<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenters</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-11:00</td>
<td>Poster Session</td>
<td>Session Chair: Dr. Kashif Javaid (GCUF, Faisalabad)</td>
<td>09:00-09:15 Tea Zaheer (UAF, Faisalabad) <em>In vitro Acaricidal activity of green mediated magnesium oxide nanoparticles against Rhipicephalus Ticks</em></td>
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<td>09:15-09:30</td>
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<td>Atta ul Haq (IUB, Bahawalpur)</td>
<td><em>Mechanisms of Halosulfuron Methyl pesticide biosorption onto Neem Seeds Powder: kinetic, equilibrium and thermodynamic studies</em></td>
</tr>
<tr>
<td>09:30-09:45</td>
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<td>Mughees Riaz (NFC, Multan)</td>
<td><em>Economically efficient, environment friendly and power stack shed reduction energy management system by utilizing renewable energy resources for remote hilly areas of Pakistan</em></td>
</tr>
<tr>
<td>09:45-10:00</td>
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<td>Rabbia Siddique (NFC, Multan)</td>
<td><em>A modified NSGA approach for optimal sizing and allocation of distributed resources and battery energy storage system in distribution network</em></td>
</tr>
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<td>10:00-10:15</td>
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<td>M. Arslan Iqbal (NFC, Multan)</td>
<td><em>Integration of sub gradient based coordination for multiple renewable generators in microgrid</em></td>
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<td>10:15-10:30</td>
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<td>M. Hasan Raza (IIU, Islamabad)</td>
<td><em>3D bioprinting of bacteria using biocompatible polysaccharide based biomaterials</em></td>
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<td>10:30-10:45</td>
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<td>Shugufta Kamal (GCUF, Faisalabad)</td>
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<td>11:00-11:30</td>
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<td>11:30-12:00</td>
<td>Zahir Iqbal (GIK, Topi)</td>
<td>Ultraviolet-light-driven doping tunability and reversibility of exfoliated graphene based field effect transistors</td>
<td>Abid Mahmood (GCUF, Faisalabad)</td>
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<td>Effect of synthesis parameters on degradation of methylene blow using Zn-Mn oxide composites</td>
<td>M. Imran Arshad (GCUF, Faisalabad)</td>
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<tr>
<td>12:00-12:30</td>
<td>Aba Eboung (UNCC, USA)</td>
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<td>M. Ajaz un Nabi (GCUF, Faisalabad)</td>
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<tr>
<td>12:30-13:00</td>
<td>Bo Cui (Canada)</td>
<td>Nanofabrication on non-flat irregular surfaces</td>
<td>Linta Khalil (Islamabad)</td>
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<td>M. Tamoor Ansar (PU, Lahore)</td>
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<td>13:00-14:00</td>
<td>Closing Ceremony</td>
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<tr>
<td>14:00-15:00</td>
<td>Lunch</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Poster List**

1. Structural and Mechanical Analyses of Soldering Materials Containing Pb, Sn, Ag, Cu, Bi and Zn
Mazzullah, Maaz Khan, Ghafar Ali, Muhammad Naeem Khan, Aurang Zaib, Shafqat Abbas
Pakistan Institute of Nuclear Science & Technology Islamabad, Pakistan

2. Assessment of mechanical properties and microstructural evolution of dissimilar materials weld between Ni alloy 617 and 12 Cr steel
Muhammad Rehan Tariq, Usman Ghani, Zaq Ali, Hafiz Waqar Ahmad, Umer Masood Chaudr
Department of Metallurgy and Materials Engineering, University of the Punjab, Pakistan

3. Investigation of Structural, Optical, Electrochemical and Dielectric Properties of SnO2/GO Nanocomposite
Sardarali Khan, Syed Zulfiqar, Tahirzeb Khan, Majid Khan
Department of Physics, Abdul Wali Khan University, Mardan, KPK 23200, Pakistan

4. Synthesis and investigation of Structural, Optical, Electrochemical and Dielectric Properties SnO2/Graphite Nanocomposite
Sardarali Khan, Syed Zulfiqar, Tahirzeb Khan, Majid Khan
Department of Physics, Abdul Wali Khan University, Mardan, KPK 23200, Pakistan

5. A design and Comparative Investigation of Graded Al x Ga 1-x N EBL for W-B 0.375 GaN/W-B 0.45 GaN Edge Emitting Laser Diode on AlN Substrate
Mussaab Niass, Fang Wang and Yu-Huai Liu
National Center for International Joint Research of Electronic Materials and Systems, Zhengzhou, Henan, China

