

Dr. MUHAMMAD JAMIL (CV)

OBJECTIVE

TO SERVE THE WORLD THROUGH KNOWLEDGE.

PERSONAL

Name.....Dr. Muhammad Jamil
Father Name.....Abdul Manan
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Degree/Certificate	Board/University	From Year	To Year	Obtained Marks	Total Marks	Percentage
Ph.D. (Applied Mathematics) (Fluid Mechanics) (with distinction)	Abdus Salam School of Mathematical Sciences, G. C. University, Lahore	2007	2011	1811	2200	(82.3%) First Class First
M.Phil (Engineering Mathematics) (with distinction)	University of Karachi	2002	2007	592	800	(74%) First Class First
M.Sc. (Applied Mathematics) (Gold Medalist)	University of Karachi	2000	2001	883	1000	88.30% (First Class First)
B.Sc.(H) (Maths, Physics, Statistics)	University of Karachi	1998	2000	2152	2600	82.76% (First Class First)
H.S.S.C. (Maths, Physics, Chemistry)	Inter Board Karachi	1995	1997	622	1100	56.54% (Second Class)
S.S.C. (Maths, Physics, Chemistry, Biology)	Matric Board Karachi	1993	1995	564	850	66.35% (First Class)

PhD DISTICTIONS

Thesis Title: Non-Newtonian fluids flows: Exact analytical solutions and numerical results;
Available at: <http://eprints.hec.gov.pk/7706/>.

Institute: Abdus Salam School of Mathematical Sciences (ASSMS), G. C. University, Lahore, Pakistan.

Supervisor: Prof. Dr. Constantin Fetecau from Romania (**HEC foreign faculty Professor**).

Field: Applied and computational Mathematics, Partial differential equations, Fluid Mechanics, Integral transforms, Mathematical modeling.

Awards: Received **five best performance awards** in different discipline form ASSMS.

Publications: More than **50 during Phd studies**.

Year: 2011.

Researchgate: https://www.researchgate.net/profile/Muhammad_Jamil21?ev=hdr_xprf

Google scholar: <http://scholar.google.com.pk/citations?user=aqS0bWQAAAAJ&hl=en>

ACADEMIC DISTICTIONS

1. Completed PhD form **Abdus Salam School of Mathematical Sciences (ASSMS), G. C. University, Lahore**, this school declared as a **Centre of excellence for 3rd world countries, where all faculty are foreign and top Mathematician from Germany, France, Romania, China, Russia etc. Many Professors visited ASSMS form USA, UK etc. and give lecture and seminar on different areas of Mathematical Sciences.**
2. Completed PhD under the **supervision of the Prof. Dr. Constantin Fetecau form Romania** under HEC foreign faculty program. Prof. Constantin Fetecau have **valuable contribution** over the past three decades in **Theoretical and Applied Fluid Mechanics** & known as a **great scientist and researcher in this field.**
3. Studied **25 courses** related to **Pure and Applied Mathematics** from **Top Mathematician of Europeans & developed countries** during the period of PhD with **82.3%** in ASSMS.
4. Wrote more than **50 papers** just within four years, which is **record in** Abdus Salam School of Mathematical Sciences (ASSMS), G. C. University, Lahore.
5. Wrote **4 papers** in **M.Phil**, which were published in national and internal journals.
6. Received **Best Student** award at ASSMS in 2010.
7. Received **Best Researcher** award at ASSMS in 2010.
8. Received **Best Researcher in Applied Mathematics** award at ASSMS in 2011.
9. Received **Best Presentation** award in 5th world conference at ASSMS in 2011.
10. Received **Best Researcher award in writing maximum number of publications in ASSMS in 2011.**
11. Passed **GRE international** in Mathematics with **72 percentile.**
12. Taught the subject of **Fluid Mechanics to PhD students** at ASSMS in the years 2010 & 2011 by the recommendation of my PhD supervisor Prof. Dr. Constantin Fetecau.
13. Obtained **Gold Medal** in M.Sc. due to the **First Class First** position in the Department Of Mathematics, University of Karachi and **Second Position in the entire faculty of science** as well.
14. Obtained **Merit certificate of First class First Position in M.Sc.** in the Department of Mathematics, University of Karachi.
15. Obtained **Merit certificate of First class First Position in B.Sc.(H)** in the Department of Mathematics, University of Karachi and **First class First Position in the entire faculty of science** as well.

