**CURRICULUM VITAE**

Personal

Name: MOHAMMED SHAHABUDDIN

. Date of birth: 15-08-1964

Marital status: Married (three children)

Postal address Department of Physics, College of science,

P.O. BOX – 2455

King Saud University

Riyadh, KSA

*e-mail: mshahab@ksu.edu.sa*

*e- mail: shahb\_ph@yahoo.com*

*URL – http://faculty.ksu.edu.sa/72366*

**Academic Qualification**

**Ph.D.**

University/Institute: Indian Institute of Technology (I.I.T.) Kanpur, India.

Year of award: 1993

GPA/CPI: 9.15 in scale of 10

Major Area: Experimental Condensed Matter Physics

Sub specialization: Superconductivity

Thesis title: EPR and Microwave Absorption in High Tc Cuprate Superconductors.

**M.Sc.**

University/Institute: Indian Institute of Technology (I.I.T.) Kanpur, India.

Year of award: 1986

GPA/CPI: 7.5 in scale of 10

Major: Physics

Specialization: Condensed Matter Physics.

**B.Sc**.

University/Institute: University of Bihar Muzaffar Pur, India.

Year of Award: 1983

GPA/CPI: 69% in absolute marking

Major: Physics

Minor: Maths and Chemistry

**Present Employment:**

**Associate Professor:**

Duration: September, 2004 to date

Nature: Contractual

University: Department of Physics and Astronomy, College of Science, King Saud University, Riyadh

**Employment history:**

**Professor:**

Duration: Jan 25, 2008 to Sep 20, 2010

Nature: Permanent Faculty member (Taken Premature retirement in Sept 2010)

University: Department of Physics, Jamia Millia Islamia, New Delhi, India.

**Associate Professor (Reader):**

Duration: Jan 25, 2000 to Jan 24,2008

Nature: Permanent Faculty member

University: Department of Physics, Jamia Millia Islamia, New Delhi, India.

**Senior Assistant Professor ( Senior lecturer)**

Duration: Jan 25, 1995 to Jan 24, 2000

Nature: Permanent Faculty member

University: Department of Physics, Jamia Millia Islamia, New Delhi, India

**Assistant Professor ( Lecturer)**

Duration: Jan 25, 1990 to Jan 24, 1995

Nature: Permanent Faculty member

University: Department of Physics, Jamia Millia Islamia, New Delhi, India.

**Post Doctoral Visiting Fellow**

Duration: Sep 2000, to Sep 2001.( one year)

Nature: Under Commonwealth Fellowship Scheme

University: Dept of Physics and Astronomy, University of Southampton, U.K

**Post Doctoral Visiting Fellow**

Duration: Nov 1996 to May 1997.

Nature: Under DAAD Fellowship Scheme

University: Institute of Solid State Phys, University of Jena, Germany

**Scholarship and Fellowship awarded**

(i) Commonwealth Fellowship of U.K. for one year (Sep 2000 to Sep 2001)

(ii) DAAD Fellowship of Germany for six months (Nov. 1996 to May 1997)

1. CSIR Fellowship through national level test (NET) during Ph.D.
2. Merit scholarship throughout B.Sc. and M.Sc.

**Teaching Experiences (21 years)**

***Theory Courses taught at graduate level.***

1. Advanced solid State physics
2. Band theory of solids
3. Novel Materials
4. Atomic and Molecular Physics
5. Statistical Mechanics
6. Mathematical Physics

***Theory Courses taught at under graduate level***

1. Experimental technique in Physics
2. Instrumentation and Digital Electronics
3. Digital Electronics
4. Microprocessor
5. Structure of matter
6. Basic Electronics
7. Phys 145 For Medical students
8. Phys 105 For Architecture students