6. Size-dependent Lasing Dynamics of An Optically Pum ped Single Spherical Quantum Dot in Photonic Crystal Microcavity
National Center for International Joint Research of Electronic Materials and Systems, Zhengzhou University, Zhengzhou, Henan, China

7. Part load performance for selective exhaust gas recirculation of natural gas-fired power plant coupled with CO 2 capture system
Yamina Qureshi, Usman Ali
Department of Chemical Engineering, University of Engineering and Technology, G.T. Rd, Lahore 54890, Pakistan

8. Study of Temperature Profiles and chips morphology during drilling in AISI 1018 mild steel blocks under varying Cutting conditions
9. Calotropis gigantea leaves assisted biosynthesis of ZnO and Ag@ZnO catalysts for degradation of rhodamine B dye in aqueous medium
Muhammad Saeed, Afifa Baig, Nadia Akram, Muhammad Usman, Muhammad Asif Aleem
Department of Chemistry, Government College University Faisalabad, Faisalabad Pakistan

10. Semiconductor Thin Films for Solar Cell Applications
Nazar Abbas Shah, Murrawat Abbas, Waqar Mahmood

11. Thin Films Technology Research Lab, Department of Physics, COMSATS University, Islamabad 4000 Pakistan

12. Enhanced photocatalytic activity by the fabricated TiO2/Graphene oxide nanocomposites against ciprofloxacin and methylene blue dye
Komal Rizwana*, Shakeel Ahmad Khan, Sammia Shahid
aDepartment of Chemistry, University of Sahiwal, Sahiwal 57000, Pakistan

Department of Chemistry, Faculty of Basic Sciences, University of Wah, Wah Cantt, 47040, Pakistan

14. Extracellular biosynthesis and characterization of Silver Nanoparticles with potential activity as antibacterial, antiviral and anti-biofilm agent
Deeba Naz
Institute of Microbiology, University of Agriculture, Faisalabad, Pakistan

15. Synthesis and Dielectric Behavior of UiO-66 Filled Epoxy Composites
Mahmood Fiaz, Jun Lin, Shaojian He
School of Renewable Energy and Clean Power *North China Electric Power University, Beijing, P.R. China

16. Preparation of Nickel oxide (NiO) nanoparticles as a hole transport material for high-performance perovskite solar cells
Beenish Abbas†, Momna Zahrat, Syed Zulqarnain Haider† and Hafeez Anwar
Advanced nanomaterials and devices Lab, Department of Physics, University of Agriculture Faisalabad, Pakistan

17. Maneuvering Surface Structures of PS Filaments by Controlling Solvent Systems and Concentrations
Abdul Wahid1, Yongchun Zeng
1Key Laboratory of Textile Science &Technology, Ministry of Education, College of Textiles, Donghua University, Shanghai 201620, China

18. Spin-related Photoluminescence and Magnetic anisotropy in Mn(II) doped ZnO nanowire
Muhammad Umar Farooq†, Jun Zhang
State Key Laboratory of Superlattices and Microstructures, Institute of Semiconductors, Chinese Academy of Sciences, Beijing 100083, China

19. Dielectric based energy storage capacity of sol-gel synthesized Sr-doped ZrTiO4 nanocrystallites
Naadia Akhtara,
aDepartment of Physics, University of the Punjab, Quaid-e-Azam Campus, Lahore 54590, Pakistan
□, Hafiz Muhammad Rafiquea, Shazia Shukrullah1, Abdul Ghaffar
Department of Physics, University of Agriculture, 38040 Faisalabad, Pakistan

20. Non-phosgene route for synthesis of hexamethylene-1,6-diisocyanate by thermal decomposition of hexamethylene-1,6-di-carbamate over Co3O4/ZSM-5 catalyst
Muhammad Ammar, a,b,c,* Yan Cao,b Liguo Wang,b Huiquan Li
Department of Chemical Engineering Technology, Government College University, Faisalabad, 38000, Pakistan

21. Nitrogen Pollution Remediation through Biodegradable polymer coated urea
Muhammad Yasin Naz1,* Shazia Shukrullah1, Abdul Ghaffar
Department of Physics, University of Agriculture, 38040 Faisalabad, Pakistan

