

Year: 2019

1. Rehman, K.M.U., Riaz, M., Liu, X., Khan, M.W., Yang, Y., Batoo, K.M., Adil, S.F. and Khan, M. **Magnetic properties of Ce doped M-type strontium hexaferrites synthesized by ceramic route.** Journal of Magnetism and Magnetic Materials, 474 (2019), 83-89.
2. Ali, M. Z. **Linear and nonlinear TM polarized Surface waves in anisotropic metamaterials.** Optica Applicata 49(3) (2019).
3. Amjad, Z., and Haider, B. **Quasigrammian solutions of generalized Heisenberg magnet model, accepted for publication in Theoretical and Mathematical Physics,** (2019).

Year: 2018

1. Riaz, H. W. A., &ul Hassan, M. **Multisoliton solutions of integrable discrete and semi-discrete principal chiral equations.** Communications in Nonlinear Science and Numerical Simulation, 54 (2018), 416-427.
2. Riaz, H. W. A., & Hassan, M. U. **Darboux transformation for a semidiscrete short-pulse equation.** Teoreticheskaya i Matematicheskaya Fizika, 194(3) (2018), 418-435.
3. Riaz, H. W. A., &ul Hassan, M. **Multi-component semi-discrete coupled dispersionlessintegrable system, its lax pair and Darboux transformation.** Communications in Nonlinear Science and Numerical Simulation, 61 (2018), 71-83.
4. Riaz, H. W. A., &ul Hassan, M. **A discrete generalized coupled dispersionless integrable system and its multisoliton solutions.** Journal of Mathematical Analysis and Applications, 458(2) (2018), 1639-1652.
5. Riaz, H. W. A., &ul Hassan, M. **On soliton solutions of multi-component semi-discrete short pulse equation.** Journal of Physics Communications, 2(2) (2018), 025005.
6. Wajahat, H., Riaz, A., & Hassan, M. **Generalized Lattice Heisenberg Magnet Model and Its Quasideterminant Soliton Solutions.** Theoretical and Mathematical Physics, 195(2) (2018), 665-675.
7. Riaz, M., Bashir, A., & Bashir, M. **An image processing method for automated evaluation of the area of hysteresis loops.** European Journal of Physics, 39(6) (2018), 065501.
8. Bashir, A., Gallacher, K., Millar, R.W., Paul, D.J., Ballabio, A., Frigerio, J., Isella, G., Kriegner, D., Ortolani, M., Barthel, J. and MacLaren, I. **Interfacial sharpness and intermixing in a Ge-SiGe multiple quantum well structure.** Journal of Applied Physics, 123(3) (2018), 035703.
9. Amin, B., Majid, F., Saddique, M. B., Haq, B. U., Laref, A., Alrebdi, T. A., & Rashid, M. **Physical properties of half-metallic AMnO₃ (A= Mg, Ca) oxides via ab initio calculations.** Computational Materials Science, 146 (2018), 248-254.

10. Javed, A., Qurat-u-lain& Bashir, M. **Controlled growth, structure and optical properties of Fe-doped cubic π -SnS thin films.** Journal of Alloys and Compounds, 759 (2018), 14-21.
11. Mehmood, S., Javed, A., Rasul, M. N., Khan, M. A., & Hussain, A. **Electronic structure, bonding behavior and optical properties of (HfC) mAl₄C₃ (m= 1, 2, 3) carbides.** Journal of Alloys and Compounds, 741 (2018), 76-84.
12. Ali, R., Zamir, B., & Shah, H. A. **Transverse electric surface waves in a plasma medium bounded by magnetic materials.** Results in physics, 8 (2018), 243-248.
13. Zamir, B., & Ali, R. **Characteristics of TE Surface Waves in a Plasma Medium Bounded by Nonlinear Metamaterials.** Journal of the Korean Physical Society, 72(10) (2018), 1166-1173.
14. Ali, M. Z. **Dispersion relations and wave propagation in photonic hypercrystals.** Modern Physics Letters B, 32(02) (2018), 1750320.
15. Mahmood, Q., Yaseen, M., ul Hassan, M., Rashid, M. S., Tlili, I., & Laref, A. **The first principle study of mechanical, optoelectronic and thermoelectric properties of CsGeBr₃ and CsSnBr₃ perovskites.** Materials Research Express (2018).
16. Hassan, M., Akhtar, N., Mahmood, Q., & Laref, A. **First principles study of electronic structures of Cd_{0.9375}Co_{0.0625}X (X= S, Se, Te) for magnetic, optical and thermoelectric device applications.** Materials Science and Engineering: B, 238 (2018), 50-60.
17. Mahmood, Q., Khalil, S., Hassan, M., & Laref, A. **Systematic DFT study of the impact of anionic variations on the physical properties of Cd_{1-x}MnxX (XS, Se, Te; x= 6.25%).** Materials Research Bulletin, 107 (2018), 225-235.
18. Iqbal, M.F., Hassan, M., Razaq, A., Ashiq, M.N., Kaneti, Y.V., Azhar, A.A., Yasmeen, F., Saleem Joya, K. and Abbass, S. **Effect of Graphene Oxide Thin Film on Growth and Electrochemical Performance of Hierarchical Zinc Sulfide Nanoweb for Supercapacitor Applications.** ChemElectroChem, 5(18) (2018), 2636-2644.
19. Noor, N. A., Mahmood, Q., Hassan, M., Laref, A., & Rashid, M. **Physical properties of cubic BaGeO₃ perovskite at various pressure using first-principle calculations for energy renewable devices.** Journal of Molecular Graphics and Modelling, 84 (2018), 152-159.
20. Parveen, B., Hassan, M., Riaz, S., Atiq, S., Naseem, S., Irfan, M., & Iqbal, M. F. **Investigation of physical properties of SnS: Fe diluted magnetic semiconductor nanoparticles for spintronic applications.** Journal of Magnetism and Magnetic Materials, 460 (2018), 111-119.
21. Mahmood, Q., Ali, S. A., Hassan, M., & Laref, A. **First principles study of ferromagnetism, optical and thermoelectric behaviours of AVO₃ (A= Ca, Sr, Ba) perovskites.** Materials Chemistry and Physics, 211 (2018), 428-437.

