

**S.D.M. COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD -2****Department of Mathematics****PUBLICATIONS IN REFEREED JOURNALS**

<b>Authors</b>	<b>Title</b>	<b>International / National</b>	<b>Name of the Journal</b>	<b>Volume/ Number</b>	<b>Page number</b>	<b>Year of publications</b>
Dr. Shailaja Shirkol	Hosoya polynomial of thorn trees, rods, rings and stars	International	Kragujevac Journal of Science.	28, (Serbia)	47 – 56.	2006
Dr. D. P.Basti	Effect of Surface roughness on squeeze film lubrication between curved annular plates	International	Industrial Lubrication and Tribology	59/4	178-185	2007
Dr. D.P.Basti	Surface roughness effects on squeeze film behavior in porous circular disks with Couple-stress fluid	International	Transport in Porous Media, Springer	71	185-197	2008
Dr. D. P.Basti	Roughness effects on squeeze film characteristics of porous circular plates lubricated with Couple-stress fluid	International	Journal of Porous Media ,Springer	12 /9	821-833	2009
Dr. Jenifer K	On Fuzzy b-open sets in Fuzzy Topological Spaces	National	National Journal of Computer and Mathematical Sciences.	1(2)	127-134	2010

Dr. Jenifer K	On Fuzzy $\beta$ -neighbourhood and Fuzzy $\beta$ -mappings in Fuzzy Topological Spaces	National	Journal of Computer and Mathematical Sciences	1(6)	696-701	2010
Dr. Jenifer K	Fuzzy $\beta$ -Compact and Fuzzy $\beta$ -closed Spaces	International	Journal of Computer	18 (3)	26-29	2011
Dr. Jenifer K	Fuzzy $\beta$ -continuous maps in Fuzzy topological spaces	International	Journal of Computer Applications,	19(1)	25-29	2011
Dr. Jenifer K	Weaker and Stronger forms of Fuzzy $\beta$ -irresolute maps	International	Journal of Mathematical Analysis,	5	1933-1941	2011
Dr. Jenifer K	On $\beta$ -closed sets and $\beta$ -separation Axioms in Fuzzy topological spaces	International	Mathematical Forum,	6	2547-2559	2011
Dr. D. P. Basti	Effect of Surface roughness on Magneto hydrodynamic squeeze film characteristic between finite rectangular plates	International	Tribology International, Elsevier	44	916 – 921	2011
Dr. D. P. Basti	Numerical solution of the MHD Reynolds equation for squeeze film lubrication between two parallel surfaces	International	Applied Mathematics and computation, Elsevier	218	9372-9382	2012
Dr. Jenifer K	Some New Irresolute and Closed Maps in Fuzzy Topological Spaces”	International	Journal of Mathematical Analysis	6	1443 – 1452	2012

Dr. Jenifer K	Fuzzyb-Generalised Homeomorphism in Fuzzy Topological Spaces”,	International	Journal of Contemporary Mathematics	7	1295 – 1304	2012
Dr. Shailaja Shirkol	Terminal Hosoya polynomial of thorn graphs	International	Journal of Scientia Magn.	Vo. 9 No 3	37-42.	2013
Dr. Shailaja Shirkol	PBIB Designs and Association Scheme Arising from Minimum Total Dominating Sets of Non Square Lattice Graphs	International	Journal of Gen. Math.	Vol. 17, No. 2	91-102	2013
Dr. Shailaja Shirkol	Terminal Hosoya polynomial of Line graph	International	J. Discrete Mathematics, Hindawi Publishing	Volume 2013	1-4	2013
Dr. Shailaja Shirkol	Partially Balanced Incomplete Block Designs Arising from Minimum Total Dominating Sets in a Graphs	International	International Journal of Mathematics Research	Volume 5, Issue 1	119-126	2013
Dr. Shailaja Shirkol	Designs associated with minimum total dominating sets in Graphs	International	International J. of Math. Sci. &Engg. Appls	Vol. 7 No II	229-239.	2013
Dr. Shailaja Shirkol	Terminal Wiener index of Line graph	International	MATCH Commun. Math. Comput. Chem.	69	775-782.	2013
Dr. D. P.Basti	Finite element Method for the solution of elliptic Partial Differential Equations arising in Engineering applications	International	Research in Computer Science and information Technology.	2 (2)	2319-5116	2014
Dr. Shailaja Shirkol	Signed Roman domination number of generalized Petersen	International	International Journal of Science and	3	2319-7064	2014