## Invited Talk On:

1. *"High Tc Superconductors" at Work* shop on Novel Materials held on 9th Jan 2008 at King Abdul Aziz City for Science and Technology, Riyadh , Saudi Arabia*.*
2. *"Prospects of Mg B2 high Tc Superconductors in high magnetic field" at* Work shop on Novel Materials held on 9th Jan 2008 at King Abdul Aziz City for Science and Technology, Riyadh , Saudi Arabia
3. “*Low field Microwave Absorption in High Tc Superconductors*” at Institute of Festkorper-physik, Friedrich Schiller University, Jena, Germany, **on 11th April 1997.**
4. *“Effect of Temperature and Field cooling on Low Field Microwave Absorption in High Tc Super conductors”* at Institute Fur Festkorper-und Werkstofforschung, Dresden, Germany, on  **5Th May 1997.**
5. *“ Simulation of I-V characteristics of Intrinsic Stacked Josephson junctions Array as a function of Magnetic field and Microwave power”* **on April 4, 1997**  at Institute of Festkorper-physik, Friedrich Schiller University, Jena, Germany, in April 1997.

**Research Experience**

**Ph.D students supervision at KSU.**

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | *Name of student* | *Thesis title* | status |
| 1. | Kismat Shaikh | Synthesis and magnetic and electrical properties measurement of CNT- MgB2 nano composites. | continuing |
| 2. | Jafar M. P. | Enhancement of critical current density and Mechanical strength of MgB2 superconductors by doping hydrocarbon / carbon hydrate | continuing |
| 3. | Shahabuddin Shah | Development and Fabrication of MgB2 Based Superconducting Wires | continuing |

**Ph. D. Thesis Supervised at Jamia Millia Islamia New Delhi.**

|  |  |  |  |
| --- | --- | --- | --- |
| *S.no* | *Name of student* | *Thesis title* | *Awarding date and University* |
| 1 | Krishan Pal Singh | Study of Electronic and transport properties of nanostructures using computer simulation | June 2010JMI New Delhi |
| 2 | Intikhab A. Ansari | Study of Fluctuation Induced Conductivity and Magnetic Properties of Nano-Metal Oxide Doped MgB2 Superconductors | 2007JMI, New Delhi |
| 3 | K. Premjit Singh | Synthesis and Physical Property Characterization of Pure and Nano-Magnetic Ions Doped Vacuum Annealed MgB2 Superconductor | 2007JMI, New Delhi |
| 4 | Jamal Akhter | Studies on Microwave Response of High Tc Superconductors Josephson Junctions and Arrays | 2002JMI, New Delhi |
| 5 | Rajveer Singh | Magnetic and transport properties of doped Cuprate superconductors | 2000JMI New Delhi |
| 6 | A..S.M. Abddel-Maksoud | Studies of Effect of Substitution and Columnar Defects on the Transport and Magnetic Properties of High Temperature Superconductors | 1998 JMI, New Delhi |

**M Sc. Students supervised at KSU**

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | *Name of student* | *Thesis title* | status |
| 1 | Fahad Saad Al-Ghamdi | Optimization of the dispersion of CNT dopants in the CNT-MgB2 composite Superconductors | Completed 2012 |
| 2 | Ismail Abdullah Alfaleh | Design and fabrication of High sensitive AC susceptometer applied to MgB2 Superconductor | Completed in 2008 |
| 3. | Saleh Shaddad Abdullah Alamri | Synthesis and Charaecterization of nano Carbon doped MgB2 Superconductors | Completed in 2009 |

