



Number of research papers published per teacher in the Journals notified on UGC CARE list during the last five years (2021-22)

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
1	Electronic and transport properties of chemically functionalized zig-zag graphene nanoribbons: First principle study	Satyendra Singh Chauhan, Premalata Narwariya, AK Srivastava, Pankaj Srivastava	Basic Science & Humanities, Institute of Technology & Management, Gwalior	Pramana Journal of Physics	Apr, 2021	0973-7111
2	Electronic and transport properties of nitrogen and boron doped zigzag silicon carbide nanoribbons: First principle study	Satyendra Singh Chauhan, Premalata Narwariya, AK Srivastava, Pankaj Srivastava	Basic Science & Humanities, Institute of Technology & Management, Gwalior	Solid State Communications	Aug, 2021	1879-2766
3	Highly luminescent CdS nanoparticles synthesized using microwave irradiation of Dithiocarbazate ligand as a single molecular precursor source	Ranjana Sharma Rajeev Singh, YC Goswami	Basic Science & Humanities, Institute of Technology & Management, Gwalior	Journal of the Australian Ceramic Society	Feb, 2021	2510-1560
4	Synthesis and Characterization of Dy Activated MgSrAl10O17 Phosphor for Luminescence	Praveen Kumar Mishra, Vipin Shrotiya, Surendra Prasad Mishra, Radha Kishan Paliwal	Basic Science & Humanities, Institute of Technology & Management, Gwalior	AIP Conference proceedings	2021	1551-7616
5	Growth And Characterisation Of Dysprosiumdoped MgSrAl10O17 Phosphor For Luminescence.	PK MISHRA, V SHROTIYA, SP MISHRA, RK PALIWAL, A VERMA, SK PATHAK	Basic Science & Humanities, Institute of Technology & Management, Gwalior	Oxidation Communications	2021	0209-4541



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6	“Network Packet Capturing and Analysis using Wireshark in IOT Network Using Cooja Simulator”	Nidhi Dandotiya, Dr. Pallavi Khatri, Abhinandan Singh Dandotiya	CSE, ITM GWALIOR	High technology Letter	Mar, 2021	1006-6748
7	Analysis and visualization of proxy caching using LRU, AVL tree and BST with supervised machine learning	Jitendra Singh Kushwah, Deepak Gupta, Anurah Shrivastava	CSE, ITM GWALIOR	Elsevier publication, Materials Today: Proceedings	Jul, 2021	2214-7853
8	Does Demographics Matter in Measuring Customer Satisfaction: Hypothetical Evidence From Indian Telecom Sector	Dr Nishant Dabhade, Dr Ankit Gupta	Department of Management, ITM Gwalior, Madhya Pradesh, Gwalior , India	The Journal of Oriental Research Madras	Aug, 2021	0022-3301
9	Impact of Compensation on Job Satisfaction and Employee Performance during Covid-19in IT Sector	Preeti Singh, Surbhi Tiwari	Department of Management, ITM Gwalior, Madhya Pradesh, Gwalior , India	Turkish Online Journal	Aug, 2021	1309-6591
10	Optimization of Process Parameters of CNC Turning Machine using Mild Steel	Dr. Ratan Kumar Jain, Narendra Kumar Verma, Amit Kumar Tiwari, Vishal Shukla	Department of Mechanical Engineering, ITM Gwalior	Journal of University of Shanghai for Science and Technology	Jul, 2021	1007-6735
11	Quality Improvement and Productivity Enhancement of a Single Screw HDPE Pipe Extrusion Machine	Neelam Baghel, Ajeet Singh Sikarwa, Anil Kumar	Department of Mechanical Engineering, ITM Gwalior	Materials today proceedings	Dec, 2021	2214-7853
12	A comprehensive review on Enhancement heat transfer in solar stills by using external techniques	Raghvendra Sharma, Deepesh Bhardwaj, Shyam Singh Raat, Ajeet Singh Sikarwa, Neelam Baghel	Department of Mechanical Engineering, ITM Gwalior	Journal of University of Shanghai for Science and Technology	Jul, 2021	1007-6735



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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
Electronic and transport properties of chemically functionalized zig-zag graphene nanoribbons: First principle study	Satyendra Singh Chauhan, Premalata Narwariya, AK Srivastava, Pankaj Srivastava	Basic Science & Humanities, Institute of Technology & Management, Gwalior	Pramana Journal of Physics	Apr, 2021	0973-7111

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Volume 95, article number 68, (2021) [Cite this article](#)

Satyendra Singh Chauhan , Premlata Narwariya, A K Srivasatava & Pankaj Srivastava

