’Ecole Doctorale EMMA 2010**, on “Elaboration, Characterization Structural and Luminescence of Er Doped AlN Thin Film Deposition Obtained by PVD Magnetron RF”, **S. S. Hussain, V. Brien, H. Rinnert, P. Pigeat, 10th June, 2010, UHP Nancy 1 France.**

20. PARTICIPATION : **One Day Conference of L'Ecole Doctorale EMMA 2008**, 15th May, 2008, UHP Nancy 1 France.
21. PARTICIPATION: **36th and 37th, International Nathiagali Summer College (INSC)** on Physics and Contemporary Needs. July 2011 and 2012, Nathiagali, **Pakistan**.
22. PARTICIPATION: **2nd International Conference on Semiconductor Materials and Nano-Devices**, (10-12) October, 2011, at the Islamia University of Bahawalpur, **Pakistan**.
23. PARTICIPATION: **12th international symposium on advanced materials**, NCP, 26-30 September 2011, **Islamabad, Pakistan**.

NATIONAL CONFERENCE

- Oral Presentation: **PIP Conference–2011**, on “Influence of Er Concentration on Near Infrared and Visible Photoluminescence of Er-doped AlN Thin Films”, **S. S. Hussain**, 28th-31st March, 2011, Pakistan Institute of Physics Lahore **Pakistan**

WORKSHOP

- ***One day workshop on Lasers and Nanotechnology, Department of Physics, UET, June 14, 2012, Lahore, Pakistan.***
- ***International School on New Trends in Quantum Information Theory, Department of Physics, Syed Babar Ali School of Science and Engineering, LUMS, Sept 12-13, 2014, Lahore, Pakistan.***
- **36th and 37th, International Nathiagali Summer College (INSC)** on Physics and Contemporary Needs. July 2011 and 2012, Nathiagali, **Pakistan**.
- ***Winter College on Optics: Optical Frequency Combs (15-26 February 2016) the Abdus Salam, International Centre for Theoretical Physics, ICTP, Trieste - ITALY***

SEMINARS

- Oral Presentation: on “Elaboration, Characterization Structural and Luminescence of Er Doped AlN Thin Film Deposition Obtained by PVD Magnetron RF”, **S. S. Hussain**, 15th February 2011, Center of Excellence in Solid State Physics University of the Punjab **Lahore Pakistan**.