**Research projects continuing and completed**.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.  no | **Project Title** | **Starting Year / P.I. or Co-I.** | **Amount (in Saudi Riyals)** | **Source of Funding** | **Year of completion/ continuing** |
| 1 | Synthesis of MgB2 Thin Films by Pulsed Laser Deposition for Device  Applications | Approved Oct. 2010  **Co.I.** | **1.9** Million | National Plan for Science and Technology | Continuing  2013 |
| 2 | "Development and Fabrication of MgB2 Based Superconducting Wires | Sept. 2010  **P.I** | **1.75** Million | National Plan for Science and Technology | continuing  Aug 2013 |
| 3 | Modification and electromagnetic Properties of MgB2 Superconductors by Nano materials doping for high magnetic field application | Jan 2010  **P.I** | **1.993**  Million | National Plan for Science and Technology | continuing  Dec 2012 |
| 4 | Synthesis and magnetic and electrical properties measurement of CNT- MgB2 nano composites | Nov. 2008  **P.I.** | **678,000** | King Abdullah Institute of nano Technology(KAIN) KSU, Riyadh | Completed  Dec 2010 |
| 5 | Enhancement of critical current density and Mechanical strength of MgB2 superconductors by doping hydrocarbon / carbon hydrate | June 2008  **P.I.** | **321,000** | Center of Excellence Research in engineering materials **(CEREM)** | completed  July 2009 |
| 6 | Preparation and study of the magnetic and electrical properties of nano-particle Fe3O4 doped MgB2 superconductors | Sep 2007  **P.I**. | **42,000** | Research center, college of Sciencee King Saud University, Riyadh | completed  June 2009 |
| 7 | Nano-carbon substitution effect on electrical and magnetic properties of Magnesium Diboride superconductors | Sep 2007  **Co-I.** | **45,000** | Research center, college of Sciencee King Saud University, Riyadh | completed  June 2009 |
| 8 | Design and Fabrication of High sensitive AC Susceptometer | May 2005  **P.I.** | **45,000** | Research center, college of Sciencee King Saud University, Riyadh | Completed  March 2007 |
| 9 | Design and fabrication of micro-Hall probe magnetometer for the measurement of magnetization and ac susceptibility of High Tc Superconductors | 2005  **P.I.** | **30,000** | Research center, college of Sciencee King Saud University, Riyadh | Completed  Dec. 2006 |
| 10 | Influence of Carbon Doping on the Magnetic Properties of MgB2 Superconductors | May 2005  **Co-I** | **30,000** | Research center, college of Sciencee King Saud University, Riyadh | completed  Dec. 2006 |

