Resume of Dr. Bashir Ahmad

Personal Information

Name:	Bashir Ahamd Faqir Mohammed
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Address:	
	Department of Mathematics,
	Faculty of Science, King Abdulaziz University,
	P.O. Box 80203, Jeddah-21589, Saudi Arabia
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Educational Record

Ph.D. (1995) Quaid-i-Azam University, Islamabad, Pakistan M.Phil. (1990) Quaid-i-Azam University, Islamabad, Pakistan M.Sc. (1987) Quaid-i-Azam University, Islamabad, Pakistan B.Sc. (1985) Punjab University, Lahore, Pakistan

Other Courses

Postgraduate Computer Orientation Course (PGCOC), Computer Training Centre, Islamabad, Pakistan (29-5-2000-28-11-2000).

Distinctions

Hi-Ci Researcher, Thomson Reuters Best Researcher of King Abdulaziz University, Jeddah (2009) Ist position in Govt.College, Faisalabad (B.Sc.). Ist Position in Quaid-i-AzamUniversity, Islamabad (M.Sc.). 2nd position in Quaid-i-Azam University, Islamabad (M.Phil.). Selected for inclusion in the 2010 Edition of **Who'sWho in the World.**

Field of research

Differential equations and applications

Research Interest

- Nonlinear ordinary differential equations
- Integro-differential equations
- Functional differential equations
- Set-valued differential equations
- Fractional differential equations
- Nonlinear q and q_k difference equations
- Impulsive differential equations
- Stability analysis
- Boundary value problems
- Fluid Mechanics
- Wave motion (scattering of acoustic/elastic waves).

Researcher ID: B-1977-2012; *ORCID*: 0000-0001-5350-2977 http://www.researcherid.com/rid/B-1977-2012

Author h index: Scopus: 23 (Citations: 2200+)

Web of Science (ISI): h-index: 23(Citations: 1825+); *Dec 07, 2014.*

MathSciNet: Published papers have been cited 1340 times by 571 researchers in the world (Dec 07, 2014).

Teaching /Research Experience

- 1. Professor, Department of Mathematics, Faculty of Science, King Abdulaziz University, Jeddah, Kingdom of Saudi Arabia (17th August 2010-to date).
- Associate Professor, Department of Mathematics, Faculty of Science, King Abdulaziz University, Jeddah, Kingdom of Saudi Arabia (13th November 2006 -16th August 2010).

- Assistant Professor, Department of Mathematics, Faculty of Science, King Abdulaziz University, Jeddah, Kingdom of Saudi Arabia (25th January 2002 -12th November 2006).
- 4. Assistant Professor of Mathematics, Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan (29th May 1998 24th January 2002).
- 5. Lecturer in Mathematics, Govt.T.I.CollegeRabwah, Jhang (3rd March 1994 28th May, 1998).
- Research Officer, NSRDB Project (Govt. of Pakistan), Department of Mathematics, Quaid-i-AzamUniversity, Islamabad, Pakistan (3rd March 1992 -2nd March, 1994).
- 7. Lecturer in Mathematics, Govt.College, Jaranwala, Faisalabad (2nd March 1989 2nd March 1992).
- Visiting Faculty, Department of Basic Sciences & Humanities, College of E &ME, National University of Sciences & Technology (NUST), Rawalpindi (27th April 1998 - 20th March 1999).
- 9. Visiting Faculty, COMSATS, Islamabad(3rd October 2001-24th January 2002).

