

CURRICULUM VITAE

PERSONAL DATA

Name: GANESH PRASAD POKHARIYAL

Home address Laxmi Narayan Road, Pauri Garhwal, Uttrakhand, INDIA

Current address 69 Palm City, Patheri Bag, Dehradun, Uttrakhand, INDIA

Email: <gppokhariyal@gmail.com>

Overseas Contact University of Nairobi, P.O.Box 30197, 00100,Nairobi
KENYA. (Still supervising Ph.D. Students, on-line).
Mobile: 254-733-881935 (WhatsApp)
E-mail: < pokhariyal@uonbi.ac.ke>

Marital status: Married (to Mohini Pokhariyal)

Children: Two – Shuvranshu. B.Sc.(E&EE), M.S.(E & C)
Devesh. B.Sc. & M.S.(Aerospace E), MBA.

ACADEMIC QUALIFICATION

M.Sc. Mathematics 1stClass, 1966, Allahabad University.

M.Sc. Physics, 2nd Class, 1968, Allahabad University.

Ph.D. Mathematics, 1971, Banaras Hindu University.

D.Sc. Mathematics 1988, Banaras Hindu University

SPECIALIZATION

M.Sc.(Mathematics) - Mathematical Statistics I and II , Relativity and Quantum Mechanics .

M.Sc (Physics) - Spectroscopy

Ph.D.(Mathematics) - General Theory of Relativity

Title of Ph.D. thesis:"Some Problems in General Relativity".

D.Sc. (Mathematics) - General Relativity and Differential Geometry. Title of D.Sc.

Thesis:"A contribution to the Theory of General Relativity and Differentiable Structures.”

RESEARCH INTEREST

General Theory of Relativity, Differential Geometry and Mathematical Modeling for Biological Sciences and Social Science

POSTGRADUATE TRAINING

Teaching: Taught many postgraduate students in Applied Mathematics, Pure Mathematics, Information Systems, Physics, Engineering and Social Sciences.

Ph.D. Supervision: (Completed)

- 1) Richard Onyino Simwa (1998): Mathematical and Statistical Analysis of HIV/AIDS in Kenya and Uganda (Submitted at Makerere University)
- 2) Otieno Ouma Mourice (2002): On Quasifinity, Equivalence and Intersection of some classes of operators in Hilbert Space
- 3) Stephen Kibet Moindi (2007): Studies on Sasakian, Lorentzian Para (LP) – Sarakian Manifold and Other Related Manifold
- 4) Robert Kagiri Mwhia (2008): Knowledge Management Strategy, Organizational Competence and Competitiveness in Kenya's Commercial Book Publishing Industry
- 5) Bernard Mutuku Nzimbi (2009): Direct Sum Decomposition and Canonical Factorization of Operators in Hilbert Space.
- 6) Paul yatic Kandie (2009): The influence of Organizational Strategy and Institutional Factors on Performance of Small and Medium Enterprises in Kenya.
- 7) Hazel Wanjiku Gachunga (2010): The Effect of Performance Management Systems on Perceptions of Organizational Justice in State Corporations in Kenya.
- 8) Daisy Salifu (2010): Modelling the HIV and AIDS Epidemic with Application to Malawi.
- 9) James Kiwanuka Katende (2011): Curvature Tensors in Sarakeen P-Sasakien, LP-Sasakian and n-Einstein Sasakian Manifolds.
- 10) Machuki, Vincent Nyasaka (2011) : Environment – Strategy Co-Alignment and Performance of Publicly Quoted Companies in Kenya
- 11) Sifunjo E. Kisaka (2011): Chaos and Non-linear Dynamical Approaches to Predicting Exchange Rates in Kenya
- 12) Muchara Maina (2012): Total Quality Operational Effectiveness and Competitive Advantage of Firms in Kenya's Horticultural Industry
- 13) Ms. Purity Kithuru Gitonga (2012): Emotional Intelligence and Leader Effectiveness: An Analysis of the Banking Sector in Kenya
- 14) Julius Monzi Muia (2012) : The Nature and Determinants of the Wealth Portfolios of Salaried Middle and Upper Income Employees in Kenya
- 15) Arthur Wanyonyi Wafula (2013) : Commutants and Spectral Properties of operators in Hilbert Spaces
- 16) Barnabas Nyasetia Otachi (2013): The Success Factors of matatu Entrepreneurs in the Informed Transport Business in Nairobi, Kenya
- 17) Danson Musyoki (2013): Real Exchange Rate Volatility and Misalignment: An Assessment of their Impact on Economic Growth in Kenya (Gulu University).
- 18) Kennedy Munyua Waweru (2013): The Impact of Cross-listing on Dividend Policy for East African Firms (Gulu University).
- 19) Mutie Kavila (2013): Commutants and Spectral Properties of operators in Hilbert Spaces
- 20) Ndiritu M. John (2013): Mathematical and Statistical Population Models: Elephants Population Modeling.
- 21) George Kimathi Eliphaz (2013): Mutual Inhibition, Competition and Periodicity in a Two Species Chemostat- like System.
- 22) Mkalama Rose Ndanu(2014): Top Management Demographics, Strategic Decision Making, Macro- environment and Performance of Kenyan State Corporations.
- 23) Ongeti Walter (2014): Organizational Resources, Corporate Governance Structures and Performance of Kenyan State Corporations
- 24) Murgor Paul Kimutai(2014): External Environment, Firm Capabilities, Strategic Responses and performance of Large –Scale Manufacturing Companies in Kenya.

- 25) Orucho Michael Ngala (2014): Higher Education-Economic Sector Linkage Strategies, Competitive Forces and Performance of the Public and Private Universities incorporated in Kenya.
- 26) Mbithi Adelaide Mbaika (2014): Transformational Leadership, Organizational Characteristics, Employee Outcomes, Leader-Member Relations & Performance of Universities in Kenya.
- 27) Anthony Nyutu Karanjah(2014): The Variance Function of the difference and the difference of the Variance Function between two estimated Responses for Rotatable Designs.
- 28) Kivuti Lucy Wanjiku (2014): Dynamic Simulation Model for Socio-economic Impact of e-Health Tools in Cervical Cancer Management in Kenya.
- 29) Imagiri Kathurima Stanley(2014):Inequalities and Spectral properties of some classes of operators in Hilbert Space
- 30) Jared Ongaro (2015): Plane Hurwitz Numbers.
- 31) Wasike Shadrack Mayende (2015): Top Management Team Characteristics, Strategy Implementation, Competitive Environment and performance of Tea Factories in Kenya.
- 32) Coxton Munyoki (2015): Competitive Strategies, Organizational Autonomy Positioning and performance Of Kenyan State Corporations.
- 33) Bruce J. Ogaga (2015): The Influence of Organizational Structure and Industry Competition on the relationship between Corporate Strategy and Performance of companies listed on Nairobi Securities Exchange
- 34) Fredric M. Kasomi (2015): Diversity in Top Management Strategy, Manager's Compensation and Performance of Kenyan State Corporations.
- 35) Ondari N. Emily (2015): The Effect of Top Management Team diversity and Competitive Environment on the relationship between Diversification Strategy and performance of Companies listed at Nairobi Securities Exchange.
- 36) Joseph K. Njoroge (2015): Strategy Implementation, Performance Contacts, External Environment and Performance of Kenyan State Corporations.
- 37) Mohamed Shano (2015): Performance of Equity and Blended Mutual Funds in Kenya (M.K.U.)
- 38) Alfred Nzomo N. Kithusi (2015): Firm Resources, External Environment, Entrepreneurial Strategy and Performance of Micro, Small and medium Furniture Sector Enterprises in Nairobi City County, Kenya.
- 39) Ndubai E. Richard (2016): Performance Contracting, Measurement and Public Service Delivery in Kenya.
- 40) Moses Wamalwa Wakoli (2016): Hazard Functions of Exponential Mixtures and their link with Mixed Poisson Distributions.
- 41) Gacuuru Wa Kareng'e (2016): Public policy Marketing Practices and Performance of Poverty Reduction Projects In the Agricultural Sector in Central Kenya.
- 42) Kyongo Joanes Kaleli(2016): Management Competence, Firm level Institutions Human Resource Management Bundles and Performance of Companies Listed on the Nairobi Securities Exchange.
- 43) Mahasi John (2016): The Joint Influence of Organisational Resources, External Stakeholders and Expansion Strategies on the Performance of Commercial Banks in Kenya.
- 44) Oluoch Kelley Jack (2016): Strategy Content, Quality Management Practices, Organizational Factors and Performance of ISO 9000 Certified middle level colleges in Kenya.
- 45) Rugiri Peter Githara(2017): On Some Aspects of Spectral Theory of Operators in Hilbert Spaces.
- 46) Ndungu Reuben Muiruri (2017): Mathematical Modeling of The Effects of Periodic Environmental Factors on Endemic Malaria.
- 47) Mburunga Solomon Muriungi (2017): Influence of Capital Structure on Sustainability of Community Water Projects in Kieni Constituency , Nyeri County, Kenya.
- 48) Peter Oyoo Maina (2017): On Weyl Spectrum and Quasi-Similarity of Operators in Hilbert Spaces.
- 49) Bruce J. Ogaga (2017): The Influence of Organizational Structure and Industry Competition on the Relationship Between Corporate Strategy and Performance of Companies Listed on the Nairobi Securities Exchange.
- 50) Obiero Ben Owino (2017): On the Minimal Resolution Conjecture for the Ideal of General Piont in the Projective Space P^4 .

