

List of Research Publications
P.K. Roy Memorial College, Dhanbad

Dr. B. K. Sinha (Principal), PKRM College

S.N.	Year of publication	Name of the Article	Name of the Journal/Book
1	2016	Functions of soil arthropods in reclaimed mine spoil ecosystem: A case study of the Kathara coalfield area of Jharkhand, India	Entomological Society of India
2	2015	Impact of Alien Species on the Diversity of Soil Arthropods of Birsa Munda Biological Park, Ranchi, Jharkhand, India Anupama Singh & B K Sinha	<i>Proc. Zool. Soc. India.</i> Vol. 14(2): 1-13
3	2014	Biodiversity of Soil Arthropods of Bhagwan Birsa Zoological Park, Ranchi Jharkhand Anupama Singh, Amita Hembrom & Braj Kishore Sinha	<i>Asian J. Exp. Sci.</i> , Vol. 28, No. 1, 53-60
4	2013	Barriers to Breast Cancer Screening in Young Indian Women: A tale of two cities Vidyarthi, A. Soumya, A. Choudhary, S. & Sinha, B K	<i>Asian J. Exp. Sci.</i> , Vol. 27, No. 2, 29-35.
5	2012	A Report on Butterfly Diversity of Reclaimed OBDs of Kathara Coalmine Area of Jharkhand. Hembrom, A and Sinha, B K	<i>Asian J. Exp. Sci.</i> , Vol. 26, No. 2, 53-60.
6	2010	Meso-arthropods of Euedaphon and Hemidaphon of Reclaimed Mine Spoils of Kathara Coalmine Area of Jharkhand, India Sinha, B. K. and Hembrom Amita	In: Kulkarni, Pandey, B.N. and Datta, N.C., editors. <i>Bioresources for Rural Livelihood: Volume-III</i> , Pages 235-247, Narendra Publishing House, Delhi-110006
7	2010	Mitigating global warming by improving terrestrial biotic carbon flux. Sinha, B. K., Hembrom A, Mahto M, and Choudhary S.	In: Gikes R J, Prakongkep N, editors. <i>Proceedings of the 19th World Congress of Soil Science; Soil Solutions for a Changing World</i> ; ISBN 978-0-646-53783-2; Published on DVD; http://www.iuss.org ; Symposium 4.3.1; Impacts off land-use changes in (unsustainable) ecosystems;

			2010 Aug 1-6, Brisbane, Australia: IUSS; 2010 , pp. 63-66.
8	2009	Pedosphere food chain and position of spiders (Araneae): A Case Study of Mine Spoils of Kathara Coalmine Area (Jharkhand). Sinha, B.K., Hembrom, A. and Mahto, M	<i>Asian J. Exp. Sci.</i> , Vol. 23, No. 3,559-566.
9	2009	Pedosphere drivers for succession in a Derelict ecosystem. Sinha, B.K., Hembrom, A.; Mahto, M, and Pandey, P.N.	<i>Proc. Zool. Soc. India.</i> Vol. 8(1): 1-10
10	2009	Derelict pedosphere ecosystem and soil arthropods: A Case Study of Bermo Coalfield Area of Jharkhand. Sinha, B.K., Hembrom, A., Mahto, M; and Pandey, P.N. and Prasad, D.K.	<i>New Frontiers of Zoology</i> , Pandey B.N. (Eds.). Pp 313-330.
11	2009	Habitat suitability of soil insects: A Case Study of forest Floor of Jharkhand. Mahto, M., Hembrom, A., Sinha, B.K. and Choudhary, K.	<i>In: Environment and Society.</i> Trivedi A., Jaiswal, K., Trivedi, S. P. and Pandey, B. N. (Eds). Pp 172-180. APH Publishing Corporation. New Delhi.
12	2009	Role of Hymenoptera Diversity in Restoration of Derelict Pedosphere Ecosystem. Hembrom , A., Mahto, M., Sinha , B.K. and Choudhary, K.	<i>In: Environmental Monitoring and Management.</i> Trivedi, A., Jaiswal, K., Pandey, B. N. & Trivedi, S. P. (Eds). Pp 68-80. Alpha Publications. New Delhi.
13	2008	Population Growth, Pollution and Biodiversity Loss: Footprints and Milestones	In B K Sinha & Shriti Choudhary (eds) <i>Environment, pollution & Health Hazards</i> . APH Publishing Corporation , New Delhi
14	2007	Biodiversity Loss and Sustainable Development	<i>Jharkhand Journal of Development and Management Studies</i> . Vol. 5 No.1
15	2006	Bioavailability of contaminants and Quality of Life	<i>Jharkhand Journal of Development and Management Studies</i> . Vol. 4 No.4
16	2006	Ecological Niche Modeling for a Forest Floor Ecosystem	In BN Pandey and G K Kulkarni (Eds.) <i>Biodiversity and Environment.</i> APH Publishing Corporation , New Delhi
17	2005	The Role of Soil Insect Biodiversity in	In BN Pandey and M K Jyoti