22. Plantation of Carbon Nanotubes on a Si/SiO2/Al2O3 substrate in a Floating Catalyst CVD Reactor
Shazia Shukrullah*, Muhammad Yasin Naz, Abdul Ghaffar
Department of Physics, University of Agriculture, 38040 Faisalabad, Pakistan
23. CO2 adsorption isotherms of pristine and amine-functionalized multiwalled carbon nanotubes
Shazia Shukrullah1,*, Muhammad Yasin Naz1, Abdul Ghaffar
Department of Physics, University of Agriculture, 38040 Faisalabad, Pakistan

24. PIV Analysis of a New design of Mesh-coupled Axial Blade Distributor for Swirling Fluidized Beds
Muhammad Yasin Naz1*, Shukrullah Shukrullah1, Abdul Ghaffar1
Department of Physics, University of Agriculture, 38040 Faisalabad, Pakistan

25. Optimnal network reconfiguration of distributed generation for hybrid system using evolutionary algorithm
Linta Khalil 1, M. Kamran Liaquat Bhatti 2, M. Arslan Iqbal Awan3, Mughees Riaz4, Rabbia Siddique5, Kiran Khalil
Department of Electrical Engineering, NFC Institute of Engineering & Technology, 60000 Multan Pakistan

26. Finite Element Modelling and Simulation to study Cracking and Delamination Behavior of Hard Coating on Ductile Substrate
Mohsin Ali, Umar Daraz, Ammar Abdullah

28. Ultrahigh thermoelectric performance of 2-D multilayered bulk WSe2 by Nb doping
M.H.Danisha,b, J. Zhang a, D.Lia, X.Y.Qina
Key Laboratory of Materials Physics, Institute of Solid State Physics, Chinese Academy of Sciences, 230031 Hefei, PR China

27. Fault analysis of DFIG based wind turbine model
Waqar Tahir1*, M. Kamran Liaquat Bhatti2*, Tahir Mahmood3, Muhammad Kashif
NFC Institute of Engineering and Technology, Multan

28. Optimization and Designing of Hybrid Power System Using Homer Pro
Linta Khalil 1, M. Kamran Liaquat Bhatti 2, M. Arslan Iqbal Awan 3, Mughees Riaz4, Kiran Khalil5, Nashitah Alwaz
Department of Electrical Engineering, NFC Institute of Engineering & Technology, 60000 Multan Pakistan

31. Integration of Sub-Gradient Based Coordination for Multiple Renewable Generators in Microgrid
M. Arslan Iqbal Awan 1, Ali Raza 2, Mughees Riaz3, Linta Khalil 4, M. Kamran Liaquat Bhatti
Department of Electrical Engineering, NFC Institute of Engineering & Technology, 60000 Multan Pakistan

32. A modified NSGA approach for optimal sizing and allocation of distributed resources and battery energy storage system in distribution network
Rabbia Siddique1, Saifdar Raza 2, Abdul Mannan 3, Linta Khalil 4, Nashitah Ahwaz 5, Mughees Riaz
Department of Electrical Engineering, NFC Institute of Engineering & Technology, Multan Pakistan

33. Smart Monitoring and Controlling of Un-Manned Grid with the Integration of Renewable Energy Using GSM Module, Coaxial Cable and Optical Fiber
Engr.Muhammad Ikram*, 2 Dr.M.Kamran Liaquat Bhatti *, 3 Muhammad Yousaf Khan 4 Dr.Muhammad Siddique, 5 Raheel Noman Rasheed, 6 Dr.Saifdar Raza
NFC Institute of Engineering and Technology, Multan

34. New directions and applications of photonic technologies in communication, health, agricultural, industries, military, energy and research
Muhammad Hassan Sayyad
Advanced Photovoltaic Research Labs (APRL), Faculty of Engineering Sciences, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi, District Swabi, Khyber Pakhtunkhwa 23640, Pakistan

35. Structural, dielectric, ferroelectric and piezoelectric materials and structures for energy harvesting applications
Amir Ullah
Department of Physics, Islamia College Peshawar, Peshawar 25120, KP, Pakistan

36. Characterization and determination of Gold jewelry fineness by laser induced breakdown spectroscopy
Hira Nasim, Yasir Jamal and Sonia Jamal
Laser Spectroscopy Lab., Department of Physics, University of Agriculture, Faisalabad 38040, Pakistan

