

International Journal

1. **Jaiswal, S.N.**, Pandey, B.P., Mishra, N. et al., “External electric field impact on electronic properties of CO₂-adsorbed 2D MoSe₂ monolayer”, *Pramana – Journal of Physics*, vol.97, pp. 140 (2023). DOI: <https://doi.org/10.1007/s12043-023-02613-1> (**Impact Factor: 1.8**)
2. **Jaiswal, S.N.**, Pandey, B.P., “Impact of in-plane electric field on the optical properties of CO₂ adsorbed 2D MoSe₂ monolayer: application as a photodetector.” *Journal of Computational Electronics* (2024). DOI: <https://doi.org/10.1007/s10825-024-02233-x> (**Impact Factor: 2.2**)
3. **Jaiswal, S.N.**, Pandey, B.P., Mishra, N. et al., “Improved Gas Sensing Properties of Copper-Doped MoSe₂ Monolayers: A First-Principles Study on CO₂ and NO₂ Adsorption,” *Physica Scripta*, 1402-4896 (2024), DOI: <http://iopscience.iop.org/article/10.1088/1402-4896/ad8a03> (**Impact Factor: 2.6**)
4. **Jaiswal, S.N.**, Pandey, B.P., Mishra, N. *et al.* Study of catalytic behaviour for TM (Mn, Fe, Co, Cu, Ni, Zn)-doped MoSe₂ monolayer using first-principles DFT approach. *Indian Journal of Physics* (2026). DOI: <https://doi.org/10.1007/s12648-026-03971-3> ((**Impact Factor: 1.7**))

International Conferences/ Book Chapters

1. **Jaiswal, S.N.**, Pandey, B.P. (2026). Adsorption of CO₂ on Ta-Doped MoSe₂ Monolayer: A First-Principles Study. In: Kumar, D., Kumar, S. (eds) **VLSI, Microwave and Wireless Technologies. ICVMWT 2024**. Lecture Notes in Electrical Engineering, vol 1484. Springer, Singapore. DOI: https://doi.org/10.1007/978-981-95-2584-3_46
2. Gupta, S., Pandey, B.P., Kumar, D., **Jaiswal, S.N.** (2026). Analyzing Optical Characteristics of Monolayer MoSe₂ with Ta Doping Using DFT Method. In: Kumar, D., Kumar, S. (eds) **VLSI, Microwave and Wireless Technologies. ICVMWT 2024**. Lecture Notes in Electrical Engineering, vol 1484. Springer, Singapore. DOI: https://doi.org/10.1007/978-981-95-2584-3_68
3. G. K. Jaiswal, B. P. Pandey, R. K. Chauhan, N. Mishra, **S. N. Jaiswal** and S. Gupta, "Study and Analysis of NO₂ Gas Sensing Using PdDoped WS₂ Monolayer: A First-Principle Approach," *2025 International Conference on Electrical and Electronics Engineering (ICE3)*, Gorakhpur, India, 2025, pp. 1-6, DOI: doi: 10.1109/ICE367573.2025.11448810.

Dr. B.K. Srivastava

Publications:

1. “Generalized Sequence Spaces $c_0(X, \lambda, p)$, $c_0(X, \lambda, p)$, $c_0(X, \lambda, p)$ ”
J.K. Srivastava and B.K. Srivastava *Indian Journal of Pure and Applied Mathematics*, 27(1): 73–84, January 1996.
2. “Matrix Transformations Involving Certain Banach Space Valued Sequence Spaces”
J.K. Srivastava and B.K. Srivastava *Tamkang Journal of Mathematics*, Vol. 31, No. 2, Summer 2000, Republic of China.
3. “Generalized Sequence Spaces $c(X, \lambda, p)$, $c(X, \lambda, p)$, $c(X, \lambda, p)$, $l_\infty(X, \lambda, p)$, $l_\infty(X, \lambda, p)$, and $l(X, \lambda, p)$, $l(X, \lambda, p)$, $l(X, \lambda, p)$ ”
J.K. Srivastava and B.K. Srivastava (*Communicated for publication*)
4. “On the Banach Space Valued Function Spaces $A(X, V, \lambda, s)$, $A(X, V, \lambda, s)$, $A(X, V, \lambda, s)$ and $E(X, V, \lambda, s)$, $E(X, V, \lambda, s)$, $E(X, V, \lambda, s)$ ” (*Communicated for publication*)
5. Text Book: “Differential Equation & Laplace Transformation”
Chandra Publication, Gorakhpur, U.P. Authors: Dr. R.S. Sinha and Dr. B.K. Srivastava