RESEARCH DISTICTIONS

1. Wrote more than **50 research papers** during Phd studies.
2. Received **three best researchers out of five awards** at ASSMS during Phd studies.
3. At present total numbers papers are **65+**.

4. **Authors of the Most downloaded articles** of the institution (**i.e.NEDUET**) almost every week in Researchgate.
5. **Impact factor** is greater than **40**.
6. **Citation** greater than **550** via Google scholar, **450** via Scopus and **415** via Researchgate.
7. **HEC Best Young Researcher Award** for the year 2015 (**InshaAllah, applied**).

MERIT SCHOLARSHIPS

1. Merit scholarship of **HEC 5000 indigenous Phase-IV** program for PhD program.
2. Merit scholarship at Abdus Salam School of Mathematical Sciences, G. C. University, Lahore for PhD program from Punjab government.

TEACHING & RESEARCH EXPRIECE

1. Worked as **Assistant Professor** in Department of Mathematics at NED University of Engineering & Technology, Karachi form **2nd Dec 2011 to date**.
2. Working as **Part time teacher** in the evening class of **Master program in Applied Mathematics** in the Department of Mathematics at NED University of Engineering & Technology, Karachi form **Jan 2013 to date**.
3. **Teaching assistant** at Abdus Salam School of Mathematical Sciences, G. C. University, Lahore in the years 2010 and 2011.
4. **PhD Scholar** at Abdus Salam School of Mathematical Sciences, G. C. University, Lahore **from 12th Sep 2007 to 1st Dec 2011**.
5. Worked as **Assistant Professor** in Department of Mathematics at NED University of Engineering & Technology, Karachi form **1st Nov 2006 to 11th Sep 2007**.
6. Worked as **lecturer** in Department of Mathematics at NED University of Engineering & Technology, Karachi form **19th Oct 2004 to 31st Nov 2006**.
7. Worked as **full-time cooperative teacher (equivalent to lecturer)** in the Department of Mathematics at University of Karachi from **Jan 2002 to 18th Oct 2004**.

SUBJECTS TAUGHT

1. Fluid Mechanics(**PhD**)
2. Non-Newtonian Fluid Mechanics(**PhD**)
3. Advanced Non-Newtonian Fluid Mechanics(**PhD**)
4. Non-linear differential equations(**PhD**)
5. Transforms & their applications(**Master**)
6. Advanced Differential Equations(**Master**)
7. Classical Mechanics(**MSc**)
8. Engineering Mathematics & Mathematical Modeling
9. Advanced Calculus(Differential, Integral& Multivariable)
10. Applied Numerical Methods
11. Advanced Mathematical Techniques
12. Discrete Mathematics
13. Linear Algebra
14. Real Analysis
15. Complex Analysis