37. Synthesis and characterization of TiO2/GO nanocomposites for their enhanced glucose sensing potential
Shakeel Ahmad Khan1*, Komal Rizwan2, Zunainah Ireshad3, Sannia Shahid3, Tahir Rasheed
Center of Super-Diamond & Advanced Films (COSDAF), Department of Chemistry, City University of Hong Kong, 83 Tat Chee Avenue, Kowloon, China
38. Phytosynthesis of Ag Nanoparticles from Mentha longifolia; its Structural Evaluation and Therapeutic Potential Against HCT116 Colon Cancer cells and Microbial Pathogens
Bilal Javed a, b *, Akhtar Nadhman c, Zia-ur-Rehman Mashwani
c Institute of Integrative Biosciences, Department of Biotechnology, CECOS University, Peshawar Pakistan.

Syed Muhammad Alay-e-Abbas ,† Farrukh Javed, † Arsam, † Waqas Zubiquar
Computational Materials Modeling laboratory, Department of Physics, Government College University, Faisalabad, Pakistan

40. Chemically Synthesized Ni Nano-Particles by Sol-Gel Method, Their Characterization and Potential towards Catalytic Reduction and Degradation
Tahira Sabeen 1*, Faiza Asghar1,Wajeema Munib1, Tariq Mahmood
Department of Chemistry, University of Wah, Wah Cantt, 47040, Pakistan

41. Surfactants: Unique materials for removal of dyes from aqueous solution
Muhammad Usman, Saleem Raza, Hamadia Sultan, Zubiquar Ali Raza, Tanveer Hussain Bokhari
Department of Chemistry, Government College University, Faisalabad

42. Electrochemical Sensor of Aminophenol-Formaldehyde Polymer/Siliconcontungstic Acid Nanocomposite Modified Electrode for Nitrite Detection
Hina Sahar 3, Tariq Mahmood Ansari 3, Noor ul Ain3, Khalid Mahmood 4, Sadaat Majeed 1,3, Jianming Zhao 1,2, Muhammad Rehan Hasan Shah Gilani 1,3*, Guobao Xu
State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, Jilin 130022, People’s Republic of China

43. Investigation of Biosynthetic Copper Oxide Nanoparticles in HepG2 cell line
Zahra Shafiq1, M. Fakhar-e-Alam1*, Hafeez Anwar2, Mahmood Hussain1, Amjad Sohai
1Department of Physics, GC University, 38000, Faisalabad

44. Characterization of a low-cost novel cathode material for intermediate temperature solid oxide fuel cell
Majid Muneer*1, Rizwan Raza2, Muhammad Abdullah Javed**1, Muhammad Iqbal
Government College University Faisalabad, Faisalabad, 38000, Pakistan

45. Recovery of lead from waste lead acid battery to form anode material for low temperature solid oxide fuel cell
Majid Muneer*1, Rizwan Raza2, Muhammad Iqbal**1, Muhammad Abdullah Javed
1Government College University Faisalabad, Faisalabad, 38000, Pakistan

46. Calculations of Uniaxial Tensile Strength of Al-Cu-Ni Based Metallic Alloy and Glass Using Molecular Dynamics Simulations
Aamir Shahzad1,*, Muhammad Kashif1, Tariq Munir1 and Mehar un Nisa
1Molecular Modeling and Simulation Laboratory, department of Physics, Government College University Faisalabad (GCUF), Allama Iqbal Road, Faisalabad 38040, Pakistan

47. Characterization of Fe and Al co-doped TiO2 nanofibres synthesized by electrospinning method
Muhammad Kashif1,* , Aamir Shahzad1, Nadeem Nasir2, Tariq Munir1 , Ijaz Ahmad Khan1 and Taseenuddin
1Department of Physics, Government College University Faisalabad (GCUF), Allama Iqbal Road, Faisalabad 38040, Pakistan

48. Design and implementation of three phase electronic inverter with different conduction modes
Waqar Tahir 1, Dr. Kamran liquat Bhatti 2, Tahir Mahmood 3, Muhammad Kashif 4, Muhammad Hamid Saeed
NFC IET Multan, Pak

49. ROLE OF NANOFERTILIZERS IN SMART TARGET DELIVERY
Maliha Fatima, Wajeema Fatimab, *Saliha Meboob
University of Agriculture Faisalabad, Sub-Campus Burewala-Veharia, Govt College Women University, Faisalabad, *Govt Postgraduate College for Women, Sheikhupurac