22. Ali, S., Rashid, M., Hassan, M., Noor, N. A., Mahmood, Q., Laref, A., & Haq, B. U. **Ab initio study of electronic, magnetic and thermoelectric behaviors of LiV₂O₄ and LiCr₂O₄ using modified Becke-Johson (mBJ) potential.** Physica B: Condensed Matter, 537 (2018), 329-335.
23. Yousaf, M., Mahmood, Q., Hassan, M., Rashid, M., & Laref, A. **Ab Initio Study of Electronic, Magnetic, and Thermoelectric Response of ZTi₂O₄ (Z= Mg, Zn, and Cd) Through mBJ Potential.** Journal of Superconductivity and Novel Magnetism, (2018) 1-9.
24. Mahmood, Q., Ashraf, A., & Hassan, M. **Investigations of optical and thermoelectric response of direct band gap Ca₃XO (X= Si, Ge) anti-perovskites stabilized in cubic and orthorhombic phases.** Indian Journal of Physics, 92(7) (2018), 865-874.
25. Hassan, M., Ghazanfar, M., Arooj, N., Riaz, S., Hussain, S. S., & Naseem, S. **STRUCTURAL, SURFACE MORPHOLOGICAL AND MAGNETIC STUDIES OF Zn_{1-x}Fe_xS (x= 0.00-0.10) DILUTED MAGNETIC SEMICONDUCTORS GROWN BY CO-PRECIPITATION METHOD.** Surface Review and Letters, 25(01) (2018), 1850044.
26. Iqbal, M. F., Ashiq, M. N., Hassan, M. U., Nawaz, R., Masood, A., & Razaq, A. **Excellent electrochemical behavior of graphene oxide based aluminum sulfide nanowalls for supercapacitor applications.** Energy (2018).
27. Noor, N. A., Hassan, M., Rashid, M., Alay-e-Abbas, S. M., & Laref, A. **Systematic study of elastic, electronic, optical and thermoelectric properties of cubic BiBO₃ and BiAlO₃ compounds at different pressure by using ab-initio calculations.** Materials Research Bulletin, 97 (2018), 436-443.
28. Iqbal, M. F., Ashiq, M. N., Razaq, A., Saleem, M., Parveen, B., & Hassan, M. U. **Excellent electrochemical performance of graphene oxide based strontium sulfide nanorods for supercapacitor applications.** Electrochimica Acta, 273 (2018), 136-144.
29. Hassan, M., Shahid, A., & Mahmood, Q. **Structural, electronic, optical and thermoelectric investigations of antiperovskites A₃SnO (A= Ca, Sr, Ba) using density functional theory.** Solid State Communications, 270 (2018), 92-98.
30. Sarfraz, H., & Saleem, U. **Quasideterminant solutions of 2-component non-commutative complex coupled integrable dispersionless system.** Journal of Physics Communications, 2(8) (2018), 085020.
31. Amjad, Z., & Haider, B. **Darboux transformations of supersymmetric Heisenberg magnet model.** Journal of Physics Communications, 2(3) (2018), 035019.
32. Gill, A.N., Iftikhar, A., Rashid, A., Amin, M., Khan, R.R.M., Rafique, H.M., Jelani, S. and Adnan, A. **Lipase-catalyzed green synthesis of starch–maleate monoesters and its characterization.** Journal of the Iranian Chemical Society (2018), 1-7.

Year: 2017

1. Riaz, H. W. A., &ul Hassan, M. **Darboux transformation of a semi-discrete coupled dispersionless integrable system.** Communications in Nonlinear Science and Numerical Simulation, 48 (2017), 387-397.
2. Saleem, U., & Hassan, M. U. **Exact Solutions of Hermitian Symmetric Space Derivative Nonlinear Schrödinger Equations.** Journal of the Physical Society of Japan, 86(6) (2017), 064002.
3. Mirza, A., &ul Hassan, M. **Bilinearization and soliton solutions of N= 1 supersymmetric coupled dispersionlessintegrable system.** Journal of nonlinear mathematical physics, 24(1) (2017), 107-115.
4. Saleem, U., & Hassan, M. **Darboux transformation and exact multisolitons of CPN nonlinear sigma model.** Journal of Mathematical Analysis and Applications, 447(2) (2017), 1080-1101.
5. Rasool, M. N., Hussain, A., Javed, A., & Khan, M. A. **Study of the structural, electronic and magnetic properties of ScFeCrT (T= Si, Ge) Heusler alloys by first principles approach.** Journal of Magnetism and Magnetic Materials, 426 (2017), 421-428.
6. Zamir, B., & Ali, R. **Nonlinear TE surface waves in a ferrite slab bounded by Kerr-type metamaterials.** Journal of Nonlinear Optical Physics & Materials, 26(03) (2017), 1750028.
7. Ali, M. Z. **Nonlinear surface waves in photonic hypercrystals.** Physics Letters A, 381(32) (2017), 2643-2647.
8. Iqbal, M. F., Hassan, M., Ashiq, M. N., Iqbal, S., Bibi, N., & Parveen, B. **High specific capacitance and energy density of synthesized graphene oxide based hierarchical Al₂S₃ nanorambutan for supercapacitor applications.** Electrochimica Acta, 246 (2017), 1097-1103.
9. Mahmood, Q., & Hassan, M. **Systematic first principle study of physical properties of Cd_{0.75}Ti_{0.25}Z (Z= S, Se, Te) magnetic semiconductors using mBJ functional.** Journal of Alloys and Compounds, 704 (2017), 659-675.
10. Parveen, B., Hassan, M. U., Khalid, Z., Riaz, S., & Naseem, S. **Room-temperature ferromagnetism in Ni-doped TiO₂ diluted magnetic semiconductor thin films.** Journal of applied research and technology, 15(2) (2017), 132-139.
11. Noor, N. A., Alay-e-Abbas, S. M., Hassan, M., Mahmood, I., Alahmed, Z. A., & Reshak, A. H. **The under-pressure behaviour of mechanical, electronic and optical properties of calcium titanate and its ground state thermoelectric response.** Philosophical Magazine, 97(22) (2017), 1884-1901.
12. Ramay, S. M., Hassan, M., Mahmood, Q., & Mahmood, A. **The study of electronic, magnetic, magneto-optical and thermoelectric properties of XCr₂O₄ (X= Zn, Cd)**

- through modified Becke and Johnson potential scheme (mBJ). Current Applied Physics, 17(8) (2017), 1038-1045.
13. Parveen, B., Hassan, M., Atiq, S., Riaz, S., Naseem, S., & Zaman, S. **Structural, dielectric and ferromagnetic properties of nano-crystalline Co-doped SnS**. Journal of Materials Science, 52(12) (2017), 7369-7381.
 14. Hassan, M., Younas, S., Sher, F., Husain, S. S., Riaz, S., & Naseem, S. **Room temperature ferromagnetism in single-phase Zn 1- x Mn x S diluted magnetic semiconductors fabricated by co-precipitation technique**. Applied Physics A, 123(5) (2017), 352.
 15. Mahmood, Q., Hassan, M., Bhamu, K. C., Yaseen, M., Ramay, S. M., & Mahmood, A. **Density functional theory-based study of the magnetic and optical properties of PbMO₃ (M= Cr, Fe) using the modified BeckeJohnson mBJ functional**. Journal of Physics and Chemistry of Solids (2017).
 16. Hanif, S., Hassan, M., Riaz, S., Atiq, S., Hussain, S. S., Naseem, S., & Murtaza, G. **Structural, magnetic, dielectric and bonding properties of BiMnO₃ grown by co-precipitation technique**. Results in physics, 7 (2017), 3190-3195.
 17. Mahmood, Q., Hassan, M., Ahmad, S. H. A., Bhamu, K. C., Mahmood, A., & Ramay, S. M. **Study of electronic, magnetic and thermoelectric properties of AV₂O₄ (A= Zn, Cd, Hg) by using DFT approach**. Journal of Physics and Chemistry of Solids (2017).
 18. Asif, A., Hassan, M., Riaz, S., Naseem, S., & Hussain, S. S. **Effects of Zr substitution on structural, morphological, and magnetic properties of bismuth iron oxide phases**. Chinese Physics B, 26(8) (2017), 087502.
 19. Abid, A., Hassan, M., Hussain, S. S., Riaz, S., & Naseem, S. **Temperature-Dependent Phase Formation, Surface Morphological and Magnetic Studies of Bismuth Iron Oxide Grown by Co-precipitation Method**. Journal of Superconductivity and Novel Magnetism, 30(9) (2017), 2549-2554.
 20. Hassan, M., Irfan, R., Riaz, S., Naseem, S., Hussain, S. S., & Murtaza, G. **Structural and morphological properties of Zn 1- x Zr x O with room-temperature ferromagnetism and fabricated by using the co-precipitation technique**. Journal of the Korean Physical Society, 70(5) (2017), 460-464.
 21. Parveen, B., Hassan, M., Atiq, S., Riaz, S., Naseem, S., & Toseef, M. A. **Structural and dielectric study of nano-crystalline single phase Sn_{1- x}Ni_xS (xNi= 0-10%) showing room temperature ferromagnetism**. Progress in Natural Science: Materials International, 27(3) (2017), 303-310.
 22. Hassan, M., Arshad, I., & Mahmood, Q. **Computational study of electronic, optical and thermoelectric properties of X₃PbO (X= Ca, Sr, Ba) anti-perovskites**. Semiconductor Science and Technology, 32(11) (2017), 115002.
 23. Mahmood, Q., Yaseen, M., Hassan, M., Ramay, S. M., & Mahmood, A. **Theoretical investigation of optical properties and band gap engineering for Zn_{1- x} TM _x Te**

(TM= Fe, Co) alloys by modified Becke–Johnson potential. Chinese Physics B, 26(8) (2017), 087803.