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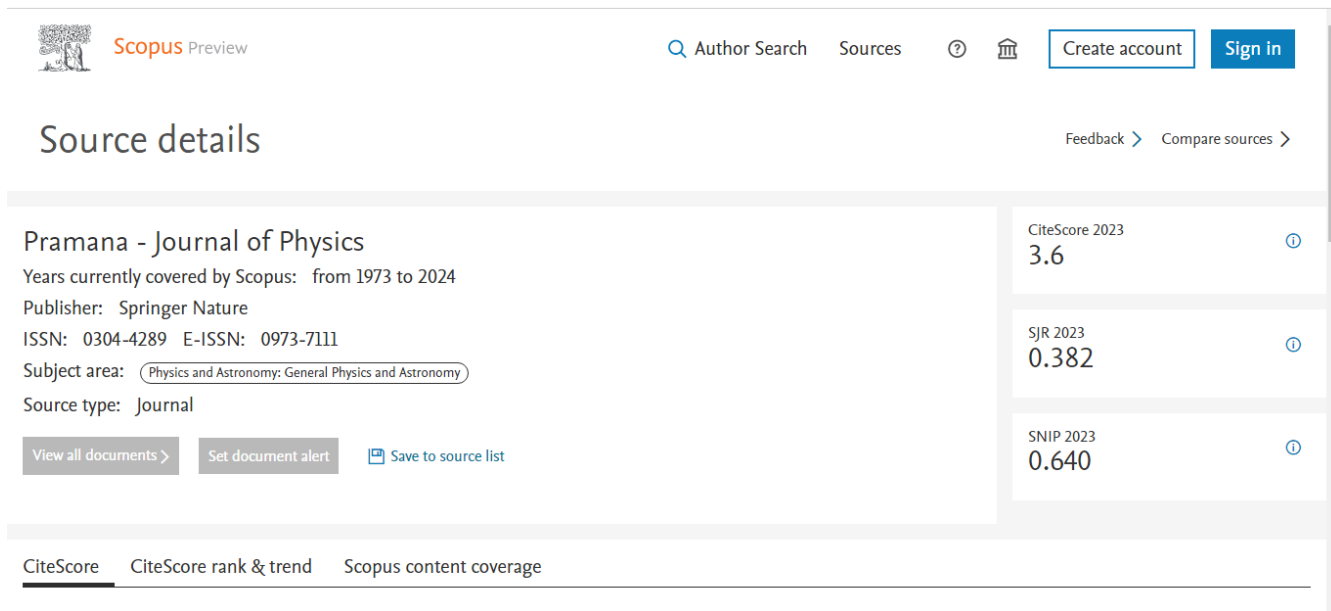