**List of Publication (M. Shahabuddin)**

1. [Correlation between in-field J(c) enhancement and grain connectivity in co-doped MgB2 superconductor](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=T1VxiyONXtAjPwY57RB&page=1&doc=1), [Barua, S](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Barua,%20S) ; [Patel, D](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Patel,%20D) ; [Alzayed, N](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Alzayed,%20N&cacheurlFromRightClick=no" \o "Find more records by this author) ; **[Shahabuddin, M](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Shahabuddin,%20M" \o "Find more records by this author)** ;[Parakkandy, JM](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Parakkandy,%20JM" \o "Find more records by this author) ; [Shah, MS](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Shah,%20MS) ; [Ma, ZQ](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Ma,%20ZQ) ; [Mustapic, M](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Mustapic,%20M" \o "Find more records by this author) ;[Al Hossain, MS](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Al%20Hossain,%20MS) ; [Kim, JH](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Kim,%20JH)  MATERIALS LETTERS  Volume: 139   Pages: 333-335   Published: JAN 15 2015 DOI: 10.1016/j.matlet.2014.09.076
2. Role of MgB2/Cr2O3 nano-interfaces in photoinduced nonlinear optical treatment of the MgB2 superconducting films; [AlZayed, NS](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=AlZayed,%20NS) ; [Kityk, IV](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Kityk,%20IV&ut=12194844&pos=%7b2%7d&excludeEventConfig=ExcludeIfFromFullRecPage" \o "Find more records by this author) ; [Ozga, K](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Ozga,%20K" \o "Find more records by this author);  [Fedorchuk, AO](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Fedorchuk,%20AO" \o "Find more records by this author) ; [Soltan, S](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Soltan,%20S&ut=16465208&pos=%7b2%7d&excludeEventConfig=ExcludeIfFromFullRecPage" \o "Find more records by this author) ; [**Shahabuddin, M**](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=Shahabuddin,%20M) ; [El-Naggar, A](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=T1VxiyONXtAjPwY57RB&field=AU&value=El-Naggar,%20A);  PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURESVolume: **63** Pages: 180-185 (SEP 2014) DOI: 10.1016/j.physe.2014.05.022
3. Rational design of MgB2 conductors toward practical applications; Dipak Patel, Md Shahriar Al Hossain , Ashkan Motamana , Shaon Baruaa , **Mohammed Shahabuddin**, Jung Ho Kim**; Cryogenics**  [**63**](http://www.sciencedirect.com/science/journal/00112275/63/supp/C), September–October 2014, Pages 160–165 Published on line (2014) <http://dx.doi.org/10.1016/j.cryogenics.2014.04.016>
4. Multi-Walled Carbon Nanotube-derived Superior Electrical, Mechanical, and Thermal Properties in MgB2 Wires: Dipak Patel, Minoru Maeda, Seyong Choi, Seong Jun Kim, **Mohammed Shahabuddin**, Jafar Meethale Parakandy, Md Shahriar Al Hossain, Jung Ho Kim; [Scripta Materialia](http://www.sciencedirect.com/science/journal/13596462) [**Volume 88**](file:///C:\Documents%20and%20Settings\userabc\My%20Documents\Dropbox\Shahab%20publication\Volume%20%2088)**,** Pages 13–16 (1 October 2014) **doi:** <http://dx.doi.org/10.1016/j.scriptamat.2014.06.010>
5. Flux Pinning Mechanism and Hc2-Anisotropy in Melanin Doped Bulk MgB2  [M. Shahabuddin Shah](http://www.sciencedirect.com/science/article/pii/S0921453414000720),, [**Mohammed Shahabuddin**](http://www.sciencedirect.com/science/article/pii/S0921453414000720),  [Nasser S. Alzayed](http://www.sciencedirect.com/science/article/pii/S0921453414000720), [Jafar M. Parakkandy](http://www.sciencedirect.com/science/article/pii/S0921453414000720) **PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS ,** [**Volume 501**](http://www.sciencedirect.com/science/journal/09214534/501/supp/C)**,** 15 June 2014, Pages 19–23 **(Online published APRIL 2014)** [**http://dx.doi.org/10.1016/j.physc.2014.03.012**](http://dx.doi.org/10.1016/j.physc.2014.03.012)