24. Mahmood, Q., Hassan, M., & Noor, N. A. **Theoretical Study of Electronic, Magnetic, and Optical Response of Fe-doped ZnS: First-Principle Approach.** Journal of Superconductivity and Novel Magnetism, 30(6) (2017), 1463-1471.
25. Mahmood, Q., Hassan, M., & Faridi, M. A. **Study of magnetic and optical properties of Zn_{1-x} TM_x Te (TM= Mn, Fe, Co, Ni) diluted magnetic semiconductors: First principle approach.** Chinese Physics B, 26(2) (2017), 027503.
26. Sarfraz, H., & Saleem, U. **Exact solutions of the noncommutative and commutative nonlinear Schrödinger equation in 2+ 1 dimensions.** Modern Physics Letters A, 32(29) (2017), 1750158.
27. Sarfraz, H., & Saleem, U. **Darboux transformation and multi-soliton solutions of local/nonlocal N-wave interactions.** Modern Physics Letters A, 32(36) (2017), 1750196.

Year: 2016

1. Millar, R., Gallacher, K., Frigerio, J., Ballabio, A., Bashir, A., MacLaren, I., Isella, G. and Paul, D.J. **Engineering Large In-Plane Tensile Strains in Ge Microdisks, Microrings and Racetrack Optical Cavities.** ECS Transactions, 75(8) (2016), 633-640.
2. Gallacher, K., Ballabio, A., Millar, R.W., Frigerio, J., Bashir, A., MacLaren, I., Isella, G., Ortolani, M. and Paul, D.J. **Mid-infrared intersubband absorption from p-Ge quantum wells grown on Si substrates.** Applied Physics Letters, 108(9) (2016), 091114.
3. Gallacher, K., Millar, R.W., Ballabio, A., Frigerio, J., Bashir, A., MacLaren, I., Isella, G., Ortolani, M. and Paul, D.J. **Mid-infrared intersubband absorption from p-Ge quantum wells on Si. In Infrared, Millimeter, and Terahertz waves (IRMMW-THz), 2016 41st International Conference on (pp. 1-2).** IEEE (2016).
4. Gallacher, K., Ballabio, A., Millar, R.W., Frigerio, J., Bashir, A., MacLaren, I., Isella, G., Ortolani, M. and Paul, D.J. **Mid-infrared intersubband absorption from p-Ge quantum wells grown on Si substrates.** Applied Physics Letters, 108(9) (2016), 091114.
5. Gallacher, K., Baldassarre, L., Samarelli, A., Millar, R.W., Ballabio, A., Frigerio, J., Isella, G., Bashir, A., MacLaren, I., Giliberti, V. and Pellegrini, G. **Ge-on-Si Photonics for Mid-infrared Sensing Applications.** MRS Advances, 1(48) (2016), 3269-3279.
6. Millar, R.W., Gallacher, K., Frigerio, J., Ballabio, A., Bashir, A., MacLaren, I., Isella, G. and Paul, D.J. **Analysis of Ge micro-cavities with in-plane tensile strains above 2%.** Optics express, 24(5) (2016), 4365-4374.

7. Gallacher, K., Ballabio, A., Millar, R.W., Frigerio, J., Bashir, A., MacLaren, I., Isella, G., Ortolani, M. and Paul, D.J. **Mid-infrared intersubband absorption from p-Ge quantum wells grown on Si substrates.** Applied Physics Letters, 108(9) (2016), 091114.
8. Javed, A., Durrani, H. G., & Zhu, C. **The effect of vacuum annealing on the microstructure, mechanical and electrical properties of tantalum films.** International Journal of Refractory Metals and Hard Materials, 54 (2016), 154-158.
9. Ali, R., & Shah, H. A. **Soliton propagation in a magnetic-semiconducting medium.** Modern Physics Letters B, 30(01) (2016), 1550256.
10. Mahmood, S., Sadiq, S., Haque, Q., & Ali, M. Z. **Arbitrary amplitude electrostatic wave propagation in a magnetized dense plasma containing helium ions and degenerate electrons.** Physics of Plasmas, 23(6) (2016), 062308.
11. Mahmood, Q., Alay-e-Abbas, S. M., Hassan, M., & Noor, N. A. **First-principles evaluation of Co-doped ZnS and ZnSe ferromagnetic semiconductors.** Journal of Alloys and Compounds, 688 (2016), 899-907.
12. Mahmood, Q., Hassan, M., & Noor, N. A. **Systematic study of room-temperature ferromagnetism and the optical response of Zn_{1-x}TM_xS/Se (TM= Mn, Fe, Co, Ni) ferromagnets: first-principle approach.** Journal of Physics: Condensed Matter, 28(50) (2016), 506001.
13. Hassan, M., Noor, N. A., Mahmood, Q., & Amin, B. **Investigation of ferromagnetic semiconducting and opto-electronic properties of Zn_{1-x}MnxS (0≤ x≤ 1) alloys: A DFT-mBJ approach.** Current Applied Physics, 16(11) (2016), 1473-1483.
14. Nabi, J. U., Shehzadi, R., & Fayaz, M. **Gamow-Teller strength distributions and neutrino energy loss rates due to chromium isotopes in stellar matter.** Astrophysics and Space Science, 361(3) (2016), 95.

Year: 2015

1. Saleem, U., & Hassan, M. **Quasideterminant solutions of nonlinear Schrödinger equations based on Hermitian symmetric spaces.** Communications in Nonlinear Science and Numerical Simulation, 23(1-3) (2015), 343-365.
2. Majid, F., Riaz, S., & Naseem, S. **Microwave-assisted sol-gel synthesis of BiFeO₃ nanoparticles.** Journal of Sol-Gel Science and Technology, 74(2) (2015), 310-319.
3. Majid, F., Mirza, S. T., Riaz, S., & Naseem, S. **Sol-Gel synthesis of BiFeO₃ nanoparticles.** Materials Today: Proceedings, 2(10) (2015), 5293-5297.
4. Majid, F., Riaz, S., Naseer, A., & Naseem, S. **Structural and Magnetic Properties of BiFe_{1-x}MnO₃ Thin Films.** Materials Today: Proceedings, 2(10) (2015), 5748-5753.