- 51) Peter Wanjohi Njori (2018): Curvature Tensors on Semi-Riemannian and Generalized Sasakian Space Forms admitting Semi-Symmetric Connection.
- 52) Bwire Joseph Francis (2018): Top Management Team Demographics, Corporate Strategy, Organizational Structure and Performance of Kenyan State Corporations.
- 53) Dominic Chungani Muteshi (2018): Influence of Firm Capabilities and Organizational Culture on the relationship between Firm-level Strategy and Performance of Food and Beverage Manufacturing Companies in Kenya.
- 54) Patricia Gachambi Mwangi (2018): Top Management Team Heterogeneity and Performance of Large Manufacturing Firms in Kenya.
- 55) Grace Kamau (2018): Corporate Governance, Agency Conflicts, Strategic Choices and Performance of Financial Institutions in Kenya.
- 56) Stephen Nguthuku (2018): Mobile Phone Banking Attributes, Manager Demographics and Psychological Capital and Loyalty of Commercial Bank Corporate Customers in Kenya.
- 57) Sam Otoi Shem Odhiambo (2019): Effects of Reparametrization of Autoregressive Distributed Lag to Error Correction Model on Youth Unemployment in Kenya.
- 58) Kikechi Conlet Biketi (2019): Robust Model Based Estimation of Finite Population Totals Using the Procedure of Local Linear Regression.
- 59) Njagi Loyford (2019): On Application of Operator and Group-theoretic Concept in Signal Processing and Cryptography.
- 60) Ruganzu L.F.U. (2019): On Ricci Solitons as Quasi- Einstein Metrics.
- 61) Charles Thomas Keya (2019): Governance, Internal Audit, Financial Reporting and Performance of National Government Constituencies Development Funds in Kenya.
- 62) Peter Mutuku Mathuki (2019): Influence of Regional Integration and Macro-Environment on Strategic Alliances and Performance of Kenyan Manufacturing Firms in East African Community Market.
- 63) Peter Amburuka Mburunga (2019): Strategic Planning, Firm Level Factors, External Environment Dynamics and Performance of Manufacturing Firms in Kenya.
- 64) Jackson Kiiyo Maingi (2019): The Role of Employee Behavior and Organizational Structure in the Relationship between Strategic Planning and Competitive Advantage of Large Manufacturing Firms in Kenya.
- 65) Charles Nyungu Nalyanya (2019): Interventions, Entrepreneurial Orientation, Operating Environment and Beneficiary Poverty Reduction by Faith Based Enterprises within Slums of Nairobi, Kenya.

Ph.D. Submitted -4

Ph.D On-going - 10

Masters Supervision

Pure Mathematics, Applied mathematics, Information Systems, Dentistry and MA (Project Planning and Management) at University of Nairobi.

MBA Students at, Moi University and United States International University Nairobi.

Completed- 60 students.

COURSES TAUGHT

AT UNIVERSITY OF NAIROBI

Calculus, Mechanics, Vector Analysis, Differential Equations, Dynamics, Geometry, Tensor Analysis.

Simulation & Modeling, Operations Research, Statistics, Mathematical Methods.

Differential Geometry, Mathematical Physics, Field Theory, Functional Analysis, Complex Analysis.

Relativity, Riemannian Geometry, Mathematical Modeling, Graphs Networks Flows and Scheduling.

Statistics for Business Research , Research Methods- Ph.D. (Schools of Business and Education).

Statistical Methods- M. Sc.(Medical Statistics) ; M.A. (Project Planning and Management).

AT OTHER INSTITUTIONS:

United States International University (Nairobi) (1980-2006)

MBA - Quantitative Methods; Research Methodology.

Undergraduate – Algebra, Business Mathematics and Statistics.

Other Universities and Professional Colleges:

Quantitative Analysis, Data Processing, System Analysis, Business Modeling,
Management Information for Control and Decision-Making,
Numerical Analysis, Statistics, Operation management, Project management.

CURRICULUM DEVELOPMENT:

- B.Sc. and M.Sc. Applied Mathematics and Pure mathematics for the University of Nairobi.
- Statistics and Quantitative Methods for the Kenya Institute of Management.
- Secondary School Subject for the Kenya Institute of Education.
- Ph.D. (Commerce and Project Planning & Management) taught courses, for University of Nairobi.
- Mathematics and statistics units for United States International University (Nairobi).

OTHER EXPERIENCE

- Dean faculty of science, University of Nairobi, from 4th June 2002 to 10th March 2003.
- Chairman of Examination Committee (1982 - 86).
- Chairman of Registration Committee (1986 - 1991).
- Represent department in the faculty postgraduate committee Biotechnology and Environment committees.
- Acting Chairman, of the Department of Mathematics on several occasions
- Academic advisor to the University students.
- Head of Applied and Industrial Mathematics, in School of Mathematics, 2005- 2019(March).

CONSULTANCY

Undertake Educational Biological Industrial and Management projects.

Consultant for Kenya Amateur Athletic Association 1984 – 1989.

TEACHING EXPERIENCE:

Banaras Hindu University November 1968 to Dec., 1970

Kenyatta University College, Feb., 1974 to March 1979.

University of Nairobi (Nairobi), since April 1979 to present.

United States International University (Nairobi) since Jan 1980 to 2006.

Portland State University, Portland ,Oregon, USA, Summer Semester Teaching, 2012.

PRESENT POSITION

Retired on 31st March, 2019, as Professor of Applied Mathematics, from University of Nairobi.

RESEARCH PUBLICATIONS: Research papers, list attached.

CITATIONS, CONFERENCES ATTENDED AND MEMBERSHIPS OF LEARNED SOCIETIES

1. Awarded Medal and Certificate by IBC, Great Britain, Leading Scientists of the World, 2010.
2. Awarded "Order of the Grand Warrior of Kenya (OGW)", in 2018, by President of Kenya.
3. **Referee** for
 - Kenya Journal of Science and Technology
 - Discovery and Innovation
 - Progress of Mathematics
4. **Reviewer** for Mathematical Review, Published from Ann Arbor USA.

