

# Publications

Dr. Anita

Department of Chemistry

## National/International Journals/IOP/AIP Proceedings

### In year 2019

- 1) Anita, V. K. Madan and Reena Chauhan. Dissipation Kinetics of Novaluron–Indoxacarb Combiprodukt in Soil under Tomato Crop (*Lycopersicon esculentum* Mill.) *Pesticide Research Journal* Vol. 31(1): 87-91 (2019).(NAAS:5.9)
- 2) Anita Tanwar and Sushil. Role and effects of nanotechnology used in pesticides and agriculture field. AIP Conference Proceedings 2142, 150032 (2019); <https://doi.org/10.1063/1.5122581>.
- 3) Anita and V. K. Madan. Persistence and dissipation of ready pre-mix formulation (novaluron + indoxacarb) in/on tomato (*Lycopersicon esculentum* Mill.) and its leaching in soil. AIP Conference Proceedings 2142, 060011 (2019); <https://doi.org/10.1063/1.5122390>
- 4) Ishita Asrani, and Anita Tanwar.N-heterocyclic carbenes-A revolutionary turning point in organometallic catalysis AIP Conference Proceedings 2142, 180008 (2019);<https://doi.org/10.1063/1.5122631>

### In year 2018

- 5) Anita, V.K. Madan, Sushil Ahlawat and Reena Chauhan,. Leaching Behaviour of Combination Product (Novaluron 5.25% + Indoxacarb 4.5% SC) at Different Depths of Sandy Loam Soil. *Int.J.Curr.Microbiol.App.Sci*, 7(12): 260-266 (2018).
- 6) Anita, V.K. Madan, Sushil Ahlawat and Reena Chauhan. Dissipation pattern and effect of household processing on reduction of Indoxacarb residues in tomato fruits (*Lycopersicon esculentum* Mill.) *Journal of Entomology and Zoology Studies*, 6(6): 814-819(2018).
- 7) Anita, V. K. Madan, Reena Chauhan and Beena Kumari. Dissipation Behaviour and Effect of Different Decontamination Processes on Reduction of Residues of Novaluron in Tomato (*Lycopersicon esculentum* Mill.). *Int.J.Curr.Microbiol.App.Sci*. 7(05): 648-656 (2018).doi: <https://doi.org/10.20546/ijcmas.2018.705.079>(Impact factor: 4.119/NAAS:5.38)
- 8) Anita, Sushil Ahlawat and Sudesh Devi. Impact of Different Decontamination Processes on the Reduction of Pesticide Residues in Fruits and Vegetables. *Int.J.Curr.Microbiol.App.Sci*. 7(05): 869-876 (2018). doi: <https://doi.org/10.20546/ijcmas.2018.705.106>. (Impact factor: 4.119/NAAS:5.38)
- 9) Anita and Bharti Sharma. Review on Analytical Techniques used for the Estimation and Persistence of Ready-Mix Formulation Residues in Various Crops and Soil. *International Journal*

## BOOK CHAPTERS

- 1) The book chapter titled "Role of Mulching in Crop Production" has been published in edited book title "Advances in Agricultural sciences (Volume - 5)". ISBN No.- **97893-5335-003-1**, AkiNik Publications, New Delhi, Printing Press License No.: F.1 (A-4).
- 2) The book chapter titled "Basics of Electrochemistry "has been published in edited book title "Research Trends In Chemical Sciences(Volume - 1)". ISBN No. **97893-5335-125-0**, AkiNik Publications, New Delhi, Printing Press License No.: F.1 (A-4).
- 3) The book chapter titled "Organic Farming: A Clean and Green Way of Farming "has been published in edited book title "Research Trends in Agriculture Sciences(Volume - 9)". ISBN No. **97893-5335-025-3**, AkiNik Publications, New Delhi, Printing Press License No.: F.1 (A-4).
- 4) The book chapter titled "**Role of Zinc-Based Nanoparticles in the Management of Plant Diseases**" has been published in book title "Nanotechnology in Plant Growth Promotion and Protection: Recent Advances and Impacts, First Edition. Edited by Avinash P. Ingle. © 2021 **John Wiley & Sons Ltd. Published 2021 by John Wiley & Sons Ltd.** Print ISBN:9781119745853 |Online ISBN:9781119745884

## Patent

**Robotic Device for Water Quality Testing**, Design no. 418944-001, Class 10-05. The Patent Office Journal No. 30/2024, Page no. 67787.