50. Influence of UV/Ozone Treatment on the performance of Bi-layered Tape Exfoliated Graphene Field Effect Transistor
Aqrab Ahmad

51. SURFACE AREA STUDIES OF CARBONIZED BIOMASS VIA DYE ADSORPTION
52. Synthesis and Characterization of Cobalt Ferrites for MRI Contrast Agent
Waleed Raza1, Muhammad Arshad Javid1, Muhammad Bilal, Imran Arshad
Department of Basic Sciences, UET, Taxila, 47050

53. Synthesis and Mechanical Properties of Ag-Based Glass Ionomer Cements
Aqeel Ahmed, Muhammad Arshad Javid1, M.Rafique2, Khalid Mehmoood3, Imran Arshad3, Muhammad Azhar4, Khalid Nadeem5, Muhammad Isa5, Imran Arshad
Department of Basic Sciences, UET, Taxila, 47050

54. Synthesis and Mechanical Properties of Dental Amalgam
Qurat-ul-ain khan

55. Synthesis of Ag-Cu Based Epoxy Polymer Composite for Electrical Conductivity
Nazish Sadaqat1, Muhammad Arshad Javid1, M.Rafiique 2, Muhammad Azhar3, Adan Ali4, Uzma Gazanfar5, Khalid Nadeem6
Department of Basic Sciences, UET, Taxila, 47050

56. Rheological Properties of Synthesized Fe3O4 in Non-Newtonian Fluids
Tariq Habib1, Muhammad Arshad Javid1, Naima Amin2, Azhar Naeem1, Khalid Mehmoood3, Khalid Nadeem4, M.Shakeel4, Imran Arshad3, Adan Ali
Department of Basic Sciences, UET, Taxila, 47050

57. Hydrothermal Synthesis of Vanadium Phosphate for Asymmetric Supercapacitor
Muhammad Zahir Iqbal*, Faiz Alam b, Shahid Alama, Najamul Hassanb, Muhammad Arshad Kamranc, Thamer Alherbic
aNanotechnology Research Laboratory, Faculty of Engineering Sciences, GIK Institute of Engineering Sciences and Technology, Topi 23640, Khyber Pakhtunkhwa, Pakistan

58. Capacitive and diffusive contribution in strontium oxide-polyaniline-graphene based ternary composite for supercapattery device
Muhammad Zahir Iqbal*, Muhammad Sulmana, Muhammad Arshad Kamranb, Thamer Alherbi
aNanotechnology Research Laboratory, Faculty of Engineering Sciences, GIK Institute of Engineering Sciences and Technology, Topi 23640, Khyber Pakhtunkhwa, Pakistan

59. Reconstruction and advanced automation of vibrating sample magnetometer
Muhammad Zahir Iqbal*, Syed Shabhi Haider, Abbas Khan
aNanotechnology Research Laboratory, Faculty of Engineering Sciences, GIK Institute of Engineering Sciences and Technology, Topi 23640, Khyber Pakhtunkhwa, Pakistan

60. Modulating charge carrier density by polymer organic dielectric in graphene field effect transistor
Muhammad Zahir Iqbal*,a, Syed Shabhi Haidera, Sana Zakara, Sana Khana, Muhammad Arshad Kamranb, Thamer Alherbib, Muhammad Javaid Iqbal
aNanotechnology Research Laboratory, Faculty of Engineering Sciences, GIK Institute of Engineering Sciences and Technology, Topi 23640, Khyber Pakhtunkhwa, Pakistan

61. 3D Bioprinting of Bacteria Using Biocompatible Polysaccharide-based Biomaterials
Muhammad Hassan Razaa,b, Muhammad Qasima, Zubair Mubarakc, Muhammad Arshad
Department of Biological Sciences, International Islamic University, 44000, Islamabad, Pakistan

62. Analyzing the effect of diffusion-controlled contribution with the phase change of electrolyte
Muhammad Zahir Iqbal*, Sana Zakar, Syed Shabhi Haider
aNanotechnology Research Laboratory, Faculty of Engineering Sciences, GIK Institute of Engineering Sciences and Technology, Topi 23640, Khyber Pakhtunkhwa, Pakistan

63. Employing nanotechnology to enhance performance of poor quality seed
Shakeel Imran*a, Malih Faatimaa, Wajeela Fatimac
Department of Agronomy, University of Agriculture Faisalabad, Sub-Campus Burewala-Vehari

