

**1. (Books): 04 Nos.**

- Pooja Devi, Praveen Kumar and Mahesh Kumar: Probing the kinetics of Ga/Si interfaces. 05/2016; Scholars Press., ISBN: 978-3-639-86343-7
- Pooja Devi: Biomedical Applications of Silica Based Metal Nanocomposites. 11/2014; Lambert Academic Publishing., ISBN: 978-3-659-62242-7
- Pooja Devi, Pardeep Singh, Sushil kansal (Ed) 2019 "Inorganic Pollutants in Water" UK: Elsevier. (). ISBN: 9780128189658.
- Pooja Devi, Praveen Kumar, Pardeep Singh, Sandip Patil (Ed) 2019, "Sensors in Water Pollutants Monitoring: Role of Materials", Springer. ISBN 978-981-15-0670-3

**2. Book Chapters:09**

- Preetismita Borah, Manish Kumar and Pooja D.\* (2020), "Recent trends in the detection and degradation of organic pollutants". In: Pardeep Singh, Ajay Kumar, Anwasha Borthakur (Ed.) (2019). "Abatement of Environmental Pollutants: Trends and Strategies", 1st Edition, Elsevier, UK, ISBN: 9780128180952
- Prachi Rajput, Anupma Thakur and Pooja D.\* (2019), "Emerging Agro-chemicals contaminants: Current Status, Challenges and Technological Solutions", In: Majeti Narasimha Vara Prasad (Ed.) (2019) "Agrochemicals Detection, Treatment and Remediation", 1st Edition, Elsevier, ISBN: 9780081030172.
- Anupma Thakur, Praveen Kumar, and Pooja D.\* (2019), "Photocatalytic Degradation of Petrochemical Pollutants", In: Pardeep Singh Anwasha Borthakur P.K. Mishra Dhanesh Tiwary (Ed) (2019), Nano-Materials as Photocatalysts for Degradation of Environmental Pollutants, 1st Edition, Elsevier, UK, ISBN: 9780128185988
- Nancy Sidana, Harminder Kaur and Pooja D.\* (2019), Organic linker for colormetric detection of Inorganic Pollutants, In: Pooja Devi, Pardeep Singh, Sushil kansal (Ed) 2019 "Inorganic Pollutants in Water" UK: Elsevier. ISBN: 9780128189658.
- Prachi Rajput, R.K. Sinha, and Pooja D.\* (2019), SERS in detection of Inorganic Pollutants in Water: An emerging method, In: Pooja Devi, Pardeep Singh, Sushil kansal (Ed) 2019 "Inorganic Pollutants in Water" UK: Elsevier. ISBN: 9780128189658.
- Preeti Borah, Manish Kumar, and Pooja D.\* (2019), Types of inorganic pollutants: metals/metalloids, acids, and organic forms, In: Pooja Devi, Pardeep Singh, Sushil kansal (Ed) 2019 "Inorganic Pollutants in Water" UK: Elsevier. ISBN: 9780128189658.
- Manish Kumar, Preeti Borah, and Pooja D.\* (2019), Priority and emerging inorganic pollutants in water, In: Pooja Devi, Pardeep Singh, Sushil kansal (Ed) 2019 "Inorganic Pollutants in Water" UK: Elsevier. ISBN: 9780128189658.

- Manish Kumar, Preeti Borah and Pooja D.\* (2019), Methods including biomarkers used for detection of Disinfection By-products, In: M.N.V. Prasad (Ed.) (2019), Disinfection Byproducts in Drinking Water, 1st Edition, Elsevier, ISBN: 9780081029770
- Rishabh Jain, Anupma Thakur, Praveen Kumar and Pooja D.\* (2019), Materials in Colorimetric Detection of Water Pollutants, In: Pooja Devi, Praveen Kumar, Pardeep Singh, Sandip Patil (Ed) 2019, "Sensors in Water Pollutants Monitoring: Role of Materials", Springer. ISBN 978-981-15-0670-3

**3. M. Tech/M.Sc. /B. Tech Thesis Supervised:** 52 Nos.

**4. PhD Students:** 04

**5. Facilities:** Molecular Beam Epitaxy, Auger Electron Spectroscopy, Online Gas Chromatography Analyzer; Electrochemical Work Station, Solar Simulator, Photokit, UV-VIS-NIR Spectrophotometer, Photoluminescence Spectrophotometer, Parametric Analyzer, Ion Chromatography System; FT-IR (solid/liquid/gaseous); Langmuir-Blodgett System.