# Publications

**Dr. Suman Devi**

**Department of Chemistry**

## List of Publications:

### National/International Journals/AIP Proceedings:-

#### In year 2025

- [17] The Role of Fe<sub>2</sub>O<sub>3</sub> and MoO<sub>3</sub> content on FTIR Study of Lead Borate Glasses, S. Gaur, S. Devi, S. Kaushik, R. Bala, S. Chauhan, M. Yadav: *American Institute of Physics (AIP) Conf. Proc.* **3198**, 2025, 020054 (Indexed in SCI and SCOPUS). IF-0.189 <https://doi.org/10.1063/5.0248393> .

#### In year 2023

- [16] A study of virescent emission from Er<sup>3+</sup> activated ternary gadolinium-based nanophosphor system applicable for current pc-WLEDs and solid-state lightings, **Suman Devi**, Shalini Kaushik, Hina Dalal, Mukesh Kumar, Sanjay Gaur, Sudesh Kumar, *Indian Journal of Physics* (2023), 98, 865–876 <https://doi.org/10.1007/s12648-023-02854-1> (I. F. -2.0)
- [15] Photoluminescence dynamics and structural characteristics of green-glimmering vanadate-

based nanophosphors for progressive optoelectronic applications, Hina Dalal, Mukesh Kumar, **Suman Devi**, Priyanka Sehrawat, Monika Sheoran, Poonam Devi, Neeraj Sehrawat, RK Malik, **Journal: Bulletin of Materials Science**, **46(3)**, 173 (2023) (I.F. 1.8) <https://doi.org/10.1007/s12034-023-03005-2>

- [14] Achieving bright green emission and probing into crystallographic features of Tb<sup>3+</sup> doped ternary yttrate-based nanocrystalline powder for solid-state illumination applications, **Suman Devi**, Shalini Kaushik, Mukesh Kumar, Hina Dalal, Sanjay Gaur, Sudesh Kumar, **Journal of Materials Science and Engineering B**, **289**, 116273 (2023) <https://doi.org/10.1016/j.mseb.2023.116273> (I.F. 3.6)
- [13] Crystal configuration and luminescence dynamics of highly efficient green-glimmering vanadate-based Ca<sub>9</sub>Gd (VO<sub>4</sub>)<sub>7</sub>: Er<sup>3+</sup> nanomaterials pertinent for next-generation illumination applications, Hina Dalal, Mukesh Kumar, **Suman Devi**, Priyanka Sehrawat, Monika Sheoran, Neeraj Sehrawat, RK Malik, **J: Inorganic Chemistry Communications**, **151**, 110593 (2023) <https://doi.org/10.1016/j.inoche.2023.110593> (I.F. 3.8)

### *In year 2022*

- [12] Combustion Synthesis and Study of Double Charge Transfer in Highly Efficient Cool White-emitting Dy<sup>3+</sup> Activated Vanadate-based Nanophosphor for Advanced Solid-state Lighting, Hina Dalal, Mukesh Kumar, **Suman Devi**, Priyanka Sehrawat, Monika Sheoran, Poonam Devi, Neeraj Sehrawat, Rajesh Kumar Malik, **Journal of Fluorescence**, **33(2): 497-508**, (2022) <https://doi.org/10.1007/s10895-022-03098-8> (I.F. 2.7)
- [11] Opto-electronic, crystallographic, and Judd-Ofelt analysis of novel gadolinium-based europium doped BaSrGd<sub>4</sub>O<sub>8</sub> nanophosphor for advanced pc-WLEDs, Shalini Kaushik, **Suman Devi**, Mukesh Kumar, Hina Dalal, Anamika Srivastava, Manish Srivastava, **Journal of Materials Research Bulletin**, (2022) **156**, 111966 (I. factor- 5.6), <https://doi.org/10.1016/j.materresbull.2022.111966>
- [10] Influence of Tb<sup>3+</sup> doping on optoelectronic and crystallographic aspects of Gadolinium- based BaSrGd<sub>4</sub>O<sub>8</sub> nanophosphor for NUV-stimulated WLEDs, Shalini Kaushik, **Suman Devi**, Mukesh Kumar, Hina Dalal, Anamika Srivastava, Sanjay Gaur, Manish Srivastava, **Journal of Materials Science: Materials in Electronics**, **33**, 19958–19970 (2022) <https://doi.org/10.1007/s10854-022-08815-4> (Springer publication) (I.F. 2.8)
- [9] Crystallographic and optical features of combustion fabricated green-emitting BaYZn<sub>3</sub>AlO<sub>7</sub>:Tb<sup>3+</sup> nanophosphor for advanced lighting applications, Shalini Kaushik· **Suman Devi**· Mukesh Kumar· Hina Dalal· Neeraj Sehrawat· R. K. Malik· Anamika Srivastava· Manish Srivastava, **J. Applied Physics A** (2022) **128:198**, (I. factor- 2.983) <https://doi.org/10.1007/s00339-022-05321-6>