64. Modeling of capacitive and diffusion controlled process in supercapattery devices
Muhammad Zahir Iqbal*, Junaid Khana, Muhammad Tayyab
65. Optimizing the Concentration of Activation Agent and Electrolyte for Tea Waste Derived Activated Carbon for Supercapacitor Applications
Muhammad Zahir Iqbal,*, Shahid Alam a, Muhammad Sulman a, Muhammad Arshad Kamranb, Thamer Alherbib
aNanotechnology Research Laboratory, Faculty of Engineering Sciences, GIK Institute of Engineering Sciences and Technology, Topi 23640, Khyber Pakhtunkhwa, Pakistan

66. Structural and Optical properties Of Zn-Doped TiO2 nanoparticles for the photocatalytic activity
Tariq munir*, arslan mahmood*, muhammad imran, muhammad kashif, aamir shahzad, muhammad sharif, zeeshan yaqoob, saba Rasheed
Physics department, government college university faisalabad (gcuf), Faisalabad

67. Synthesis and characterization of Silver Nanoparticles for Antibacterial activity
Tariq munir*, arslan mahmood*, muhammad imran, amjad sohail, muhammad fakhar-e-alam, zeeshan yaqoob, ali raza Rasheed
Physics department, government college university faisalabad (gcuf), Faisalabad

68. Distinguished microstructural features and mechanical behaviour of a lower Mn-added Fe-11Mn-10Al-1.2C lightweight steel
Muhammad Atif Mujtaba, Zhao Weimin, Mustafa Muhammad, M. Nouman
School of Material science and engineering, Hebei University of technology Tianjin 300132, China

69. Design and Fabrication of Solar Cooker Construction for Rural Areas
Zia-ul-Haq1, Dr.Hafeez Anwar2, Dr.Yasir Jamil3, Mubashra Hani4, Amina Liaqat
Department of Physics University of Agriculture Faisalabad

70. The effect of pre sowing laser irradiation on germination of potato seeds
Shamila Hayder1, Zia-ul-Haq2, Dr.Yasir Jamil3, Mubashra Hani4 and Dr. Hafeez Anwar
Department of Physics University of Agriculture Faisalabad

71. Effect of Noise Pollution on Human Health and Measurement of Traffic Noise
Zia-ul-Haq1, Dr Yasir Jamil2, Hafeez Anwar3, Mubashra Hani4 and Afshan Zafar
Department of Physics University of Agriculture Faisalabad

72. Identification of Soil Contaminants Using Laser Induced Breakdown Spectroscopy
Mamoona Attique, Muhammad Shoab, Muhammad bilal, Shamoon AlIslam and Yasir Jamil
Laser Spectroscopy Lab, Department of Physics, University of Agriculture (38040), Faisalabad, Pakistan

73. Laser Induced Breakdown Spectroscopy of Chromium Doped Nickel-Zinc Ferrite
Anam Masood, Yasir Jamil, Hira Nasim, Muhammad Shoab, Zia ul Haq, Ayesha Younas
Laser Spectroscopy Lab, Department of Physics, University of Agriculture (38040), Faisalabad, Pakistan

74. Study of Corrosion of Battery Electrodes by Laser Induced Breakdown Spectroscopy
Javeria Ismail, Hira Nasim, M. Shoab, Hafeez Anwar and Yasir Jamil
Department of Physics University of Agriculture Faisalabad

75. Quantitative Analysis of ZnO based Nanocomposites using Laser Induced Breakdown Spectroscopy
Iqra Kainat, Hafeez Anwar, Yasir Javaid, Ziaul Haq, Hafeez Anwar and Yasir Jamil
Laser Spectroscopy Lab, Department of Physics, University of Agriculture (38040), Faisalabad, Pakistan

76. Elemental Analysis of Galvanized Iron coating using Laser Induced Breakdown Spectroscopy (LIBS)
Hajra Shahid, Hira Nasim and Yasir Jamil
Laser Spectroscopy Lab, Department of Physics, University of Agriculture (38040), Faisalabad, Pakistan

77. Characterization and determination of Gold products fineness by laser induced breakdown spectroscopy
Hira Nasim, Yasir Jamil, Ayesha Younas, Hafeez Anwar, Muhammad Shoab and Sonia Jamal
Laser Spectroscopy Lab, Department of Physics, University of Agriculture (38040), Faisalabad, Pakistan