5. **Editorial Board member:** International Journal on World Peace (USA) ; International Journal of Business and Public Management (Kenya).
6. **External Examiner**
 - University of Khartoum, Sudan 1989 (Undergraduate & Postgraduate)
 - Makerere University, Uganda 1990-92 and 2007-09(Undergraduate Postgraduate)
 - Banaras Hindu University, India 1993 and 2011 (Ph.D. Thesis)
 - Moi University, Kenya 1995 & 2000 (Ph. D. Thesis).
 - Kenyatta University, Kenya 1994 - 98 (Undergraduate & Postgraduate)
 - Catholic University of Eastern Africa, Kenya 1997 - 2001.
 - National University of Science and Technology, Bulawayo, Zimbabwe 2000.
 - University of Zimbabwe, 2001 (Ph.D. Thesis).
 - University of Botswana, 2002-2003 (Ph.D. Thesis).
 - Bharathidasan University, Tiruchirappalli, TN, India 2010- (Ph.D. thesis).
7. Chairman of Secondary subject panel, at Kenya Institute of Education.
8. Kenya's representative to the International Chess Federation", 1979 - 1982.
9. Selected for the International Who's Who of Intellectuals " by IBC, Great Britain.
10. Included in Who's Who in Commonwealth and Men of Achievement, by IBC Great Britain.
11. Resource Personnel for Kenya Institute of Management and other consultancy and training groups.
12. Member of University of Nairobi Board of Postgraduate Studies (Representing College of Biological& Physical Sciences), since 1991-2015.
13. Vice - Chairman, Kenya Chess Association. 1979 -1981.
14. Patron of Nairobi University Chess and Tennis clubs.
15. Member of Scientific Committee for "The International Conference of Differential Geometry and Dynamical Systems" Bucharest-Romania, 5-7 October, 2007.
16. Ambassador of Peace; Inter-Religious Federation

MEMBERSHIPS:

1. Life member of the" Academy of Progress of Mathematics".
2. Life member of the "Indian Mathematical Society ".
3. Life member of the "Indian Science Congress Association".
4. Life member of the "Allahabad Mathematical Society ".
5. Life member of Indian Society for Training and Development.
6. Member of "Tensor Society, Japan, since1969".
7. Member of the "International Association of General Relativity and Gravitation ".
8. Member of Kenya Mathematical Society ".
9. Member of IEEE.
10. Member of International Biometric Society.
11. Member of American Mathematical Society, since 1978.

HOBBIES:

- Chess, Tennis, Football and other games.
- Represented Allahabad University and Banaras University in football.
- Represented Kenyatta University College in tennis and chess.
- Patron of Chess and Tennis, University of Nairobi.

LIST OF CONFERENCES ATTENDED

1. 57th session of Indian Science congress, 3rd to 9th Jan.1970, Calcutta University, INDIA
2. Conference of Indian association of General relativity and Gravitation, 22nd to25thOct.1971, at Indian Academy of Science, New Delhi, India.
3. 59th session of Indian Science congress, 3rd to 8thJan.,1972,at Punjab University , INDIA..

4. 62nd session of Indian Science congress, 3rd to 8th Jan., 1975, at Delhi University, INDIA (from KENYA).
5. International Dedication Seminar on recent advances in mathematics and its Application, 27th to 31st Dec., 1976, at Banaras Hindu University, INDIA (Chaired a paper reading session).
6. 64th session of Indian Science congress, 3rd to 8th Jan. 1977, at Utkal University, India (from KENYA).
7. 9th INTERNATIONAL conference on General Relativity and Gravitation, 14th to 19th July, 1980, at Fredrick Schiller University, Jena, GDR.
8. First East African Symposium in Pure and applied Mathematics and mathematical Education, 8th to 10th June 1981, at Nairobi, Kenya.
9. 72nd session of Indian Science congress. 3rd to 8th Jan. 1985, at Delhi University, Delhi, INDIA (from KENYA).
10. Workshop on Curriculum development in physics, Mathematics and Computer science, Sept 1st-13th (1986) at Nairobi, KENYA.
11. Short Course on increasing productivity through effective maintenance and quality control, at Nairobi, Kenya, July 1987 (Chaired a paper reading Session).
12. Workshop on Mathematical Physics at the University of Burundi, Oct. 1987.
13. Abidjan Symposium of Maths, Differential Geometry and Mechanics, at Abidjan, Ivory Coast, July 1988 (Chaired a paper reading session).
14. MG5 meeting at University of Western Australia, Perth, AUSTRALIA, Aug 1988.
15. Hindu Religious Education, in service course of schoolteachers at Nairobi KENYA, 19th-21ST April 1990 (invited speaker).
16. International Congress of Mathematics (ICM-90), AT Kyoto, Japan, 21st-29th August 1990.
17. 7th PWA conference at Nairobi, KENYA. 7th - 8th Dec. 1990.
18. 1st Regional God Conference on "God humanity and Mother Nature" at Mara, KENYA, May 1991.
19. PWPA, conference on the "Present State and Future Prospects for Africa", at Lusaka Zambia, 27th June-1st July 1992.
20. Conference on "The Economic and Demographic Impact of Aids on Kenya", At Nairobi Kenya, 8th-10th July 1992 (invited speaker).
21. 1st Conference of the Kenya Mathematical Society, Nairobi Kenya, 19th-21st August 1992.
22. Assembly of worlds Religion on "Religion and the Creation of the World peace", at Seoul, South Korea, 24th -30th August 1992.
23. 1st World Parliament of Religious Centenary seminar "Vivikenanda Vision 2000", at Nairobi Kenya, 3rd July 1993 (Speaker on the main theme).
24. 9th Southern Africa Mathematical Science Association Symposium at the University of Botswana, Gaborone, Botswana, 13th -17th Dec. 1993 (Speaker for Plenary session).
25. World Hindu Conference at Durban, South Africa, 8th-10th July 1995.
26. Seminar on African and Hindu Traditions at the University of Nairobi, Kenya, 12th Aug. 1995 (main speaker).
27. 6th International Congress of PWPA at Seoul, South Korea, 21st-25th August 1995.
28. Workshop on "electrons and Democracy Building", BEERM, Nairobi, Kenya, 14th August 1997. (Invited Speaker).
29. 7th Biometric Conference, Mombasa, Kenya, 22nd-26th Sept. 1997.
30. Seminar On the Legacy of Ghandi, University of Nairobi, Nairobi, Kenya, 4th Oct. 1997 (Invited Speaker).
31. East African Oral Health Research Promotion Workshop, Nairobi, 12th -14th November 1997.
32. 7th International congress of PWPA, Washington DC, USA, 24th - 29th Nov. 1997.
33. Conference on "Maintaining Excellence in Multiplicity", Kampala, Uganda, 22nd -23rd May 1988 (Invited speaker).
34. 5th Pan African PWPA Conference Johannesburg, South Africa, 13th-16th Jan 1999.
35. AASR Conference, Nairobi Kenya, 27th-31st July 1999 (Invited speaker).
36. 2nd International Conference on "Mathematics for Industry", Dar-es-salam, Tanzania, 21st-23rd Sept 1999 (Keynote Speaker).
37. Sasakawa Young Leaders Fellowship Fund Workshop, 5-6 November 1998, Nairobi, Kenya (Invited