Dr. Rajesh Kumar Mall

Publications: / International Journal

1. HALO AND PSEUDOHALO-DEMETALLATION IN TETRA AND PENTAORGANOMETAL AND METALLOIDS KIRAN SINGHAL*, SUBHAS KUMAR CHAUDHARY, RAJESH KUMAR MALL AND PREM RAJ Department of Chemistry, Lucknow University Lucknow-226007, India
international journal of science invention today(ISSN 2319-5436)
2. BIOLOGICAL ACTIVITY OF \dot{I} -OXY BIS (TRIPHENYLOORGANOANTIMONY)COMPOUNDS & DERIVATIVES
KIRAN SINGHAL, NEERAJ KUMAR VERMA* R K MALL
Department of Chemistry, Lucknow University, Lucknow – 226007, India
international journal of science invention today(ISSN 2319-5436)
3. Text Book: “ Applied Chemistry” Thakur publication pvt.Ltd., Lucknow,U.P.
Authors: Dr. Rajesh Kumar Mall

Dr. Shruti Singh

Publications:

1. Singh, S., Pandey, P., Pandey, A., and Shukla, N.K., *Self Assembled Monolayers and Carbon Nanotubes: a significant tools for modification of Electrode Surface*. Sensor Letters, 18, pp. 669–685 (2020). DOI: 10.1166/sl.2020.4280
2. Singh, S., Shukla, N.K., et al., *The untapped potential of microalgae: from biomolecule synthesis to bioenergy conversion*. Microalgal Biofuels, pp. 91–108 (2025). DOI: 10.1016/C2023-0-01293-6

Mr. Rahul Jaiswal

Publications:

1. "Finger print verification in biometric security system" International Journal of Electronics and Electrical Engineering, 301-305(2012) 5. By Rahul Jaiswal, A.G Rao,
2. "Image Enhancement Techniques Based on Histogram Equalization" International Journal of Advances in Electrical and Electronics Engineering,(IJAEED,ISSN No -2319-1112 Volume1 Number2, Page Number-69-78) By Rahul Jaiswal, A.G. Rao, H.P. Shukla
3. "Finger print Verification Using Minutiae Extraction Algorithms" National Conference on "Challenge &opportunities for Technological Innovation in India" Organized by Ambalika Institute of Management &Technology, Lucknow (U.P)
4. "Image Enhancement Techniques Based on Histogram Equalization" National Conference On "Recent Trends in communication system and Devices" Organized by Radha Govind Group of Institutions, Meerut(U.P)
5. "Design of Robust Control and H_{∞} Optimization" National Conference on "Recent Trend in Communication Systems and Devices"(NCRTCD-2012) 1-2 Sept.2012 Organized by Radha Govind Group of Institutions, Meerut(U.P)

Mr. Pawan Kumar Sen

Publications:

1. Performance Evaluation of AC-Motor Drives Through Matrix Converter – An Indirect Space Vector Modulation Approach. (ISSN: 2231-1963, Vol. 1, Issue 3, pp.145-161, IJAET).
2. Performance Investigation of SVPWM Voltage Source Inverter Fed Induction Motor Drive under Different Loading Condition. (RAEPESM2011, 25-26 March 2011, pp. 146-149).
3. Career Frequency Selection of Three Phase Matrix Converter. (ISSN: 2231- 1963, Vol. 1, Issue 3, pp.41-54, IJAET).
4. Transient Performance Investigation of Vector Controlled Z-Source Inverter Fed Induction Motor Drive. (Sunder Deep Engineering College Ghaziabad – Conference).
5. Comparative Study of Proportional-Integral and Proportional-IntegralDerivative (PI and PID) Controllers for Z-source Inverter-fed Induction Motor Drive. (ICPCES-conference 2012, MNIT ALLAHABD).
6. Analysis on Experimental Values of Bend Loss by OTDR. (IJETEE-ISSN: 2320-9569, VOL.-1, Issue-4, JUNE-2013).