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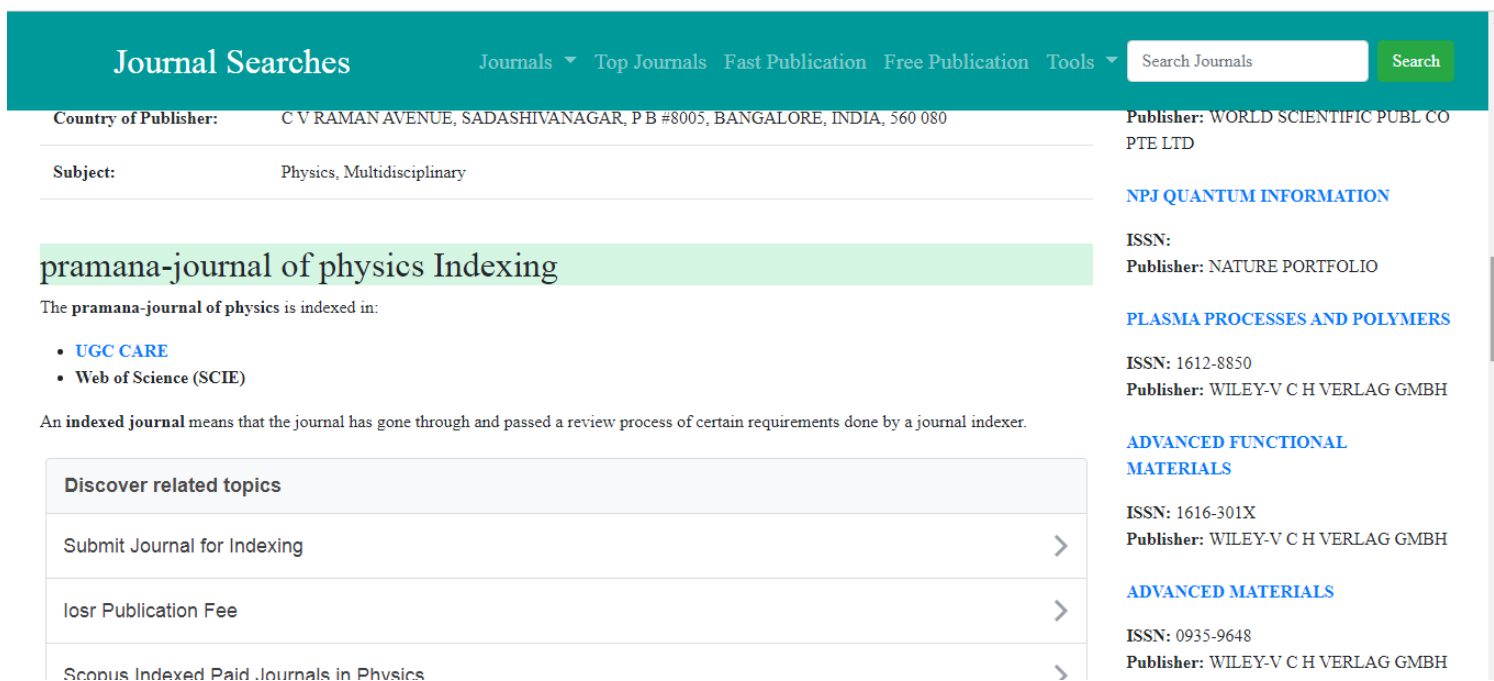
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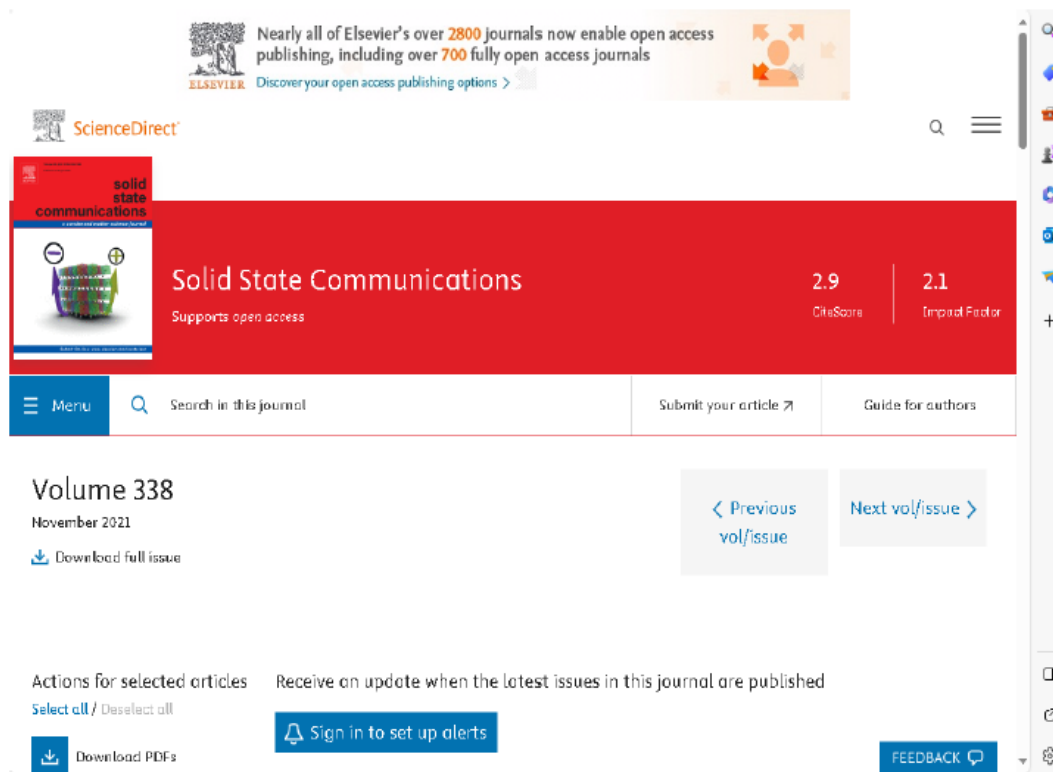


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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
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The screenshot shows the ScienceDirect article page for the paper "Electronic and transport properties of nitrogen and boron doped zigzag silicon carbide nanoribbons: First principle study". The page includes a navigation menu on the left with options like "Article preview", "Abstract", "Introduction", "Section snippets", "References [47]", and "Cited by (5)". The main content area features the journal title "Solid State Communications", volume information "Volume 338, November 2021, 114476", and the article title. Authors listed are Satyendra Singh Chauhan, Premalata Narwariya, A.K. Shrivastava, and Pankaj Srivastava. The page also has a "Recommended articles" section on the right with titles like "Ferromagnetism in zigzag GaN nanoribbons with tunable hal..." and "Electronic properties and spintronic applications of r-N...". At the bottom, there are options to "Add to Mendeley", "Share", and "Cite", along with a "FEEDBACK" button.