- Speaker).
38. German Academic Exchange service (DAAD) workshop, 5-6 November, 1998, Nairobi Kenya (Invited Speaker).
 39. 8th International Congress of PWPA, 10th-14th Feb 2000, Seoul, South Korea.
 40. 2nd Sasakawa Young Leaders Fellowship Fund Workshop, 16th-17th November 2000, Nairobi, Kenya (Plenary Speaker).
 41. International Conference on Contemporary Views on Indian Civilization, 28th-30th July 2000, Hoboken, NJ, USA.
 42. 23rd Conference on Regional and Urban Statistics and Research 12th - 15th, Lisbon, PORTUGAL (Invited Speaker).
 43. Sasakawa Young Leader Fellowship Fund Workshop; 14th - 15th Nov, 2002 Nairobi, KENYA (Invited Speaker).
 44. The first international conference in the East African Region on Operations Research and Development for Africa, 17th-19th Sept, 2003, Nairobi, Kenya (Invited Speaker).
 45. World Congress of Ethnic Religions and Traditions; 8th-10th June, 2005, Antwerp, Belgium (Invited Speaker on a Theme).
 46. Eastern African Mathematics (AMMSI) Conference; 4th-6th Dec. 2006, Nairobi, Kenya (Invited Speaker).
 47. Mathematical Biology (AMMSI) Workshop; 7th-10th Dec. 2006, Nairobi, Kenya.
 48. The 4th International Operations Research Society of Eastern Africa (ORSEA) Conference; 23rd-24th Oct., 2008, Nairobi, Kenya (Invited Speaker).
 49. International Seminar on History of Mathematics In the International Statistics Year 2013. Ramjas College, University of Delhi, India, 27-28 November, 2013 (Invited Speaker).
 50. International Conference on History & Development of Mathematics: ICHDM-2013. JECRC University, Jaipur, India, November 29, 30 & December 1, 2013 (Invited Speaker).
 51. International Workshop on Performance Evaluation and Management of State Owned Enterprises, 14-15 Jan, 2015, New Delhi, India.
 52. 4th Regional Conference on Business Excellence for Sustaining High Performance: Indian Society for Training & Development; 8-9 December, 2017, Dehradun, India (Invited Speaker).
 53. First Science Conference for Development: College of Biological and Physical Sciences, University of Nairobi; 24-25 October, 2018 (Invited Speaker).
 54. International Conclave on "Spirituality and Happiness at Workplace"; Indian Society for Training & Development; 9-10 August, 2019, Dehradun, India (Invited Speaker).

BOOKS PUBLISHED

Operation Research for e-learning mode
 Methods 1 for ODL
 Sustainable Agriculture: A Search for Innovation (chapter)

LIST OF PUBLICATIONS by G.P. Pokhariyal

1. "Curvature Tensors and their Relativistic Significance"; Yokohama Math.Jour. Vol.XVIII, No.2. PP5-8(1970), with Mishra.
2. "Electromagnetic tensor field Nijjenuis Tensor (III)"; Rev de la Sci L'Univ D'Instanbul. Ser. A. Vol. 35, PP 1-3(1970), with Mishra.
3. "Electromagnetic tensor field Nijjenuis Tensor"; Tensor (N.S), Vol. 22, No.3, PP 249-54 (1971), with Mishra.
4. "Curvature Tensors in Riemannin Manifold"; Indian Jour. of Pure and Applied Math. Vol.2 No.3, PP 529-32 (1971) with Mishra.

5. "Curvature Tensors and their Relativistic Significance (II)"; Yokohama Math Jour. Vol.XIX No.2, PP 93-103 (1971), with Mishra.
6. "Bochner Curvature Tensor in Kahler Manifold"; Prog. Of Math. Vol.5 No. 1 and 2, PP 82-87(1971.)
7. "Perfect Fluid Distribution in Class one Space"; General Relativity and Gravitation, Vol.3 No.2, PP 87-93 (1972).
8. "Curvature Tensors and their Relativistic Significance (III)"; Yokohama Math. Jour. Vol.XXI No.2 PP 115-19 (1972).
9. "Curvature Tensors in Riemannian Manifold (II)"; Proc. Indian Acad. of Sci. Vol.LXXIX Ser. A., No.3 PP 105-110 (1974).
10. "Geometrical Study of a New Curvature Tensors"; Kunpook Math. Jour. Vol.15, No.2, PP 67-71 (1975).
11. "Prefect Fluid Distribution in Class One space-time (II)"; Prog. Math. Vol.10, No.2 PP 11-18 (1976).
12. "Class Two space-time of Product spaces in General Relativity"; Lettere al Nuovo Cimento Serie.2. Vol. 18 PP 119-22 (1977).
13. "Some Structures in Electromagnetic Tensor Field;" (N.S). Vol.31 No.3 PP 310-14 (1977).
14. W_2 -Curvature Tensor in Kahler, Almost Kahler and Almost Tachibana Space"; Anale de la Fac Des Sci. Zaire, Vol.IV, No.1, PP 83-92 (1978).
15. "On a Almost Hermite Manifold"; Bull. Math. Sco. Belquim, t. XXXII, PP 3-9 (1980).
16. "Study of a Tensor in Sasakian Manifold"; Prog. Of Math, Vol.15, pp. 23-27 (1982).
17. "Study of a new Curvature Tensor in Sasakian Manifold"; Tensor (N.S.) Vol.36, No.2, pp. 222-26 (1982).
18. "Relativistic Significance of Curvature Tensors"; Internet. Jour. of Math and Mathematical Sci. (USA), Vol.5, No.1, pp. 133-139 (1982).
19. "Electromagnetic Tensor Field for First and Second Class"; Tensor (N.S.) Vol.41, No.1, pp. 21-22 (1984).
20. " W_2 -Curvature Tensor in Almost Product and Almost Decomposable Space"; Africa Matematika, Vol.VIII pp. 37-42 (1985).
21. " Structures Defined by a Tensor Field of type (1,1) satisfying $f_5 - f = 0$ "; Tensor (N.S.) Vol.42 No.1, pp97-100 (1985).
22. "A model for the growth of infection"; Jour. Theo. Biology, 119, PP 181-88 (1986).
23. "Curvature Tensor in Kahler and Almost Kahler Manifold"; Kenya Jour. of Sci. Ser. Vol.7, No.2, pp., 19-20 (1986).
24. Structure Defined by a Tensor Field of type (1,1) satisfying $f_5 + f = 0$ "; Tensor (N.S), Vol.45, No.1, pp43-45 (1987.)
25. "On Symmetric Sasakain Manifold"; Kenya Jour. of Sci. Ser. A. 9 (1, 2) pp. 39-42 (1988.)
26. "Correlation and Path Coefficient Analysis for Yield Components and Maturity Traits in Maize (*Zea Mays L*);Maydica, Roma, Italy, XXXIII, pp. 109-119, (1988.), with A.P.Tyagi and O.M. Odongo.