16. Ordinary differential equations
17. Partial differential equations
18. Basics of theory of fluids.

CONFERENCES/WORKSHOPS AND SCHOOLS

1. **Second International Conference on Mathematics and its Applications in Information Technology** LUMS, Lahore, Pakistan, **2008**.
2. **International Conference on Recent Developments in Fluid Mechanics**, COMSATS institute of Technology, Islamabad, Pakistan, **2008**.
3. **3rd International Conference on Recent Developments in Fluid Mechanics**, Quaid-i-Azam University, Islamabad, Pakistan, **2009**.
4. **4th International Conference on 21st Century Mathematics** Abdus Salam School of Mathematical Sciences, GCU, Lahore, Pakistan, **2009**.
5. **4th International Conference on Recent Developments in Fluid Mechanics**, Quaid-i-Azam University, Islamabad, Pakistan, **2010**.
6. **5th International Conference on 21st Century Mathematics** Abdus Salam School of Mathematical Sciences, GCU, Lahore, Pakistan, **2011**.
7. **Workshop on Number theory** at Abdus Salam School of Mathematical Sciences, GCU, Lahore, Pakistan, **2011**.
8. **Ist Conference on Energy and Sustainability**, Mechanical Engineering Department NED University of Engineering and Technology, April 27, **2013**.
9. **Ist National Conference on information Technology** at Usman Institute of Information Technology, Karachi, **May 2013**.
10. **HEC indigenous on campus training on presentation skills** being held at NED University from 1-5 September **2014**.
11. **The Individual or the Collective? Querying Assumptions About the Literacy Gap**, at Yohsin Center for Social Development at Habib University, Karachi, **18th September, 2014**.
12. **The education system** at NED University of Engineering & Technology, Karachi, **18th September, 2014**.
13. **"Sixth International Conference on Recent Developments in Fluid Mechanics"** at School of Natural Sciences (SNS), NUST, Islamabad, March 17-19, **2015**.
14. **5th International Mechanical Engineering Congress**, NED University of Engineering & Technology, Karachi, **9th and 10th May, 2015**.
15. **7th International Civil Engineering Congress**, NED University of Engineering & Technology, Karachi, **12th and 13th June, 2015**.
16. **Third National Conference on Space Science & Technology** at Institute of Space & Planetary Astrophysics (ISPA), University of Karachi, Karachi-75270 on October 5-6, **2015**.
17. **1st International Material Engineering Conference**, NED University of Engineering & Technology, Karachi, **14th and 15th December, 2015**.
18. **1st International Conference on Recent Advances in Pure and Applied Mathematics (RAPAM' 16)** at Quaid-e-Awam University of Engineering, Science and Technology, Nawabshah, Sindh, Pakistan on 21-23 **January 2016**.
19. **2nd NED International Textile Conference** at NED University of Engineering & Technology, Karachi, NED University Auditorium, **17th & 18th February 2016**.

PAPERS PRESENTED AS SPEAKER & INVITED/KEYNOTE SPEAKER

- 1. Starting solutions for the motion of a generalized Burgers' fluid between coaxial cylinders** at 4th International Conference on Recent Developments in Fluid Mechanics, Quaid-i-Azam University, **Islamabad, Pakistan, 2010.**
- 2. Research seminar in Fluid Mechanics** in ASSMS with collaboration to NCM **February 2010.**
- 3. Research seminar in Fluid Mechanics** in ASSMS with collaboration to NCM **September 2010.**
- 4. First problem of Stokes for generalized Burgers' fluids** at 5th International Conference on 21st Century Mathematics, Abdus Salam School of Mathematical Sciences, GCU, **Lahore, Pakistan, 2011.**
- 5. Unsteady helical flows of Maxwell fluid via prescribed shear stresses**, International conference on Applied Mathematics, (presented by coauthor D. Vierue), Universitatea Tehnic "Gheorghe Asachi" din Iasi, **Romania, 2011.**
- 6. Research seminar in Fluid Mechanics** in ASSMS with collaboration to NCM **February 2011.**
- 7. Research seminar in Fluid Mechanics** in ASSMS with collaboration to NCM **September 2011.**
- 8. Slip effects on oscillating fractionalized Maxwell fluid: Invited speaker** at; "Sixth International Conference on Recent Developments in Fluid Mechanics" at School of Natural Sciences (SNS), NUST, Islamabad, Pakistan, March 17-19, **2015.**
- 9. Oscillating flows of fractionalized second grade fluid with slip effects:** (presented by coauthor Sanaullah Dehraj); The 1st National Conference on Mathematics and Computer Science (NCMCS'15) on 21-23 January 2015 at Quaid-e-Awam University of Engineering, Science and Technology, Nawabshah, Sindh, Pakistan.
- 10. Unsteady motion of fractionalized second grade fluid with slip effects:** 5th international Mechanical Engineering Congress 9th and 10th May, 2015, NED University of Engineering & Technology, Karachi.
- 11. MHD viscous fluid flows when vorticity distribution perturbed by uniform and exponential streams: (Poster presentation);** 5th international Mechanical Engineering Congress 9th and 10th May, 2015, NED University of Engineering & Technology, Karachi.
- 12. MHD Maxwell fluid with non-linear velocity over the boundary:** 7th international Civil Engineering Congress 12th and 13th June, 2015, NED University of Engineering & Technology, Karachi.
- 13. Some exact solutions for rotating flows of a generalized Burgers' fluid in cylindrical domains:** Third National Conference on Space Science & Technology at Institute of Space & Planetary Astrophysics (ISPA), University of Karachi, Karachi-75270 on October 5-6, **2015.**
- 14. On exact solution of fractional MHD viscoelastic fluid:** International Material Engineering Conference, NED University of Engineering & Technology, Karachi, 14th and 15th December, **2015.**