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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
Highly luminescent CdS nanoparticles synthesized using microwave irradiation of Dithiocarbazate ligand as a single molecular precursor source	Ranjana Sharma Rajeev Singh, YC Goswami	Basic Science & Humanities, Institute of Technology & Management, Gwalior	Journal of the Australian Ceramic Society	Feb, 2021	2510-1560

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Ranjana Sharma, Rajeev Singh, Y. C. Goswami, [✉ Vijay Kumar & D. Kumar](#)

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Abstract

In this paper, we have reported microwave-assisted synthesis of highly luminescent cadmium sulfide nanocrystals using dithiocarbazate Cd (II) chloride complex single-molecule precursor route. The precursors were heated using microwave irradiation to

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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
Synthesis and Characterization of Dy Activated MgSrAl10O17 Phosphor for Luminescence	Praveen Kumar Mishra, Vipin Shrotiya, Surendra Prasad Mishra, Radha Kishan Paliwal	Basic Science & Humanities, Institute of Technology & Management, Gwalior	AIP Conference proceedings	2021	1551-7616

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Image -Abstract

Synthesis and Characterization of Dy Activated MgSrAl₁₀O₁₇ Phosphor for Luminescence

Praveen Kumar Mishra^{1, a)}, Vipin Shrotriya^{2, b)}, Surendra Prasad Mishra³ and
Radha Kishan Paliwal¹

¹Department of Physics, Mewar University Gangrar, Chittorgarh, Rajasthan, India

²ITM Group of Institutions, Gwalior, M.P., India

³Department of Radiotherapy, Dr. R.M.L. Institute of Medical Sciences, Lucknow, India

^{a)}Corresponding author: praveenbarcl@yahoo.co.in

^{b)}vipinshrotriya@gmail.com

Abstract: MgSrAl₁₀O₁₇:x Dy³⁺ nanophosphors were fabricated by combustion method for different concentrations (x = 0, 0.0005, 0.001, 0.005, 0.01 and 0.02 mol) of Dysprosium (Dy). The synthesized nanophosphors were characterized by XRD, SEM, and PL. The XRD (X-ray diffraction) showed crystalline hexagonal structure with preferred orientation of (107) plane. SEM (Scanning electron microscope) result shows the formation of nanosheets in irregular shape. The PL (photoluminescence) characterization of MgSrAl₁₀O₁₇:0.02 Dy³⁺ phosphor exhibits two main emission peaks at 484 and 575 nm due to Dy³⁺ ion. When excited with 350 nm wavelength, emission of the Dy³⁺ luminescence is close to white region and hence MgSrAl₁₀O₁₇:x Dy³⁺ phosphor can be a good candidate in solid state lighting for white light emission.



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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
GROWTH AND CHARACTERISATION OF DYSPROSIUMDOPED MgSrAl10O17 PHOSPHOR FOR LUMINESCENCE.	PK MISHRA, V SHROTIYA, SP MISHRA, RK PALIWAL, A VERMA, SK PATHAK	Basic Science & Humanities, Institute of Technology & Management, Gwalior	Oxidation Communications	2021	0209-4541

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The screenshot shows the homepage of the journal 'Oxidation Communications'. On the left, there is a navigation menu with options: 'Browse', 'Issues' (highlighted in blue), 'Articles', and 'Authors'. Below this is a 'Filter' section with 'by Issue' and a list of years from 2024 down to 1995. There is also a 'by Volume' section. The main content area is titled 'Issues' and shows a list of issues. The top issue is 'Year: 2024' with a cover image for 'Volume: 47, Issue: 1' from 'Year: 2024'. Below it, the 'Year: 2023' section shows three issue covers: 'Vol. 46 No 4 2023', 'Vol. 46 No 3 2023', and 'Vol. 46 No 2 2023'. A 'Login' link is visible in the top right corner.



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GROWTH AND CHARACTERISATION OF DYSPROSIUMDOPED MgSrAl₁₀O₁₇ PHOSPHOR FOR LUMINESCENCE.

Authors

MISHRA, P. K.; SHROTRIYA, V.; MISHRA, S. P.; PALIWAL, R. K.; VERMA, A.; PATHAK, S. K.

Abstract

In this report, MgSrAl₁₀O₁₇:xDy³ nanophosphors were fabricated by combustion method for different concentrations (x = 0, 0.0005, 0.001, 0.005, 0.01 and 0.02) of Dysprosium (Dy). The synthesised nanophosphors were characterised by XRD, SEM, TEM, FTIR, PL, and TL. The XRD (X-ray diffraction) showed crystalline hexagonal structure