78. Quantification of soil nutrients using Laser induced breakdown spectroscopy(LIBS)
Iqra Afzal, Saima Javaid, Aleena and Yasir jamal
Laser Spectroscopy Lab, Department of Physics, University of Agriculture (38040), Faisalabad, Pakistan
79. **Laser Induced Breakdown Spectroscopy of plant samples for identification of hazardous elements**
Muhammad Shoaib Tahir, Yasir Jama'*, Zia ul Haq, Hafeez Anwar and Muhammad Bilal
Laser Spectroscopy Lab, University of Agriculture (38040), Faisalabad, Pakistan

80. **IMPROVED ELECTRICAL PERFORMANCE OF CUBIC SILICON CARBIDE VIA SCHOTTKY CONTACT WITH GRAPHENE**
M Naveed Rasheed a M. Asghar Hashmi*b
Department of Physics, The Islamia University of Bahawalpur, Pakistan

81. **Optimizing the thermoelectric properties of Mg2GeO4 nanostructures by altering the growth parameters**
K. Mahmood1,*, A. Rehman1, A. Ali1, U. Rehman1, N. Amin1, S. Ikram1, A. Ashfaq
Department of Physics, Government College University, Faisalabad, Pakistan

82. **Study of high temperature thermoelectric properties of copper aluminum oxide (CuAlO2)**
Umaid-ur-Rehman1, Nasir Amin1, Imran Arshad1, Adnan Ali1, Khalid Mahmood1, Salma Ikram1, M.Ajaz-un-Nabi
1Department of Physics Government College University, Faisalabad, Pakistan

83. **ab initio study of HfO2 based RRAM devices using of divalent and trivalent impurity**
Ejaz Ahmad Kherac, Fayyaz Hussaina, Muhammad Imranb, *, Rana. M. Arif Khalilaa,*, Umbreen Rasheeda, Muhammad Iqbal Hussainaa,d, Hafeez ullah
aMaterials Research Simulation Laboratory, Department of Physics, Bahauddin Zakariya University Multan Pakistan, 60800, Pakistan.

84. **Role of Aluminum concentration on the structural and thermoelectrical properties of ZnAlSe alloy**
M. Isram a, K. Mahmood a, N. Amin a, A. Ali a, M. Kanwal a
Department of Physics, Government College University, Faisalabad, Pakistan

85. **Brain Image Segmentation of Malignant Tumour Using Magnetic Resonance Spectroscopy**
Sanaullah1, Muhammad Arshad Javid1, Sabah Bibi 1, Naima Amin1, Muhammad Bilal2, Sumair Aziz3, M.Umar Khan
Department of Basic Sciences (Physics), University of Engineering and Technology, Taxila

86. **H1MRS Study of High Grade and Low Grade Brain Tumor in Pakistan**
Sabah Bibi1, Muhammad Arshad Javid1,2, Bilal Muhammad, M.D 2, Ume-Habiba1, Sanaullah
Department of Basic Sciences (Physics), University of Engineering and Technology, Taxila

87. **Hematological Effects of Ultrasonic Waves in Human Blood**
Muhammad Imran1, Muhammad Arshad Javid
Department of Basic Sciences (Physics), University of Engineering & Technology, Taxila, 47050, Pakistan

88. **Age Dependent Metabolic Study of Glioma Brain using Magnetic Resonance Spectroscopy**
Ume- Habiba1, Arshad Muhammad Javid1,2, Bilal Muhammad, M.D 1,2, Sabah Bibi 1, Sanaullah
Department of Basic Sciences (Physics), University of Engineering and Technology, Taxila

89. **Elemental Analysis of Industrial Steel Samples using Laser Induced Breakdown Spectroscopy**
Alina Saleem, Hira Nasim, Muhammad Shoaib Tahir, Muhammad Bilal and Yasir Jama'il
Laser Spectroscopy Lab, Department of Physics, University of Agriculture, Faisalabad 38040, Pakistan

90. **Comparative study of plants analysis by using laser induced breakdown spectroscopy and atomic absorption spectroscopy**
Muhammad Haider Zaman, Fahad Rehman, Muhammad Shoaib Tahir and Yasir Jama'il
Laser Spectroscopy Lab, Department of Physics, University of Agriculture Faisalabad 38040, Pakistan