6. Laser stimulated kinetics effects on the phase transition of the ferromagnetic/ superconducting MgB2/(CrO2) bilayer thin films; N.S. Al Zayed, I.V. Kityk, S. Soltan, A. Wojciechowski, A.O. Fedorchuk, G. Lakshminarayana, M. Shahabuddin; [Journal of Alloys and Compounds](http://www.sciencedirect.com/science/journal/09258388) [Volume **594**](http://www.sciencedirect.com/science/journal/09258388/594/supp/C), 5 May 2014, Pages 60–64 <http://dx.doi.org/10.1016/j.jallcom.2014.01.035>
7. Percolative nature of current transport in polycrystalline MgB2 wires; **Mohammed Shahabuddin**, Nasser Saleh Alzayed a, Sangjun Oh b, Seyong Choi c, Minoru Maeda d, Muhammed Shahabuddin Shah a, AshkanMotaman e, Md Shahriar Al Hossain e, Jung Ho Kim; [Solid State Communications](http://www.sciencedirect.com/science/journal/00381098)**;** [Volume **181**](http://www.sciencedirect.com/science/journal/00381098/181/supp/C), (2014), Pages 20–23 <http://dx.doi.org/10.1016/j.ssc.2013.11.029>
8. Microstructural and crystallographic imperfections of MgB2 superconducting wire and their correlation with the critical current density; **Mohammed Shahabuddin**, Nasser S. Alzayed, Sangjun Oh, Seyong Choi, Minoru Maeda, Satoshi Hata, Yusuke Shimada,Md Shahriar Al Hossain, and Jung Ho Kim **AIP ADVANCES 4, 017113 (2014)** [http://dx.doi.org/10.1063/1.4862670]
9. Physical Properties of In Situ Mg1.05(B1−xCx)2 doped with Melanin(C16H2O3N2) via Ultrasonication in Ethanol; M. Shahabuddin Shah, Mohammad Shahabuddin, Nasser S. Alzayed and A. M. Hassib; Journal of Superconductivity and Novel Magnetism ; December (2013) on line; DOI:10.1007/s10948-013-2452-5
10. Enhancement of critical current density for nano (n)-ZnO doped MgB2 superconductor ; [Ansari, IA](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=Y1FIDKBZkDMlqmimYe4&field=AU&value=Ansari,%20IA) ; **[Shahabuddin, M](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=Y1FIDKBZkDMlqmimYe4&field=AU&value=Shahabuddin,%20M" \o "Find more records by this author)** **;** [Alzayed, NS](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=Y1FIDKBZkDMlqmimYe4&field=AU&value=Alzayed,%20NS" \o "Find more records by this author) ; [Ziq, KA](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=Y1FIDKBZkDMlqmimYe4&field=AU&value=Ziq,%20KA" \o "Find more records by this author) ; [Salem, AF](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=Y1FIDKBZkDMlqmimYe4&field=AU&value=Salem,%20AF) ; [Awana, VPS](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=Y1FIDKBZkDMlqmimYe4&field=AU&value=Awana,%20VPS" \o "Find more records by this author) S.); [Kishan, H](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=Y1FIDKBZkDMlqmimYe4&field=AU&value=Kishan,%20H" \o "Find more records by this author) ; **PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS** Volume: **495** Pages: 208-212 (**DEC 2013). D**OI: 10.1016/j.physc.2013.10.001
11. Extraordinary high dielectric constant, electrical and magnetic properties of ferrite nanoparticles at room temperature Batoo, Khalid Mujasam; Mir, Feroz Ahmed; Abd El-Sadek, M. -S;  **Shahabuddin, M**; [Ahmed, N](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=Y1FIDKBZkDMlqmimYe4&field=AU&value=Ahmed,%20N) (Ahmed, Niyaz) **JOURNAL OF NANOPARTICLE RESEARCH** Volume: **15, PP:** 2067 Published: OCT 31 2013 DOI: 10.1007/s11051-013-2067-6
12. *Effect of Nano ZnO Doping on the Nature of Pinning of MgB2 Superconductors***.** M. Shahabuddin Intikhab A. Ansari · Nasser S. Alzayed · Khalil A. Ziq · A.F. Salem; J. Supercond. Nov. Magn. (**2012**) DOI 10.1007/s10948-012-1931-4
13. Comparison of the critical current density of a polycrystalline MgB2 superconductor by ac-susceptibility and Bean’s model

