

MOHD KHURSHID ALAM

Sr. Patent Research Analyst

Dedicated and detail-oriented Patent Analyst with over 4 years of experience in conducting prior art searches, patentability assessments, invalidity studies, freedom-to-operate (FTO) analysis, and technology landscape research across diverse technology domains. Possessing a strong technical background and analytical skills, I aim to contribute to an organization's innovation and intellectual property strategy by delivering high-quality patent research, competitive intelligence, and actionable insights that support R&D, business growth, and strategic decision-making.

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Education

2017-19
Jamia Millia Islamia University,New Delhi
Master of Technology
8.67/10 CGPA (First Div. with Distinction)

2012-16
Integral University,Lucknow
Bachelor of Technology(Electrical)
75.7/100%(First Div. with Hons.)

Skills

- Advance Excel
- Power BI
- Tableau
- MYSQL
- Power Point Presentation

Language

English

Hindi

Urdu

Employment Details

September 2024-Present

Wissen,Research,Mohali

Patent Research Analyst

Roles and Responsibilities:

- Conducted comprehensive market and technology intelligence research by analyzing global patent and non-patent literature across electronics, energy, and software domains.
- Performed Freedom-to-Operate (FTO), patentability, invalidity, and infringement analyses to support strategic business decisions, product development, and risk mitigation.
- Identified emerging technology trends, innovation hotspots, and white spaces through advanced prior art and landscaping studies.
- Executed competitive intelligence and benchmarking by tracking key players, patent portfolios, filing trends, and R&D focus areas.
- Analyzed patent claims, specifications, and technical disclosures to derive actionable insights on technology positioning and competitive threats.
- Developed technology landscapes, market maps, and cluster analyses to highlight growth opportunities and potential areas for investment.
- Delivered insight-driven reports, evidence-backed summaries, and strategic recommendations for clients, stakeholders, and legal teams.
- Built interactive dashboards and visual analytics using Power BI, Tableau, and advanced Excel to communicate trends, KPIs, and intelligence findings effectively.

September 2023-September 2024

Ennoble IP,Noida

Patent Research Analyst

Roles and Responsibilities:

- Generated actionable market and technology insights by mining global patent and non-patent datasets across electronics, energy, and software sectors.
- Evaluated IP risks and opportunities through FTO, patentability, invalidity, and infringement assessments, enabling informed product and business decisions.
- Built evidence-backed claim analyses to support high-stakes matters such as litigation, licensing, and portfolio strategy.
- Produced competitive intelligence and patent landscape reports to uncover innovation trends, key players, and shifts in technology focus.
- Enabled data-driven innovation planning by identifying white spaces, technology gaps, and emerging opportunity areas.
- Translated complex technical and patent data into clear strategic narratives for business stakeholders and cross-functional teams.
- Developed benchmarking frameworks to compare competitor capabilities, patent strength, and R&D direction.
- Designed insight dashboards and visual storytelling tools using Power BI, Tableau, and Excel to track market dynamics and intelligence KPIs.

March 2022-September 2023

TT Consultants-Mohali,Punjab

DATA ANALYST AND RESEARCH

Roles and Responsibilities:

- Conduct prior art, FTO, patentability, invalidity, and infringement searches using global patent and non-patent databases to support strategic decisions.
- Analyze technology trends, innovation landscapes, and competitive environments to identify emerging technologies and market opportunities.
- Develop market- and technology-specific intelligence reports through structured primary and secondary research.
- Gather and analyze customer, competitor, and market data to deliver actionable competitive and business insights.
- Track competitor products, portfolios, partnerships, and strategic movements to support product and business intelligence initiatives.
- Prepare newsletters, research proposals, and executive presentations to communicate insights to stakeholders.
- Perform country-level market analysis using strategic frameworks such as PESTEL, SWOT, and DROC.
- Create dashboards and data visualizations using Power BI, Tableau, and advanced Excel to enable data-driven decision-making.

Key Projects Handled :

- 1. Competitor & Technology Landscape Lithium solid state Batteries Bipolar lithium-ion batteries
- 2. Sustainable Energy in Paper Recycling Technology and Market Study
- 3. Technology and market Intelligence for future fuels (Green Hydrogen, Biofuels, and BioMethane).
- 4. What are the ongoing challenges in hydrogen storage & and distribution and the identification of key
- solutions/potential solutions to address ongoing challenges?
- 5. Identification of chemical recycling plants of waste plastic to produce pyrolysis oil.
- 6. Scope for Chinese electric vehicle companies in Europe
- 7 Technology and market Intelligence for Edible Packaging
- 8. Technology and Market Landscape for Biosurfactant

November 2021- March 2022

ScratchNest, Rupnagar,Punjab (IIT ROPAR)

TECHNICAL SALES MANAGER

Roles and responsibilities:

- Market Research (Analyzed marketing data, Potential customer, including market trends, competitor performance using MS Excel, Tableau, Power BI, and product strengths)
- Prepared KPI dashboards in Power BI and Tableau on weekly/Monthly Basis.
- Designed database using SQL to store Competitor and customer information
- Product Analysis
- Executed lead generation and identified key personnel using LinkedIn, IndiaMart, and open searches.
- Pricing Decision
- LOI Collection
- Distributor Agreement

December 2019-November 2021

Lapp India Pvt. Ltd,Noida,UP

TECHNICAL SALES ENGINEER

Roles and responsibilities:

- Performed Market Analysis to achieve objectives, increasing product sales by 15% year-on-year.
- Attended Business/Consortium Partner meetings with senior management of both parties.
- Conducted lead generation using Zoominfo, LinkedIn, Indiamart etc
- Utilized Power BI, Tableau, Advanced Excel for creating dashboards to visualize OEM's product business analysis using ERP data.
- Working in aspects of account Mgmt.,Sales(B2B),and Buisness Development,Planing and Strategy Mgmt,having experience of direct and Indirect Sales
- Responsible to manage customers through CRM
- Managing Database Using MYSQL (Create,Insert,Update,Delete,Alter etc.)