91. **A Study on calibration-free laser induced breakdown spectroscopy of oxide materials**
Mahwish Aslam, Muhammad Shoaib Tahir, Hira Nasim, Shamoon ul Islam, Muhammad Bilal and Yasir Jama'il
Laser Spectroscopy Lab, Department of Physics, University of Agriculture Faisalabad 38040, Pakistan

92. **Laser Induced Breakdown Spectroscopy (LIBS) of Silicon**
Muhammad Javed Qasim, Muhammad Shoaib Tahir, Muhammad Bilal, Shamoon ul Islam and Yasir Jama'il
Laser Spectroscopy Lab, Department of Physics, University of Agriculture Faisalabad 38040, Pakistan
93. Laser Induced Breakdown Spectroscopy (LIBS) of Silicon
Muhammad Javed Qasim, Muhammad Shoaib Tahir, Muhammad Bilal, Shamoon ul Islam and Yasir Janil
Laser Spectroscopy Lab, Department of Physics, University of Agriculture Faisalabad 38040, Pakistan

94. Influence of Cerium doping on structural and electrical properties of Mg0.5Cu0.25Co0.25Fe2-xCexO4 ferrites prepared by sol-gel auto combustion method
Department of Physics, GC University, Faisalabad, Pakistan

95. ELECTRICAL BEHAVIOR OF Cu0.5Cd0.5−Fe2-xCexO4 NANO PARTICALS SYNTHESIZED BY HYDROTHERMAL METHOD
aDepartment of Physics, GC University, Faisalabad, Pakistan

96. ELECTRICAL BEHAVIOR OF Mg0.5Cu0.25Co0.25Fe2-xNdO4 NANO PARTICALS SYNTHESIZED BY SOL GEL AUTO-COMBUSTION METHOD
aDepartment of Physics, GC University, Faisalabad, Pakistan

97. Electrical behavior of Cu0.5Ni0.5Co0.25Fe2-xGdxO4 nano ferrites synthesized by Sol-Gel auto combustion method
aDepartment of Physics, GC University, Faisalabad, Pakistan

98. Transport Properties of Ce Doped Cd Ferrites Cd[Fe]_(2-X)[Ce]_x O_4
aDepartment of Physics, GC University, Faisalabad, Pakistan

99. Synthesis and Characterization of Cobalt substituted magnesium copper cerium ferrites Mg0.5Cu0.5- xCoxFe1.875Ce0.125O4 by co-precipitation method
aDepartment of Physics, GC University, Faisalabad, Pakistan

100. Synthesis and Characterizations of Zn0.5Co0.5-xCu1Fe1.875La0.125O4 ferrites
aDepartment of Physics, GC University, Faisalabad, Pakistan

101. Effect of Lanthanum substitution in Zn0.5Co0.5Fe2-xLaxO4 ferrites on structural and optical properties
aDepartment of Physics, GC University, Faisalabad, Pakistan

102. Transport properties of Yttrium doped nickel zinc cobalt ferrite synthesized by co-precipitation method
aDepartment of Physics, GC University, Faisalabad, Pakistan
103. CHARACTERIZATION OF Mn DOPED Zn-Cd SOFT FERRITES SYNTHESIZED BY CO-PRECIPITATION METHOD
aDepartment of Physics, GC University, Faisalabad, Pakistan

aDepartment of Physics, GC University, Faisalabad, Pakistan

105. Structural and electrical behaviour of Mg0.5Zn0.5-xCuxFe1.5La0.25Ce0.25O4 nanoparticles synthesized by Co-precipitation method
aDepartment of Physics, GC University, Faisalabad, Pakistan

106. Study of Copper doped Mn-Zn ferrites Mn0.4Zn0.6-xCuxFe2O4 by using the coprecipitation method
aDepartment of Physics, GC University, Faisalabad, Pakistan

107. SYNTHESIS AND CHARACTERIZATION OF CADMIUM BASED SOFT FERRITES BY CO-PRECIPITATION METHOD
aDepartment of Physics, GC University, Faisalabad, Pakistan

108. Influence of copper ions irradiation energy on the surface properties of Mg-Al alloy
Muhammad Hamza Akhtar1, Naveed Afzal1, Mohsin Rafique1, Ameeq Farooq
ICentre for Advanced Studies in Physics, GC University, Lahore, Pakistan

109. Nano revolution and CNSdisorder, UAF, Faisalabad