**6. Invited Talk**

- Pooja D. (Invited Talk), Fellowship Opportunities for Women Scientists in India, An International Webinar on Empowering Women in Science - Unleashing Latent Talent, July 10 2020.
- Pooja D. (Invited Talk), "Engineered Materials and Devices for Water Pollutants Detection", AGM, Indian Academy of Sciences, 3<sup>rd</sup> July 2020.
- Pooja Devi (Invited Talk), Current Challenges and Solutions for Water Quality/Pollutants Monitoring, National Webinar on Scientific Achievements, Current Challenges, Problems and Scientific & Technical Terminology, Mukeria, 28<sup>th</sup> August 2020.
- Pooja Devi (Invited Talk), Materials Engineering for Environmental Applications: Status and Challenges, Recent Trends in Materials Science and Engineering (RTMSE-2020), Rajsthan Technical University, Kota, 21<sup>st</sup> August 2020.
- Pooja D. (Invited Talk), "Nanotechnology", DST-GoR-INYAS Webinar Series, 8<sup>th</sup> April 2020.
- Pooja D. (Invited Talk), "Women in Science", National Science Day, PGGCG-11, Chandigarh, 26<sup>th</sup> February 2020.
- Pooja D. (Invited Talk), "Water Quality Sensors and Systems for Sustainable Development", ECO-EUREKA Workshop on Water Testing and Analysis, Chandigarh University, 25<sup>th</sup> February 2020.
- Pooja D. (Invited Talk), "Materials for Solar Hydrogen Production", "Science Academies' Lecture Workshop on Materials Engineering for Sustainable Environment and Energy (MESEE-2020)", CSIO Chandigarh, 10<sup>th</sup> January 2020.
- Pooja D. (Invited Talk), "Waste to Wealth Approach for Clean Energy Solution and Environmental Remediation", International Conference in Recent Trends in Materials and Devices (ICRTMD-2019), AMITY, Noida, 19<sup>th</sup> December 2019.
- Pooja D. (Oral Presentation), "Ion Chromatography and Materials Engineering for Water Quality Analysis", "Basic and Advance Skill for Water Testing and Analysis", CSIR-CSIO, Chandigarh, 16<sup>th</sup> December 2019.

- Pooja D. (Oral Presentation), "Electrochemistry for Energy, Sensors, and Corrosion", Workshop on Electrochemical Techniques for Sensors, Energy, and Corrosion Application (WET-2019), CSIO Chandigarh, 18<sup>th</sup> November 2019.
- Pooja D. (Invited Talk), "Transition Metal Oxides and Nitrides for Catalytic Solar Hydrogen Production from Water", National Workshop on Catalysis for Clean Energy and Safe Environment, 2019, Punjab University, 16<sup>th</sup> November 2019.
- Pooja D. (Invited Talk), "Opportunities for Women in STEM", IEEE Women's Summit-2019, CSIO Chandigarh, 1<sup>st</sup> October 2019
- Pooja D. (Popular Science Talk), "CSIR-JIGYASA: CSIO initiatives and objectives", Teachers Orientation Workshop for National Children's Science Congress – (NCSC) 2019, CSIO Chandigarh, 26<sup>th</sup> July 2019.
- Pooja D. (Oral Presentation), "Water Splitting", Workshop on Chemistry for Teachers, CSIO Chandigarh, 4<sup>th</sup> July 2019
- Pooja D. (Invited Talk), "JIGYASA: CSIO Initiative for School Students and Faculty", India Education Award (Educational Conference and Award Show), Dwarka, New Delhi, 4<sup>th</sup> May 2019.
- Pooja D. (Invited Talk), Harnessing Solar Energy for Hydrogen Production: A sustainable technological Solution, "One-day Seminar on Interdisciplinary in the Environmental Sciences: Challenges and Frontiers", UIET, Kurukshetra University, 19<sup>th</sup> April 2019
- Pooja D. (Invited Talk), "Materials Engineering for Next-Generation Energy Harvesting Solutions", UIET, Punjab University, 3<sup>rd</sup> April 2019.
- Pooja Devi (Invited Talk), "Functional Carbonaceous Materials for Heavy Metals Quantification in Water", International Conference on Advanced Materials (ICAM-2019)" 6<sup>th</sup>-7<sup>th</sup> February 2019, Jamia Malia University, Delhi, India
- Pooja Devi (Oral Presentation), "Selective detection of toxic metalloids using carbonaceous nanostructured materials", GC Jain Memorial Lecture, 1<sup>st</sup> Indian Material Science Conclave, and 30<sup>th</sup> AGM Material Research Society of India, 14<sup>th</sup> February 2019, Iisc Bangalore, India
- Pooja D. (Invited Talk), "Fourier Transform Infrared Spectroscopy", Management Development Programme on Operation and Maintenance of Analytical Equipment, January 14, 2019, Chandigarh, India
- Pooja D. (Oral Presentation), "Carbonaceous Fluorescent Dots: Promising Candidates for Applications in Sensing, Energy Harvesting, and Security Inks, Under ISCA Young Scientist Award Category, 106<sup>th</sup> Indian Science Congress, Lovely Professional University, Jalandhar, 4<sup>th</sup> January 2019.
- Pooja D. and R. Y. Lai (Poster Presentation), "Design and Fabrication of Electrochemical Selenium Sensors", Water Resources of the US Great Plains Region Symposium on Water Resources of the U.S. Great Plains Region: Status and Future, October 24-26, Nebraska, Lincoln, USA.
- Pooja Devi, C. Schultz and R. Y. Lai (Oral Presentation), "Design and Fabrication of Electrochemical Peptide-based Selenium Sensors", "ACS Midwest Regional Meeting, October 21-23, 2018, Ames, Iowa, USA.
- Pooja D. and Praveen Kumar (Oral Presentation), "III-Nitrides Nanostructures for Next-Generation Energy Harvesting and Sensing Devices", at "Science and Research Opportunities in India (Sci-RoI)" September 7-8, 2018, Chicago, USA
- Pooja D. (Oral Presentation) "Advances in Carbon Nanolights in Sensors", Water Theme, BRICS YS Conclave, Durban, South Africa, May 25-June 30, 2018