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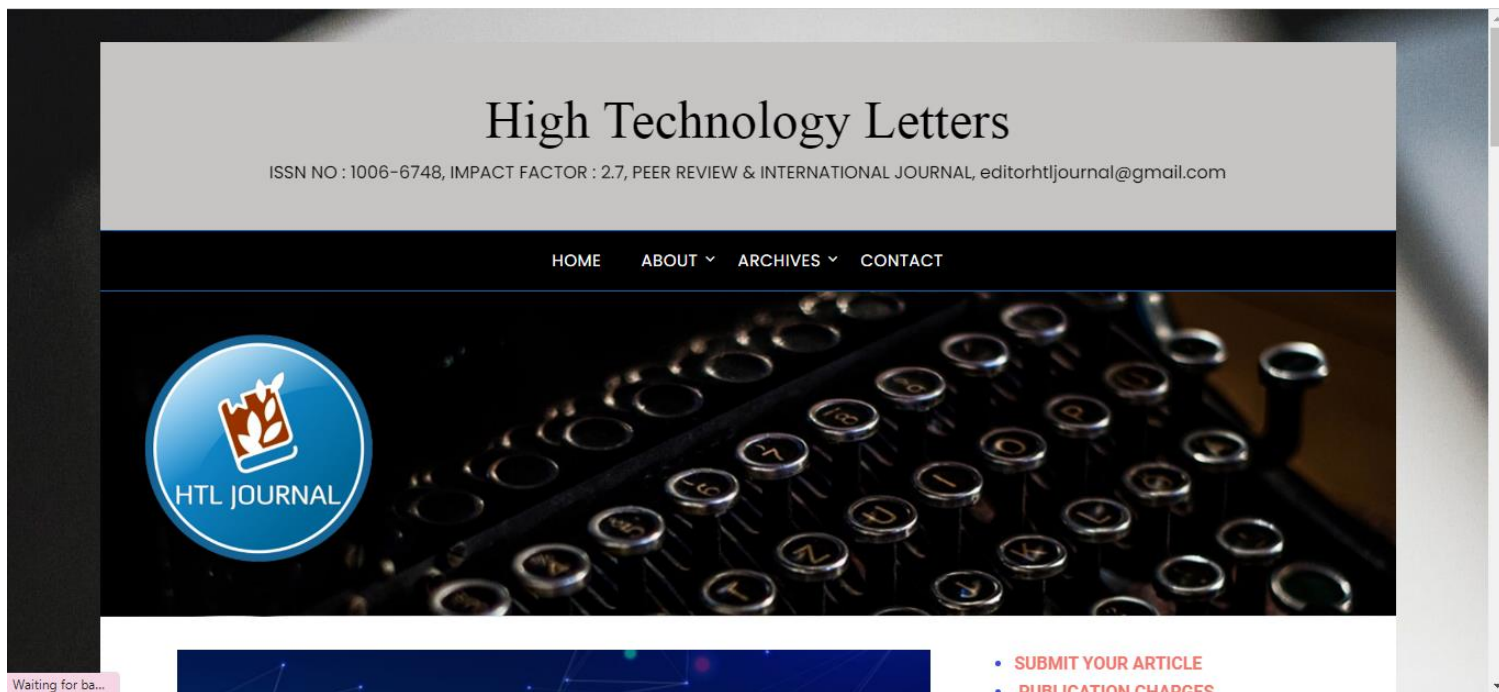



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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
“Network Packet Capturing and Analysis using Wireshark in IOT Network Using Cooja Simulator”	Nidhi Dandotiya, Dr. Pallavi Khatri, Abhinandan Singh Dandotiya	CSE, ITM GWALIOR	High technology Letter	Mar, 2021	1006-6748

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High Technology Letters

ISSN NO : 1006-6748

Network Packet capturing and Analysis using Wire shark in IoT Network Using Cooja Simulator

Nidhi Dandotiya^{*1}, Pallavi Khatri^{*2}, Abhinandan Singh Dandotiya^{*3}

Assistant Professor CSA Deptt., ITM University^{*1}, Associate Professor CSA Deptt. , ITM
University^{*2}, Assistant Professor CSE Deptt. ,ITM GOI^{*3}

nidhi.birhare.mca@itmuniversity.ac.in^{*1}, pallavi.khatri.cse@itmuniversity.ac.in^{*2}, abhinandansingh.dandotiya@itmgoi.in^{*3}

Abstract

Internet of Things (IoT) is the new era coming up. IoT devices have become very popular in our daily lives. IoT devices collect data using sensors and store that data on the cloud. Every data transaction uses a routing protocol from the protocol stack. Communication analysis of the network can be done with the help of traces of communication. All communications done over the network can be retrieved using Wireshark network analyzer. This work discusses the analysis of an IoT network deployed on Cooja simulator using contiki operating system. Wireshark, already integrated with Contiki helps in capturing the packets during a communication and can be analyzed. This work presents the process of creating an IoT network, capturing the logs and analyzing them.