Author(s): Intikhab A Ansari, **M Shahabuddin** and Nasser Saleh Alzayed

Source: **PHYSICA SCRIPTA** Volume: **84** Pages: **065701-065705** Published: **2011**

1. Title: Effect of ball milling time on the substitution of carbon in glucose doped MgB2 Superconductors: dispersion behavior of glucose

Author()s: **M. Shahabuddin**, Nasser S. Alzayed, M.P. Jafar, and M. Asif

Source: **Physica C** -SUPERCONDUCTIVITY AND ITS APPLICATIONS    Volume: **471** Pages: **1635–1642** Published: **2011**

1. Title: [Simulation Study of Noise Effect on Shapiro Steps in High-T (c) Josephson Junctions Using RCLSJ Model](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=1A59JbPgLCmjjKB9mOd&page=1&doc=1)  Author(s): Khan Jamal Akhtar; Almazyad Abdulaziz S.; Shahabuddin M. Source: **JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM**  Volume: 24   Issue: 5   Pages: 1649-1651   DOI: 10.1007/s10948-010-1072-6   Published: JUL 2011
2. Title: [Enhancement of activation energy in nano diamond doped MgB2 superconductor](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=1&doc=5&colname=WOS&cacheurlFromRightClick=no)   
   Author(s): Ansari, IA; **Shahabuddin, M**; Alzayed, NS, et al. Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS   Volume: 470   Issue: 7-8   Pages: 369-372   Published: 2010
3. Title: [Simulation study of effect of magnetic field over l-V characteristic of intrinsic stacked Josephson junctions](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=2&doc=15&colname=INSPEC) Author(s): Khan, J.A.; Shahabuddin, M. Source: **International Journal of Nanomanufacturing** **Vol 4**  Pages: **342-9**   Published: **2009**
4. Title: [Study of fluctuation induced conductivity on nano diamond doped bulk MgB2 superconductor](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=2&doc=16&colname=INSPEC) Author(s): Ansari, I.A.; **Shahabuddin, M**.; Husain, M., et al.  
   Source: **International Journal of Nano and Biomaterials** **Vol 2** Pages: **240-8**   Published: **2009**
5. Title: [Simulation of effect of microwave irradiation on l-V characteristics of Josephson junction using RCLSJ model with noise into consideration](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=2&doc=17&colname=INSPEC) Author(s): **Shahabuddin, M.**  
   Source: **International Journal of Nano and Biomaterials** Vol 2 Pages: **331-8**   Published: **2009**
6. Title: [Nano Fe3O4 induced fluxoid jumps and low field enhanced critical current density in MgB2 superconductor](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=5&doc=47&colname=WOS&cacheurlFromRightClick=no) Author(s): Singh, KP; Awana, VPS; Balamurugan, S, **Shahabuddin, M**., et al.  
   Source: JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM   Volume: 21   Issue: 1   Pages: 39-44   Published: 2008
7. Title: [Fluctuation induced conductivity of polycrystalline MgB2 superconductor](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=5&SID=X2Oi6PlhkEFADJElfaA&page=1&doc=4&colname=WOS) Author(s): Intikhab A. Ansari, V.P.S Awana, Rajeev Rawat, **M. Shahabuddin,** M. Hussain, H. Kishan, and A.V. Narlikar Source: JOURNAL OF MATERIALS SCIENCE   Volume: 42   Issue: 15   Pages: 6306-6309   Published: AUG 2007
8. Title:  [Effects of Al2O3 nano-particles on the irreversible properties of MgB2 superconductor](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=5&doc=49&colname=INSPEC&cacheurlFromRightClick=no)   
   Author(s): Ziq, KA; **Shahabuddin, M**; Ansari, I, et al. Source: Nanotechnology and Its Applications   Volume: 929   Pages: 143-146   Published: 2007
9. Title: [Comparisons for the resistivity behaviors of different encapsulated MgB2 samples](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=6&doc=53&colname=WOS&cacheurlFromRightClick=no)   
   Author(s): Singh, KP; Awana, VPS; Shahabuddin, M, et al. Source: CRYOGENICS   Volume: 47   Pages: 497-500   Published: 2007
10. Title: [The effect of nano-alumina on structural and magnetic properties of MgB2 superconductors](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=6&doc=56&colname=WOS&cacheurlFromRightClick=no) Author(s): Ansari, IA; Shahabuddin, M; Ziq, KA, et al.  
    Source: SUPERCONDUCTOR SCIENCE & TECHNOLOGY   Volume: 20   Pages: 827-831   Published: 2007
11. Title: [Design of ac susceptometer using closed cycle helium cryostat](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=7&doc=63&colname=INSPEC&cacheurlFromRightClick=no) Author(s): **Shahabuddin, M**.; Alzayed, N.S. Source: Physica Status Solidi C   Volume: no.9   Pages: 3002-6   Published: 2006