Projects/Research

1. Project Title: Bandgap Tunability in Hybrid Perovskite Materials
Supervisor: Dr. Shahab Ahmad, Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia (Central University), New Delhi-110 025, India.
Description: In this work, we demonstrated the synthesis of 2D $(BA)_2PbX_4$ (Butylammonium Lead Halide) perovskites, where changes in the halide composition tune the excitonic properties over a wide spectral range. The structural, optical, and elemental properties were systematically studied and reported. Structural characterization using techniques such as X-ray diffraction (XRD) made it possible to correlate structural features with specific material properties. XRD analysis confirmed the formation of the layered 2D perovskite structure with (0,0,2l) reflections. These naturally self-assembled systems adopt layered structures in which inorganic and organic networks are alternately stacked along the c-axis. Successive bromine substitution in the Pb–I inorganic network resulted in variations in the inorganic framework and interlayer spacing due to changes in the Pb–Br–Pb and Pb–I–Pb bond angles. Room-temperature excitonic emission was tuned from red to blue with increasing bromine content in the Pb–I network. A large Stokes shift was also observed between excitonic absorption and photoluminescence (PL) emission. Furthermore, changes in the elemental composition of these perovskite materials were investigated by varying the iodine-to-bromine ratio. SEM analysis confirmed the formation of compact thin films with well-defined grain structures, which are desirable for device fabrication.

2.Project Title: Fabrication of Perovskite Solar Cell by sequential deposition method
Under Supervision: Dr. Nikhil chander, Dept.of Electrical Engineering & Computer Science,Indian Institute of Technology,Raipur-492015 ,Chattisgarh,India(www.iitbhilai.ac.in)
Description: In this work we focuses on the effect of a new design using a general two-step method for a mesoporous structure. Different architectures were studied based on different preparation methods. Here, a two-step method was adopted to prepare a perovskite thin film on a mesoporous TiO_2 layer. X-ray diffraction (XRD) analysis confirmed the formation of the perovskite thin film. Scanning electron microscopy (SEM) images showed the morphology of the film. The prepared $CH_3NH_3PbI_3$-based solar cells exhibited decent performance. The measured parameters for the best-performing device were as follows: open-circuit voltage (VOC) = 0.73 V, short-circuit current density (JSC) = 12.85 mA/cm², fill factor (FF) = 48.27%, and power conversion efficiency (PCE) = 4.31%.

Publication

Rahil, M., Mushtaq, N., Ansari, H.R., Alam, M.K., and Ahmad, S. (2020). Exciton tunability in mixed halide hybrid layered perovskites. AIP Conference Proceedings, 2276, 020043. https://doi.org/10.1063/5.0025729

Workshop attended

1. Participated in the "Swarm Robotics Workshop", organized by Indian Institute of Technology Bombay in 2014.
2. Participated in the "Industrial Automation Workshop", organized by LOGICON Automation at Integral University.
3. Attended a seminar on "Oil Conservation", delivered by Mr. Girish Gupta (Energy Auditor) at Integral University.
4. Attended a lecture on "System Engineering", delivered by Dr. Khalid, Consultant Engineer.
5. Participated in a one-week lecture series on "Diffractive Micro-Optics of IR and THz Ranges", organized by the Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, under the aegis of the GIAN Scheme sponsored by the Ministry of Human Resource Development (MHRD), Government of India. The lectures were delivered by Prof. Vladimir S. Pavelyev, Head of the Nanoengineering Department, Samara University.

Scholastic Achievements

1. First Position in a Speech Competition on "Solar Energy", held during Akshay Urja Divas Samaroh at M.S. High School Cum Inter College on March 28, 2005.
2. Participated in the district-level computer-based competition "Science for Society", organized by the District Organising Committee, Siwan (YSA), 2004, with support from the Department of Science and Technology, Government of India, and coordinated by the NCSTC Network, New Delhi.
3. Participated in "Model Mania" with a project on IR Remote-Controlled Home Appliances, organized by the Department of Electrical Engineering, Integral University, Lucknow.
4. Participated in "Aptitudo", organized by the Department of Computer Science & Engineering, Integral University, Lucknow, in 2015.
5. Third Position in Model Presentation for the project titled "Radio Frequency-Based Water Pump Control", organized by the Department of Electrical Engineering, Integral University, Lucknow.
6. Third Position in the PSCAD Competition, organized by the Department of Electrical Engineering, Integral University, Lucknow.
7. Oral Presentation at the International Conference on Advanced Materials (ICAM-2019), held at Jamia Millia Islamia, New Delhi, India, on 6–7 March 2019.

CERTIFICATION

Electrical Power system Design course| IETP(6 Months)- Ongoing
Data Analyst Certification Course | ExcelR(6 Months)- With Distinction
Advance Excel,Power BI Desktop,Tableau,MYSQL,Python
Microsoft Power BI Desktop for Buisness Intelligence | Udemy
Advance Excel, Power BI Desktop
SQL for Data Analysis - with SQL Server|Udemy
SQL Server,MYSQL