

List of Publications (Last five years)

Title of paper	Name of the author/s	Journal	Year of publication	Link to website of the Journal	Link to article/paper /abstract
On the thermodynamic properties and flow of different shapes of Nanoparticles in a Catheterized artery	Rekha Bali, Bhawini Prasad & Swati Mishra	IJTSRD	2022	http://www.ijtsrd.com/	https://www.researchgate.net/profile/Bhawini_Prasad2/publication/361039293_ijtsrd50159/links/6298f70f6886635d5cb86331/ijtsrd50159.pdf
A Review on Mathematical Models for nanoparticle delivery in the blood.	Rekha Bali, Bhawini Prasad & Swati Mishra	IJR	2022	http://www.journalijar.com/	https://www.journalijar.com/article/40626/a-review-on-mathematical-models-for-nanoparticle-delivery-in-the-blood/
Impact of Carbon dioxide emission caused by human activities on atmospheric temperature: A Mathematical Model	Shyam Sundar, Ashish Kumar Mishra, Ram Naresh and J.B.Shukla	Computational Ecology and Software	2022	http://www.iaees.org/publications/journals/ces/onlineversion.asp	http://www.iaees.org/publications/journals/ces/archives/1.pdf
Empirical research on sustainable developmental goals and priorities for water sustainability in Saudi Arabia	Rekha Bali ¹ , Sunil Kumar Sharma, Dinesh Kumar, Sameh S. Ahmed	Annals of Operations Research	2021	https://www.springer.com/journal/10479	https://link.springer.com/article/10.1007/s10479-021-04435-z
Improved water resource management framework for water sustainability and security	Sameh S. Ahmed, Rekha Bali, Hasim Khan, Hassan Ibrahim Mohamed, Sunil Kumar Sharma	Elsevier	2021	https://www.elsevier.com/en-in	https://www.sciencedirect.com/science/article/abs/pii/S013935121008215
Mathematical Modeling of Short Pulsed Laser Irradiation in the Cornea: A Dual Phase Lag Model	Ram Autar, Anuj Kumar	Journal of Applied Mathematics and	2021	https://amcm.pcz.pl/	https://yadda.icm.edu.pl/baztech/element/bwmeta1.element.baztech-6bf71fa5-322a-4590-aeb6-0d958edce8c2

		Computational Mechanics			
A Mathematical Model to study the COVID-19 Pandemic in India	Agraj Tripathi, Ram Naresh and Dileep Sharma	Modeling Earth Systems and Environment	2021 (In Press)	https://www.springer.com/journal/40808	https://link.springer.com/article/10.1007/s40808-021-01280-8
Modeling and analysis of the effects of gaseous pollutants and particulate matters on human health with control mechanisms,	Shyam Sundar, Niranjan Swaroop, Ram Naresh and J.B.Shukla,	Computational Ecology and Software	2021	http://www.iaees.org/publications/journals/ces/onlineversion.asp	https://www.academia.edu/download/68820220/gaseous_pollutants_and_particulate_matters_on_human_health.pdf
Stability analysis of a mathematical model for the abatement of methane: Effect of mitigation options,	Ashish Kumar Mishra, Shyam Sundar, Ram Naresh and J.B.Shukla,	Computational Ecology and Software	2021	http://www.iaees.org/publications/journals/ces/onlineversion.asp	https://www.academia.edu/download/67379274/stability_analysis_of_a_mathematical_model.pdf
Modeling the survival of human population in a stressed environment: Effect of global warming due to traffic emissions,	Shyam Sundar, Ram Naresh and Niranjan Swaroop,	International Journal of Big Data Mining for Global Warming,	2021	https://www.worldscientific.com/doi/abs/10.1142/S2630534821500017	https://www.worldscientific.com/doi/abs/10.1142/S2630534821500017
Analysis of a model for carrier dependent infectious diseases with sanitation as a control strategy,	Ram Naresh, Sandhya Rani Verma, J. B. Shukla and Manju Agarwal,	Computational Ecology and Software,	2021	http://www.iaees.org/publications/journals/ces/onlineversion.asp	http://www.iaees.org/publications/journals/ces/articles/2021-11(1)/model-for-carrier-dependent-infectious-diseases.pdf
Modeling the dynamics of methane emission from rice paddies and livestock populations and its effects on global warming: A comparison of model with data	Shyam Sundar, Ashish Kumar Mishra, Ram Naresh, J. B. Shukla	Computational Ecology and Software	2020	http://www.iaees.org/publications/journals/ces/onlineversion.asp	https://www.academia.edu/download/62347938/modeling-dynamics-of-methane-emission-from-rice-paddies2020312-30651-a0p6bf.pdf