Professional Activities

- Assistant Managing Editor, Bulletin Mathematical Sciences, Springer.
- Associate Editor, Advances in Difference Equations, SpringerOpen Journal.
- Member of Editorial Board, JP Journal of Fixed Point Theory and Applications.
- Member of Editorial board, **International Journal of Differential Equations** (Hindawi).
- Member of Editorial board, Abstrcat and Applied Analysis(Hindawi).
- Member of Editorial board, JP Journal of Mathematical Sciences
- Member of Editorial board, **Communications in Fractional Calculus** (ISSN:2218-3892)
- Fractional Differential Calculus, Ele-Math(ISSN:1847-9677)
- Member of Editorial board, **Electronic Journal of Mathematical Analysis and Applications** (EJMAA),
- Lead Guest Editor, Special Issue onDifference Equations: New Trends and Applications in Biology, Medicine and Biotechnology(Advances in Difference Equations, SpringerOpen Journal).
- Guest Editor, Special Issue on Advanced Theoretical and Applied Studies of Fractional Differential Equations(Abstract and Applied Analysis, Hindawi).
- Lead Guest Editor, Special Issue on Recent Trends in Boundary Value Problems(Abstract and Applied Analysis, Hindawi).
- Member of Editorial board, Abstract and Applied Analysis, Hindawi
- Member of Editorial board, The Scientific World Journal, Hindawi

Reviewer: Mathematical Reviews, Zentralblatt Math

Referee:

- 1. Journal of Acoustical Society of America (JASA), AIP, USA.
- 2. Proceedings of Edinburgh Mathematical Society, Cambridge.
- 3. Journal of Mathematical Analysis and Applications (JMAA), Elsevier.
- 4. Applied Mathematics Letters, Elsevier.
- 5. Mathematical and Computer Modelling (MCM), Elsevier.
- 6. Computer and Mathematics with Applications (CAM), Elsevier.
- 7. Nonlinear Analysis, TMA, Elsevier.
- 8. Nonlinear Analysis: Hybrid Systems, Elsevier.
- 9. Applied Mathematics and Computation, Elsevier.
- 10. Computer Physics Communications, Elsevier.
- 11. Applied Mathematical Modelling, Elsevier.
- 12. Canadian Journal of Physics
- 13. MathematischeNachrichten (Wiley)
- 14. Journal of Computational Physics (Elsevier)
- 15. Electronic Journal of Differential Equations (EJDE).
- 16. Journal Nonlinear Studies.
- 17. JPJournal of Fixed Point Theory and Applications
- 18. Advances in Difference Equations (Hindawi)
- 19. Journal of Inequalities and Applications (Hindawi)
- 20. Mathematical Problems in Engineering(Hindawi)
- 21. Boundary Value Problems (Hindawi)
- 22. Abstract and Applied Analysis (Hindawi)
- 23. Journal of Applied Mathematics and Computing (Springer)
- 24. Sarajevo Journal of mathematics
- 25. Journal of Applied Analysis (Springer)
- 26. International Journal of Computer Mathematics (Taylor & Francis)
- 27. Arabian Journal for Science and Engineering(AJSE)
- 28. Discrete Dynamics in Nature and Society(Hindawi)
- 29. Electronic Journal of Qualitative Theory of Differential Equations (EJQTDE)
- 30. Journal of Egyptian Mathematical Society
- 31. Applied Mathematics-A Journal of Chinese Universities (Springer)
- 32. Bulletin of Mathematical Analysis and Applications
- 33. Fractional Differential Calculus, Ele-Math
- 34. IET Control Theory & Applications
- 35. Communications in Applied Analysis (CAA)- Dynamic Pub. USA.
- 36. Mathematical Methods in the Applied Sciences (John Wiley & Sons).
- 37. British Journal of Mathematics & Computer Science.
- 38. Mathematical Sciences, Springer.
- 39. ActaMathematicaeApplicataeSinica (English Series).
- 40. Journal of Fractional Calculus and Applications (JFCA).

- 41. Electronic Journal of Mathematical Analysis and Applications (EJMAA).
- 42. FILOMAT
- 43. Mathematical Modelling and Analysis(Taylor & Francis).
- 44. Central European Journal of Mathematics (Springer)
- 45. The Second Saudi Science Conference, KAAU, Jeddah, Saudi Arabia (15-17 March 2004).

Professional Activities (Cont.)