27. "Earliness association and Path Coefficient Analysis in Sunflower"; Sunflower Yearbook Australia (1988), with A.P. Tyagi.
28. "Association and Path Coefficient Analysis for Yield and its components in Maize"; Kenya Jour. of Sci., Ser. B,9 (1&2)pp45-48 (1988) ,with A.P.Tyagi and . M.Odongo.
29. "Curvature Tensors in Rumanian Manifold"; Africa Matematika; Vol.10 pp5- 9 (1988).
30. "Screening for Resistance to Bacterial Blight under Natural Field Conditioned in Upland Cotton"; KJS (B) 10 (1&2) pp95-100 (1989), with P.A.S Olngotie and A.P.Tyag.
31. "Correlation and Path Coefficient Analysis for Yield Components and Fibre Traits in Upland Cotton (*Gossypium, hirsutum L.*)"; KJS (B) 10 (1&2) 107-118, with A.P.Tyagi.
32. "Heritability and Heterosis for Yield and its Components in Maize (*Zea Mays*)"; KJS (B) 10 (1&2) pp. 101-105 (1989), with O.M.Odongo and A.P.Tyagi.
33. "Path Coefficient Analysis for Yield and Earliness Components in Maize (communicated), EAGS,with A.P.Tyagi and O.M.Odongo.
34. "Structures on Electromagnetic Tensor Fields"; Tensor, (N.S), Vol.50 pp. 6-11 (1991.)
35. "Curvature Tensors in Kahler Manifold"; Discovery and Innovation, Vol.4, No.2 pp. 17-21 (Sept.1992)
36. "An accurate Epidemiological Model"; Applied Maths and Computation, 53: pp 1 - 12 (1993), WithA .J Rodrigues.
37. "Anterior Teeth Morpho-metric Parameters in Kenya Africans"; Archs Oral Bio, Vol39, No.4 (1993) pp. 337-342, with J.Hassanali.
38. "Traditional Extractions of Mandibylar Incisor amongst the Maasai and other Kenyans"; with J.Hassanali
39. "On Recurrent Kahler Manifold"; Prog. Of Math., Vol.20, No.2,pp 50-55 (1994)
40. "Error Analysis of Dynamical Model in Epidemiology"; International J. Math & Math Sci., Vol.17, No.1 (1994) PP 119-124, with A.J. Rodrigues.
41. "Analysis of Present State of Kenyan Economy"; Africa Quarterly, Vol.34 No.4 pp 85-94 (1994), with P.V. Joshi.
42. "Character Association and its Components in Field Bean (*Phaseolu Vulgaris L*) Cultivars"; to appear in Discovery and Innovation; With A.P. Tyagi & R.A. Buruchara.
43. "Curvature Tensors in a Lozentzian Para Sasakain Manifold"; Quaestiones Mathematicae, Vol.19pp 129-136 (1996).
44. "Review of Logistic-Type Models in Plant Caps Pathogen Epidemiology"; communicated, with Rodrigues and Moturi.

Section B: Papers Presented in Conferences, Symposiums and Workshops

45. "Study of Nijehuis Tensor Electromagnetic Tensor"; Proc. Indian Assoc. of G.R.G. (1971).
46. "Perfect Fluid Distribution in Class One space-time"; Proc. Indian Assoc. of G.R.G (1971). "Study of Curvature Tensors in Kahler Manifold"; Proc. Indian Sci. Cong., Maths. Sec. (1972).
47. "Class Two space-time of Product Space in Relativity"; Proc. Indian Sci: Cong., Maths. Sec. (1975).
48. "Structures in Electromagnetic Tensor Field"; Proc. Internal Dedi. Semi. On recent advances in Maths.And its applications, BHU (1976).
49. "Curvature Tensors in Almost Products and Almost Decomposable manifold"; Proc. Indian Sci.Cong., Maths. Sec (1977).
50. " Relativistic Significance of Curvature Tensors"; 9th International cont. G.R.G., Jena, G.D.R., Vol.1, pp. 196 (1980)

51. "Properties of Some new Curvature in Sasakian Manifold"; Proc. First East African Sym. Sec. Bpp. 71-75, June (1981).
52. "Use of Statistics in Engineering Practices in Kenyan Industries"; Short course on increasing productivity through effective maintenance and quality control. July (1987).
53. "Study of Complex and Contact Manifolds"; Abidjan Symposium of Maths, Differential Geometry and Mechanics, July (1988).
54. "Electromagnetic Tensor Field Structure"; Proc. MG5 meeting on General Relativity, Part A, pp.929-937 Perth, W. Australia, Aug. (1988).
55. "Buddhism"; Hindu Religious Education (HRE). Workshop for schoolteachers at Nairobi, Kenya 19-21 April (1990).
56. "Implication of Accurate Dynamical Model in Epidemiology"; International Cong. of Math (ICM-90), Kyoto, Japan, August (1990), with A.J. Rodrigues.
57. "The Hindu view of God, Humanity and Mother Nature"; God Conference at Mara (Kenya). May1991, Proc. pp. 165-171 (New Era book).
58. "An analysis of the Present State and the Future Prospects of Science & Technology in Africa"; PWPA Conference at Lusaka, Zambia 27th-30 June (1992), with K.R. Gray
59. "A Study of some AIDS Epidemic Models and their Usefulness to Kenya Situation"; Conf. On The Economic and Demographic Impact of AIDS on Kenya, Nairobi 8th – 10th July 1992, With J.A.M. Ottieno.
60. "The Infection Growth Model"; The First Conf. of the Kenya Mathematics Society, at Nairobi, 19th-21st August 1992, Proc. of Conf. pp8-9, with B.A Orfanopoulus
61. "Vedic Spiritual Heritage, its Influence on Professional Life and Contribution to Peace"; Assemblyof the World's Religions, at Seoul, South Korea, 24th-31st Aug. 1992.
62. "Development of Hindu Religious Education (HRE)-how to create interest in it: Delegates Conference (HCK) at Mombasa, Kenya, 26th-28th Feb. 1993.
63. " Science and Spirituality are Unifying Forces for Universal Peace"; First World Parliament of Religions Centenary Seminar, Vivekananda Vision 2000, at Nairobi, 3rd July 1993, Proc. pp1-3.
64. "Yoga- an Introductory Overview"; Workshop on Hindu Religion Education, Nairobi, Kenya 3rd-5th Dec. 1993.
65. " Study of Curvature Tensors in Lorentzian Para Sasakaian Manifold"; 9th Southern Africa Mathematical Science Association Symposium, Gaborone, Botswana, 13th – 17th Dec 1993, Proc. SAMSA IX pp. 179-184.
66. "Mathematical Models in Epidemiology"; 9th Southern Africa Maths Sci.Ass. Symposium, Gaborone, Botswana, 13th - 17th Dec. 1993, Proc. SAMSAIX, pp 55 -62.
67. "Six Schools of Philosophy (Shad Darshan)"; Workshop of Hindu Religious Education, Nairobi, Kenya 15th- 17th Dec. 1994.
68. Basis of African and Hindu Traditions"; World Hindu conference, Durban, South Africa 7th-10thJuly 1995.

69. "Ethical Ways to Combat Current Economic Challenges"; World Hindu Conference Durban, South Africa, 7th-10th July 1995.
70. "Hindu Family System"; Seminar on African and Hindu Traditions, University of Nairobi, Kenya, 12th Aug. 1995.
71. "The Importance of Tribal Family Institution in Shaping the Modern World "; 6th Int. Congress of PWPA, Seoul, South Korea 21st - 25th Aug .1995. Report pp 180 - 182.
72. "Religious Organizations in Elections and Democracy Building (Hindu View)"; Bureau of Electoral Education Research and Monitoring, 14th Aug 1997.
73. "Relevance of Gandhi in 21st Century "; Seminar on the legacy of Gandhi, at University of Nairobi, Kenya, 4th Oct 1997.
74. "Model of Crop Development "; 5th Biometric Conference, Mombasa Kenya, 22nd - 26th Sept .1997.
75. "Identity and Character in Somalia"; 7th International Congress of Professors World Peace Academy; Washington DC, USA, Nov 24th -29th, 1997, Proc.pp 86 -90.
76. "Dental Arch Shape in Humans"; East African Oral Health Research Promotion Workshop, Kenri, Nairobi Kenya, 12 - 14 Nov 1997
77. "Inter-University Cooperation in Kenya"; Conference on Maintaining Excellence in Multiplicity, Kampala, Uganda, 22nd - 23rd May 1998.
78. "Globalization of Future Leadership - Data Analysis ": Sasakawa Young Leaders Fellowship Fund Workshop, 5 – 6 November 1998, Nairobi Kenya
79. "Science Technology and Education for Modernization and Development of Africa"; 5th Pan African PWPA Conference, 13-16 January 1999, Johannesburg, South Africa.
80. "Ethnographic and Historical Development of Oriental Religions in East Africa"; AASR Conference, 27th - 31st July 1999, Nairobi, Kenya.
81. "Role of Mathematics and Computer Science for the Industrial Development of Africa"; International Conference of Mathematics for Industry, 21st - 23rd Sept 1999, Dar-es-salaam, Tanzania.
82. "Data Analysis and Computer use" German Academic Exchange Services (DAAD) Seminar, 19th - 21st January 2000.
83. "Effect of Globalization on Politics, Society, Family and Economy in Kenya ". The 8th International Congress of Professors World Peace Academy, 10th - 14th Feb 2000, Seoul, South Korea.
84. "Human Resource Development and Intercultural understanding for World peace" 2nd Sasakawa Young leaders Fellowship Fund Workshop, 16th-17th November 2000, Nairobi, Kenya.
85. " Impact of Dharma from Classical Economic Models to those of Current Economic Behavior"; International Conference on Contemporary views on Indian Civilization, 28th-30th July 2000, Hoboken, NJ, USA.
86. "Application of Graph Theory in neural connections"; Seminar at Kenya science Association; from April 2002, At University of Nairobi; Kenya.