15. Oscillations of fractionalized Maxwell fluid: Keynote speaker at 1st International Conference on Recent Advances in Pure and Applied Mathematics (RAPAM' 16) at Quaid-e-Awam University of Engineering, Science and Technology, Nawabshah, Sindh, Pakistan on 21-23 January 2016.

16. Starting solutions for the motion of second grade fluids due to oscillating shear stresses at 2nd NED International Textile Conference, NED University Auditorium, 17th & 18th February 2016.

PUBLICATIONS TYPE

Total 58= 30 ISI + 22 International + 6 National

ISI PUBLICATIONS 30

Two in International Journal of Nonlinear Science and Numerical Simulation (**ISI; 3.1**)

Four in Communications in Nonlinear Science and Numerical Simulation (**ISI; 2.697**)

Five in International Journal of Chemical Reactor Engineering (**ISI; 0.68**)

One in Mathematical and Computational Applications (**ISI**)

Two in Journal of King-Saud University-Science (**ISI**)

Two in Acta Mechanica Sinica(**ISI; 0.749**)

Four in Computers and Mathematics with Applications (**ISI; 1.449**)

One in Chemical Engineering Communications (**ISI; 0.913**)

One in Non-Linear Analysis: Real World Applications(**ISI; 2.30**)

One in Advances in Difference Equations (**ISI; 0.891**)

One in Theoretical and Applied Mechanics (**ISI; 0.2**)

One in Boundary Value Problems (**ISI; 1.05**)

One in Heat Transfer Research(**ISI; 1.05**)

One in AIP Advances (**ISI; 0.00**)

One in Mathematical Methods in the Applied Sciences (**ISI; 0.84**)

One in International Journal of the Physical Sciences (**ISI; 0.554**)

One in Thermal Sciences (**ISI; 0.706**)

INTERNATIONAL 16

Three in Theoretical and Applied Mechanics Letters (AIP)

Three in International Journal of the Differential Equations

One in Nonlinear Science Letters A: Mathematics, Mechanics and Physics

Three in International Journal of Applied Mathematics and Mechanics

One in ARPN Journal of Engineering and Applied Sciences

Two in ISRN Journal of Mathematical Physics

One in ISRN Journal of Computational Mathematics

NATIONAL 03

Two in Journal of Prime Research in Mathematics (HEC X-Category)

One Quaid-e-Awam University Research Journal of Engineering, Science and Technology

IMPACT FACTOR > 40.00

CITATIONS > 450 (via Scopus) and > 550 (via Google Scholar)