Role of environmental factors on the spread of bacterial diseases: A modeling study	Sandhya Rani Verma, Ram Naresh, Manju Agarwal, Shyam Sundar	Computational Ecology and Software	2020	http://www.iaees.org/publications/journals/ces/articles/2020-10(2)/environmental-factors-on-spread-of-bacterial-diseases.pdf	http://www.iaees.org/publications/journals/ces/articles/2020-10(2)/environmental-factors-on-spread-of-bacterial-diseases.pdf
Modeling the effect of sanitation in a human habitat to control the spread of bacterial diseases	J.B.Shukla, Ram Naresh, Sandhya Rani Verma, Manju Agarwal	Modeling Earth Systems and Environment	2020	https://www.springer.com/journal/40808	https://link.springer.com/article/10.1007/s40808-019-00653-4
Mathematical modelling of the control of methane emissions caused by rice paddies and human activities: Effects of mitigation options	Shyam Sundar, Ashish Kumar Mishra, Ram Naresh, J. B. Shukla	World Journal of Modeling and Simulation,	2020	http://www.wjms.org.uk/	https://www.worldscientific.com/doi/abs/10.1142/S2630534820500035
Modeling the removal of two gaseous pollutants and a mixture of particulate matters formed by these gases in a rain system	Shyam Sundar, S. N. Mishra and Ram Naresh,	Journal of International Academy of Physical Sciences,	2020	http://www.iaps.org.in/journal/index.php/journaliaps/about	https://www.researchgate.net/publication/215546563_Modeling_the_Removal_of_Gaseous_Pollutants_and_Part particulate_Matters_from_the_Atmosphere_of_a_City_by_Rain_Effect_of_Cloud_Density
Mathematical Modeling and analysis of an HIV/AIDS model with treatment and time delay	Agraj Tripathi, Dileep Sharma, S. N. Mishra and Ram Naresh	Journal of International Academy of Physical Sciences,	2020	http://www.iaps.org.in/journal/index.php/journaliaps/about	http://www.iaps.org.in/journal/index.php/journaliaps/article/view/26
Numerical model on methane emissions from agriculture sector,	J.B. Shukla, Shyam Sundar, Ashish Kumar Mishra, & Ram Naresh	International Journal of Big Data Mining for Global Warming	2020	https://www.worldscientific.com/doi/abs/10.1142/S2630534820500035	https://www.worldscientific.com/doi/abs/10.1142/S2630534820500035
Modeling the effect of traffic pollutants on human population with a control strategy,	J.B.Shukla, Niranjana Swaroop, Shyam Sundar Ram Naresh,	Modeling Earth Systems and	2019	https://www.springer.com/journal/40808	https://link.springer.com/article/10.1007/s40808-020-00825-7

		Environment,			
Modeling the role of media awareness programs on the spread of HIV/AIDS	Agraj Tripathi and Ram Naresh	World Journal of Modeling and simulation	2019	http://www.wjms.org.uk/	https://www.researchgate.net/publication/333149163_Modeling_the_role_of_media_awareness_programs_on_the_spread_of_HIVAIDS
Modeling the impact of population density on carbon dioxide emission and its control: Effects of greenbelt plantation and seaweed cultivation,	Shyam Sundar, Ashish Kumar Mishra, Ram Naresh, J B Shukla	Modeling Earth Systems and Environment,	2019	https://www.springer.com/journal/40808	https://link.springer.com/article/10.1007/s40808-019-00570-6
Modeling and analysis of the population density dependent industrial emissions of toxic air pollutants and their control by external species sprayed in the atmosphere	Shyam Sundar, Niranjan Swaroop and Ram Naresh,	American Journal of Applied Mathematics and Statistics,	2019	http://www.sciepub.com/journal/ajams	http://article.sciappliedmathematics.com/pdf/ajams-7-2-3.pdf
Riemann Problem for Non-ideal Polytropic Magnetogasdynamic flow	Pooja Gupta, L.P Singh, R Singh	International Journal of Non-Linear Mechanics	2019	https://www.journals.elsevier.com/international-journal-of-non-linear-mechanics	https://www.sciencedirect.com/science/article/pii/S0020746218308114
Modeling the impact of biolarvicides on malaria transmission	Surabhi Pandey, Seema Nanda, Amit Vutha and Ram Naresh	Journal of Theoretical Biology	2018	https://www.journals.elsevier.com/journal-of-theoretical-biology	https://www.sciencedirect.com/science/article/pii/S0022519318302947
Modeling the impact of media awareness programs on mitigation of carbon dioxide emitted from automobiles	Shyam Sundar, Ashish Kumar Mishra and Ram Naresh	Modeling Earth Systems and Environment	2018	https://www.springer.com/journal/40808	https://link.springer.com/article/10.1007/s40808-017-0401-1