5. Guo, F., Javed, A., & Xiao, P. **Microstructure, oxidation behaviour and mechanical properties of Fe₂O₃ doped yttria-partially-stabilized zirconia coatings produced on metallic substrates by electrophoretic deposition.** Surface and Coatings Technology, 264 (2015), 17-22.
6. Wang, X. Z., Liu, X. Y., Javed, A., Zhu, C., & Liang, G. Y. **Phase transition behavior of yttria-stabilized zirconia from tetragonal to monoclinic in the lanthanum zirconate/yttria-stabilized zirconia coupled-system using molecular dynamics simulation.** Journal of Molecular Liquids, 207 (2015), 309-314.
7. Shaikh, M. N., Zamir, B., & Ali, R. **TE Surface Waves in a Plasma Sandwich Structure.** ActaPhysicaPolonica A, 127(6) (2015), 1625-1629.
8. Ali, M. Z., Bhatti, A. A., ulHaque, Q., & Mahmood, S. **Global transmission diagrams for evanescent waves in a nonlinear hyperbolic metamaterial.** Chinese Optics Letters, 13(9) (2015), 090601.
9. Ali, M. Z. **Nonlinear tunneling of surface plasmonpolaritons in periodic structures containing left-handed metamaterial layers.** Advances in Condensed Matter Physics, 2015 (2015).
10. Hassan, M., Riaz, S., & Naseem, S. **Modification in structural and magnetic properties of pure ZnO realized by Bi addition.** Materials Today: Proceedings, 2(10) (2015), 5596-5600.
11. Hassan, M., Riaz, S., & Naseem, S. **Room temperature ferromagnetism and nickel addition effects in titanium dioxide.** Materials Today: Proceedings, 2(10) (2015), 5251-5255.
12. Anwar, A.W., Majeed, A., Iqbal, N., Ullah, W., Shuaib, A., Ilyas, U., Bibi, F. and Rafique, H.M. **Specific capacitance and cyclic stability of graphene based metal/metal oxide nanocomposites: a review.** Journal of Materials Science & Technology, 31(7) (2015), 699-707.
13. Sohl, M. A., Schlager, P., Schmieder, K., & Rafique, H. M. **Bioenergy Crop Identification at Field Scale Using VHR Airborne CIR Imagery.** Photogrammetric Engineering & Remote Sensing, 81(8) (2015), 669-677.
14. Shehzadi, R., Rafique, H. M., Abbas, I., Sohl, M. A., Ramay, S. M., Mahmood, A., & Sohl, M. N. **Assessment of drinking water quality of Tehsil Alipur, Pakistan.** Desalination and Water Treatment, 55(8) (2015), 2253-2264.

Year: 2014

1. Mushahid, N., & UI Hassan, M. **A noncommutative coupled dispersionless system, Darboux transformation and explicit solutions.** Modern Physics Letters A, 29(39) (2014), 1450206.

2. Riaz, S., Majid, F., Shah, S. M. H., &Naseem, S. **Enhanced magnetic and structural properties of Ca doped BiFeO₃ thin films.** Indian Journal of Physics, 88(10) (2014), 1037-1044.
3. Majid, F., Riaz, S., &Naseem, S. **Ferromagnetic and dielectric behavior of bismuth iron oxide nanoparticles under as-synthesized conditions.** In Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14) (2014).
4. Long, Y., Javed, A., Chen, J., Chen, Z. K., &Xiong, X. **The effect of deposition temperature on the microstructure and mechanical properties of TaC coatings.** Materials Letters, 121 (2014), 202-205.
5. Sadiq, S., Mahmood, S., Haque, Q., & Ali, M. Z. **Ion acoustic solitons in dense magnetized plasmas with nonrelativistic and ultrarelativistic degenerate electrons and positrons.** The Astrophysical Journal, 793(1) (2014), 27.
6. Murtaza, G., Ahmad, R., Rashid, M.S., Hassan, M., Hussnain, A., Khan, M.A., ul Haq, M.E., Shafique, M.A. and Riaz, S. **Structural and magnetic studies on Zr doped ZnO diluted magnetic semiconductor.** Current Applied Physics, 14(2) (2014), 176-181.
7. Przybylińska, H., Springholz, G., Lechner, R. T., Hassan, M., Wegscheider, M., Jantsch, W., & Bauer, G. **Magnetic-field-induced ferroelectric polarization reversal in the multiferroic Ge 1- x Mn x Te semiconductor.** Physical review letters, 112(4) (2014), 047202.
8. Mahmood, A., Ramay, S. M., Rafique, H. M., Al-Zaghayer, Y., & Khan, S. U. D. **First-principles study of electronic, optical and thermoelectric properties in cubic perovskite materials AgMO₃ (M= V, Nb, Ta).** Modern Physics Letters B, 28(10) (2014), 1450077.
9. Ramay, S.M., Rafique, H.M., Aslam, S., Siddiqi, S.A., Atiq, S., Saleem, M., Naseem, S. and Shar, M.A. **Structural, morphological, and magnetic characterization of sol-gel synthesized MnCuZn ferrites.** IEEE Transactions on Magnetics, 50(8) (2014), 1-4.
10. Rafique, H.M., Abbas, I., Sohl, M.A., Shehzadi, R., Ramay, S.M., Imran, M., Al-Zaghayer, Y., Mahmood, A. and Sohl, M.N. **Appraisal of drinking water quality of tehsil Jampur, Pakistan.** Desalination and Water Treatment, 52(25-27) (2014), 4641-4648.
11. Abbas, I., Rafique, H.M., Sohl, M.A., Falak, A., Mahmood, S., Imran, M., Al-Zaghayer, Y., Al-Awadi, A. and Mahmood, A. **Spatio-temporal analysis of groundwater regime within Rawalpindi Municipal Jurisdiction, Pakistan.** Desalination and Water Treatment, 52(7-9) (2014), 1472-1483.
12. Iqbal, N., Sagar, S., Khan, M. B., &Rafique, H. M. **Ablation, thermal stability/transport and mechanical investigations of modified nanokaolinite impregnated acrylonitrile butadiene rubber composites.** Journal of Composite Materials, 48(10) (2014), 1221-1231.

13. Iqbal, N., Sagar, S., Khan, M. B., & Rafique, H. M. **Elastomeric ablative nanocomposites used in hyperthermal environments**. Polymer Engineering & Science, 54(2) (2014), 255-263.
14. Ahmad, M., Iqbal, M. A., Kiely, J., Luxton, R., & Jabeen, M. **Low temperature hydrothermal synthesis of ZnO nanowires for nanogenerator: Effect of gold electrode on the output voltage of nanogenerator**(2014).
15. Manzoor, S., Liu, Y., Yu, Z., Fu, X., & Ban, G. **Hydrothermal Synthesis and Mechanism of Unusual Zigzag Ag₂Te and Ag₂Te/C Core-Shell Nanostructures**. Journal of Nanomaterials, 2014(2014).
16. Manzoor, S., Liu, Y., Fu, X., Yu, Z., & Ban, G. **Near infrared nonlinearity in silver telluride-core/carbon-sheath and tellurium-core/carbon-sheath nanostructures synthesized by reduction carbonization approach**. Journal of materials science, 49(20) (2014), 6892-6899.
17. Yang, C. H., Yu, Z. Y., Lu, P. F., Liu, Y. M., Manzoor, S., Li, M., & Zhou, S. **The mechanical properties and stabilities of pristine, hydrogenated, and fluorinated silicene under tension**. In Reliability, Packaging, Testing, and Characterization of MOEMS/MEMS, Nanodevices, and Nanomaterials XIII (Vol. 8975, p. 89750K). International Society for Optics and Photonics (2014).

Year: 2013

1. Mushahid, N., Hassan, M., & Saleem, U. **Conserved quantities in the Generalized Heisenberg Magnet (GHM) model**. Modern Physics Letters A, 28(07) (2013), 1350020.
2. Mushahid, N., & Ul Hassan, M. **On the dressing method for the generalized coupled dispersionless integrable system**. Modern Physics Letters A, 28(20) (2013), 1350088.
3. Bashir, M., & Kempf, J. **Area bound dynamic time warping based fast and accurate person authentication using a biometric pen**. Digital Signal Processing, 23(1) (2013), 259-267.
4. Majid, F., Riaz, S., Ijaz, T., Farooq, M., & Naseem, S. **Synthesis and characterization of Sol-gel deposited aluminum oxide at low temperatures**. In Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE) (2013).
5. Imran, M., Majid, F., Riaz, S., & Naseem, S. **Optical and structural properties of electrodeposited aluminum oxide at low temperatures**. In Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE) (2013).
6. Farzana, M., Saira, R., & Shahzad, N. **Optical properties of Electrodeposited alumina thin films by using Spectroscopic Ellipsometer**. In Applied Mechanics and Materials (Vol. 319, pp. 84-89). Trans Tech Publications (2013).