INTERNATIONAL ASSIGNMENTS REFREE of 15 INTERNATIONAL JOURNALS

1. Computers and Mathematics with Applications (ISI) USA
2. International Journal of Chemical Reactor Engineering (ISI) Canada
3. Applied Mathematics Letters (ISI) USA
4. Advances in Difference Equations (ISI) USA
5. Applied Mathematical Modeling (ISI) USA
6. Chemical Engineering Communications (ISI) UK
7. Zeitschrift für Naturforschung A - A Journal of Physical Sciences (ISI) Germany
8. World Applied Sciences Journal (ISI)
9. International Journal of the Physical Sciences (ISI)
10. Applied Mathematics and Information Science (ISI)
11. World Journal of Modeling and Simulation UK
12. Journal of Advance Research in Differential Equations UK
13. Non-Linear Analysis: Real World Applications (ISI) The Netherland
14. Zeitschrift für Naturforschung A - A Journal of Physical Sciences (ISI) Germany
15. International Journal of Heat and Mass Transfer

MEMBERSHIPS

1. Member of **All Pakistan Mathematical Association (APMS)**
2. Member of **National Mathematics Society of Pakistan (NMSP)**
3. Member of **National Academy of Young Scientist (NAYS)**

NATIONAL AND INTERNATIONAL COLLABORATION

Joint research collaboration has been established with leading Foreign/national Universities.

1. Dr. Rana Khalid Naeem (Pakistan) (**M.Phil Supervisor**)
2. Dr. Constian Fetecaue (Romania) (**PhD Supervisor**)
3. Dr. Muhammad Jawed Iqbal (Pakistan) (**Director ISPA, University of Karachi**)
4. Dr. Najeeb Alam Khan (Pakistan)
5. Dr. Corina Fetecaue (Romania)
6. Dr. Dumitru Vierue (Romania)
7. Dr. Ahmet Yildirim (Turkey)
8. Dr. Amir Mahmood (Pakistan)
9. Dr. Syed Anwer Ali (Pakistan)
10. Dr. Nasir-Uddin Khan (Pakistan)
11. Dr. Mudassar Nazar (Pakistan)
12. Dr. Imran Siddique (Saudi Arabia)
13. Dr. Subir Das (India)

FIELDS OF INTEREST

1. Newtonian and non-Newtonian Fluid Mechanics
2. Nonlinear Mechanics
3. Mathematical Modeling
4. Mathematical Physics
5. Boundary value problems
6. Nonlinear Partial differential equations
7. Fractional differential equations
8. Numerical solutions of nonlinear systems
9. Transforms & their applications
10. Numerical simulation
11. Heat transfer
12. Relativity

PhD/ M.PHIL/MASTER SUPERVISION AND EXAMINER

PhD STUDENTS

1. Honour to completed some **parts of PhD thesis** of Mr. Muhammad Imran, Mr. Azhar Ali Zafar, Mr. Muhammad Imran Asjad, Mr. Abdul Rauf and Ms. Nazish Shahid: at Abdus Salam School of Mathematical Sciences, G.C. University, Lahore, by the recommendation of my PhD supervisor due to my performance from **2009-2012**.
2. **Kashif Ali Abro** (Batch: 2014-2015): PhD thesis at NEDUET, to be completed in **2018**.
3. **Sanaullah Dehraj** (Batch: 2014-2015): PhD thesis at NEDUET, to be completed in **2018**.

M.PHIL/MASTER STUDENTS

4. **Muhammad Idress Afridi** (Batch: 2011-2012): **Unsteady flows of second grade fluid over an accelerating plane**, Master ISP/thesis at NEDUET, completed in December **2013**.
5. **Salman Safdar** (Batch: 2011-2012): **Some exact solutions for second grade fluid over the moving plane**, Master ISP/thesis at NEDUET, completed in December **2013**.
6. **Kashif Ali Abro** (Batch: 2012-2013): **Some exact solutions for accelerated flows of MHD Maxwell fluid**, MasterISP/thesis at NEDUET, completed in December **2014**.
7. **Sanaullah Dehraj** (Batch: 2012-2013): **Slip effects on fractionalized second grade fluid, flows**, Master ISP/thesis at NEDUET, completed in December **2014**.
8. **Afaqu Ahmed**(Batch: 2012-2013): **Some exact solutions for MHD viscous fluid flows**, Master ISP/thesis at NEDUET, completed in December **2014**.
9. **Hassam Khan**(Batch: 2011): **Exact solutions for unsteady flow of couple stress fluid**, M.Phil thesis at Department of Mathematics, University of Karachi, examined in December **2014**.

