

Publications

1. Smriti Sharma, Sneha Lata Goyal, **Rishi Pal** and Nawal Kishore, Study of Electrical Properties of PANI/Zinc Nitrate Composites, *ISST Journal of Applied Physics* 8 (2017) 14.
2. **Rishi Pal**, Sneha Lata Goyal, Vinay Gupta and Ishpal Rawal, MnO₂-Magnetic Core-Shell Structured Polyaniline Dependent Enhanced EMI Shielding Effectiveness: A Study of VRH Conduction, *ChemistrySelect* 4 (2019) 9194-9210.
3. **Rishi Pal**, Sneha Lata Goyal and Smriti Sharma, Facial Synthesis of Polyaniline and its Nanocomposites for Room Temperature Methanol Sensors, *AIP Conference Proceedings* 2115 (2019) 030217.
4. Smriti Sharma, Sneha Lata Goyal and **Rishi Pal**, Study of DC Electrical Properties of Iron Oxide Doped Polyaniline, *AIP Conference Proceedings* 2142 (2019) 150002.
5. **Rishi Pal** and Sneha Lata Goyal, Polyaniline-Graphene Composite as Chemiresistor: A Theoretical Approach, *AIP Conference Proceedings* 2220 (2020) 080021.
6. **Rishi Pal**, Sneha Lata Goyal, Ishpal Rawal and Smriti Sharma, Efficient Room Temperature Methanol Sensors based on Polyaniline/Graphene Micro/Nanocomposites, *Iranian Polymer Journal* 29 (2020) 591-603.
7. **Rishi Pal**, Sneha Lata Goyal and Ishpal Rawal, High-Performance Solid State Supercapacitors based on Intrinsically Conducting Polyaniline/MWCNTs Composite Electrodes, *Journal of Polymer Research* 27 (2020) 179.
8. **Rishi Pal**, Sneha Lata Goyal and Ishpal Rawal, Transition of Charge Transport Phenomena from 3D to 1D Hopping at Low Temperature in PANI/Graphene Composites, *Journal of Applied Physics* 128 (2020) 175108.
9. **Rishi Pal**, Sneha Lata Goyal, Ishpal Rawal, Anil Kumar Gupta and Ruchi, Efficient Energy Storage Performance of Electrochemical Supercapacitors based on Polyaniline/Graphene Nanocomposite Electrodes, *Journal of Physics and Chemistry of Solids* 154 (2021) 110057.

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12. Ruchi, Vivek Gupta, **Rishi Pal** and Sneh Lata Goyal, Efficient Energy Storage Performance of Polyaniline based Supercapacitor, *AIP Conference Proceedings* 2369 (2021) 020051.
13. **Rishi Pal**, Sneh Lata Goyal, Ishpal Rawal and Anil Kumar Gupta, Tailoring of EMI shielding properties of polyaniline with MWCNTs embedment in X-band (8.2–12.4 GHz), *Journal of Physics and Chemistry of Solids* **169** (2022) 110867.
14. **Rishi Pal**, Sneh Lata Goyal and Ishpal Rawal Selective Methanol Sensors Based on Polyaniline/V₂O₅ Nanocomposites, *Iranian Polymer Journal* **31** (2022) 519-532.
15. **Rishi Pal**, Sneh Lata Goyal, Ishpal Rawal and Vivek Gupta, Dielectric Characteristics of Multiwall Carbon Nanotube-Filled Polyaniline, *Materials Chemistry and Physics* **297** (2023) 127428.
16. Manoj Kumar, Smriti Sharma, **Rishi Pal** (*Corresponding Author*), Bhavna Vidhani and Supreet, A Novel Gas Sensor based on Activated Charcoal and Polyaniline Composites for Selective Sensing of Methanol Vapors, *Sensors and Actuators A: Physical* **353** (2023) 114210.
17. Sumit Chauhan, Rajni Bala, Sanjay Gaur, Deepesh Sharma, Saroj Rani and **Rishi Pal**, Study of AC Conductivity and Dielectric Relaxation in Bi₂O₃ Modified Lithium Lead Silicate Glasses, *Applied Physics A* **129** (2023) 521.
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19. Manoj Kumar, Smriti Sharma, **Rishi Pal (Corresponding Author)**, Sumit Chauhan, Rajiv, Sanjeev Kumar and Supreet, Temperature Dependent Charge Transport Properties of Polyaniline/NiO Nanocomposite, *Materials Today: Proceedings* 2023.
20. Jyoti Gaur, Sanjeev Kumar, Mohinder Pal, Harpreet Kaur, Supreet, Rahul Badru, Johnson Momoh, **Rishi Pal**, Sunil Kumar, Bio-engineered, Phyto-decorated, Multi-form *P. betle*/ZnO as a Potential Photocatalytic Agent, *Advances in Natural Sciences: Nanoscience and Nanotechnology* **14** (2023) 035014.
21. **Rishi Pal**, Sneha Lata Goyal, Shashi Kala Gupta, MWCNTs embedded polyaniline-based composites for electrical applications, *RP Current Trends in Applied Sciences* **2** (2023) 51-54.
22. Manoj Kumar, Supreet, Smriti Sharma, Sneha Lata Goyal, Sanjeev Kumar, Sumit Chauhan, Bhavna Vidhani, **Rishi Pal (Corresponding Author)**, Composite nanoarchitectonics with reduced-graphene oxide and polyaniline for a highly responsive and selective sensing of methanol vapors, *Materials Chemistry and Physics* **312** (2024) 128626.
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28. Hardeep Singh, Sanjeev Kumar, Harpreet Kaur, Jyoti Gaur, Supreet, Gurjinder Singh, Manveen Kaur, Sanjeev Kumar, Rishi Pal, Navjot Kaur, Sustainable degradation of azo dyes using *Foeniculum vulgare* seed extract-derived zinc oxide nanoparticles, *Interactions* **245** (2024) 183.
29. Neha, Gautam Singh, Praveen Malik, Sanjeev Kumar, Khushboo, Manoj Kumar, Bhavna Vidhani, Jasvir Dalal, **Rishi Pal**, Supreet, Effect of alkyl chain length on the dielectric and electro-optical properties of graphene quantum dots doped cyanobiphenyl based nematic liquid crystals composites, *Journal of Molecular Liquids* **415** (2024) 126370.
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Book Chapter

- Deepak Kumar, Ashish Kumar Rajayan, Ishpal Rawal, **Rishi Pal**, Organic-inorganic nanohybrids for sensing and optoelectronics applications, Taylor and Francis, 1st Edition, CRC Press (2024).