		Soil Fertility: A case study of Dry Deciduous Forest of Jharkhand, India	(Eds.) <i>Ecology and Environment</i> . APH Publishing Corporation , New Delhi
18	2004	Soil Insect Biodiversity and its Role in Nutrient Dynamics: A case Study of Taimara Ghat	<i>Ranchi University Journal of Science and Technology (RUJOST)</i> Vo.1 No. 1
19	2003	Biodiversity and its Economics: A Case Study of Ranchi Urban Agglomeration	<i>Jharkhand Journal of Development and Management Studies</i> . Vol. 1 No.3
20	1999	Mysteries of Ozone Layer: Causes, Effects and Prevention of Depletion	In Umapati Sahay & L N Bhagat (Eds.) <i>Environmental Crisis and Protective Measures</i> . JLN College, Chakradharpur.
21	1999	Loss of Biodiversity and Chotanagpur	In Umapati Sahay & L N Bhagat (Eds.) <i>Environmental Crisis and Protective Measures</i> . JLN College, Chakradharpur
22	1999	A Concern for Wildlife	In Umapati Sahay & L N Bhagat (Eds.) <i>Environmental Crisis and Protective Measures</i> . JLN College, Chakradharpur
23	1997	Prakritik Sansadhan Bebastha Parristhitikiya Krishi Ki Dharna	SRI, BARIATU & Deptt. of Waste Land Development Ministry of Rural Areas And Employment

Dr. Sayantan Sil, Department of Physics:

Sl.No.	Year	Paper Title	Journal Name	Web link /DOI
1.	2015	Exact solution of second grade fluid in a rotating frame through porous media using hodograph transformation method	Journal of Applied Mathematics and Physics, 3(11)	10.4236/jamp.2015.311172
2.	2015	Inverse solutions for Unsteady Second Grade Aligned MHD Fluid Flow Through Porous Media	Bulletin of Calcutta Mathematical Society, 107(2)	https://drive.google.com/file/d/1dHKOZXFaqJJexxMY2QQNj79dIVVEXTXAv/view?usp=sharing
3.	2016	An Exact Solution of Steady Plane Rotating Aligned MHD Flows using Martin's Method in Magnetograph Plane	Journal of Mathematical Sciences, 3	https://drive.google.com/file/d/1xMCoOBhdN1k14LLptQVFUSvIT0V7UPZ5/

