**CURRICULUM VITAE**

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**Dissertation Titles:-**

**PhD Thesis:** (Supervisor: Prof. Dr. Saadat Anwar Siddiqi, Pakistan, Centre for Solid State Physics, University of Punjab, Lahore, Pakistan).

Fabrication, Characterization and Structural Study of Ferrites of Technical Importance

**M.Phil. Thesis:** (Supervisor: Prof. Dr. Asghari Maqsood, Quaid-i-Azam University Islamabad).

Preparation and characterization of Y-Ba-Na-Cu-O superconductors

**M.Sc (Physics with major Advanced Electronics)**

**Internship:** 15 months (Pulsed Laser deposition system, VSM, Magneto-optics)

(Korea Advanced Institute of Science and Technology, South Korea)

Teaching Experience: 15- years to teach F.Sc and undergraduate classes in Pakistan

**Publications (SCI Journals):-**

1. Manganese-cobalt and zinc-based mixed-oxide spinels as novel catalysts for the chemical recycling of Poly(ethylene terephthalate) via glycolysis

Muhammad Imrana, Do Hyun Kimb, Waheed A. Al-Masrya, Asif Mahmooda, Azman Hassanc, Sajjad Haidera, **Shahid M. Ramay**

Polymer Degradation and Stability, Volume 98, Issue 4, April **2013**, Pages 904–915

1. RKKY magnetic interactions in chemically synthesized Zn0.95-xFe0.05AlxO (x=0, 0.03,0.05, 0.07) nanocrystallites

**Shahid M. Ramay**, Murtaza Saleem, Shahid Atiq, Saadat A. Siddiqi,

Muhammad Imran, Yousef S. Al-Zeghayer, Abdulrhman S. Al-Awadi,

Sajjad Haider, Asif Mahmood **(*Accepted and online in Arabian Journal of chemistry 2013)***

1. Appraisal of drinking water quality of Tehsil Jampur, Pakistan

H.M. Rafiquea, Iftikhar Abbasb, Muhammad A. Sohlc, Ramoona Shehzadia, **Shahid Mahmood Ramay**, Muhammad Imrand, Yousef Al-Zaghayerd, Asif Mahmoodd\* & Maryia N. Sohle

Desalination and Water Treatment, **doi:10.1080/19443994.2013.803936, 2013**

1. Spatio-temporal analysis of groundwater regime within Rawalpindi Municipal Jurisdiction, Pakistan

Iftikhar Abbas, H.M. Rafique, Muhammad A. Sohl , Attia Falak, **Shahid Mahmood**, Muhammad Imran , Yousef Al-Zaghayer , Adulrehman Al-Awadi d & Asif Mahmood

doi: 10.1080/19443994.2013.786658, **2013**

1. Effect of Co substitution on the structural, electrical, and magnetic properties of Bi0.9La0.1FeO3 by sol-gel synthesis

Ghulam Ali, Saadat A. Siddiqi, **Shahid M. Ramay**, Shahid Atiq, and Murtaza Saleem, Volume 20, Number 2, February **2013**, P-166

1. Carriers-assisted Enhanced Ferromagnetism in Al-doped ZnMnO

Nano-crystallites,

Shahid Atiqa; Saadat A. Siddiqia, Fazal Abbasa, Murtaza Saleema, **Shahid M. Ramay** Vol. 26, AUGUST 27, **2013**

1. Visible-light-induced Ag/ZnFeO magnetic photocatalysts for degradation of methylene blue

**Shahid Mahmood Ramay**, Hafiz Rafiq, Muhammad Imran, Muhammad Shahabuddin, Asif Mahmood ***(Accepted and Revised 2013)***

1. Dielectric and magnetic investigations of mixed cubic spinel

ferrites with controlled Mg content

Afaq H. Piracha, **Shahid M. Ramay** , Shahid Atiq Saadat A. Siddiqi , Murtaza Saleem, Muhammad Sabieh Anwar ***(Submitted in Applied Physics A , 2013)***

1. Structural and low temperature magnetic characterization of Pb-doped strontium hexaferrites

Shahid M Ramay; Shahid Atiq, Murtaza Saleem; Saadat A Siddiqi; Muhammad, Asif; Muhammad Imran; Muhammad Shahab

***(Submitted in Powder Technology , 2013)***

1. Enhanced Magnetic Moment of Epitaxial γ-Fe4N Films at Low Temperature

Shahid Atiq, Murtaza Saleem and **Shahid M. Ramay**

Journal of the Korean Physical Society, Vol. 60, No. 10, May 2012, pp. 1745-1748

1. Effect of annealing time on structural and magnetic properties of laser

ablated oriented Fe3O4 thin films deposited on Si(100)

**SHAHID M RAMAY**, SAADAT A SIDDIQI, M SABIEH ANWAR1, C Y PARK and S -C SHIN

**Bull. Mater. Sci., Vol. 35, No. 4, August 2012, pp. 501–503.**

1. Origin of Ferromagnetism in Al and Ni Co-doped ZnO Based DMS Materials

*Murtaza Saleem1, Saadat A. Siddiqi1, Shahid M. Ramay, Shahid Atiq, Shahzad Nas*e*em*

***CHIN. PHYS. LETT. Vol. 29, No. 10 (2012) 106103***

1. Enhancement Of Energy Product With Insertion Of Ti Between Exchange Coupled Sm–Co and Fe Layers

*Furrukh Shahzad, Saadat Anwar Siddiqi, Shi-Shen-Yan, M. Sabieh Anwar and* ***S.M. Ramay,*** *International Journal of Modern Physics B 25, 2957, 2011*

1. Structural, magnetic and electrical properties of Al3+ substituted CuZn-ferrites

***S.M. Ramay****, S. Atiq, M. Saleem, M.S. Awan, S. A. Siddiqi, S. Naseem, Chinese Journal of chemical physics,Vol. 23, No. 5, 591, 2010*

1. Effect of Temperature on Structural and Magnetic Properties of Laser Ablated iron Oxide Deposited on Si(100)

***Shahid M. Ramay****, Saadat A. Siddiqi, M. Sabieh Anwar and S. C. Shin,*Chinese Physics Letters, Vo. 26, No. 11, 117504, 2009

1. High-Tc superconductivity in Bi1.6Pb0.4Sr2Ca2Cu2+xOy compounds

*Zahida Ali, Asghari Maqsood, Muhammad Maqsood,* ***S.M. Ramay****, Mohammd Yousaf, and Anwar-ul-Haq,*  Supercond. Sci. Technol. **9** 197, 1996

1. Preparation and physical properties of Y-Ba-Na-Cu-O high-*T*c superconductors

***S. M. Ramay****, M. Yousaf, M. Maqsood and A. Maqsood,* ***Journal of materials science letters*** *15 (1996) 680-682*

**Techniques and Skills:-**

* X-ray Diffraction (XRD).
* Rietveld Refinement with XRD
* Electronic Structure calculations with Wien2K code
* Scanning Electron Microscopy (SEM).
* Vibrating Sample Magnetometer
* Pulsed laser deposition technique
* Sol-gel combustion Method
* Van der Paw four probe electrical resistivity and Hall effect measurements
* Dielectric constant measurements with LCR Meter
* Spin coater thin films
* E-beam sputter coater
* UV-vis spectrophotometer
* FTIR Analysis
* TG/DTG/DTA Analysis