87. 88. "Modeling Environmental, Epidemiological and Social Influences of Urbanization ";
23rd Conference on Regional and urban statistics and Research, 12th - 15th June 2002,
Lisbon, PORTUGAL
88. "Importance of Dharma in Transforming Global Society "; Sasakawa Young Leaders Fellowship
Fund Workshop, 14th - 15th Nov 2002, Nairobi, Kenya.
89. "Modeling and Simulation of Socio-Economic aspects of Africa"; The first international conference
in the East African Region on Operations Research and Development for Africa, 17th-19th Sept,
2003, Nairobi, Kenya.
90. "Reclaiming the old Religious Spots: What is Possible and what is Necessary"; World Congress of
Ethnic Religions and Traditions, 8th-10th June, 2005, Antwerp, Belgium.
91. "Applications of Deterministic and Stochastic Models in Biological Processes"; AMMSI Eastern
African Mathematics Conference, 4th-6th Dec., 2006, Nairobi, Kenya.
92. "On incorporating Awareness in HIV/AIDS Epidemic Modeling"; AMMSI Mathematical Biology
Workshop, 7th-10th Dec., 2006, Nairobi, Kenya, with Simwa and Wasike.
93. "Effect of Training Needs Assessment on Performance: The case of Non-Academic Staff of College
of Humanities and Social Sciences"; Proc .ORSEA Conf(2008), pp73-78, with Monari.
94. "Emerging Theories on Decision Making" Proc .ORSEA Conf (2008), pp 130-136, with Okwiri.
95. "An Analysis of the Role of Participatory Communication in Community Projects: A case of
Dagoretti Constituency Development Projects, Nairobi"; Proc .ORSEA Conf (2008), pp 137-
142, with Ndungu.
96. "Mathematical Models for Human and Baboon Brain Parameters"; Proc .ORSEA Conf (2008),
pp180-185.
97. "Application of Sperner's Lemma in Fair Division"; Proc .ORSEA Conf (2008), pp354-360, with
Ongaro¹.
98. "Application of Mathematics in Social Sciences"; International Seminar on History of Mathematics, In the
International Statistics Year 2013, November 27-28,(2013) University of Delhi, Proceedings of Seminar.
99. "Mathematics and its Applicability in Biological Sciences"; International Conference on History &
Development of Mathematics; Nov 29, 30 & Dec 1; JECRC University, Jaipur, India, Proceedings of
Conference.
100. "Some Concepts on Performance Measurement and Governance Models". International Workshop on
Performance Evaluation and Management of State Owned Enterprises; (14-15 Jan, 2015, New Delhi)
Proceedings (CD).
101. "Top Management Team Demographics, Corporate Strategy and Performance of Public
Organizations"; Global Leadership & Management Conference; University of Riverside, California,
14th September, 2017; with Bwire, Awino and Kitiabi.
102. Mathematical Model Showing Influence of Business Excellence Parameters on Sustainable
High Performance of Organisations.
103. Role of Science in Development, Supporting Manufacturing, Affordable Housing, Universal
Health Coverage and Food Security.
104. Importance of Spirituality and Happiness at Workplace.

Section A (cont.): Papers in Journal and communicated for publication

105. "Mathematics and Science for Industrial Development ", Computer Age, pp. 6-8, Jan -Feb 2000...
106. "Curvature tensors on A-Einstein Sasakian Manifold "; Balkan Journ. Of Geom. & its applications vol.6, No.1, 2001, PP 45-50.
107. "W2 - Recurrent Sasakian Manifold"; Global Journ. Theo & Applied Math Sciences (2012) accepted, with Moindi & Nzimbi.
108. "W4-Curvature tensor on Sasakian Manifold "; Kenya Journ. of Sci. Ser. A (2010) with Moindi & Nzimbi
109. "Crop Development Model"; Applied sciences, vol. 4, No.1, 2002, pp 11-16.
110. "Simulation Model for Dental Arches "; East African Medical Journ., Vol.81, No.11, Nov., 2004, pp 599-602, with Moturi, Hassanali and Kinyanjui.
111. "A dynamical Model for stage-specific HIV Incidences with Application to Sub-Saharan Africa", Applied Maths and Computation, 146 (2003), pp 93-104, with Simwa.
112. "An Empirical Modeling of HIV/AIDS Epidemic with Application to in East Africa, African Journ Sci & Tech, Vol. 4, No.1, June, 2003, pp 104-109, with Simwa.
113. "Multistability Analysis of a Nutrient -Dependent Model System for Waterhyacinth "; communicated, with Wasike and Nzuki.
114. "Strategic Measures to curb Crime Rates in Nairobi"; International Journ. On World Peace, Vol... XX, No.1, March 2003, pp 55-69.
115. "A Model for HIV Infection and its Application"; Far East J. Appl. Math. 16 (2004), pp151-160, with Simwa.
116. "Models for Understanding Social Problems of Slums" ; International Journ. On World Peace, Vol. XXII, No.2, June 2005, pp 59-75.
117. "Global Asymptotic Behaviour of Aquatic Vegetation in a System with a Periodic Nutrient Supply"; African Journ. Sci. & Tech. Vol. 7, No.1, June 2006, pp 41-50, with Wasike and Ndungu
118. "Analysis of Treatment Methods for Victims of Torture in Kenya and East-African Region"; Traumatology XX(X) 1-11, (2012) with Rono and Munyoki.
119. "Development Strategies for sub-Saharan Africa"; International Journ. On World Peace, Vol XXIV, pp 83-102 March (2007).
120. "Physical Properties of some Curvature Tensors"; Kenya Journ. of Sci. Ser A., Vol. 12, No.1, pp13-16, 2007.
121. "The Difference of the Variance Functions between two Estimated Responses for a Fourth Order Rotatable Design in two Dimensions; Applied Sciences Vol.10 pp184-192, 2008, with Njui¹ and Karanjah³.
122. "Comparative analysis of selected linear measurements of human and baboon brains"; Eur. J. Anat, 11(1), 2007, with Hassanali¹ and Mwasina³
123. "A note on Similarity, Almost-Similarity and Equivalence of Operators; FJMS, Vol. 28,2, pp305-317, 2008, with Nzimbi¹ and Khalagai³
124. "The Variance Function of the difference between two estimated responses for a fourth order rotatable design in two dimensions"; FJTS, Vol 1, pp 1-15, 2008, with Karanjah¹ and Njui².