				view?usp=sharing
4.	2018	Rotating MHD flow: An exact solution by hodograph transformation	Bulletin of Pure & Applied Sciences-Physics, 37(2)	https://www.bpasjournals.com/admin/upload/dynamic2/8-BPAS-D-45-2018%20P88-107.pdf
5.	2018	Solution of constantly inclined rotating two phase Magnetohydrodynamic flows through porous media	International Journal of Mathematical Archive-9 (3), 2018, 225-231 Available online through www.ijma.info ISSN 2229-5046	https://www.researchgate.net/publication/332604946_SOLUTION_OF_CONSTANTLY_INCLINED_ROTATING_TWO_PHASE_MAGNETOHYDRODYNAMIC_FLOWS_THROUGH_POROUS_MEDIA
6.	2018	A class of exact solutions of MHD fluid through porous media with variable permeability using inverse method	Bulletin of Calcutta Mathematical Society, 110(4)	https://drive.google.com/file/d/1WD-NDvFwT858YAnTnGa80jgZVuX1fiX/view?usp=sharing
7.	2019	Plane Micropolar Fluid Through a Porous Medium: Exact Solution by Hodograph Transformation	International Journal of Applied Engineering Research, 14 (12)	https://www.ripublication.com/ijaer19/ijaerv14n12_05.pdf

Dr.Sagar Ku Swain, Dept of Geology:

Sl.No.	Year	Paper Title	Journal Name	Web link /DOI
1.	2015	Isotope (C and O) composition of auriferous quartz-carbonate veins, central lode system, Gadag Gold Field, Dharwar Craton, India: Implications to source of ore fluids Swain. S.K., Sarangi. S., Sarkar. A., Bhattacharya. S., Srinivasan. R., Patel, S.C., Pasayat. R.M., Sawkar. R. H.,	Ore Geology Reviews, 70, pp. 305-320. (Impact factor- 3.9).	https://doi.org/10.1016/j.oregeorev.2015.03.020
2.	2018	Stable Isotope (C-O-S) and geochemical studies of auriferous quartz-carbonate veins, Neoproterozoic Ajjanahalli and Gadag Gold Field, Chitradurga Schist Belt,	Ore Geology Reviews, 95, pp. 456-479. (Impact factor- 3.9)	https://doi.org/10.1016/j.oregeorev.2018.03.005

		Dharwar Craton, South India: evidences for mantle origin of gold mineralizing fluids Swain. S.K., Sarangi. S., Srinivasan. R., Sarkar. A., Mazumdar A., Satyanarayana S.,		
3.	2019	Fractal dimension and its translation into a model of gold spatial proxy Swain, S.K., Roy, P. N. S., Mukherjee, B., Sawkar, R. H.,	Ore Geology Reviews, 110, pp. 1-10 (Impact factor- 3.9).	https://doi.org/10.1016/j.oregeorev.2019.102935

Dr. D. K. Singh, Dept. of Physics:

S. N.	Year of publication	Name of the Article	Name of the Journal/Book
1	2012	D. K. Singh, J. R. Davies, G. Sarri, F. Fiuza, and L.O. Silva "Dynamics of intense laser propagation in underdense plasma: Polarization dependence" Physics of Plasmas	19, 073111 © 2012 American Institute of Physics
2	2010	G. Sarri, D. K. Singh, J. R. Davies et al. "Observation of post-soliton expansion following laser propagation through an underdense plasma	105, 175007 . © 2010 American Physics Society
3	2010	D.K. Singh and H.K. Malik, " Effect of Trapped Electrons on Soliton Energy in an inhomogeneous Magnetized Multicomponent Plasma' J	Journal of Physics: Conference Series (2010) 208, 012054 © 2010 IOP Publishing Ltd UK
4	2009	H.K. Malik, D.K. Singh, and Y. Nishida "On reflection of solitary waves in a magnetized multicomponent plasma with nonisothermal electrons"	Physics of Plasmas (2009) 16, 072112. © 2009 American Institute of Physics
5	2009	D. K. Singh and H. K. Malik, "Slow wave solitons in a multicomponent magnetized inhomogenous plasma with nonisothermal electrons,"	2009 IEEE International Conference on Plasma Science - doi: 10.1109/PLASMA.2009.5227248. © 2008 IEE
6	2008	D.K. Singh and H.K. Malik, "Solitons in Inhomogeneous Magnetized Negative Ion containing Plasma with Two Temperature Nonisothermal Electrons"	" IEEE Transactions on Plasma Science (2008) 36, 462. © 2008 IEEE
7	2008	H.K. Malik, K.P. Singh, S. Kawata, U. Stroth, D.K. Singh, V.K. Jain, Y. Nishida, and Y.Nejoh "Reflection of Solitons at Critical Density of Negative Ions: Contribution of	IEEE Transactions on Plasma Science (2008) 36, 738. © 2008 IEEE