- Pooja D. (Oral Presentation), Materials for Emerging Water Pollutants Detection, BRICS Young Scientist Alumni Conclave, National Institute of Advanced Studies, Bangalore, 3<sup>rd</sup> December 2018.
- Pooja D. (Invited Talk), Electrochemistry: Fundamentals and Applications, Upskilling Chemistry Teachers on latest Pedagogical tools for Impactful Teaching, VIGNAN University, Guntur, Andhra Pradesh, 9<sup>th</sup> December 2018.
- Pooja D. (Oral Presentation), " Materials Engineering for Sustainable Solutions Towards Environment and Energy", ISEES Young Scientist and Best Thesis Award Lecture Session, 3rd International Conference of International Society for Energy, Environment and sustainability, "Sustainable energy and environment challenges (SEEC 2018), IIT Roorkee, 18<sup>th</sup> December 2018.
- Pooja D. (Popular Science Talk), "Energy Management and Popularization of Science", Kendriya Vidyalaya School OCF 29, Chandigarh, 21<sup>st</sup> December 2018.
- Pooja D. (Popular Science Talk), "JIGASA: A Science Outreach Program", State Level Children Science Congress, CSIO-ISTC, Chandigarh, 6<sup>th</sup> December 2018.
- Pooja D. (Popular Science Talk), "Popularization of Science and Energy Resource", KVS OCF, 29 B, Chandigarh (Under JIGYASA Outreach), 21<sup>st</sup> December 2018.
- Pooja D. (Invited Talk), Functionalized Carbon Quantum Dots for Water Pollutants Monitoring: Lab to Land", Pooja D., Anupma Thakur, and P. Kumar, International Conference on Nanotechnology: Ideas, Innovations, and Initiatives-2017 (ICN:3I-2017); December 06-08 2017, Indian Institute of Technology (IIT) Roorkee, India
- Pooja D. (Invited Talk), "Carbon Quantum Dots for Water Pollutants Monitoring" in, 6th National Conference on Nanoscience and Instrumentation Technology, March 29-30, 2018
- Pooja D. (Invited Talk), "Sensors & Systems: Key Components for Water Quality and Treatment Solutions Monitoring" under "Water treatment technology and delivery to the social theme" in two days "Indo-French Thematic School & Workshop" held at University of Petroleum and Energy Studies, Dehradun during 28- 29 March 2018.
- Pooja D. and P. Kumar (Oral Presentation), "Carbon Quantum Dots for Water Pollutants Monitoring: Lab to Land", Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Orlando, Florida, USA, February 25 – March 1, 2018
- Pooja D. (Oral Presentation), "III-nitride nanostructures for solid-state lighting, renewable energy, and next-generation sensor application", International Symposium on Functional Materials (ISFM-2018): Energy and Biomedical Applications, 13<sup>th</sup>-15<sup>th</sup> April 2018, Chandigarh, India
- Pooja D. (Expert Faculty Lecture), "Atomic Absorption Spectroscopy", Management Development Programme on Operation and Maintenance of Analytical Equipment, January 18, 2018, Chandigarh, India
- Pooja D., (Lecture and Hands-on Session), "Atomic Absorption Spectroscopy and Gas Chromatography", Management Development Programme on Operation, Maintenance & Repair of ANALYTICAL EQUIPMENT from 2<sup>nd</sup> January - 27<sup>th</sup> January 2017, Chandigarh, India
- Pooja D., (Expert faculty lecture) 'Ion Chromatography: Theory, Working Principle and Applications' Hands-on training cum workshop on 'Spectroscopic and Chromatographic Techniques' 27-30<sup>th</sup> November 2017.

- Pooja D., (Expert faculty lecture) 'Atomic Absorption Spectroscopy: Working Principle and Applications' Hands-on training cum workshop on 'Spectroscopic and Chromatographic Techniques' 27-30<sup>th</sup> November 2017.
- Pooja D., (Invited Talk) "Microbes and Electron Microscopy", Jigyasa-A Science Summer Camp, 28<sup>th</sup>-30<sup>th</sup> June 2017.
- Pooja D., (Invited Lecture) "Carbon and its Associates", 21-day in-service course for TGT, 4<sup>th</sup> August-24<sup>th</sup> August 2017, Zonal Institute of Education and Training, Chandigarh