10. **Muhammad Zafarullah** (Batch: 2013-2014): **MHD flows of second grade fluid through the moving porous cylindrical domain**, Master ISP/thesis at NEDUET, completed in December **2015**.
11. **Vijay Kumar** (Batch: 2013-2014): **Effect of MHD on fractionalized Maxwell fluids between porous pipes**, Master ISP/thesis at NEDUET, completed in December **2015**.
12. **Iftikhar Ahmed** (Batch: 2013-2014): **Helical flows of some fractionalized viscoelastic fluids**, Master ISP/thesis at NEDUET, completed in December **2015**.
13. **Muhammad Nasir Ansari** (Batch: 2012): **Exact analytical solutions and numerical results for fractionalized MHD viscoelastic fluids applied to geophysical phenomena's**, M.Phil thesis at Institute of Space & Planetary Astrophysics(**ISPA**), University of Karachi, completed in December **2015**.

BOOKS/MONOGRAPHS

1. Non-Newtonian fluids flows: Exact analytical solutions and numerical results;
By **Muhammad Jamil** (**Lambert Academic Press, Germany**).
2. Nonlinear Fractional Order Differential Equations Analytic Solutions and Numerical Results;
By Najeeb Alam Khan and **Muhammad Jamil** (**Lambert Academic Press, Germany**).

PUBLICATIONS

- [1]: R. K. Naeem, **M. Jamil**: A class of exact solutions to flow equations of an incompressible fluid of variable viscosity, Quaid-e-Awam University Research Journal of Engineering, Science and Technology, 6 (**2005**) 11-18 (**Pakistan**, non-ISI).
- [2]: R. K. Naeem, **M. Jamil**: On plane steady flows of an incompressible fluid with variable viscosity, International Journal of Applied Mathematics and Mechanics, 2 (**2006**) 1-19 (**India**, non-ISI).
- [3]: **M. Jamil**, N. A. Khan: Some exact solutions of equations of motion of a finitely conducting incompressible fluid of variable viscosity in the presence of transverse magnetic field by transformation method, ARPN J of Engg& App Math, 1 (**2006**) 5-25 (**Pakistan**, HEC approved)
- [4]: W. Akhtar, **M. Jamil**: On the axial Couette flow of a Maxwell fluid due to longitudinal time dependent shear stress, Bull. Math.Soc. Sci. Roumanie Tome, 51 (**2008**) 93-101 (**Romainia**, non-ISI).
- [5]: N. A. Khan, A. Ara, **M. Jamil**: Traveling waves solution of a micropolar fluid, Int J Nonlinear Sc&Num Simulation, 10 (**2009**) 1121-1125 (**USA**, ISI-quoted, Impact Factor=**8.40**).
- [6]: A. Mahmood, N. A. Khan, C. Fetecau, **M. Jamil**, Q. Rubbab: Exact analytic solutions for the flow of second grade fluid between two longitudinally oscillating cylinder, J Prime Research in Math, 5 (**2009**) 192-204 (**Pakistan**, HEC approved).
- [7]: N. A. Khan, **M. Jamil**: Analytic solution for creeping flow of an unsteadymicropolar fluid, Int J of Appl Math & Mech., 5(1) (**2009**) 39-47 (**India**, non-ISI).