7. Zhu, C., Javed, A., Li, P., Liang, G. Y., & Xiao, P. **Study of the effect of laser treatment on the initial oxidation behaviour of Al-coated NiCrAlY bond-coat.** Surface and Interface Analysis, 45(11-12) (2013), 1680-1689.
8. Long, Y., Javed, A., Chen, Z. K., Xiong, X., & Xiao, P. **Deposition rate, texture, and mechanical properties of SiC coatings produced by chemical vapor deposition at different temperatures.** International Journal of Applied Ceramic Technology, 10(1) (2013), 11-19.
9. Kotapati, S., Javed, A., Reeves-McLaren, N., Gibbs, M. R. J., & Morley, N. A. **Effect of the Ni₈₁Fe₁₉ thickness on the magnetic properties of Ni₈₁Fe₁₉/Fe₅₀Co₅₀ bilayers.** Journal of Magnetism and Magnetic Materials, 331 (2013), 67-71.
10. Jabeen, M., Iqbal, M. A., Kumar, R. V., Ahmed, M., & Javed, M. T. **Chemical synthesis of zinc oxide nanorods for enhanced hydrogen gas sensing.** Chinese Physics B, 23(1) (2013), 018504.
11. Di Gennaro, E., di Uccio, U. S., Aruta, C., Cantoni, C., Gadaleta, A., Lupini, A. R., Maccariello, D., Marre, D., Pallechi, I., Paparo, D., Perna, P., Riaz, R., & Granozio, F. M. **Persistent photoconductivity in 2D electron gases at different oxide interfaces.** Advanced Optical Materials, 1(11) (2013), 834-843.
12. Saeed, M. A. R. Y. A. M., & Ali, M. Z. **Optical tamm states at interfaces of different periodic media containing single and double negative material layers.** Nucleus (Islamabad), 50(3) (2013), 289-292.
13. Ali, M. Z. **Effective medium parameters for 1D photonic crystal containing single-negative material layers using the envelope function approach.** Chinese Optics Letters, 11(4) (2013), 040501.
14. Caha, O., Dubroka, A., Humlicek, J., Holy, V., Steiner, H., Ul-Hassan, M., Sánchez-Barriga, J., Rader, O., Stanislavchuk, T.N., Sirenko, A.A. and Bauer, G. **Growth, structure, and electronic properties of epitaxial bismuth telluride topological insulator films on BaF₂ (111) substrates.** Crystal Growth & Design, 13(8) (2013), 3365-3373.
15. Iqbal, M. Z., Wang, F., Rafique, M. Y., Ud Din, R., Butt, F. K., Ali, S., Khan, M.A., & Tofeeq, A. **Fabrication, Characterization and Hydrogen Sorption Properties of Stannous Oxide Nano-Flowers.** Science of Advanced Materials, 5(7) (2013), 758-763.
16. Iqbal, M. Z., Wang, F., Rafique, M. Y., Ali, S., Farooq, M. H., & Ellahi, M. **Hydrothermal synthesis, characterization and hydrogen storage of SnS nanorods.** Materials Letters, 106(2013), 33-36.
17. Rafique, M. Y., Pan, L., Iqbal, M. Z., Qiu, H., Farooq, M. H., Zhengang, G., & Iqbal, M. A. **Facile Synthesis, Structural and Magnetic Properties of Hierarchical Tree-Leaf Like FeCo Alloy Microstructures.** Nanoscience and Nanotechnology Letters, 5(7) (2013), 791-794.

18. Rafique, M. Y., Li-Qing, P., Iqbal, M. Z., Hong-Mei, Q., Farooq, M. H., Zhen-Gang, G., & Tanveer, M. (2013). **Growth of monodisperse nanospheres of MnFe₂O₄ with enhanced magnetic and optical properties.** Chinese Physics B, 22(10), 107101.
19. Mahmood, S. A., Qureshi, J., Ahmad, S. R., Sami, J., Masood, A., & Rafique, H. M. **Identification of Neotectonics using DEM-based Local Base-level Approach in Pothowar Plateau.** In proceedings of the Pakistan Academy of Sciences 50 (4) (2013), 299–308
20. Mumtaz, M. W., Raza, M. A., Adnan, A., Mukhtar, H., Perveen, I., Rafique, H. M., Iqbal, T., & Hamayun, M. **Optimization of Chemical Kinetics for Base Catalyzed Transesterification of Eruca sativa Oil.** Asian Journal of Chemistry, 25(15) (2013), 8653.
21. Arshad, M. N., Şahin, O., Zia-ur-Rehman, M., Khan, I. U., Asiri, A. M., & Rafique, H. M. **4-hydroxy-2H-1, 2-benzothiazine-3-carbohydrazide 1, 1-dioxide-oxalohydrazide (1:1): X-ray structure and DFT calculations.** Journal of Structural Chemistry, 54(2) (2013), 437-442.
22. Ishaq, A., Usman, M., Dee, C.F., Khurram, A.A., Yan, L., Zhou, X.T., Nadeem, A., Naseem, S., Rafique, H.M. and Majlis, B.Y. **Effect for hydrogen, nitrogen, phosphorous, and argon ions irradiation on ZnO NWs.** Journal of nanoparticle research, 15(4) (2013), 1467.
23. Ishaq, A., Iqbal, S., Ali, N., Khurram, A.A., Akrajas, A.U., Dee, C.F., Naseem, S., Rafique, H.M. and Long, Y. **H⁺, N⁺, and Ar⁺ ion irradiation induced structure changes of carbon nanostructures.** New Carbon Materials, 28(2) (2013), 81-86.
24. Sajjad, M., Zhang, H. X., Noor, N. A., Alay-e-Abbas, S. M., Shaukat, A., & Mahmood, Q. **Study of half-metallic ferromagnetism in V-doped CdTe alloys by using first-principles calculations.** Journal of Magnetism and Magnetic Materials, 343 (2013), 177-183.
25. Noor, N. A., Alay-e-Abbas, S. M., Saeed, Y., Abbas, S. G., & Shaukat, A. **Ab initio study of electronic structure and magnetic properties in ferromagnetic Be_{1-x}MnxSe and Be_{1-x}MnxTe alloys.** Journal of Magnetism and Magnetic Materials, 339 (2013), 11-19.
26. Ali, N., Hussain, S. T., Iqbal, M. A., Hutching, K., & Lane, D. **Structural and optoelectronic properties of antimony tin sulphide thin films deposited by thermal evaporation techniques.** Optik-International Journal for Light and Electron Optics, 124(21) (2013), 4746-4749.
27. Ali, N., Hussain, S. T., Iqbal, M. A., Ahmad, N., Khan, Y., Jabeen, M., & Lane, D. **Combinatorial Study of SnSbS Thin Films by X-Ray Diffraction and Photoconductivity.** Journal of Global Energy Issues, 1 (2013), 1-8.
28. Ali, N., Hussain, A., Hussain, S. T., Iqbal, M. A., Shah, M., Rahim, I., Ahmad, N., Ali, Z., Hutching, K., Lane, D. and Syed, W.A.A. **Physical properties of the absorber layer Sn₂Sb₂S₅ thin films for photovoltaics.** Current Nanoscience, 9(1) (2013), 149-152.

