

PROF. VIJAY SHARMA

Research Papers:

1. "Use of ZnO Nanoparticles in the degradation of Rhodamine B dye in waste water to save the environment".

International Journal on Emerging Technologies 11(4): 527-532.

Link to the article/paper

<https://www.researchtrend.net/ijet/pdf/77%20Use%20of%20ZnO%20Nanoparticles%20in%20the%20Degradation%20of%20Rhodamine%20B%20dye%20in%20Wastewater%20to%20Save%20the%20Environment%20SUNIL%20KUMAR.pdf>

2. "Synthesis, Characterization and Antimicrobial Activity of Novel Hydroxamic Acids of Pyrimidine- 5-Carboxylic Acid and their Complexes".

International Journal of Innovative Technology and Exploring Engineering 3(11): 40-43

Link to the article/paper

<https://www.ijitee.org/wp-content/uploads/papers/v3i11/K15850431114.pdf>

3. "Design of Controller for Chopper Fed DC Drive with Pulsating Load and Elastic Coupling Under Resonance".

International Journal of Current Engineering and Technology 4(4): 2450- 2457.

Link to the article/paper

<https://inpressco.com/design-of-controller-for-chopper-fed-dc-drive-with-pulsating-load-and-elastic-coupling-under-resonance/>

4. "Antimicrobial Activity of Newly Synthesized Hydroxamic Acid of Pyrimidin e-5-Carboxylic Acid and its Complexes with Cu(II), Ni(II), Co(II) and Zn(II) metal Ions".

Journal of Chemical and Pharmaceutical Research 6(5):925-930.

Link to the article/paper

<https://www.jocpr.com/articles/antimicrobial-activity-of-newly-synthesized-hydroxamic-acid-of-pyrimidine5carboxylic-acid-and-its-complexes-with-cu-ii-ni-ii.pdf>

5. Energy Transfer Studies in Binary Dye Solution Mixtures: Acriflavine+Rhodamine 6 GandAcriflavine + Rhodamine B".

Spectrochimica Acta 69(4):1257-1264.

Link to the article/paper

<https://pubmed.ncbi.nlm.nih.gov/17765006/>

6. "Estimation of Molecular Parameters in Laser Grade Dyes: Coumarin 450 and Coumarin 460".

Dyes and Pigments 76(2): 417-421.

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0143720806003858>

7. "Fluorescence Quenching of 3-Methyl 7-Hydroxyl Coumarinin Presence of Acetonem"

Spectrochimica Acta A 66(1):111-113.

Link to the article/paper

<https://ur.booksc.eu/book/3908702/1b8b3c>

8. "Optical Gain Characteristics of C 450 and C 460".

Spectrochimica Acta A 59(5): 1035-1043.

Link to the article/paper

<https://pubmed.ncbi.nlm.nih.gov/12633720/>

9. "Influence of Solvent and substituent on Excited State Characteristics of Coumarin Laser Dyes".
Spectrochimica Acta A 59(6):1161-1170.

Link to the article/paper

https://www.academia.edu/16897763/Influence_of_solvent_and_substituent_on_excited_state_characteristics_of_laser_grade_coumarin_dyes

10. "Excited State Characteristics of Acridine Dyes: Acriflavine and Acridine Orange".
Spectrochimica Acta A 59(8):1799-1804.

Link to the article/paper

<https://pubmed.ncbi.nlm.nih.gov/12736066/>

11. "Design, Fabrication and calibration of low cost thermopower measurement set up In low-mid temperature range"
Measurement 150.

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0263224119309200>

12. "Synthesis of ZnO/polyaniline Nanocomposite and its Application as Liquefied Petroleum Gas Sensor"
International journal of emerging technologies 11(5): 419-424.

Link to the article/paper

<https://www.researchtrend.net/ijet/pdf/60%20Synthesis%20of%20ZnOpolyaniline%20Nanocomposite%20and%20its%20Application%20as%20Liquefied%20Petroleum%20Gas%20Sensor.pdf>

13. "The Effect of Modifications of Activated Carbon Materials on the Capacitive Performance: Surface, Microstructure, and Wettability"
Journal of composites science 5(3): 66.

Link to the article/paper

<https://www.mdpi.com/2504-477X/5/3/66>

14. "Influence of Vanadium incorporated mesoporous silica on the decolorization of orange G under visible light irradiation"
Inorganic and Nano-Metal Chemistry

Link to the article/paper

<https://www.tandfonline.com/doi/abs/10.1080/24701556.2021.1980019#:~:text=Research%20Article-.Influence%20of%20Vanadium%20incorporated%20mesoporous%20silica%20on%20the%20Decolorization,G%20under%20visible%20light%20irradiation&text=Mesoporous%20MCM%20D41%20material%20was,by%20simple%20co%20precipitation%20method.>

15. "Thermoelectric properties of spark plasma sintered PbTe synthesized without any surfactant and organic solvent"
Materials Research Express 8: 1-12.

Link to the article/paper

<https://iopscience.iop.org/article/10.1088/2053-1591/ac0d2b/pdf>

16. "Solving the equivalent circuit of a planar heterojunction perovskite solar cell using Lambert W-function"
Solid state communication 337.

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S0038109821002337?via%3Dihub>

17. "Revisiting the thermoelectric properties of lead telluride"

Materials Today Energy 21.

Link to the article/paper

<https://www.sciencedirect.com/science/article/abs/pii/S2468606921000782>

18. “Thermoluminescence Characteristics of $K_2Ca_2(SO_4)_3$ Doped with Rare Earths Eu and Dy”.
Journal of Physics D Applied Physics 35(12):1330-1333.
19. “Physics of Modern Telecommunication”.
International Research journal Commerce Arts and Science, 2(2): 272-276.
20. “An Overview: Nanoscience”.
International Research journal of Management Science & Technology 3(1): 611-620.

BOOKS:

1. *Mechanics*.
Delhi: Apple Books, 2015
2. *Basic Concept on Calculus of Variations*.
Delhi.: Apple Books, 2015
3. *Engineering Physics Applied Physics-I*.
Delhi.: Apple Books, 2015
4. *Engineering Physics Applied Physics-II*.
Delhi.: Apple Books, 2015
5. *Trends in Physics/Quantum -2015*.
Delhi.: Apple Books, 2015
6. *Thermal Physics*.
Delhi : Abha Publicity, 2012
7. *Experimental Physics*.
Delhi: AbhaPublicity, 2012
8. *Teaching of Basic Science*.
Delhi: Abha Publicity, 2011