- [8]: N. A. Khan, **M. Jamil**, R. K. Naeem, A. Ara: Martin's method applied to plane flow of a micropolar fluid, *Int J of Appl Math & Mech.*, 5 (2009) 88-99 (**India**, non-ISI).
- [9]: Corina Fetecau, **M. Jamil**, C. Fetecau, I. Siddique: A note on the second problem of Stokes for Maxwell fluids, *International Journal of non-Linear Mechanics*, 44 (2009) 1085 – 1090 (**UK**, ISI-quoted, Impact Factor=1.2).
- [10]: Corina Fetecau, **M. Jamil**, C. Fetecau, D. Vieru: The Rayleigh-Stokes problem for an edge in a generalized Oldroyd-B fluid, *Zeitschrift für angewandte Mathematik und Physik (ZAMP)*, 60 (2009) 921 – 933 (**Germany**, ISI-quoted, Impact Factor=1.1).
- [11]: Corina Fetecau, D. Vieru, **M. Jamil**: Unsteady flow of a generalized Oldroyd-B fluid in a duct of rectangular cross-section (II), *Buletinul Institutului Politehnic Din Iasi*, 165 (2010) 1700-1712 (**Romania**, non-ISI).
- [12]: **M. Jamil**, C. Fetecau: Some exact solutions for rotating flows of a generalized Burgers' fluid in cylindrical domains, *Journal of Non-Newtonian Fluid Mechanics*, 165 (2010) 1700-1712 (**The Netherlands**, ISI-quoted, Impact Factor=2.0).
- [13]: C. Fetecau, A. Mahmood, **M. Jamil**: Exact solutions for the flow of a viscoelastic fluid induced by a circular cylinder subject to a time dependent shear stress, *Comm in Nonlinear Sc and Num Simul*, 15 (2010) 3931-3938 (**The Netherlands**, ISI-quoted, Impact Factor=2.4).
- [14]: N. A. Khan, A. Mahmood, **M. Jamil**, N-U Khan: Traveling wave solutions for MHD aligned flow of a second grade fluid, *Int J Chm React Engg*, 8 (2010) A163 (**USA**, ISI-quoted, Impact Factor=0.7).
- [15]: A. Mahmood, C. Fetecau, N. A. Khan, **M. Jamil**: Some exact solutions of the oscillatory motion of a generalized second grade fluid in an annular region of two cylinders, *Acta Mechanica Sinica*, 26 (2010) 541-550 (**China**, ISI-quoted, Impact Factor=0.86).
- [16]: **M. Jamil**: A class of exact solutions to Navier-Stokes Equations for the given vorticity, *International Journal of non-Linear sciences*, 7 (2010) 12–20 (**UK**, non-ISI).
- [17]: **M. Jamil**, N. A. Khan, G. Murtaza, Q. Din: Some exact solutions for the flow of a Newtonian fluid with heat transfer via prescribed vorticity, *J Prime Research in Math*, 6 (2010) 38-55 (**Pakistan**, HEC approved).
- [18]: N. A. Khan, **M. Jamil**, S. Ali, Nadeem. A. Khan: Solutions of the Force-Free Duffing-van der Pol Oscillator Equation, *Int J of Differential Equations*, (2011) Article ID 852919 (**USA**, non-ISI).
- [19]: N. A. Khan, **M. Jamil**, A. Ara: Multiple-parameter Hamiltonian approach for higher accurate approximations of a nonlinear oscillator with discontinuity, *Int J of Differential Equations*, (2011) Article ID 649748 (**USA**, non-ISI).
- [20]: N. A. Khan, N-U. Khan, **M. Jamil**, J. A. Siddiqui: Approximate analytical solutions for the Swift-Hohenberg equation with Cauchy Dirichlet condition, *Nonlin. Sc. Lett. A*, 2(2), (2011), 85-92 (**China**, non-ISI).
- [21]: N. A. Khan, **M. Jamil**, A. Ara, S. Das: Explicit solution of time-fractional batch reactor system, *Int J Chm React Engg*, 9 (2011) A91 (**USA**, ISI-quoted, Impact Factor=0.7).