12. Title: [Phase formation and superconductivity of Fe-TUBE encapsulated and vacuum-annealed MgB2](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=7&doc=68&colname=WOS) Author(s): Singh, KP; Awana, VPS; Shahabuddin, M, et al. Source: MODERN PHYSICS LETTERS B   Volume: 20   Issue: 27   Pages: 1763-1769   Published: NOV 30 2006
13. Title: [Computational interfacing of resistivity of high temperature superconductor using Visual Basic program](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=9&doc=81&colname=WOS&cacheurlFromRightClick=no) Author(s): Ansari, IA; Singh, KP; **Shahabuddin, M**, et al. Source: INDIAN JOURNAL OF PURE & APPLIED PHYSICS   Volume: 43   Issue: 6   Pages: 439-445   Published: JUN 2005
14. Title: [Simulation of I-V characteristics of Josephson junctions array: magnetic field effect](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=3BoFc1CMFN@@pLFgcl5&page=10&doc=91&colname=WOS&cacheurlFromRightClick=no)   
    Author(s): Khan, JA; **Shahabuddin, M** Source: INDIAN JOURNAL OF PHYSICS AND PROCEEDINGS OF THE INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE   Volume: 78   Issue: 8   Pages: 841-844   Published: 2004
15. Title: [Microwave absorption spectrum and reentrant phase in Bi2212 single crystal: microwave power dependence](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=Refine&qid=2&SID=Q2N5LaK@L6mgEK9B4Aj&page=2&doc=13&colname=WOS) Author(s): [Ahmad G](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Ahmad%20G&ut=000183340300334&pos=1), [Hashizume A](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Hashizume%20A&ut=000183340300334&pos=2), [Iwasaki S](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Iwasaki%20S&ut=000183340300334&pos=3), [Yoshii K](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Yoshii%20K&ut=000183340300334&pos=4), [Reddy BJ](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Reddy%20BJ&ut=000183340300334&pos=5), [Shahabuddin M](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Shahabuddin%20M&ut=000183340300334&pos=6), [Uthayakumar S](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Uthayakumar%20S&ut=000183340300334&pos=7), [Jayavel R](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Jayavel%20R&ut=000183340300334&pos=8), [Endo T](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Endo%20T&ut=000183340300334&pos=9&cacheurlFromRightClick=no) Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS   Volume: 388   Pages: 687-688  Published: 2003
16. Title: [Microwave absorption spectrum and reentrant phase in Bi2212 single crystal: temperature dependence](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=Refine&qid=2&SID=Q2N5LaK@L6mgEK9B4Aj&page=2&doc=14&colname=CCC) Author(s): [Kale, RD](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Kale,%20RD&ut=000179354900099&pos=1), [Hashizume, A](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Hashizume,%20A&ut=000179354900099&pos=2), [Li, T](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Li,%20T&ut=000179354900099&pos=3), [Kohmoto, H](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Kohmoto,%20H&ut=000179354900099&pos=4), [Iwasaki, S](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Iwasaki,%20S&ut=000179354900099&pos=5), [Shahabuddin, M](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Shahabuddin,%20M&ut=000179354900099&pos=6)**,** [Uthayakumar, S](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Uthayakumar,%20S&ut=000179354900099&pos=7), [Srinivasan, E](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Srinivasan,%20E&ut=000179354900099&pos=8), [Endo, T](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Endo,%20T&ut=000179354900099&pos=9&cacheurlFromRightClick=no) Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS   Volume: 378   Pages: 470-474   Published: 2002