Keywords:- Cooja, Wireshark, Routing Protocol, IoT

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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
Analysis and visualization of proxy caching using LRU, AVL tree and BST with supervised machine learning	Jitendra Singh Kushwah, Deepak Gupta, Anurah Shrivastava	CSE, ITM GWALIOR	Elsevier publication, Materials Today: Proceedings	Jul, 2021	2214- 7853

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Analysis and visualization of proxy caching using LRU, AVL tree and BST with supervised machine learning

Jitendra Singh Kushwah ^a, Deepak Gupta ^{a,*}, Anurag Shrivastava ^b, P. Ambily Pramitha ^c, John T. Abraham ^d, Munindra Lunagarla ^e

^aDepartment of Computer Science and Engineering, Institute of Technology and Management, Gwalior, Madhya Pradesh, India
^bPrincipal and Professor ECE, Lakshmi Narain College of Technology and Science, Indore, Madhya Pradesh, India
^cBharathiyar University, Coimbatore, Tamil Nadu, India
^dBharata Mata College, Thrikkakara, Kochi, Kerala, India
^eComputer Engineering Department, Marwadi University, Rajkot, Gujarat, India

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Keywords:
 Proxy Server
 LRU
 AVL tree
 BST
 Access time
 Analysis
 Visualization
 Machine learning

ABSTRACT

Proxy cache access speeds and decreases load time. There is an uncertainty regarding cache level 2 which you neglect. This research shall investigate the L1 cache, primary cache, and L2 cache as a secondary proxy server cache. LRU is typically utilised instead of cache. LRU for cold cache removal used to be a time-consuming process, but it isn't particularly efficient today. The performance of the cache L1 used LRU and L2 used LRU_AVL has risen with these solutions. The output is the LRU_AVL among other ways that utilize LRU tables and graphs. proxy cache LRU, LRU_AVL, and LRU_BST have average time of access calculated. Median access time is estimated using Python tools including Pandas, Matplotlib as well as LRU, LRU_AVL, and LRU_BST. This research will anticipate the average period of usage of LRU, LRU_AVL, and LRU_BST cache algorithms.
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1. introduction

This age is an era of the Internet. Each user cannot be entirely pleased with the increasing number of users. Thus, the server and client issues between the proxy servers may be resolved. It is important to have a quick response time for every user. The proxy server caching is utilized for quick user response. The cache helps you maintain your bandwidth and network traffic efficiency. It allows fast access to the proxy server cache manages. The increasing rise of multimedia streaming apps, Internet multimedia servers and wireless network play an important part in traffic. The cache proxy is an excellent way to remove traffic from the network and reduce latency via caching. To date, the multimedia proxy on the Internet has specific duties [1].The cache proxy is an internet/network caching solution that supplies proxy's proxy server with cacheable data for backup of recently accessed pages and

most commonly used website queries and information that need more than one user request. This is a procedure for minimizing time of access to the website and site requests from proxy server resources. The web proxy cache is also referred to. Actually, the caching proxy reduces the website access time and reduces the utilization of data download and bandwidth. It works on a proxy server that analyzes or maintains specified amounts of the pages of web sites and/or Internet resources often utilized. The proxy server [2] can swiftly respond and supply data from any website, which satisfies the data stored locally in a proxy cache or when a customer requests a resource. In order to identify usable information for decision-making, data analysis is used to clean, transform, and model the data. The objective of Data Analysis is to extract data and to decide on the basis of the demand. Data analysis is always done in our everyday lives, by picking the precise choices, to think about what happened before or what happens later. Data analysis is nothing but analysis and extract of our past and next judgments on the basis of it, and the Data Analysis is also termed.

Massive volumes of data have been shown in such a way that they are easily accessible and understood. Massive volumes of data

* Corresponding author.
 E-mail addresses: Deepakgupta@itmgoi.in (D. Gupta), munindra.lunagarla@marwadieducation.edu (M. Lunagarla).

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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
Does Demographics Matter in Measuring Customer Satisfaction: Hypothetical Evidence From Indian Telecom Sector	Dr Nishant Dabhade, Dr Ankit Gupta	Department of Management, ITM Gwalior, Madhya Pradesh, Gwalior , India	The Journal of Oriental Research Madras	Aug, 2021	0022-3301