		nt			
Does unemployment induce crime in society? A mathematical study	Shyam Sundar, Agraj Tripathi and Ram Naresh	American Journal of Applied Mathematics and Statistics	2018	http://www.sciepub.com/journal/ajams	http://article.sciappliedmathematics.com/pdf/AJAMS-6-2-2.pdf
Study of Transport of Nanoparticles with K-L Model Through a Stenosed Microvessels	Rekha Bali, Nivedita Gupta	Applications and Applied Mathematics. An International Journal	2018	https://www.pvamu.edu/aam/	https://digitalcommons.pvamu.edu/aam/vol13/iss2/34/
Study of non-Newtonian fluid by K-L model through a non-symmetrical stenosed narrow artery	Rekha Bali, Nivedita Gupta	Applied Mathematics and computation,	2018	https://www.journals.elsevier.com/applied-mathematics-and-computation	https://dl.acm.org/doi/abs/10.1016/j.amc.2017.09.027
Numerical Solution of Ellis fluid model	Rekha Bali, Nivedita Gupta, and Swati Mishra	International Journal of Mathematics Archive	2017	http://www.ijma.info/	http://www.ijma.info/index.php/ijma/article/view/4879
Effect of automobiles on global warming: A modeling study,	Shyam Sundar, Ashish Kumar and Ram Naresh	Computational Ecology and Software	2017	http://www.iaees.org/publications/journals/ces/onlineversion.asp	https://www.academia.edu/download/62369863/effect-of-automobiles-on-global-warming20200314-83779-1fjyk1z.pdf
Modeling the effect of dust pollutants on plant biomass and their abatement from the near earth atmosphere	Shyam Sundar and Ram Naresh	Modeling Earth Systems and Environment	2017	https://www.springer.com/journal/40808	https://link.springer.com/article/10.1007/s40808-017-0302-3
Modeling the effect of population and population augmented industrialization on forestry resources	Shyam Sundar, Niranjan Swaroop and Ram Naresh	European Journal of Engineering Research and	2017	https://publons.com/journal/60530/european-journal-of-engineering-	https://www.researchgate.net/publication/314078154_Modeling_the_Effect_of_Population_and_Population_Augmented_Industrialization_on_Forestry_Resources

		Science		research-and-scienc/	
Approximation of Lipschitz function by $(E,q)(C,1)$ Summability method	Shyam Lal , Ramashray Singh Yadav	e- Journal of Science & Technology (e-jst)	2017	http://ejournals.uniwa.gr/index.php/ejst	https://search.ebscohost.com/login.aspx?direct=true&profile=ehost&scope=site&auth_type=crawler&jrnl=17905613&AN=125918264&h=%2B28BDqliaq%2Fbl6wkkNUgDnGjomf0d9qALTaAKI5V0%2BxGPJo5OQxG0aATGXiOkv%2B0wE%2BlwGJaWGTIP4ibWAslpA%3D%3D&crl=f
Mathematical Modeling of Exudative Retinal Detachment	Ram Autar, Swati Srivastava	Applied Mathematics,	2017	https://www.springer.com/journal/11766	https://www.scirp.org/journal/paperinformation.aspx?paperid=73790
Mathematical Analysis on Pulsatile Flow through a Catheterized Stenosed Artery.	Siddiqui S.U. and Awasthi, C.	Journal of Applied Mathematics and Physics	2017	https://publons.com/journal/21415/journal-of-applied-mathematics-and-physics/	https://www.scirp.org/journal/paperinformation.aspx?paperid=79385
Mathematical Modeling on Blood Flow through Stenosed Artery under the influence of Magnetic field,	S.U. Siddiqui, Chhama and Geeta	International Journal of Mathematics trends and Technology	2017	https://www.ijmtjournal.org/	http://www.ijmtjournal.org/2017/Volume-49/number-4/IJMTT-V49P535.pdf
Mathematical Modeling of Pulsatile Herschel Bulkley Fluid Flow through an Inclined Stenosed Artery with Body Acceleration and Slip,	S.U. Siddiqui, Chhama Awasthi	International Journal of Mathematical Archive	2017	http://www.ijma.info/	http://www.ijma.info/index.php/ijma/article/view/4941