29. Ali, N., Hussain, S. T., Khan, Y., Ahmad, N., Iqbal, M. A., & Abbas, S. M. **Effect of air annealing on the band gap and optical properties of SnSb₂S₄ thin films for solar cell application.** Materials Letters, 100(2013), 148-151.
30. Watson, D., Zafar, T., Andersen, A.C., Fynbo, J.P., Gorosabel, J., Hjorth, J., Jakobsson, P., Krühler, T., Laursen, P., Leloudas, G. and Malesani, D. **Helium in natal H II regions: the origin of the X-ray absorption in gamma-ray burst afterglows.** The Astrophysical Journal, 768(1) (2013), 23.
31. Jabeen, M., Iqbal, M. A., Kumar, R. V., Ahmed, M., & Javed, M. T. **Chemical synthesis of zinc oxide nanorods for enhanced hydrogen gas sensing.** Chinese Physics B, 23(1) (2013), 018504.

Year: 2012

1. Haider, B., & Hassan, M. U. **Grammian quasi-determinant solutions of the generalized coupled dispersionless integrable system.** Symmetry, Integrability and Geometry: Methods and Applications 8 (2012), 084
2. Saleem, U., & ul Hassan, M. **Darboux transformation and multisoliton solutions of the short pulse equation.** Journal of the Physical Society of Japan, 81(9) (2012), 094008.
3. Bashir, M., & Kempf, F. **Advanced biometric pen system for recording and analyzing handwriting.** Journal of Signal Processing Systems, 68(1) (2012), 75-81.
4. Zhang, H., López-Honorato, E., Javed, A., Shapiro, I., & Xiao, P. **A study of the microstructure and Vickers indentation fracture toughness of silicon carbide coatings on TRISO fuel particles.** Journal of the American Ceramic Society, 95(3) (2012), 1086-1092.
5. Aruta, C., Amoruso, S., Ausanio, G., Bruzzese, R., Di Gennaro, E., Lanzano, M., MilettoGranozio, F., Riaz, M., Sambri, A., Scotti di Uccio, U. and Wang, X. **Critical influence of target-to-substrate distance on conductive properties of LaGaO₃/SrTiO₃ interfaces deposited at 10– 1 mbar oxygen pressure.** Applied Physics Letters, 101(3) (2012), 031602.
6. di Uccio, U.S., Aruta, C., Cantoni, C., Di Gennaro, E., Gadaleta, A., Lupini, A.R., Maccariello, D., Marré, D., Pallecchi, I., Paparo, D., Perna, P., Riaz, M. and Granozio, F. M. **Reversible and Persistent Photoconductivity at the NdGaO₃/SrTiO₃ Conducting Interface.** arXiv preprint arXiv:1206.5083 (2012).
7. Ali, M. Z. **Properties of single and multiple defect modes in one-dimensional photonic crystals containing left-handed metamaterials.** Chinese Optics Letters, 10(7) (2012), 071604-071604.
8. Hochreiner, A., Kriechbaumer, S., Schwarzl, T., Groiss, H., Hassan, M., & Springholz, G. **Tuning of mid-infrared emission of ternary PbSrTe/CdTe quantum dots.** Applied Physics Letters, 100(11) (2012), 113112.

9. Ahmad, I., Dee, C. F., Husnain, G., Rafique, H. M., Long, Y., & Naseem, S. **Use of high-intensity electron beam to form nanohole, induce bending and fabricate nanocontact on a ZnO nanowire.** IET Micro & Nano Letters, 7(2) (2012), 122-124.
10. Husnain, G., Ahmad, I., Yao, S. D., Rafique, H. M., Umar, A. A., & Dee, C. F. **Depth-dependent tetragonal distortion study of AlGaNepilayer thin film using rbs and channeling technique.** Modern Physics Letters B, 26(14) (2012), 1250086.
11. Arshad, M. N., Muhammad, Z. U. R., Khan, I. U., Mustafa, G., Shafiq, M., Rafique, H. M., & Holman, K. T. **Structural Studies of 2-Pentyl/Pentenyl-Substituted Methyl 4-Hydroxy-2H-1, 2-Benzothiazine-3-Carboxylate-1, 1-Dioxide.** Walailak Journal of Science and Technology (WJST), 9(4) (2012), 375-380.
12. Jamil, M., Uzma, C., Zubia, K., Zeba, I., Rafique, H. M., & Salimullah, M. **Diamagnetic drift instabilities in collisional non-uniform quantum dusty magnetoplasmas.** Journal of Plasma Physics, 78(6) (2012), 589-593.
13. Qureshi, J., Mahmood, S. A., Almas, A. S., Rafique, H. M., Ahmad, S. R., & Masood, A. **DEM based geomorphic analysis along Kalabagh fault and power plateau to constrain surface deformation: inferences from remote sensing and GIS.** Pakistan Journal of Science, 64(2) (2012), 108.
14. Masood, A., Ahmad, S. R., Mahmood, S. A., Qureshi, J., Rafique, H. M., & Khan, M. S. **Surface deformation through fractal analysis of DEM based spatial drainage patterns in Gilgit Baltistan region (northern Pakistan).** Pakistan Journal of Science, 64(2) (2012).
15. Noor, N. A., Tahir, W., Aslam, F., & Shaukat, A. **Ab initio study of structural, electronic and optical properties of Be-doped CdS, CdSe and CdTe compounds.** Physica B: Condensed Matter, 407(6) (2012), 943-952.
16. Iqbal, M. A., Tahir, W., Rai, G. M., Noor, N. A., Ali, S., & Kubra, K. T. **An investigation of the titanium effect on the structural and magnetic properties of BaNi₂ based W-type hexaferrites.** Ceramics International, 38(5) (2012), 3757-3762.
17. Thöne, C.C., Fynbo, J.P.U., Goldoni, P., de Ugarte, A.P., Campana, S., Vergani, S.D., Covino, S., Krühler, T., Kaper, L., Tanvir, N. and Zafar, T. **GRB 100219A with X-shooter–abundances in a galaxy at z= 4.7.** Monthly Notices of the Royal Astronomical Society, 428(4) (2012), 3590-3606.
18. Rai, G. M., Iqbal, M. A., Xu, Y. B., Will, I. G., & Mahmood, Q. **Room Temperature Ferromagnetism in Ga_{1-x} Ho_x N (x= 0.0 and 0.05) Diluted Magnetic Semiconductor Thin Films.** Chinese Journal of Chemical Physics, 25(3) (2012), 313-317.