- Delivered several seminars in Seminar Series, Department of Mathematics, Quaid-i-AzamUniversity, Islamabad, Pakistan (1998-2001).
- Course coordinator, Department of Mathematics, KingAbdulazizUniversity, Jeddah, Saudi Arabia (2004-2005, 2006-).
- Member of the syllabi Committee, Department of Mathematics, KingAbdulazizUniversity, Jeddah, Saudi Arabia (2004-2005).
- Member of the Review Committee, Department of Mathematics, KingAbdulazizUniversity, Jeddah, Saudi Arabia (2004-2005).
- Head of the Research Group: Nonlinear Analysis and Applied Mathematics (NAAM) (2010-2012)

Conferences Attended

- The Second Saudi Science Conference, KAAU, Jeddah, Saudi Arabia, 15-17 March 2004 (contributed a paper).
- 7th European Nonlinear Dynamics Conference(ENOC 2011), July 24 29, 2011, Rome, Italy(contributed a paper).

Research Grants/Projects

- 1. Extended method of quasilinearization for impulsive three-point nonlinear boundary value problems: Project No.159/424, Scientific Research Council, KingAbdulazizUniversity, KSA (2003).
- 2. Instability of Nonautonomous Impulsive State Dependent Delay Differential Systems: Project No.160/426, Institute of Research& Consultation, KingAbdulazizUniversity, KSA (2005).
- 3. Diffraction of a spherical acoustic wave due to the coupling of pressure release and absorbing half planes in a moving fluid: Project No.162/426, Institute of Research & Consultation, King Abdulaziz University, KSA (2005).

- 4. Stability Analysis in Terms of Two Measures for Setvalued Hybrid Integro-Differential Equations: Project No.167/427, Institute of Research& Consultation, KingAbdulazizUniversity, KSA (2007).
- The Monotone Method and Positive Pseudo-Symmetric Solutions of a Three-Point Second Order p – Laplacian Integro-Differential Boundary Value Problem: Project No.176/427, Institute of Research & Consultation, King Abdulaziz University, KSA (2007).
- 6. ExistenceofSolutions for Nonlinear Impulsive Functional Integro-Differential Equations of Mixed Type with Anti-Periodic Boundary Conditions, Project No.428/156, Institute of Research& Consultation, KingAbdulazizUniversity, KSA (2008).
- 7. Approximation of Solutions of the Forced Duffing Type Integro-Differential Equations with Integral Boundary Conditions, Project No.428/155, Institute of Research & Consultation, King Abdulaziz University, KSA (2008).
- 8. Existence and approximation of solutions for second order singular nonlocal boundary value problems involving integro-differential equations, Scientific Research Council, King Abdulaziz University, KSA (2009).
- 9. A study of coupled systems of nonlinear fractional differential equations, Scientific Research Council, King Abdulaziz University, KSA (2009).

Projects in Research Group: Nonlinear Analysis and Applied Mathematics (NAAM)

- 1. Some Problems of Fractional Calculus and Real world Applications (07/31/Gr).
- 2. Fractional Differential Inclusions: Fixed Point Approaches (08/31/Gr).
- 3. Maximum Principle and Global Existence for Fractional Differential Equations and Systems (15/34-RG), DSR-KAU.
- 4. Gene-Regulatory Networks Responsible for Cellular Decision Making and **R**eprogramming (20/34-RG), DSR-KAU.
- 5. Nonlinear Third-Order Boundary Value Problems with Integral Boundary Conditions (9/34-RG), DSR-KAU.
- 6. Transient growth and pattern selection in biological and related modeling (21/34/RG), DSR-KAU.

HiCi Category Projects

- 1. Numerical Analysis of PDEs and Scientific Computing (38-3/1432/HiCi).
- 2. Efficient and robust iterative solution of linear and nonlinear equations with applications in multiphysics problems (35-3/1432/HiCi).
- 3. Performance modeling and analysis of peristaltic transport of fluids in the physiological and industrial systems(130-9-1433/HiCi).
- 4. Impact of Nanoparticles in Mixed Convection Flows (25/130/1433/HiCi).
- 5. (130-1-1433/HiCi)

KACST (NSTIP) Projects

- Non-similarity boundary layer flows of nano-fluids: 14-NAN336-03 (in progress)
- Study on multi-scale mechanism for scalar transport in porous media: Analytical solution, numerical simulation and experimental observation, 13-MAT1231-03 (in progress)

Research Supervision (M.Phil./M.S.)