Mr. Shyam Bihari Lal

Publications:

1. Fatigue Analysis of Connecting Rod using ANSYS Code, S.B. Lal, A. Tevatia and S.K. Srivastava, International Journal of Mechanics and Solids, ISSN: 0973-1881, vol. 5, n 2, pp. 143-150, 2010.
2. Finite Element Fatigue Analysis of Connecting Rods of Different Cross-Sections, A. Tevatia, S.B. Lal and .K. Srivastava, International Journal of Mechanics and Solids, ISSN: 0973-1881, vol. 6, n 1, pp. 45- 53, 2011.
3. Stress analysis and optimization of connecting rod using finite element analysis, Yogesh Kumar Bharti, Vikrant Singh, Afsar Hussain, Dipanshu Singh, Shyam Bihari Lal, Satish Kumar Dwivedi, International Journal of Scientific & Engineering Research, Volume 4, Issue 6, June-2013 1796 ISSN 2229-5518
4. Stress Analysis Of Connecting Rod Of Tractor With Weight Optimization, Yogesh Kumar Bharti Vikrant Singh, Dipanshu Singh, Afsar Hussain, Shyam Bihari Lal, Vineet Kumar Tripathi, International Journal of Engineering Research & Technology (IJERT) Vol. 2 Issue 4, April - 2013 ISSN: 2278-0181
5. Stress analysis spur gear design by using ansys workbench, Pradeep Kumar Singh, Manwendra Gautam , Gangasagar and Shyam Bihari Lal, International Journal Mechanical engineering and Robotics Research Vol. 3, No. 3, July 2014 ISSN 2278 – 0149
6. Design and Analysis of the Pressure Vessel, Sandeep Gond, Akhilesh, Anoop Singh, Vinod Sharma, Shyam Bihari Lal, International Journal of Scientific & Engineering Research, Volume 5, Issue 4, April 2014 ISSN 2229-5518
7. Finite Element Analysis of Disc Brake for Aluminium Alloys , Abhishek Kumar Tiwari, Akhilesh Kumar Tiwari, Pramod Yadav, Harigovind Singh Yadav, Shyam Bihari Lal, International Journal of Scientific & Engineering Research, Volume 5, Issue 4, April-2014 ISSN 2229-5518
8. FEA of the crankshafts Design by using Ansys workbench For nickel chrome steel and structural steel, Ashwani Kumar Singh, Praveen Kumar Singh, Akash Kumar Tripathi, Ajeet Yadav, Shyam Bihari Lal, International Journal of Scientific & Engineering Research, Volume 5, Issue 4, April-2014 ISSN 2229-5518
9. Stress Analysis Spur Gear Design By Using Ansys Workbench, Pradeep Kumar Singh, Manwendra Gautam, Gangasagar, Shyam Bihari Lal, International Journal of Scientific & Engineering Research, Volume 5, Issue 4, April-2014 ISSN 2229-5518
10. Finite Element Analysis Of Disc Brake By ANSYS Workbench, Abhishek Kumar Tiwari, Akhilesh Kumar Tiwari, Pramod Yadav, Harigovind Singh Yadav, Shyam Bihari Lal, IJREAT International Journal of research in Engineering & Advanced Technology, Volume 2, Issue 2, Apr-May, 2014 ISSN: 2320 – 8791
11. Stress Analysis Of Connecting Rod Using Finite Element Method, Digvijay, Mohd. Ahmad, Ajay Mishra, Karunakar Mishra, Alok Panday, Shyam Bihari Lal, IJREAT International Journal of Research in Engineering & Advanced Technology, Volume 2, Issue 2, Apr-May, 2014 ISSN: 2320 – 8791
12. FEA of Connecting Rod of Tractor of I and Ellipsoidal section and Weight Optimization, Vineet Kumar tripathi , Shyam Bihari Lal, National Conference on Challenges of Efficient Energy Technology for Clean Energy-21st Century at Eshan College of Engineering, Farah, Mathura during 23-24, May, 2013. ISBN No is 9789382880691
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Mr. Maneesh Singh