Year: 2011

1. Haider, B., & Hassan, M. **Binary Darboux transformation for the supersymmetric principal chiral field model.** Journal of Nonlinear Mathematical Physics, 18(04) (2011), 557-581.
2. Saleem, U., & Hassan, M. **Darboux transformation and multi-soliton solutions of principal chiral and WZW models.** Modern Physics Letters A, 26(01) (2011), 73-85.
3. Haider, B., Hassan, M., & Saleem, U. **Binary Darboux transformation and quasideterminant solutions of the chiral field.** Journal of Nonlinear Mathematical Physics, 18(02) (2011), 299-321.
4. Bashir, M., & Kempf, J. **DTW based classification of diverse pre-processed time series obtained from handwritten PIN words and signatures.** Journal of Signal Processing Systems, 64(3) (2011), 401-411.
5. Bashir, M., Scharfenberg, G., & Kempf, J. **Person Authentication by Handwriting in air using a Biometric Smart Pen Device.** BIOSIG, 191 (2011), 219-226.
6. Dean, J., Bryan, M. T., Morley, N. A., Hrkac, G., Javed, A., Gibbs, M. R. J., & Allwood, D. A. **Numerical study of the effective magnetocrystalline anisotropy and magnetostriction in polycrystalline FeGa films.** Journal of Applied Physics, 110(4) (2011), 043902.
7. Szumiata, T., Brzózka, K., Gawroński, M., Górką, B., Javed, A., Morley, N. A., & Gibbs, M. R. J. **Structural and magnetic ordering in Fe-Ga thin films examined by Mössbauer spectrometry.** Acta Phys. Pol. A, 119 (2011), 21-23.
8. Long, Y., Javed, A., Shapiro, I., Chen, Z. K., Xiong, X., & Xiao, P. **The effect of substrate position on the microstructure and mechanical properties of SiC coatings on carbon/carbon composites.** Surface and Coatings Technology, 206(2-3) (2011), 568-574.
9. Zamir, B., & Ali, R. **Wave propagation in parallel-plate waveguides filled with nonlinear left-handed material.** Chinese Physics B, 20(1) (2011), 014102.
10. Ali, M. Z., & Abdullah, T. **APPEARANCE OF A ZERO-n AND A ZERO- ϕ eff GAP IN DIFFERENT FREQUENCY RANGES IN A SINGLE 1D PHOTONIC BAND GAP STRUCTURE.** International Journal of Modern Physics B, 25(22) (2011), 3027-3034.
11. Ali, M. Z. **Properties of the angular gap in one-dimensional periodic structures containing left-handed metamaterials.** Optica Applicata, 41(1) (2011).
12. Ali, M. Z. **Unconventional photonic gaps of a one dimensional photonic band gap structure.** Optica Applicata, 41(3) (2011), 743-752.
13. Hassan, M., Springholz, G., Lechner, R. T., Groiss, H., Kirchschlager, R., & Bauer, G. **Molecular beam epitaxy of single phase GeMnTe with high ferromagnetic transition temperature.** Journal of crystal growth, 323(1) (2011), 363-367.

14. Das, A., & Saleem, U. **Darboux transformation and multi-soliton solutions of Two-Boson hierarchy.** Modern Physics Letters A, 26(09) (2011), 625-636.
15. Brock, I. C., Shehzadi, R., Juengst, M., Roloff, P., & Libov, V. **Measurement of beauty and charm production in deep inelastic scattering with the ZEUS detector at HERA.** Verhandlungen der Deutschen Physikalischen Gesellschaft (2011).
16. Shehzadi, R. **Measurement of heavy-quark jet photoproduction at HERA.** PoS, 452 (2011).
17. Shehzadi, R. **Beauty Production in Deep Inelastic Scattering at HERA using Decays into Electrons.** arXiv preprint arXiv:1109.4718 (2011).
18. Shehzadi, R., & H1 and ZEUS Collaborations. **Jets and Heavy Flavors at HERA.** In AIP Conference Proceedings (Vol. 1350, No. 1, pp. 24-28). AIP (2011).

Year: 2010

1. Adamopoulos, G., Bashir, A., Thomas, S., Gillin, W.P., Georgakopoulos, S., Shkunov, M., Baklar, M.A., Stingelin, N., Maher, R.C., Cohen, L.F. and Bradley, D.D. **Spray-Deposited Li-Doped ZnO Transistors with Electron Mobility Exceeding 50 cm²/Vs.** Advanced Materials, 22(42) (2010), 4764-4769.
2. Smith, J., Bashir, A., Adamopoulos, G., Anthony, J.E., Bradley, D.D., Heeney, M., McCulloch, I. and Anthopoulos, T.D. **Air-Stable Solution-Processed Hybrid Transistors with Hole and Electron Mobilities Exceeding 2 cm² V⁻¹ s⁻¹.** Advanced Materials, 22(32) (2010), 3598-3602.
3. Wöbkenberg, P., Zimmerling, T., Bashir, A., Adamopoulos, G., Bradley, D. and Anthopoulos, T. **Solution Processed Ultra-violet Light Sensing ZnO Thin-film Transistors.** In MRS 2010 Spring Meeting (2010).
4. Javed, A., & Sun, J. B. **An investigation of structural phase transformation and electrical resistivity in Ta films.** Applied Surface Science, 257(4) (2010), 1211-1215.
5. Javed, A., Szumiata, T., Morley, N. A., & Gibbs, M. R. J. **An investigation of the effect of structural order on magnetostriction and magnetic behavior of Fe–Ga alloy thin films.** Acta Materialia, 58(11) (2010), 4003-4011.
6. Javed, A., Morley, N. A., & Gibbs, M. R. J. **Thickness dependence of magnetic and structural properties in Fe 80 Ga 20 thin films.** Journal of Applied Physics, 107(9) (2010), 09A944.
7. Sun, J. B., Javed, A., Zhang, Z. X., Cui, C. X., Zhang, M. X., & Han, R. P. **Effect of B addition on the microstructure and magnetic properties of melt-spun Sm₁₂Co_{60-x}Fe₁₉Cu₆Zr₃B_x (0≤ x≤ 3) ribbons.** Materials Science and Engineering: B, 167(2) (2010), 102-106.

8. Shaikh, M. N., Ali, R., Shah, H. A., & Chaudhary, U. N. **Coupled nonlinear waves in a composite magnetic–semiconducting medium.** Physics Letters A, 374(29) (2010), 2942-2948.
9. Lechner, R.T., Springholz, G., Hassan, M., Groiss, H., Kirchschlager, R., Stangl, J., Hrauda, N. and Bauer, G. **Phase separation and exchange biasing in the ferromagnetic IV-VI semiconductor Ge 1- x Mn x Te.** Applied Physics Letters, 97(2) (2010), 023101.
10. Rai, G. M., Iqbal, M. A., & Kubra, K. T. **Effect of Ho³⁺ substitutions on the structural and magnetic properties of BaFe₁₂O₁₉hexaferrites.** Journal of Alloys and Compounds, 495(1) (2010), 229-233.
11. Khan, W. S., Cao, C., Zhong, J., Liu, Y., & Iqbal, M. A. **Synthesis of metallic Zn microprisms, their growth mechanism and PL properties.** Materials Letters, 64(20) (2010), 2273-2276.
12. Iqbal, M. A., & Manzoor, S. **Method of Enhancing Polyaniline Conductivity Using Different Oxidizing Agent As Dopant.** Nanotech 2010, 1(2010)
13. Iqbal, M. A., Mir, A., & Alam, S. **Synthesis and Characterizations of nano-sized Barium Hexa Ferrites using Sol-Gel Methods.** In Proceedings of the 2010 NSTI Nanotechnology Conference and Expo (Vol. 1, pp. 103-6) (2010).
14. Iqbal, M. A., & Awais, W. **The effects of gamma radiation on silicon solar panels.** In Nanotech Conf. and Expo. (2010)

Year: 2009

1. Saleem, U., & Hassan, M. **Quasideterminant solutions of the generalized Heisenberg magnet model.** Journal of Physics A: Mathematical and Theoretical, 43(4) (2009), 045204.
2. Haider, B., & Hassan, M. **Quasideterminant multisoliton solutions of a supersymmetric chiral field model in two dimensions.** Journal of Physics A: Mathematical and Theoretical, 43(3) (2009), 035204.
3. Haider, B., & Hassan, M. **Quasideterminant solutions of an integrable chiral model in two dimensions.** Journal of Physics A: Mathematical and Theoretical, 42(35) (2009), 355211.
4. Bashir, M., & Kempf, J. **Person authentication with RDTW using handwritten PIN and signature with a novel biometric smart pen device.** SSCI Computational Intelligence in Biometrics, IEEE, Nashville (2009).
5. Bashir, M., & Kempf, J. **Bio-inspired reference level assigned DTW for person identification using handwritten signatures.** In European Workshop on Biometrics and Identity Management (pp. 200-206). Springer, Berlin, Heidelberg (2009).