- 1. **Rahmat Ali Khan**, Generalized Quasilinearization Method for Boundary value problems with Robin conditions (2000).
- 2. **Humda Huda**, Generalized Quasilinearization Method for a second order nonlinear differential equation with nonhomogeneous Dirichlet boundary conditions (2000).
- 3. ShaziaZaheer, Sound diffraction from an absorbing half plane (2000).
- 4. UzmaNaz, Higher order convergence of approximate solutions for Neumann boundary value problems (2002).
- 5. UzmaAtiq, Scattering of a spherical acoustic wave due to an unsteady periodic source near an absorbing half plane (2002).

- 6. **AmbreenAfsar Khan**, Effect of convection on wavelet estimation for a multidimensional acoustic or elastic earth (2002).
- 7. **ShaziaRana**, An improved generalized quasilinearization method for nonlinear Dirichlet problems (2002).
- 8. **Tagreed Ghazi Soqati**, Generalized quasilinearization method for second order three-point mixed boundary value problems (2005).
- 9. ManalFouad Salem Al-nahdi, Approximation of solution for integrodifferential equations (2005).
- 10. **Badra Salah Farah Alghamdi**, Extended method of quasilinearization for the forced Duffing equation (2006).
- 11. **Dua'a Abdul RaufTasanAlqaroot**, Monotone iterative scheme for second order three-point impulsive boundary value problems (2006).
- 12. **Huda Afandi,** Approximate Solutions of Nonlocal Boundary Value Problems (2007).
- 13. LaylaAlshriefAnalytic Solution of Wave Equation with Impedance Boundary Conditions (2008).
- 14. **Mohammed HasanAbdulrazaqAqlan**, Analytic approximation of solutions of forced Duffing equation with nonlinear nonlocal boundary conditions (2010).
- 15. Ahmed SaadAlzaidi, A study of Second order singular nonlocal boundary value problems (2011).
- 16. Safa'aAlsulami(2013).
- 17. Nadia Mohammed Farah(2013).
- 18. Hana Alhutami(2014).
- 19. AfrahAssolami(2014).
- 20. Nada Almalki (in progress)
- 21. Aala Al-shrief (in progress).

Research Supervision (PHD)

- Dua'a Abdul Rauf Tasan Alqaroot (in progress)
- Mohammed Hasan Abdulrazaq Aqlan(in progress)

Courses Taught at Various Levels

At Postgraduate Level

Ordinary Differential Equations Partial differential equations Mathematical techniques for boundary value problems. Nonlinear ordinary differential equations Mathematical Methods for Statistics Optimization Theory Advanced Calculus Complex Analysis Numerical Methods

At B.E. / B.Sc. Level

Calculus Linear Algebra & Differential Equations Complex & Fourier Analysis Fourier Analysis & Partial Differential Equations Advanced Engineering Mathematics Numerical analysis Discrete Mathematics

References

- 1. Professor SaleemAsghar, Mathematics Department, COMSATS, Islamabad Pakistan.
- 2. Professor AsgharQadir, Director, CAMP, NUST, Rawalpindi, Pakistan.
- 3. Dr. S. Sivasundaram, Embry-Riddle Aeronautical university, Daytona Beach, FL32114, USA.
- 4. ProfessorNaseerShahzad, Department of Mathematics, King Abdulaziz University, P.O. Box 80203, Jeddah-21589, Kingdom of Saudi Arabia.
- 5. Professor Ahmed Alsaedi, Department of Mathematics, King Abdulaziz University, P.O. Box 80257, Jeddah-21589, Kingdom of Saudi Arabia.