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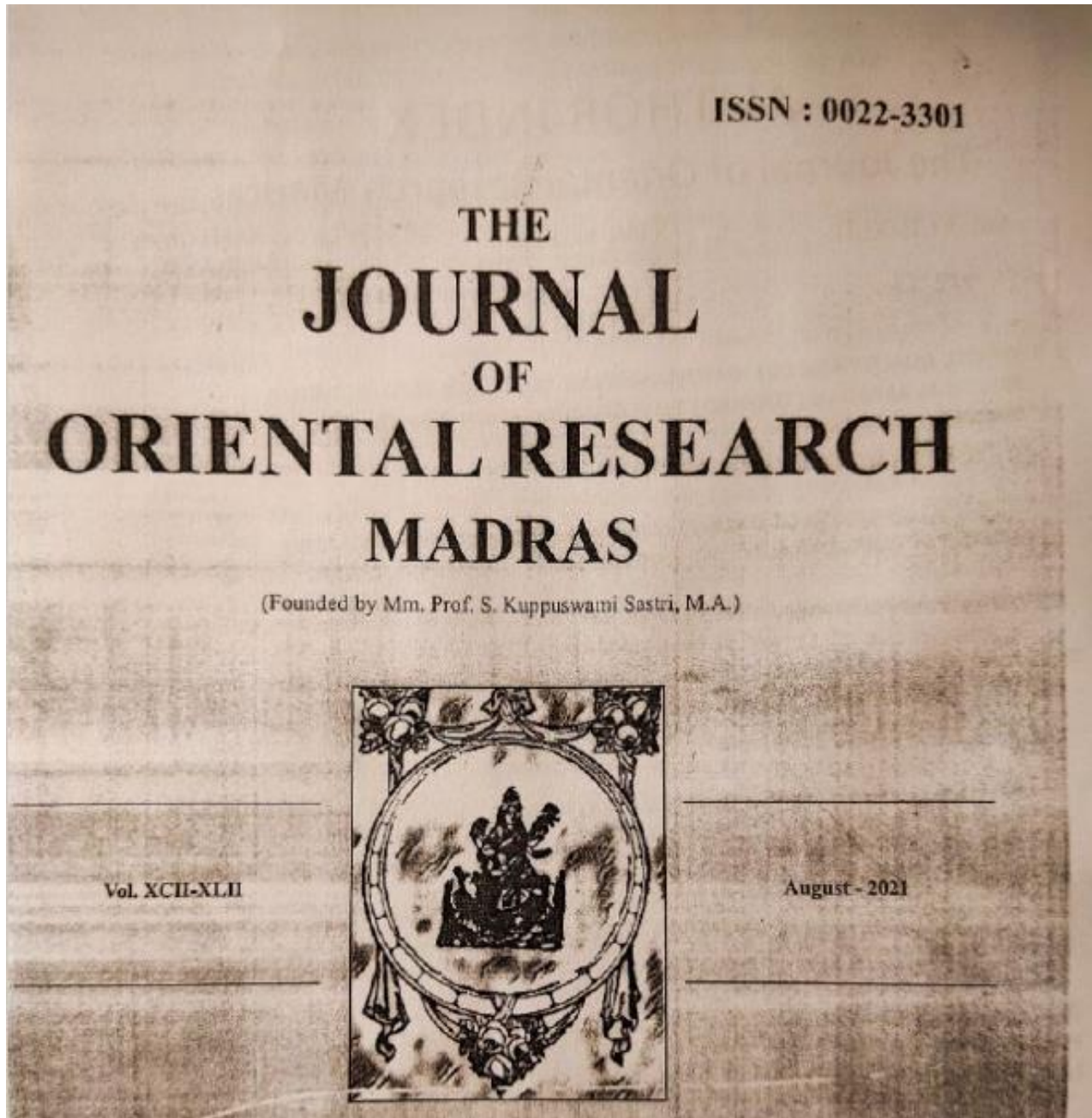


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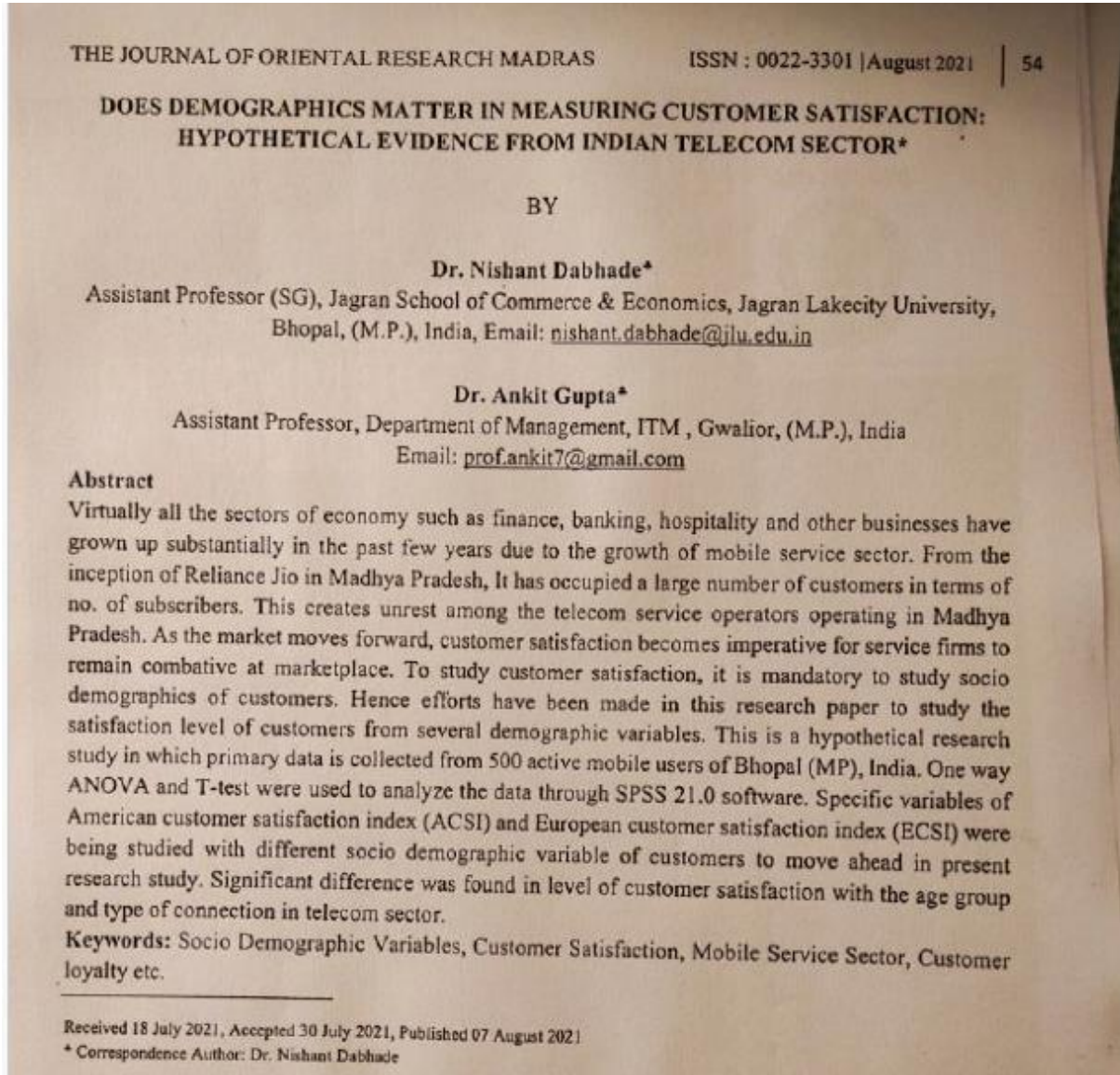
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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
Impact of Compensation on Job Satisfaction and Employee Performance during Covid-19 in IT Sector	Preeti Singh, Surbhi Tiwari	Department of Management, ITM Gwalior	Turkish Online Journal	Aug, 2021	1309-6591