6. Bashir, M., Kempf, J., Schickhuber, G., &Scharfenberg, G. **Online person authentication using dynamic signature on a novel tactile and pressure sensitive pad.** In 17th Telecommunication forum, TELFOR Belgrade, Serbia (2009).
7. Bashir, A., Wöbkenberg, P. H., Smith, J., Ball, J. M., Adamopoulos, G., Bradley, D. D., &Anthopoulos, T. D. **High-Performance Zinc Oxide Transistors and Circuits Fabricated by Spray Pyrolysis in Ambient Atmosphere.** Advanced Materials, 21(21) (2009), 2226-2231.
8. Adamopoulos, G., Bashir, A., Wöbkenberg, P. H., Bradley, D. D., & Anthopoulos, T. D. **Electronic properties of ZnO field-effect transistors fabricated by spray pyrolysis in ambient air.** Applied Physics Letters, 95(13) (2009), 133507.
9. Smith, J., Bashir, A., Adamopoulos, G., Bradley, D., &Anthopoulos, T. **High-Mobility Ambipolar Organic-Inorganic Hybrid Transistors.** In 2nd International Symposium on Flexible Organic Electronics (2009).
10. Bashir, A., Wöbkenberg, P., Smith, J., Adamopoulos, G., Bradley, D., &Anthopoulos, T. **Transparent metal oxide thin-film transistors prepared by spray pyrolysis.** In EMRS Spring Meeting 2009 (2009).
11. Javed, A., Morley, N. A., & Gibbs, M. R. J. **Structure, magnetic and magnetostrictive properties of as-deposited Fe–Ga thin films.** Journal of Magnetism and Magnetic Materials, 321(18) (2009), 2877-2882.
12. Morley, N. A., Javed, A., & Gibbs, M. R. J. **Effect of a forming field on the magnetic and structural properties of thin Fe–Ga films.** Journal of Applied Physics, 105(7) (2009), 07A912.
13. Shaikh, M. N., & Ali, R. **Coupled Alfven-spin waves in a composite magnetic-semiconducting medium.** Chinese Journal of Physics, 47(3) (2009), 336-343.
14. Shehzadi, R. **Heavy Quark Production at HERA as a Probe of Hard QCD.** arXiv preprint arXiv:0903.5470 (2009).
15. Khan, A. N., Khan, S. H., Ali, F., & Iqbal, M. A. **Evaluation of ZrO₂–24MgO ceramic coating by eddy current method.** Computational Materials Science, 44(3)(2009), 1007-1012.

Year: 2008

1. Siddiq, M., Saleem, U., & Hassan, M. **Darboux transformation and multi-soliton solutions of a noncommutative sine–gordon system.** Modern Physics Letters A, 23(02) (2008), 115-127.
2. Haider, B., & Hassan, M. **On algebraic structures in supersymmetric principal chiral model.** The European Physical Journal C, 53(4) (2008), 627-633.

3. Haider, B., & Hassan, M. **The U (N) chiral model and exact multi-solitons**. Journal of Physics A: Mathematical and Theoretical, 41(25) (2008), 255202.
4. Hassan, M. **Darboux transformation of the generalized coupled dispersionless integrable system**. Journal of Physics A: Mathematical and Theoretical, 42(6) (2008), 065203.
5. Bashir, M., & Kempf, J. **Reduced dynamic time warping for handwriting recognition based on multidimensional time series of a novel pen device**. International Journal of Intelligent Systems and Technologies, WASET, 3(4) (2008), 194.
6. Morley, N. A., Yeh, S. L., Rigby, S., Javed, A., & Gibbs, M. R. J. **Development of a cosputter-evaporation chamber for Fe–Ga films**. Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films, 26(4) (2008), 581-586.
7. Ali, M. Z., & Abdullah, T. **Properties of the angular gap in a one-dimensional photonic band gap structure containing single negative materials**. Physics Letters A, 372(10) (2008), 1695-1700.
8. Ali, M. Z., & Abdullah, T. **Nonlinear Localization due to a Double Negative Defect Layer in a One-Dimensional Photonic Crystal Containing Single Negative Material Layers**. Chinese Physics Letters, 25(1) (2008), 137.
9. Ali, M. Z., & Abdullah, T. **Optical bistability at angular incidence in a one-dimensional photonic crystal containing single negative materials**. Optics Communications, 281(11) (2008), 3177-3182.
10. Ali, S., & Sami, M. R. **Current status of proton-proton and proton antiproton elastic scattering at high energies**. Journal of Scientific Research (Lahore), 38(1)(2008), 1-12.
11. Khan, S. H., Ali, F., Khan, A. N., & Iqbal, M. A. **Pearlite determination in plain carbon steel by eddy current method**. Journal of Materials Processing Technology, 200(1-3)(2008), 316-318.
12. Khan, S. H., Ali, F., Khan, A. N., & Iqbal, M. A. **Eddy current detection of changes in stainless steel after cold reduction**. Computational Materials Science, 43(4)(2008), 623-628.

Year: 2007

1. Saleem, U., Hassan, M., & Siddiq, M. **Non-local continuity equations and binary Darboux transformation of noncommutative (anti) self-dual Yang–Mills equations**. Journal of Physics A: Mathematical and Theoretical, 40(19) (2007), 5205.
2. Ali, M. Z., & Abdullah, T. **Investigation of the linear and nonlinear properties of a Drude model photonic crystal**. Physica B: Condensed Matter, 390(1-2) (2007), 45-51.

Year: 2006

1. Saleem, U., & Hassan, M. **Superfield Lax formalism of supersymmetric sigma model on symmetric spaces.** The European Physical Journal C-Particles and Fields, 46(3) (2006), 797-805.
2. Siddiq, M., Hassan, M., & Saleem, U. **On Darboux transformation of the supersymmetric sine-Gordon equation.** Journal of Physics A: Mathematical and General, 39(23) (2006), 7313.
3. Saleem, U., & Hassan, M. **Lax pair and Darboux transformation of a noncommutative U (N) principal chiral model.** Journal of Physics A: Mathematical and General, 39(37) (2006), 11683.
4. Sohl, M. A., Mehmood, A., Saeed, U., & Rafique, H. M. **Temporal Mapping and Prediction of Coastal Biomass for KetiBunder.** Terra, 2 (2006), 5-192.
5. Ali, M. Z., & Abdullah, T. **Investigation of nonlinear wave propagation in multilayered structures containing left-handed layers—a delta-function approach.** Physics Letters A, 351(3) (2006), 184-191.

Year: 2005

1. Saleem, U., & Hassan, M. **Zero-curvature formalism of supersymmetric principal chiral model.** The European Physical Journal C-Particles and Fields, 38(4) (2005), 521-526.
2. Siddiq, M., & Hassan, M. **On the linearization of the super sine-Gordon equation.** EPL (Europhysics Letters), 70(2) (2005), 149.
3. Saleem, U., Hassan, M., & Siddiq, M. **Conserved quantities in the noncommutative principal chiral model with Wess-Zumino term.** Journal of Physics A: Mathematical and General, 38(42) (2005), 9241.
4. Saleem, U., Siddiq, M., & Hassan, M. **On Noncommutative Sinh-Gordon Equation.** Chinese Physics Letters, 22(5) (2005), 1076.
5. Siddiq, M., & Hassan, M. **From Bäcklund Transformation to a Linear System of Sine-Gordon Theory in Superspace.** Chinese Physics Letters, 22(7) (2005), 1567.