		Thermal and Gyrotory Motions of Ions”	
8	2007	D.K. Singh and H.K. Malik, "Studies on Soliton Energy at Critical and Noncritical Density of Negative Ions in an Inhomogeneous Magnetized Warm Plasma"	Physics of Plasmas (2007) 14, 112103. © 2007 American Institute of Phys
9	2007	D.K. Singh and H.K. Malik, "Reflection of Nonlinear Solitary Waves (mKdV Solitons) at Critical Density of Negative Ions in a Magnetized Cold Plasma"	Plasma Physics and Controlled Fusion (2007) 49, 1551. © 2007 IOP Publishing Ltd UK
10	2007	D.K. Singh and H.K. Malik, "mKdV Soliton Evolution at Critical Density of Negative Ions in an Inhomogeneous Magnetized Cold Plasma"	" Physics of Plasmas (2007), 14, 062113. © 2007 American Institute of Physics
11	2006	D.K. Singh and H.K. Malik, "Soliton Reflection in a Negative Ion containing Plasma: Effect of Magnetic Field and Ion Temperature	Physics of Plasmas, (2006), 13, 082104. © 2006 American Institute of Physics

Dr. TRIVENI KUMAR MAHTO, Dept of Chemistry:

S. N.	Year of Publication	Topic of Research Paper	Name of Journal
1	2014	Citric acid functionalized magnetic ferrite nanoparticles for photocatalytic degradation of azo dye Triveni Kumar Mahto, Anurag Roy, Banalata sahu, Sumanta kumar Sahu.	Journal of Nanoscience and Nanotechnology , 2014, 14, 1.
2	2014	Polyaniline-functionalized magnetic nanoparticles for the removal of toxic dye from wastewater. Triveni Kumar Mahto, Angshuman Ray Chowdhuri Sumanta Kumar Sahu.	Journal of Applied Polymer Science , 2014, 131, 40840.
3	<u>2016</u>	Polyaniline functionalized magnetic mesoporous nanocomposite: a smart material for the immobilization of lipase. Triveni Kumar Mahto, Angshuman Ray Chowdhuri, Banalata Sahoo, Sumanta Kumar Sahu.	Polymer Composites , 2016, 37, 1152.
4	<u>2015</u>	Kinetic and thermodynamic study of polyaniline functionalized magnetic mesoporous silica for magnetic field guided dye adsorption. Triveni Kumar Mahto, Soumen Chandra, Chanchal Haldar, Sumanta kumar Sahu.	RSC Advances , 2015, 5, 47909.
5	<u>2015</u>	Hydroxyapatite conjugated graphene oxide nanocomposite: A new sight for significant	RSC Advances , 2015, 5,