Refereed Research Publications of Dr. Bashir Ahmad

Published/Accepted/In press (274)

- 1. Fahad Munir Abbasi, Tasawar Hayat, Bashir Ahmad, Impact of magnetic field on mixed convective peristaltic flow of water based nanofluids with Joule heating, **ZeitschriftfürNaturforschung A**, accepted.
- 2. Ravi P. Agarwal, Ahmed Alsaedi Bashir Ahmad, and Hana Al-Hutami, Sequential fractional \$q\$-difference equations with nonlocal sub-strip boundary conditions, **Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis,** accepted.
- Owe Axelsson, Radim Blaheta, Petr Byczanski, János Karátson, Bashir Ahmad, Preconditioners for regularized saddle point problems with an application for heterogeneous Darcy flow problems, Journal of Computational and Applied Mathematics, In Press, Available online 3 December 2014.
- B. Ahmad, M.S. Alhothuali, H.H. Alsulami, M. Kirane, S. Timoshin, On a time fractional reaction diffusion equation, Applied Mathematics and Computation, (2014), http://dx.doi.org/10.1016/j.amc.2014.06.099
- Lihong Zhang, Bashir Ahmad, G. Wang, Successive iterations for positive extremal solutions of nonlinear fractional differential equations on a half line, Bulletin of the Australain Mathematical Society, doi:10.1017/S0004972714000550, available online.
- 6. M. Javidi, Bashir Ahmad, Numerical solution of fourth-order time-fractional partial differential equations with variable coefficients, Journal of Applied Analysis and Computation, accepted.

- 7. S.A. Shehzad, T. Hayat, A. Alsaedi and B. Ahmad, Effects of thermophoresis and thermal radiation in mixed convection three-dimensional flow of Jeffrey fluid, **Applied Mathematics and Mechanics**, accepted.
- Bashir Ahmad, Sotiris K. Ntouyas, A higher-order nonlocal three-point boundary value problem for sequential fractional differential equations, Miskolc Mathematical Notes, accepted(IF: 0.304).
- 9. Ahmed Alsaedi, Sotiris Ntouyas, Bashir Ahmad, An existence theorem for fractional \$q\$-difference inclusions with nonlocal sub-strip type boundary conditions, **The Scientific World Journal**, Article ID 424306, accepted.
- 10. Ahmed Alsaedi, Sotiris Ntouyas, Bashir Ahmad, New existence results for fractional integro-differential equations with nonlocal integral boundary conditions, **Abstract and Applied Analysis**, Article ID 205452, accepted.
- Bashir Ahmad, Juan J. Nieto, Donal O'Regan, and Agacik Zafer, Recent Trends in Boundary Value Problems 2014, Abstract and Applied Analysis, Article ID 261754, in press.
- 12. Bashir Ahmad, Juan J. Nieto, Ahmed Alsaedi, Hana Al-Hutami, Boundary value problems of nonlinear fractional \$q\$-difference (integral) equations with two fractional orders and four-point nonlocal integral boundary conditions, **FILOMAT**, accepted (IF: 0.714).
- 13. Bashir Ahmad, Sotiris K. Ntouyas, A new kind of nonlocal-integral fractional boundary value problems, **Bulletin of the Malaysian Mathematical Sciences Society**, accepted (IF: 0.798).
- 14. Bashir Ahmad, Sotiris K. Ntouyas, Hamed H. Alsulami, Existence of solutions for nonlinear \$n\$th-order differential equations and inclusions with nonlocal and integral boundary conditions via fixed point theory, **FILOMAT**, accepted (IF: 0.714).
- 15. Bashir Ahmad, Sotiris K. Ntouyas, On Hadamard fractional integro-differential boundary value problems, J. Appl. Math. Comput. DOI 10.1007/s12190-014-0765-6, in press.