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Dr. D. P.Basti	Finite Element and HaarWavelet Collocation method for the Numerical Solution of Parabolic Type Partial Differential Equations	International	Gwalior Academy of Mathematical Sciences	2	45-49	2015
Dr. Shailaja Shirkol	Relation between total domination number, energy of a graph and rank.	International	International Journal of Mathematical Archive	7(7)	9-13	2016
Dr. Shailaja Shirkol	On the Acharya Polynomial of a Graph.	National	Annals of Pure and Applied Mathematics	Vol. 11, No. 2,	117-121	2016
Prof. Basavaraj Hoogar	Series solutions of pantograph equations using wavelets	International	Open Journal of Applied and Theoretical Mathematics (OJATM)	Vol.2(4)	PP:505-518	2016
Prof. Basavaraj Hoogar	CAS wavelet based numerical method for the solution of volterra integral equations of second kind	International	Open Journal of Applied and Theoretical Mathematics (OJATM)	Vol.2(4)	PP:299-308	2016
Dr. D. P.Basti	Non-Newtonian fluid model for pressure-driven flow between porous and rough surfaces in journal bearing	International	Journal of Porous Media	20(10)	1-18	2017
Prof. Basavaraj Hoogar	Hermite Wavelet Based Method for the Numerical Solution of Linear and Nonlinear Delay Differential Equations	International	International Journal of Engineering, Science and Mathematics (IJMRA	Vol.6(8)	PP:71-79.	2017

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Prof. Basavaraj Hoogar	Laguerre Wavelet Based Galerkin Method for the Numerical Solution of Elliptic Problems	International	International Journal of Engineering, Science and Mathematics (IJMRA Publications Journal)	Vol.6(8)	PP: 80-86.	2017
Dr. Shailaja Shirkol	Graphene based electrode materials for super capacitors applications.	International	International Journal of Advance and innovative research	Vol. 5 (4)	7-16,	2018
Dr. Shailaja Shirkol	Multi Disemigraph Poset		Journal of Advances in Mathematics,	27, (2)	1-14	2018.
Dr. Shailaja Shirkol	Degree Based topological indices of Pentachains	International	IOSR Journal of Mathematics	Vol 14.(4)	26-37	2018
Dr. Shailaja Shirkol	On the Acharya index for characterization of chemical graphs	National	SDMCET Technical Journal	Vol. 1, Issue 2	13-22	2018
Prof. Basavaraj Hoogar	Hermite Wavelet Based Numerical Method for the Solution of Second Order Delay Differential Equations	International	Mathematical Sciences International Research Journal (IMRF Publications),	Vol.7 (2)	PP:82-89	2018
Dr. D. P. Basti and Shrikant.K	Effect of Couple Stresses on the characteristics of Squeeze Film Lubrication between Curved circular Plates	International	Advance and Innovative Research	6(2)	145-152	2019
Jenifer Karnel	On fuzzy strongly generalised b-closed sets in fuzzy topological	International	Advance and Innovative Research	6(2)	94-98	2019

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Jenifer Karnel & Varsha Joshi	New forms of irresolute maps in fuzzy topology	International	Advance and Innovative Research	6(2)	161-164	2019
Jenifer Karnel & Varsha Joshi	Regular generalized fuzzy b-closed set	International	Journal of Emerging Technologies and innovative Research	6(6)	85-86	2019
Dr. Shailaja Shirkol	QSPR Analysis of certain Distance Based Topological Indices	International	Journal of Applied Mathematics and Nonlinear Sciences	4 (2)	371-386	2019
Dr. Shailaja Shirkol	On Square degree distance of Mycielskian Graphs	International	International Journal of Technical Research in Engineering	Vol. 4. (1),		2019
Prof. Basavaraj Hoogar	Laguerre Wavelet Based Series Solution for Solving Neutral Delay Differential Equations	International	International Journal of Advance and Innovative Research	Vol.6 (2)	PP:40-44	2019
Prof. Basavaraj Hoogar	Numerical Solution of Partial Differential Equations using Laguerre Wavelets Collocation Method	International	International Journal of Management, Technology and Engineering	Vol.9(1)	PP: 3635-3639.	2019
Prof. Basavaraj Hoogar	Laguerre Wavelet Based Numerical Method for the Solution of third order Nonlinear Delay Differential Equations with damping	International	International Journal of Management, Technology and Engineering	Vol.9(1)	PP: 3640-3647.	2019