		application in adsorption. Triveni Kumar Mahto , Subhas Chandra Pandey, Soumen Chandra, Amit Kumar, Sumanta Kumar Sahu.	96313.
6	<u>2016</u>	Single step synthesis of sulfonic group functionalized Graphene oxide: A promising carbo-nano materials for energy application. Triveni Kumar Mahto , Rajat Jain, Soumen Chandra, Dhrubojyoti Roy, Vikas Mahto, Sumanta kumar Sahu.	Journal of Environmental Chemical Engineering , 2016, 4, 2933.
7	<u>2014</u>	Study of the effect of xanthan gum based graft copolymer on water based drilling fluid. Rajat Jain, Vikas Mahto, Triveni K. Mahto .	Journal of Macromolecular Science, Part A: Pure and Applied Chemistry , 2014, 51, 976.
8	<u>2015</u>	Study the effect of synthesized graft copolymer on the inhibitive water based drilling fluid system. Rajat Jain, Bhola Kumar Paswan, Triveni Kumar Mahto , Vikas Mahto.	Egyptian Journal of Petroleum , 2015.
9	<u>2016</u>	Rheological investigations of water based drilling fluid system developed using synthesized nanocomposite.	Rajat Jain, Triveni K. Mahto , Vikas Mahto.
10	<u>2016</u>	One-step synthesis of amikacin modified fluorescent carbon dots for the detection of Gram-negative bacteria like Escherichia coli. Soumen Chandra, Angshuman Ray Chowdhuri, Triveni Kumar Mahto , Arpita Samui, Sumanta kumar Sahu,	RSC Advances , 2016, 6, 72471.
11	<u>2016</u>	Nanostructured Fe ₃ O ₄ @Fe ₂ O ₃ /carbon dots heterojunction for efficient photocatalyst under visible light. Soumen Chandra, Angshuman Ray Chowdhuri, Triveni Kumar Mahto , Sumanta kumar Sahu.	Journal of Nanoscience and Nanotechnology , 2016, 16, 1.
12	<u>2016</u>	Fabrication of a magnetic nanoparticle embedded NH ₂ -MIL-88B MOF hybrid for highly efficient covalent immobilization of lipase. Arpita Samui, Angshuman Ray Chowdhuri, Triveni Kumar Mahto , Sumanta Kumar Sahu,	RSC Advances , 2016, 6, 66385.
13	<u>2017</u>	Sulphur and nitrogen doped carbon dots: A facile synthetic strategy for multicolour bioimaging, tiopronin sensing, and Hg ²⁺ ion detection S Chandra, AR Chowdhuri, Triveni Kumar Mahto , D Laha, S K Sahu.	Nano structures and nano objects , 2017, 12, 10
14	<u>2018</u>	Fabrication of a hierarchical TiO ₂ microsphere/carbon dots photocatalyst for oxygen evolution and dye degradation under visible light. Soumen Chandra, K Majee, Triveni Kumar Mahto, S K Padhi, S K Sahu	Journal of Nanoscience and Nanotechnology DOI: 10.1166/jnn 2018.14203

15	<u>2017</u>	Fabricatio One step synthesis of functionalized carbon dots for the ultrasensitive detection of of Escherichia coli and iron (III). S. Chandra, Triveni Kumar Mahto, A R Chowdhury, B Das, S Kumar Sahu,	Sensor and Actuators B: Chemical , 2017, 245, 835
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Dr. Gagan Kumar Pathak, Dept of English:

Sl.No.	Year	Paper Title	Journal Name
1.	<u>2014</u>	The Poetic achievements of Toru Dutt.	Sundaries- Research mechanism , (An International Journal); Vol. 1, No. 3(2014), 34-38. ISSN No- 2348- 6570
2.	<u>2015</u>	“Rabindranath Tagore as a dramatist”	An Interdisciplinary Innovative Scientific research journal, Vol-01, 2015, 24-29. ISSN No- 23947071
3.	<u>2015</u>	“Romantic tradition and Shelley”	Sahitya Angan, Vol-01(1), 2015, 133-139. ISSN No- 23944889
4.	<u>2015</u>	“Kamala Markandaya’s art of fiction.”	Sahitya Angan, Vol.1(2), 2015. 185-193. ISSN N0- 23944889
5.	<u>2016</u>	“Indian short stories; Independence and after”	Sahitya Angan, Volume- 02(3), 2016, 43-47. ISSN N0- 23944889
6.	<u>2016</u>	“A critical study of post independence Indian English poetry”	Sahitya Angan, Vol-02(4) , 2016, 92-97. ISSN N0- 23944889

Dr. Binod Ram, Dept of Philosophy:

Sl.No.	Year	Paper Title	Journal Name
1.	2014	Aadi Shree Guru Granth Shahib Avan Upanishad Mein Guru Ki Avadharana	Vedantika Annual Resarch Journal, Ranchi, ISSN No. 2395-5813

2.	2017	Baudh Darshan Ke Yogachar Vigyanvada Mein Chit Ka Svarup	Anusilana Quarterly Research Journal, B.H.U., Varanasi, ISSN No.-0973-8762, UGC Journal No.-49319.
3.	2017	Baudh Mat Mein Nirvana Ki Avadharna	Pariprekshya Quarterly Resedarch Journal, Department of Philosophy, J.N. College, Ranchi, ISSN No.-2278-0602, UGC Journal No. 49272.
4.	2018	Mahayana Baudh Dharma Mein Pragya Parmita	Ak Naitik Vivechan - Printing Area Research Journal, Maharashta, ISSN No.-2394-5303.
5.	2018	Baudh Prampara Mein Dharma Ki Avadharna	Anusilana Quarterly Research Journal, B.H.U., Varanasi, ISSN No.-0973-8762, UGC Journal No.-49319.
6.	2018	Baudh Darshan Mein Pramanyavada Ka Darshanik Vishleshan	Abhidhayan, Referred Research Journal, Dean, Faculty of Humanities, Ranchi University, Ranchi. ISSN No.-2321-2691.
7.	2018	Yogachar Vigyanvada Ka Bharam Sambandhi Sidhanta	Printing Area Research Journal, Maharashta, ISSN No.-2394-5303.
8.	2018	Baudh Darshan Mein Karmavada Ka Svarup	Paripreksya Quarterly Research Journal, Department of Philosophy, J.N. College, Ranchi, ISSN No.-2278-0602, UGC Journal No. 49272
9.	2018	Baudh Darshan Ke Arya Astangik Marg Ki Sarvakalik Prasangikta	Anusilana Quarterly Research Journal, B.H.U., Varanasi, ISSN No.-0973-8772, UGC Journal No.-49319.

Dr. Nasim Ahmad, Dept. of Mathmatics:

Sl.No.	Year	Paper Title	Journal Name
1.	1985	The Effects Of Hall Current On MHD Couette Flow And Heat Transfer In A Rotating System	Indian Society of Theoretical & Applied Mechanics (ISTAM-IIT, New Delhi,Page:177-188

2.	1994	Effects Of Hall Current On Unsteady Hydromagnetic Couette Flow In A Rotating Channel	Proceeding of Mathematical Society, BHU, Varanasi, Vol. 10 (1994) Page:1– 10,
3.	1997	Effects Of Hall Current And Wall Conductance On Hydromagnetic Flow In A Rotating Channel	Mathematics & Statistics in Engineering and Technology 1997,Page : 79 – 84 Narosa Publication, New Delhi & London
4.	2003	Effects Of Hall Current And Inclination of Applied Magnetic Field On Hydromagnetic Free And Forced Convective Flow In A Rotating Channel	Advances in Mathematical, Statistical and Computational Method in Sciences and Technology Page:161-168,Pragati Prakashan, Meerut
5.	2003	Effects Of Hall Current On Hydromagnetic Free And Forced Convective Flow In A Rotating Channel	Advances Mathematical, Statistical and Computational Method in Sciences and Technology, Pragati Prakashan,Meerut Page: 141-152
6.	2008	Effect s of Hall current on Heat Transfer in a rotating channel flow with arbitrary conducting walls	Research Journal of Acta Ciencia Indica, Vol. xxxiv M. No.4, page : 1849-1854
7.	2009	Effect Of Hall Current On Steady MHD Couette Flow In A Rotating System	International Journal of Theoretical and Applied Mechanics, Volume – 4 NO. 9, Page : 1- 16
8.	2010	Symmetric Duality For Mathematical Programming In Complex Spaces With Higher Order F-Univexity	Research Journal of Applied Sciences Engineering And Technology Mechanics, Volume-3, NO. 4 Page :338 – 347