125. “ W_2 -recurrent LP- Sasakian Manifold”, Universal Journal of Mathematics and Mathematical Sciences, Vol.3 (2) 2013, pp119-128, with Moindi ² & Nzimbi ³
126. “ W_4 - Curvature Tensor on A-Einstein Sasakian Manifold”, To appear, Global Journal of Theoretical and Applied Mathematical Sciences, 2012 , with Moindi ¹ & Nzimbi ³ .
127. “Para Sasakian Manifold”, communicated, with Moindi ¹ & Nzimbi ³
128. “Geometrical and Physical properties of Curvature Tensors”; (2010) accepted in Intern Jour. Of Pure & Applied Mathematics
129. “Regression Model for Human and Baboon brain parameters; Int. J. Morphol., 29(3):971-977, 2011, with Hassanali ².
130. “A Study of Lorentzian Para Sasakian Manifolds”; communicated, with Katende ¹.
131. “Curvature Tensors in -Einstein Sasakian Manifold”; communicated, with Katende ¹.
132. “A Study of Sasakian Manifolds”; communicated, with Katende ¹.
133. “Para Sasakian Manifolds Satisfying Certain Conditions”; communicated, with Katende ¹.
134. “ n th-aluthge transform of w -hypormal operators”, Far East Journal of Applied Mathematics Vol 56 .NO 1, 2011, PP 65-74 with S.K IMAGIRI and J.M Khalagai
135. “Stability and Persistence of Synchronized Manifold of Diffusively Coupled Oscillators” Far East Journal of Dynamic Systems Vol 15 NO 2, 2011, pp 113-128 with Okwoyo James, Kinyanjui Mathew and Okelo Jeconia.
136. ” Mutual Inhibition, Competition, and Periodicity in a Two Species Chemostat-like System”, with G. E. Kimathi, and A. A. M. Wasike.
137. “Cross Listing and Dividend Policy: Evidence From Cross Listings within East Africa”; Journal of Emerging Trends in Economic and Management Sciences (JETEMS) 3 (1):7-14(2012) with ¹Kennedy Munyua Waweru, ³Muroki F. Mwaura.
138. “Real Exchange Rate Volatility in Kenya”; Journal of Emerging Trends in Economic and Management Sciences (JETEMS)Vol.3, Issue2, June (2012), pp117-122, with ¹ Danson Musyoki, ³Pundo.
139. “Real Exchange Rate Equilibrium and Misalignment in Kenya”; Journal of Business Studies and Quarterly, Vol 3(4), 2012 , pp 24-42; with ¹ Danson Musyoki, ³Pundo.
140. “The Impact of Real Exchange Rate Misalignment on Economic Growth; Kenyan Evidence”; Journal of Finance and Accounting, April 2014, Vol.5, Issue (8),pp 110-120, with ¹ Danson Musyoki, ³Pundo.
141. “The Impact of Real Exchange Rate Volatility on Economic Growth; Kenyan Evidence”; Journal of Business and Economic Horizons; June 2012, Vol.7, Issue(1), pp59-75, with ¹ Danson Musyoki, ³Pundo.
142. “Global asymptotic behavior of aquatic vegetation in a periodical mediated system”; International Jour of Modern Eng Research (IJMER) Vol 2 (5), pp3248-3256 (2012), with Wasike ¹ and Kimathi.
143. “The Signaling Hypothesis: Evidence From The Nairobi Securities Exchange”, Journal of Business Studies Quarterly Vol. 3(4) 2012, pp105-118 ,With ¹Kennedy Munyua Waweru and Muroki F.Mwaura.

144. "Effects of National Strategy Implementation on Competitiveness: A case study of Kenya's Trade International Marketing and Investment strategies" ; International Journal of Business and Public Management Vol. 1 No.1, pp60-68, April, 2011, with Oyalla.
145. "The Key Reasons for Cross-Listing in East African Stock Exchanges by Firms Listed in the Nairobi Securities Exchange" ; International Journal of Business and Management; Vol 7, No.16; 2012, pp118-124, with ¹Kennedy Munyua Waweru, ³Muroki F. Mwaura.
146. "Cross-Listing and Valuation Effects: Evidence From Nairobi Securities Exchange"; Journal of Modern Accounting and Auditing, Vol. 8, No.9, September 2012, pp 1371-1380, with ¹Kennedy Munyua Waweru, ³Muroki F. Mwaura.
147. "Self-Reported Use of Electronic Health Tools BY Cervical Cancer in two National Referral Hospitals in Kenya" Communicated with Kivuti Lucy W, Roudsari Abdul, McDonnell Geoff.
148. "An exploration of opportunities and challenges facing cervical cancer managers in Kenya"; BMC Research notes 6:136 pp1-10 (2013); with Kivuti Lucy W, Roudsari Abdul, McDonnell Geoff.
149. "A mathematical Model of Cervical Cancer in Kenya"; International Journal of Science and Research; Vol.4 Issue 2, pp458-465 (February, 2015); with Kivuti Lucy W, Roudsari Abdul, McDonnell Geoff.
150. "Universal peace Through A Balance of Science And Religious/Cultural Practices", International journal on world peace Vol . XXIX No4 Dec 2012, pp61-69.
151. "Two Stage Interest Rate Pass Through In Kenya" Journal of Emerging Trends in Economics and Management Sciences (JETEMS) 4(1): 54-61 © Scholarlink Research Institute Journals, 2013 (ISSN: 2141-7024), with Mahasi John.
152. "Curvature tensor on Sasakian Manifold, Kenya Journal of Sciences (KJS) Vol.14 No 1 2010, 1-8.
153. "Linear Operators for which T^* and T^2 commute" .Global Journal of pure Mathematics (GJPAM), Vol.2, No. 5; 2012, 20-26, with Nzimbi and Khalaghi.
154. "The Performance persistence of equity and blended mutual funds in Kenya" Journal of Economics and finance; Vol.6, No.8, 2014, pp153-160, with Mohamed Shano and Muroki .F. Mwaura.
155. "Morphometric parameters of Kenya adult mandibles" East African Medical Journal vol.88 No.10 October 2011, pp349-355, with A.O. Kenyanya, M.L.Chindia, J.Hassanali.
156. "Forecasting techniques, operating environment and accuracy of performance forecasting for large manufacturing firms in Kenya. "Prime Journal of Business Administration and Management. Vol 4(7), pp 1-16 (2014), with E.W.Chindia, G.Wainaina and F.N.Kibera,
157. "Modeling Labor Market Performance in Sub-Sahara Africa": Intern Jour of Devl Res (IJDR); Vol.5 Issue 02, pp3192-3199 (Feb. 2015), with Manene, M.M, Mwangi Mary M.
158. "A Study of W_4 -Symmetric K-Contact Riemannian Manifold": IJISM, Vol. 3, 2, 109-111 (2015), with Moindi, S.K. and Katende, J.K...
159. "A Model for HIV infection and Data-Base"; Journal of International Research in Medical and Pharmaceutical Sciences; 5(3); pp134-140; 2015; with A.J. Rodrigues ² , F.Njui, S.K.Moindi, R.O.Simwa ³ and A. Mungai ⁴
160. "The Influence of Religion, Technology and Economy on Culture, Diplomacy and Peace": Intern. Journal. On World Peace; Vol. XXXII No.2, 41-50 (2015).
161. "Human Dental Arch Shapes". Global Journal of Medical Research: J. Dentistry and Otolaryngology; Vol 15, Issue 4 Version 1, pp 1-3, Year 2015