Publications:

1. **Maneesh Singh**, Prashant Saini, Divyanshi Srivastava, Srishti Mishra, Saif Nawaz Ahmad. Effect of *n*-pentanol with novel water hyacinth biodiesel-diesel ternary blends on diesel engine performance and emission characteristics. Vietnam Journal of Chemistry 2024;62(6):780-791. <https://doi.org/10.1002/vjch.202300383>
2. **Maneesh Singh**, Prashant Saini, Priyankesh Kumar. Production of Biodiesel from water hyacinth weed and testing of its blends on CI engine. YMER 2025;24(6):1877-1890. <https://doi:10.37896/YMER24.06/G0>
3. **Maneesh Singh**, Prashant Saini, Srishti Mishra. Novel study on implication of butanol oxygenated additive with water hyacinth biodiesel to investigate the performance and emission parameters. Accepted by Journal of Thermal Engineering on 20 November 2025. Manuscript ID: JTEN-2025-1037.
4. **Maneesh Singh**, Prashant Sainia, ChandrakantMishraa, Saif Nawaz Ahmada. Implication of SiO₂ nanoparticles with novel water hyacinth biodiesel-diesel blends to improve the performance and emission parameters of diesel engine. Accepted by Archives of thermodynamic on 03 December 2025. Manuscript ID: AOT-00847-2025-03.

Dr. Rajan Kumar Dubey

Publications:

1. A SIQRV Mathematical Model on Covid-19 Investigating the Combined Effect of Vaccination and Lockdown to Control the Spread of Covid-19. Rajan Kumar Dubey and Rajesh Pandey. IJFANS International Journal of Food and Nutritional Sciences. 2023 December; 12(5):2835-2850. doi: 10.48047/ijfans/v12/i1/292.
2. A SIQRV Mathematical Model on Covid-19 Investigating the Combined Effect of Vaccination and Lockdown to Control the Spread of Covid-19. Rajan Kumar Dubey and Rajesh Pandey. IJFANS International Journal of Food and Nutritional Sciences. 2023 December; 12(5):2835-2850. doi: 10.48047/ijfans/v12/i1/292.
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4. Modelling COVID-19 Dynamics with a Double Dose Vaccination Strategy in India and Its Potential Influence on the Emergence of Future Diseases. Jitendra Rajbhar, A.K. Jaiswal and Rajan Kumar Dubey. Tuijin Jishu/Journal of Propulsion Technology. 2024 July; 45(3):2089-2108. doi: <https://doi.org/10.52783/tjjpt.v45.i03.7106>.
5. An SIQVR Mathematical Model on COVID-19 with Virus Population in the Environment: A Case Study of India Jitendra Rajbhar, A.K. Jaiswal and Rajan Kumar Dubey. Tuijin Jishu/Journal of Propulsion Technology. 2024 April; 45(2): 6535-6547. doi: <https://doi.org/10.52783/tjjpt.v45.i03.7106>.
6. Impact of Micropolar Fluid Model for Blood Flow in Small Vessels. Arun kumar Pandey, Rajan Kumar Dubey and V.K.Chaubey. Impact of Micropolar Fluid Model for Blood Flow in Small Vessels. Kronika Journal. 2025 December; 25(12):377-388. doi: <https://doi.org/10.5281/zenodo.18034261>.
7. A mathematical model on COVID-19 studying the efficacy of testing to control the epidemic. Rajan Kumar Dubey, Rajesh Pandey and Jitendra Rajbhar Impact of Micropolar Fluid Model for Blood Flow in Small Vessels. Kronika Journal. 2025 December; 25(12):414-434. doi: <https://doi.org/10.5281/zenodo.18034261>.
8. The Future Scope of Artificial Intelligence: Opportunities, Challenges, and Impacts on Society Ujjawal Chaudhary and Rajan Kumar Dubey. Buddha Journal of Social Science and Technology (BJSST), Issue-1, Volume-1 (2025).