17. Title: [Near-zero-field hysteretic anomaly in microwave absorption and indication of reentrant phase in Bi2212 single crystals](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=Refine&qid=2&SID=Q2N5LaK@L6mgEK9B4Aj&page=2&doc=15&colname=CCC) Author(s): [Hashizume, A](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Hashizume,%20A&ut=000170467400116&pos=1), [Yamada, J](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Yamada,%20J&ut=000170467400116&pos=2), [Kohmoto, H](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Kohmoto,%20H&ut=000170467400116&pos=3), [Yamada, Y](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Yamada,%20Y&ut=000170467400116&pos=4), [Endo, T](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Endo,%20T&ut=000170467400116&pos=5), [Shahabuddin, M](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Shahabuddin,%20M&ut=000170467400116&pos=6&cacheurlFromRightClick=no) Source: PHYSICA C   Volume: 357   Pages: 481-484   Published: 2001
18. Title: [Superconductivity in Zn-doped tetragonal LaBaCaCu3O7-delta systems](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=Refine&qid=2&SID=Q2N5LaK@L6mgEK9B4Aj&page=2&doc=16&colname=INSPEC)   
    Author(s): [Singh, R.](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Singh%2C+R.); [Lal, R.](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Lal%2C+R.); [Upreti, U.C.](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Upreti%2C+U.C.); [Suri, D.K.](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Suri%2C+D.K.); [Narlikar, A.V.](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Narlikar%2C+A.V.); [Awana, V.P.S.](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Awana%2C+V.P.S.); [Aguiar, J.A.](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Aguiar%2C+J.A.); [Shahabuddin, M.](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=Q2N5LaK@L6mgEK9B4Aj&field=AU&value=Shahabuddin%2C+M.&cacheurlFromRightClick=no) Source: PHYSICAL REVIEW B   Volume: 55   Issue: 2   Pages: 1216-1222   Published: JAN 1 1997
19. Title: [EFFECT OF TEMPERATURE ON LOW-FIELD-DEPENDENT MICROWAVE-ABSORPTION IN PURE YBA2CU3O7-DELTA NEAR T-C](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=Refine&qid=2&SID=Q2N5LaK@L6mgEK9B4Aj&page=2&doc=17&colname=INSPEC&cacheurlFromRightClick=no) Author(s): **SHAHABUDDIN, M**; BIST, HD; CHAND, P, et al.  
    Source: PHYSICA C   Volume: 235   Pages: 2054-2055   Part: 3   Published: DEC 1994
20. Title: [TEMPERATURE-DEPENDENCE OF MICROWAVE LOSS SIGNAL IN HAFNIUM DOPED YBACUO](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=Refine&qid=2&SID=Q2N5LaK@L6mgEK9B4Aj&page=2&doc=18&colname=INSPEC&cacheurlFromRightClick=no)   
    Author(s): VEDESHWAR, AG; BIST, HD; **SHAHABUDDIN, M**, et al. Source: PHYSICS LETTERS A   Volume: 139   Issue: 8   Pages: 415-418   Published: AUG 21 1989
21. Title: [ELECTRON-PARAMAGNETIC-RES AND RAMAN-SPECTROSCOPY OF HIGH-TC SUPERCONDUCTOR YBA2CU3O7](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=11&SID=Q2N5LaK@L6mgEK9B4Aj&page=1&doc=2&colname=INSPEC) Author(s): BIST, HD; KHULBE, PK; **SHAHABUDDIN, M,** et al.  
    Source: SOLID STATE COMMUNICATIONS   Volume: 65   Issue: 8   Pages: 899-902   Published: FEB 1988
22. Title: [EFFECT OF MODULATION AMPLITUDE ON LOW-FIELD MICROWAVE-ABSORPTION IN HAFNIUM-DOPED Y-BA-CU-O](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=16&SID=Q2N5LaK@L6mgEK9B4Aj&page=1&doc=1&colname=INSPEC&cacheurlFromRightClick=no) Author(s): **SHAHABUDDIN, M**; VEDESHWAR, AG; BIST, HD, et al.  
    Source: BULLETIN OF MATERIALS SCIENCE   Volume: 14   Issue: 3   Pages: 789-792   Published: JUN 1991
23. Title: [MICROWAVE-ABSORPTION STUDIES IN FIELD-COOLED HAFNIUM DOPED YBACUO](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=18&SID=Q2N5LaK@L6mgEK9B4Aj&page=1&doc=1&colname=INSPEC)   
    Author(s): VEDESHWAR, AG; SHAHABUDDIN, M; BIST, HD, et al. Source: BULLETIN OF MATERIALS SCIENCE   Volume: 14   Issue: 3   Pages: 777-781   Published: JUN 1991
24. Shakurada, Hong Zhu, Ajay K Sarkar, M Okada, Tamio Endo, H Yamasaki, K Endo and **M. Shahabuddin** *Anisotropic Vortex Dynamics Related to Screening Currents and Microwave currents under magnetic Fields on High Tc Super Conductors “* **Proceeding of Progress in Electromagnetics Research Symposium 2005, Hangzhaou China Aug 22-26.**
25. Jamal Akhtar Khan and **M. Shahabuddin ;** *Effect of noise on Shapiro steps in high-Tc Josephson Junctions* **Proceeding of the DAE Solid State Physics Symposium Solid State Physics (India) 46, 629-630 (2003)**
26. T. Li, A. Hashizume, KI. Itoh, H. Kohmoto, S. Iwasaki, M. Yamasaki, K. Yamaguchi, T. Endo and **M. Shahabuddin**, *Temperature rises by microwave absorption in superconducting materials and liquid nitrogen bubbling*  **Proceeding of the Third Asia Pacific EPR/ESR Symposium, Kobe , Japan October 29-Nov. 1, 2001, Edited by A. Kawamori, J. Yamauchi and H. Ohta , Elsevier Science B.V. (2002).**