### *In year 2021*

- [8] Influence of Eu<sup>3+</sup> doping on crystallographic and photophysical aspects of combustion synthesized BaSrY<sub>4</sub>O<sub>8</sub> nanophosphor for photoelectronic appliances, **Suman Devi**, Shalini Kaushik, Mukesh Kumar, Hina Dalal, Sanjay Gaur, Sudesh Kumar; **J. Applied Physics A** **128**, 23, 2021) (I. factor- 2.983) <https://doi.org/10.1007/s00339-021-05125-0>

### ***In year 2020***

- [7] Characterization and structural properties of Fe<sub>2</sub>O<sub>3</sub> based bismuth and lead borate glasses; Sanjay, **Suman Devi**, Shalini, N. Kishore, C. Gilhotra, and M. Yadav: *American Institute of Physics (AIP) Conf. Proc.* **2220** (2020) 080042-1–080042-6, (IF- 0.402).

### ***In year 2019***

- [6] Study of photoluminescence characteristics of KSr<sub>0.6</sub>-XBa<sub>0.4</sub>PO<sub>4</sub>:xTb<sup>3+</sup> nanophosphor synthesized by glycine assisted combustion method, Shalini, **Suman Devi**, Mukesh Kumar, and Manish Srivastva, *American Institute of Physics (AIP) Conf. Proc.* **2142**, (2019), 140031-1- 140031-4, <https://doi.org/10.1063/1.5122544> , (IF- 0.402).
- [5] Sol-gel synthesis and photoluminescence characteristics of SrY<sub>1.7-x</sub>B<sub>0.3</sub>O<sub>4</sub>: xTb<sup>3+</sup> Nanoparticles, **Suman Devi**, Sudesh Kumar, and Shalini, *American Institute of Physics (AIP) Conf. Proc.* **2142**, (2019) 140030-1- 140030-4; <https://doi.org/10.1063/1.5122543> , (IF- 0.402).
- [4] Role of Fe<sub>2</sub>O<sub>3</sub> and MoO<sub>3</sub> content on Optical Properties of Lead Borate Glasses; Sanjay, Shalini, **Suman Devi**, Sudesh Kumar, Mukesh Kumar, N. Kishore, Arindam Ghosh, Naveen Kumar: *American Institute of Physics (AIP) Conf. Proc.* **2142**, (2019) 070034-1–070034-6, (IF- 0.402).
- [3] Study of DC Conductivity of MoO<sub>3</sub> based Bismuth Borate and Lead Borate Glasses; Sanjay, **Suman Devi**, Shalini, Sudesh Kumar, Mukesh Kumar, N. Kishore, Rajni, Arindam Ghosh, Vijender Singh: *American Institute of Physics (AIP) Conf. Proc.* **2142**, (2019) 070033-1–070033-5, (IF- 0.402).

### ***In year 2018***

- [2] Study of Boro-Tellurite Glasses Doped With Neodymium Oxide; Sanjay, N. Kishore, M.S. Sheoran, **S. Devi**: *American Institute of Physics Conf. Proc.* **1953**, (2018) 090049-1–090049-4, (IF- 0.402).
- [1] Characterization and Optical Properties of MoO<sub>3</sub>-PbO-B<sub>2</sub>O<sub>3</sub> Semiconducting Glasses; Sanjay, N.Kishore, A. Agarwal, **S. Devi**, I. Pal, S.Dahiya and R. Bala: *American Institute of Physics Conf. Proc.* **1942**, (2018) 140012-1–140012-4, (IF- 0.402).