- 16. Ahmed Alsaedi; Bashir Ahmad; MokhatarKirane; Imene-MeriemMostefaoui, Maximum principle for certain generalized time and space-fractional diffusion equations, **Quarterly of Applied Mathematics**, accepted (IF: 0.728).
- 17. Bashir Ahmad, Sotiris K Ntouyas, Ahmed Alsaedi, Existence of solutions for fractional *q*-integro-difference inclusions with fractional *q*-integral boundary conditions, Advances in Difference Equations 2014, 2014:257.
- Bashir Ahmad, Durga Prasad Challa, MokhtarKirane, MouradSini, The equivalent refraction index for the acoustic scattering by many small obstacles: With error estimates. *J. Math. Anal. Appl.* 424 (2015), no. 1, 563--583.
- F.M. Abbasi, T. Hayat, B. Ahmad, Peristaltic transport of copper-water nanofluidPeristaltic transport of copper-water nanofluid saturating porous medium, Physica E: Low-dimensional Systems and anostructures, 67 (2015), 47-53.
- 21. Bashir Ahmad, Ahmed Alsaedi, Sayyedeh Nazemi, Shahram Rezapour, Some existence theorems for fractional integro-differential equations and inclusions with initial and non-separated boundary conditions, **Boundary Value Problems** 2014, 2014:249.
- 22. Bashir Ahmad, Sotiris Ntouyas, Ahmed Alsaedi, Existence Results for a System of Coupled Hybrid Fractional Differential Equations, **The Scientific World Journal**, Volume 2014 (2014), Article ID 426438, 6 pages.
- 23. Meraj Mustafa, Ammar Mushtaq, Tasawar Hayat, Bashir Ahmad, Nonlinear radiation heat transfer effects in the natural convective boundary layer flow of nanofluid past a vertical plate: a numerical study, PLoS ONE 9(9): e103946. doi:10.1371/journal.pone.0103946
- 24. Bashir Ahmad, Juan J. Nieto, Ahmed Alsaedi, Hana Al-Hutami, On the q-fractional variant of nonlinear Langevin equation of different orders, Journal of Contemporary Mathematical Analysis-Armenian Academy of Sciences, 49 (2014), 251-260 (IF: 0.095).

- 25. F. M. Abbasi, Tasawar Hayat, Bashir Ahmad, and Guo-Qian Chen, Peristaltic Motion of a non-Newtonian Nanofluid in an Asymmetric Channel, Z. Naturforsch. 69a (2014), 451□-□461.
- 26. Hayat, S. Irfan Shah, B. Ahmad. M. Mustafa, Effect of slip on peristaltic flow of Powell-Eyring fluid in a symmetric channel, **Applied Bionics and Biomechanics**, 11 (2014), 69-79.
- Bashir Ahmad, Sotiris K. Ntouyas, Boundary value problems for \$q\$-difference equations and inclusions with nonlocal and integral boundary conditions, Math. Model. Anal., Math. Model. Anal. 19 (2014), 647-663.
- T. Hayat, F. M. Abbasi, B. Ahmad and A. Alsaedi, MHD mixed convection peristaltic flow with variable viscosity and thermal conductivity, in press (2014), Sains Malaysiana, 43(10)(2014): 1583–1590.
- 29. T. Hayat, F. M. Abbasi, B. Ahmad and A. Alsaedi, Slip effects on mixed convective peristaltic transport of copper-water nanofluid in an inclined channel, **PloSone**, 9(8) (2014): e105440. doi:10.1371/journal.pone.0105440
- Sotiris Ntouyas, Bashir Ahmad, Existence of solutions for fractional differential inclusions with nonlocal Riemann-Liouville integral boundary conditions, Mathematica Bohemica, 139 (2014), 451-465.
- M. Kirane, B. Ahmad, A. Alsaedi, M. Al-Yami, Non-existence of Global Solutions to a System of Fractional Diffusion Equations, *Acta Appl. Math.* 133 (2014), 235--248. (IF: 0.702).
- BashirAhmad, Juan J. Nieto, Sequential differential equations of fractional order with multi-point boundary conditions, Georgian Mathematical Journal, Georgian Math. J. 2014; 21 (3):243–248 (IF: 0.340).
- 33. Ahmed Alsaedi, M.S. Alhothualia, Bashir Ahmad, S.Kerbal, MokhtarKirane, Nonlinear fractional differential equations of Sobolev type, Mathematical Methods in the Applied Sciences, 37 (2014), Issue 13, 2009-2016 (IF 0.877)
- 34. Owe Axelsson, Maya Neytcheva, Bashir Ahmad, A comparison of iterative methods to solve complex valued linear algebraic systems, **Numerical Algorithms**, 66 (4) (2014), 811-841 (IF 1.005).