- [22]: N. A. Khan, A. Ara, **M. Jamil**: Approximations of the nonlinear Volterra's population model by an efficient numerical method, *Mathematical Methods in the Applied Sciences*, 34 (2011) 1733-1738 (USA, ISI-quoted, Impact Factor=0.5).
- [23]: N. A. Khan, A. Ara, **M. Jamil**: An efficient approach for solving the Riccati equation with fractional orders, *Comp Math with Appl.*, 61 (2011) 2683-2689 (USA, ISI-quoted, Impact Factor=1.1).
- [24]: N. A. Khan, A. Ara, **M. Jamil**, A. Yildirim: Traveling wave solutions for MHD Aligned flow of a second grade fluid: A symmetry independent approach, *J King Saud Uni Sc.*, 24 (2011) 63-67 (Saudi Arabia, ISI-quoted, Impact Factor=0.758).
- [25]: N. A. Khan, A. Ara, S. A. Ali, **M. Jamil**: Orthogonal flow impinging on a wall with suction and blowing. *Int J Chm React Engg*, 9 (2011) Art. A47 (USA, ISI-quoted, Impact Factor=0.7).
- [26]: N. A. Khan, **M. Jamil**, A. Ara, N-U Khan: On efficient method for system of fractional differential equations, *Advances in Difference Equations*, (2011) Article ADE/303472 (USA, ISI-quoted, Impact Factor=1.05).
- [27]: **M. Jamil**, N. A. Khan: Slip effects on fractional viscoelastic fluids, *Int J of Differential Equations*, (2011) Art 193813(USA, non-ISI).
- [28]: **M. Jamil**, C. Fetecau: Helical flows of Maxwell fluid between coaxial cylinders with given shear stresses on the boundary, *Non-Linear Analysis: Real World Applications*, 11 (2011) 4302-4311 (The Netherlands, ISI-quoted, Impact Factor=2.3).
- [29]: **M. Jamil**, C. Fetecau, M. Imran: Unsteady helical flows of Oldroyd-B fluids, *Comm in Nonlinear Sc and NumSimul*, 16 (2011) 1378-1386 (The Netherlands, ISI-quoted, Impact Factor=2.4).
- [30]: **M. Jamil**, A. U. Awan, D. Vieru: Unsteady helical flows of Maxwell fluids via prescribed shear stresses, *Bul. Inst. Polit. Iasi, t. LVII (LXI)* (2011) 137-148 (Romania, non-ISI).
- [31]: **M. Jamil**, N. A. Khan, M. I. Asjad: Unsteady rotating flows of Oldroyd-B fluids with fractional derivatives, *Int J Chm React Engg*, 9 (2011), Article A115 (USA, ISI-quoted, Impact Factor=0.7).
- [32]: **M. Jamil**, A. A. Zafar N. A. Khan: Translational flows of an Oldroyd-B fluid with fractional derivatives, *Comp. and Math with Appl.*, 62 (2011) 1540-1553 (USA, ISI-quoted, Impact Factor=1.1).
- [33]: **M. Jamil**, A. Rauf, A. A. Zafar, N. A. Khan: New exact analytical solutions for first Stoke's problem of Maxwell fluid with fractional derivative approach. *Comp. and Math with Appl.*, 62 (2011) 1013-1023(USA, ISI-quoted, Impact Factor=1.1).
- [34]: **M. Jamil**, C. Fetecau, N. A. Khan, A. Mahmood: Some Exact solutions for helical flows of Maxwell fluid in an annular pipe due to accelerated shear stresses, *Int J Chm React Engg*, 9 (2011) Article A20 (USA, ISI-quoted, Impact Factor=0.7).
- [35]: **M. Jamil**, A. Rauf, C. Fetecau, N. A. Khan: Helical flows of second grade fluid due to constantly accelerated shear stresses. *Comm in Nonlinear Sc and NumSimul*, 16(2011) 1959-1969 (The Netherlands, ISI-quoted, Impact Factor=2.4).

- [36]: N. A. Khan, **M. Jamil**, A. Mahmood, A. Ara: Approximate solution for the electrohydrodynamic flow in a circular cylindrical conduit, ISRN Computational Mathematics, (2012) Article ID 341069 (USA, non-ISI).
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