162. "A Study of the Relationship among Performance Contracting, Measurement and Public Service Delivery in Kenya" Open Access Library journal Vol 3, e2850,1-11, (2016) with Ndubai R.E and Mbeche I.M.
163. "Management Competence and performance of Firms Listed on the Nairobi Securities Exchange, Kenya ". Canadian Open Management Journal; Vol. 2, No.1, October 2016 pp1-8; with Joanes K.K, K'Obonyo, P, and Kidombo, H.
164. "An HIV/AIDS Model with Information on Individual's HIV/AIDS Status" International Journal of Emerging Technology & Research, Vol. 3, Issue 4, July- August, 2016, pp71-76; with Simwa .R.O and Wasike A.A.M.
165. "Firm Level Institutions and Performance of Companies Listed on the Nairobi Securities Exchange, Kenya"; International Journal of Economics, Commerce and Management, United Kingdom; Vol. IV, Issue 10, October, 2016, pp881-893; with Joanes K.K, Obonyo.K.P, Harriet .K.
166. " Human Resource Management Bundles and Performance of Firms Listed on the Nairobi Securities Exchange, Kenya". The International Journal of Business and Management; Vol. 4 Issue 10, October 2016; pp13-19. with Joanes K.K, Obonyo.K.P, Harriet .K.
167. "A study of the Intervening Effects of Political stability on the relationship Between Performance Contracting and Measurements, Public service Delivery in Kenya". Open Access Library journal, Volume, 4, e3402, 1-13 (2017), with Ndubai R.E and Mbeche I.M.
168. "Estimated Numerical Results for the Deterministic Model of the Under five Years Pneumonia in Kenya "Asian Journal of Mathematics and Computer research Vol 8(2): 136-148, 2016 with Ngari C.G and Koske J.K.
169. "Analytical Model for Childhood Pneumonia ,a Case Study of Kenya" British Journal of Mathematica and computer science Vol 12(2)1-28,2016, with Ngari C.G and Koske J.K.
170. "Numerical Simulation of the Deterministic Model of the Under-Five Year's Pneumonia in Kenya". Asian Journal of Mathematics and Computer Research, Vol. 8(3),pp260-271, 2016, with Ngari C.G and Koske J.K.
171. "Evaluating the Utility of Mid-infrared spectral subspace for predicting soil Properties" chemometrics and intelligent laboratory systems (ELSEVIER) 153 92-105 2016 with Sila A.M and Shepherd K.D.
172. "A Mathematical Model for the transmission of endemic Malaria under periodically varying climatic conditions": Asian Journal of Mathematics and Computer Research 16(2) pp113-128, 2017, with Ndungu, R.M. and Simwa, R.O.
173. "Evaluating regression-kriging for mid-infrared spectroscopy prediction of soil properties in western Kenya": Geoderma Regional, 10 (2017), 39-47, with Sila A.M and Shepherd K.D.
174. "A Study of W_8 -Curvature Tensor in Sasakian Manifold": Pioneer Journal of Mathematics and Mathematical Sciences; Vol. 20, No. 1 (2017) pp 1-11, with P.W. Njori and S.K. Moindi.
175. "A Study of W_8 -Curvature Tensor in LP-Sasakian Manifold": Pioneer Journal of Mathematics and Mathematical Sciences; Vol. 19, No. 2 (2017) pp 65-75, with P.W. Njori and S.K. Moindi.
176. "On Local Linear Regression Estimation in Sampling Surveys": Far East Journal of Theoretical Statistics; Vol. 53, No. 5, (2017), pp291-311, with CB Kikechi and RO Simwa.
177. "Influence of Top Management Team Demographic on the Performance of Public Institutions in Africa- The Kenyan Perspective"; DBA Africa Management Review; Vol. 7, No.3 (2017). with Bwire, Awino and Kitiabi.
178. "Continuity of functions on function spaces defined on bi-topological Spaces" ; Journal o Advanced Studies in Topology 8:2 (2017) 130-134., with Muturi and Khalaghai.
179. "Firm-Level Strategy and Performance of Food and Beverage Manufacturing Companies in Kernya" DBA Africa Management Review; July, 2017 Vol.7 No.2, pp185-197, with Muteshi, Awino and Kitiabi.
180. "Ricci Soliton on trans- Sasakian manifold: Differential Geometry- Dynamical systems, Vol.20, (2018), pp138-158, with Yadav and Chaubey.

181. "Splitting and Admissible Topologies Defined on the Set of Continuous Functions Between Bitopological Spaces"; International Jour of Mathematical Archive-9(1), 2018, 65-68., with Muturi and Khalagai,
182. "Firm-Level Strategy, Capabilities and Performance of Food and Beverage Manufacturing Companies in Kenya"; International Review of Business Research Papers; Vol.14, No.1, March 2018 Issue, pp19-29., with Muteshi, Awino and Kitiabi.
183. "Firm Level Strategy, Organization Culture and Performance of Food and Beverage Manufacturing Firms in Kenya"; International Journal of Business and Management; Vol.13, No.8; 2018; pp224-235., with Awino, Muteshi and Kitiabi.
184. "On Local Linear Regression Estimation of Finite Population Totals in Model Based Surveys"; American Journal of Theoretical and Applied Statistics"; 2018, 7(3); pp92-101; with Kikechi and Simwa.
185. "A Study of W5-Symmertic K-Contact Riemannian Manifold"; International Journal of Trend in Research and Development, Vol.5(3) (2018); with Moindi and Njui.
186. "Corporate Governance, Strategic Choices and Performance of Financial Institutions in Kenya"; International Journal of Business and Management,13(7), 169-178, (2018); with Kamau, Aosa and Machuki.
187. "Competitive Repertoire Complexity: A Potential Mediator in the Upper Echelons Propositions"; International Journal of Business and Management; 13(10), 83-95 (2018); with Mwangi, Awino and Ogollah.
188. "Does Organizational Structure Moderates the Relationship Between Strategic Planning and competitive Advantage?"; International Journal of Business and Management, 14(5), pp141-153(2018), with Maingi, Awino and Kobonyo.
189. "Study of $N(k)$ -Quasi Einstein Manifold ", Communicated, with Chaubey.
190. "The Role of Employee and behaviour and Organizational Structure in the Relationship Between Strategic Planning and Competitive Advantage of Large Manufacturing Firms in Kdenya"; Journal of Management and Strategy; Vol.10, No.5, (2019), pp1-14., with Maingi, Awino and Kobonyo.
191. "Interventions, Beneficiary Poverty Reduction by Faith Based Enterprises within The Slums of Nairobi, Kenya: International Journal of Innovative Research and Knowledge; Vol.4, Issue-6, June 2019, pp1-12, with Nyungu, Ndemo and Gathungu.
192. "The Mediation Effect of Entrepreneurial Orientation on Relationship Between Interventions and Beneficiary Poverty Reduction by Faith Based Enterprises Within Slums in Nairobi City County, Kenya"; International Journal of Creative Research and Studies; Vol.3, Issue-6, June 2019, pp 1-10.,with Nyungu, Ndemo and Gathungu.
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194. "Reparameterization of vector error correction model from auto-regressive distributed lag to analyze the effect of microeconomic shocks on youth employment in Kenya"; (2019); 4(1), 05-17, with Sam, Manene and Kipchumba.
195. "Importance of moderating and intervening variables on the relationship between independent and dependent variables": International Journal of Statistics and Applied Mathematics; (2019); 4(5); 01-04.
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197. "Eta-Ricci soliton on Lorenzian Para Sasakian Manifolds"; International Journal of Statistics and Applied Mathematics; 2018: 5(3); 539-546. with Ruganzu,L.F.U; and Moindi, S.K.
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