- 35. Bashir Ahmad, Sotiris K. Ntouyas, Fractional \$q\$-difference hybrid differential equations and inclusions with Dirichlet boundary conditions, Advances in Difference Equations(2014), 2014:199, 14 pages
- 36. Bashir Ahmad, Sotiris K. Ntouyas, On higher-order sequential fractional differential inclusions with nonlocal three-point boundary conditions, **Abstract and Applied Analysis**, 2014 (2014), Article ID 659405, 10 pages.
- Bashir Ahmad, Sotiris K. Ntouyas, Initial value problems for hybrid Hadamard fractional differential equations, Electronic Journal of Differential Equations, Vol. 2014 (2014), No. 161, pp. 1-8.
- 38. T. Hayat, F. M. Abbasi, M. S. Alhuthali, B. Ahmad and G. Q. Chen, Soret and Dufour effects on peristaltic transport of a third order fluid, **Heat transfer Research**, 45 (2014), 589-602.
- B. Ahmad, M. S. Alhothuali, H.H. Alsulami, M. Kirane, S. Timoshin, On nonlinear nonlocal systems of reaction-diffusion equations, 2014 (2014), Abstract and Applied Analysis, 2014 (2014), Article ID 804784, 6 pages.
- 40. Bashir Ahmad, Ravi P Agarwal, Some new versions of fractional boundary value problems with slit-strips conditions, **Boundary Value Problems**2014, **2014**:175.
- 41. Xiao-Jun Yang, Jordan Hristov, Hari M. Srivastava and Bashir Ahmad, Modelling fractal waves on shallow water surfaces via local fractional Korteweg-de Vries equation, **Abstract and Applied Analysis**, 2014 (2014), Article ID 278672, 10 pages.
- Bashir Ahmad and Sotiris K. Ntouyas, An existence theorem for fractional hybrid differential inclusions of Hadamard type with Dirichlet boundary Conditions, Abstract and Applied Analysis, Volume 2014 (2014), Article ID 705809, 7 pages.
- M.Imtiaz, T. Hayat, M. Hussain, S.A. Shehzad, G.Q. Chen and B. Ahmad, Mixed convection flow of nanofluid with Newtonian heating, The European Physical Journal Plus 129 (2014), Issue 5, Art. No. 97; DOI: 10.1140/epjp/i2014-14096-0.
- 44. Bashir Ahmad, Sotiris K. Ntouyas, Ahmed Alsaedi, Hana Al-Hutami, Nonlinear q-fractional differential equations with nonlocal and sub-strip type boundary

conditions, **Electronic Journal of Qualitative Theory of Differential Equations**, (2014), No. 26, 1-12 (IF: 0.74).

- 45. Guotao Wang, Bashir Ahmad and Lihong Zhang, On nonlocal integral boundary value problems for impulsive nonlinear differential equations of fractional order, **Fixed Point Theory**, 15 (2014), 265-284(**Impact Factor: 0.970**).
- 46. Ravi P. Agarwal, Bashir Ahmad, Ahmed Alsaedi and Hana Al-Hutami, Existencetheory for \$q\$-anti-periodic boundary value problems of sequential \$q\$-fractional integro-differential equations, **Abstract and Applied Analysis**, 2014 (**2014**), Article ID 207547, (IF: 1.102).
- 47. Tasawar Hayat, FahadMunirAbbasi, Bashir Ahmad, Ahmed Alsaedi, Peristaltic Transport of Carreau-Yasuda Fluid in a Curved Channel with Slip Effects, **PloSone** 9(4): e95070. doi:10.1371/journal.pone.0095070(IF: 3.730).
- 48. Ahmed Alsaedi, Bashir Ahmad, Nadia Mohamad, Sotiris K Ntouyas, Uniqueness results for fully anti-periodic fractional boundary value problems with nonlinearity depending on lower order derivatives, Advances in Difference Equations, 2014, 2014:136, 9 pages(IF: 0.760).
- 49. FahadMunirAbbasi, Tasawar Hayat, Bashir Ahmad, Peristaltic flow in an asymmetric channel with convective boundary conditions and Joule heating, J. Cent. South Univ. (2014) 21: 1411–1416(IF: 0.434).
- 50. Bashir Ahmad, Sotiris K. Ntouyas, Existence results for fractional differential inclusions of arbitrary order with multi-point multi-term fractional integral boundary conditions, **Communications in Applied Analysis**, 18 (2014), 1–18
- 51. Lihong Zhang, Bashir Ahmad and G. Wang, Impulsive anti-periodic boundary value problems for nonlinear \$q_k\$-difference equations, **Abstract and Applied Analysis**, 2014 (**2014**), Article ID 165129, 5 pages.
- 52. BashirAhmad, Juan J. Nieto, Ahmed Alsaedi, Hana Al-Hutami, Existence of solutions for nonlinear fractional q-difference integral equations with two fractional orders and nonlocal four-point boundary conditions, Journal of the Franklin Institute, 351 (2014) 2890–2909(IF: 2.418).
- 53. Bashir Ahmad, Sotiris K. Ntouyas, A fully Hadamard type integral boundary value problem of a coupled system of fractional differential equations, *Fract. Calc. Appl. Anal.*, 17 (2014), 348–360.

