

ASS (http://ipindia.nic.in/index.htm)



Patent Search			
Invention Title	EXPLORING BISMUTH-BASED DOUBLE PEROVSKITES FOR SOLAR CELLS USING MACHINE LEARNING PERSPECTIVE		
Publication Number	07/2024		
Publication Date	16/02/2024		
Publication Type	INA		
Application Number	202411008396		
Application Filing Date	07/02/2024		
Priority Number			
Priority Country			
Priority Date			
Field Of Invention	COMPUTER SCIENCE		
Classification (IPC)	G06N0020000000, G06K0009620000, H01L0051000000, H04W0036140000, G01N0015140000		
Inventor			
Name	Address	Country	
Dr. Jaidev Kumar	Assistant Professor, Department of Chemistry, Hariom Saraswati P. G. College Dhanauri, Haridwar, Uttarakhand, Pun- 247667	India	
Dr.P.Piramanayagam	Assistant Professor, Department of Chemistry,SRM Madurai College for Engineering and Technology,Pottapalayam, Sivagangai District.	India	
Dr.Somarouthu V G V A Prasad	Professor, Department Of Physics And Electronics, Pithapur Rajah's Government College (A), Kakinada 533001.	India	
Dr. Mahendra Pratap Singh	Assistant professor, Chemistry, Shri Sadguru Saibaba Science & Commerce College, Ashti-442707	India	

Dr. Jaidev Kumar	Assistant Professor, Department of Chemistry, Hariom Saraswati P. G. College Dhanauri, Haridwar, Uttarakhand, Pun- 247667	India
Dr.P.Piramanayagam	Assistant Professor, Department of Chemistry, SRM Madurai College for Engineering and Technology, Pottapalayam, Sivagangai District.	India
Dr.Somarouthu V G V A Prasad	Professor, Department Of Physics And Electronics, Pithapur Rajah's Government College (A), Kakinada 533001.	India
Dr. Mahendra Pratap Singh	Assistant professor, Chemistry, Shri Sadguru Saibaba Science & Commerce College, Ashti-442707	India
Dr.P.B.Sandhya Sri	Professor, Department of Physics, Govt. Degree College, Avanigadda-521121	India
Dr Alla Srivani	Post Doctoral Researcher, WIT, Guntur, 522006	India
N v s s Seshagiri Rao	Associate Professor of Physics ,Institute of Aeronautical Engineering Dundigal Hyderabad Telangana	India
Dr. L.Jebaraj	Professor and Head, P.S.R Engineering College, Sivakasi-626140	India
Dr.Y.N.Ch.Ravi Babu	Professor, Physics, Government Degree College, Avanigadda, 521121	India
Dr.P.Gowtham	Associate Professor, Department of Biomedical Engineering, KIT-Kalaignar Karunanidhi Institute of Technology, Coimbatore 641402	India
Jyoti Prasad Patra	Professor Head EE and EEE Krupajal Engineering College KEC Pubasasan Prasanthi Vihar Kausalyaganga Near CIFA District Puri Odisha India Pin 751002	India
Narayan Pandurang Sapkal	Assistant Professor, Dr. D. Y. Patil Institute Of Technology, Pimpri - 411018.	India

Applicant

Name	Address	Countr
Dr. Jaidev Kumar	Assistant Professor, Department of Chemistry, Hariom Saraswati P. G. College Dhanauri, Haridwar, Uttarakhand, Pun- 247667	India
Dr.P.Piramanayagam	Assistant Professor, Department of Chemistry, SRM Madurai College for Engineering and Technology, Pottapalayam, Sivagangai District.	India
Dr.Somarouthu V G V A Prasad	Professor, Department Of Physics And Electronics, Pithapur Rajah's Government College (A), Kakinada 533001.	India
Dr. Mahendra Pratap Singh	Assistant professor, Chemistry, Shri Sadguru Saibaba Science & Commerce College, Ashti-442707	India
Dr.P.B.Sandhya Sri	Professor, Department of Physics, Govt. Degree College, Avanigadda-521121	India
Dr Alla Srivani	Post Doctoral Researcher, WIT, Guntur, 522006	India
N v s s Seshagiri Rao	Associate Professor of Physics ,Institute of Aeronautical Engineering Dundigal Hyderabad Telangana	India
Dr. L.Jebaraj	Professor and Head, P.S.R Engineering College, Sivakasi-626140	India
Dr.Y.N.Ch.Ravi Babu	Professor, Physics, Government Degree College, Avanigadda, 521121	India
Dr.P.Gowtham	Associate Professor, Department of Biomedical Engineering, KIT-Kalaignar Karunanidhi Institute of Technology, Coimbatore 641402	India
Jyoti Prasad Patra	Professor Head EE and EEE Krupajal Engineering College KEC Pubasasan Prasanthi Vihar Kausalyaganga Near CIFA District Puri Odisha India Pin 751002	India
Narayan Pandurang Sapkal	Assistant Professor, Dr. D. Y. Patil Institute Of Technology, Pimpri - 411018.	India

Abstract:

Exploring bismuth-based double perovskites for solar cells using machine learning perspective is the proposed invention. The proposed invention focuses on underst efficiency of bismuth based double perovskites in solar cells. The invention focuses on analyzing the parameters of bismuth based double perovskites for solar cells using machine learning.

Complete Specification

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[0002] Machine learning is a branch of artificial intelligence that uses statistical algorithms to learn from data and generalize to unseen data. Machine learning er machines to automatically learn from data and past experiences, while identifying patterns to make predictions with minimal human intervention.

[0003] A number of different types of double perovskites solar cell analysis systems that are known in the prior art. For example, the following patents are provide their supportive teachings and are all incorporated by reference.

[0004] Critical review of machine learning applications in perovskite solar research: - The astonishing progress achieved in perovskite solar cells in recent years ha coincided with the growing interest in machine learning (ML) for material discovery, and the number of papers reporting the use of ML in perovskite solar research I been increased significantly in last two years. ML has been used for various purposes such as discovering new perovskites by screening the large computational or experimental datasets, analyzing the spectroscopic data augmented by data extracted from databases, determining conditions for higher efficiency or stability using experimental data and identifying the basic trends in perovskite solar cell technology by analyzing the published papers and patents. This communication aims to rethe research articles as well as the perspectives, comments and opinions, to assess the current directions and summarize the challenges and opportunities for the footnotes are the field.

[0005] A solar cell, also known as a photovoltaic cell, is an electronic device that converts light energy into electricity. Solar cells are made of semiconductor materallise gallium arsenide, silicon, and cadmium telluride. Solar cells can operate under suplicity or artificial light. The proposed invention focuses on analyzing the hismunications.

View Application Status



Terms & conditions (http://ipindia.gov.in/terms-conditions.htm) Privacy Policy (http://ipindia.gov.in/privacy-policy.htm)

Copyright (http://ipindia.gov.in/copyright.htm) Hyperlinking Policy (http://ipindia.gov.in/hyperlinking-policy.htm)

Accessibility (http://ipindia.gov.in/accessibility.htm) Archive (http://ipindia.gov.in/archive.htm) Contact Us (http://ipindia.gov.in/contact-us.htm)

Help (http://ipindia.gov.in/help.htm)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019