- 54. Ravi P. Agarwal, Bashir Ahmad, Ahmed Alsaedi and Hana Al-Hutami, On nonlinear fractional q-difference equations involving two fractional orders with three-point nonlocal boundary conditions, **Dynamics of Continuous, Discrete and Impulsive Systems Series A: Mathematical Analysis** 21 (2014) 135-151.
- 55. DumitruBaleanu,Bashir Ahmad,Juan J. Nieto, J. A. Tenreiro Machado, Advanced Topics in Dynamics of Complex Systems (editorial), Mathematical Problems in Engineering, 2014, Article ID 354712, 1 page
- 56. Mohammad Javidi, Bashir Ahmad, A study of a fractional-order cholera model, **Appl. Math. Inf. Sci.** 8, No. 5, 2195-2206 (2014).
- <u>M. Mustafa</u>, <u>S. Hina</u>, <u>T. Hayat</u>, <u>B. Ahmad</u>, Influence of induced magnetic field on the peristaltic flow of nanofluid, <u>Meccanica</u>, **49** (2014), no. 3, 521-534. (Impact Factor 2012: **1.747**)
- D. Baleanu, J.J.Trujillo, BashirAhmad, Advanced Theoretical and Applied Studies of Fractional Differential Equations 2013. *Abstr. Appl. Anal.* 2014, Art. ID 896105, 1 pp.
- T. Hayat, H. Yasmin, B. Ahmad, B. Chen, Simultaneous effects of convective conditions and nanoparticles on peristaltic motion, *Journal of Molecular Liquids*, 193 (2014) 74-82.
- 60. Guotao Wang, Bashir Ahmad and Lihong Zhang, Existence of extremal solution to a nonlinear system with the right-handed Riemann-Liouville fractional derivative, **Applied Mathematics Letters**, 31 (2014), 1-6
- 61. Yuji Liu and Bashir Ahmad, A Study of Impulsive Multitermfractional differential equations with Single and Multiple Base Points and applications, **The Scientific World Journal**, Volume 2014, Article ID 194346, 28 pages.
- 62. Guotao Wang, Bashir Ahmad, Lihong Zhang, Juan J Nieto, A note on the concept of existence of solution for impulsive fractional differential equations, **Commun. Nonlinear Sci.Numer.Simulat.**19 (2014) 401–403 (IF: 2.773).
- 63. F. M. Abbasi1, T. Hayat, A. Alsaediand B. Ahmed, Soret and Dufour Effects on Peristaltic Transport of MHD Fluid with Variable Viscosity, Appl. Math. Inf. Sci.8, No. 1, (2014) 211-219.
- 64. Bashir Ahmad, Ahmed Alsaedi, Afrah Assolami, Relationship between lower and higher order anti-periodic boundary value problems and existence results,

Journal of Computational Analysis and Applications, 16 (**2014**), No. 2, 210-219.

- 65. Bashir Ahmad, Ahmed Alsaedi, Hana Al-Hutami, Existence of solutions for sequential fractional differential equations with four-point nonlocal fractional integral boundary conditions, Central European Journal of Physics, 11 (2013), 1487-1493.
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