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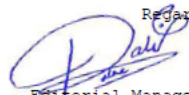
Dear Authors,
Dr. Preeti Singh, Associate Professor
ITM Gwalior
Dr. Surbhi Tiwari, Asst. Professor
ITM Gwalior

Date of Acceptance : 09-08-2021
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Title: "Impact of Compensation on Job Satisfaction and Employee Performance during Covid-19 in IT Sector"

After peer review process, your article has been provisionally accepted for publication in TURKISH ONLINE JOURNAL OF QUALITATIVE INQUIRY, in the forthcoming issue, 2021.

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Image – Abstract

Dr. Preeti Singh¹, Dr. Surbhi Tiwari²

Turkish Online Journal of Qualitative Inquiry (TOJQI)
Volume 12, Issue 7, July 2021: 7438 - 7459

Research Article

“Impact of Compensation on Job Satisfaction and Employee Performance during Covid-19 in IT Sector”

Dr. Preeti Singh¹, Dr. Surbhi Tiwari²

¹Associate Professor, ITM Gwalior

²Asst. Professor, ITM Gwalior

Abstract:

In this research paper we have attempted to target IT sector employees and measured impact of compensation on job satisfaction during pandemic. The majority organizations look at how to retain skilled workers as information technology has gone from common to established. And employee turnover is very high in this industry so compensation is one of the important tools which may attract and retain the skilled and qualified employee in the organisation, retaining experienced information technology employees has turned into extra complication. Consequently, this study focused on the technology employees in Bangalore city in Karnataka state. The primary objective of this study is to determine the levels of job satisfaction amongst information technology employees in the context of compensation structure. The sample group (N = 45) We have included across the following occupational classes: Individual contributor, junior level management, Middle level management, senior level management. The Job Descriptive Index questionnaire (JDI) measures job satisfaction on five job facets, namely, salary, promotions, working conditions, co-workers and the work life balance itself. Descriptive statistics were used to analyze the data. A biographical questionnaire and the Job Descriptive Index questionnaire (JDI) were administered to gather the data. This paper reviewed presented literature to get what other researchers have done to make sure that IT employees obtain job satisfaction.

Keywords: Occupation class, Job satisfaction, Information technology, Organizations, Compensation structure.

Introduction:

This study aims to limit the effect of Compensation on Job Satisfaction and Employee Performance during Covid-19 in the IT Industry. As we all know the pandemic has badly affected the entire world. As the coronavirus disease (COVID-19) pandemic continues and the economic consequences are becoming increasingly severe, this post data analysis and its impact on private company compensation programs at this time of economic uncertainty in India. Without making appropriate adjustments to compensation programs to account for the impact of COVID-19, it would be a problem for the companies if they are not reviewing and revising the monetary and non-monetary compensation. Many of the organizations are doing layoff, retrenchment and salary deductions during the pandemic, but on the other hand many sectors provide a good compensation structure to their employees for increasing their performance and providing satisfaction for their work.

As time is very crucial for every employee to have complete financial security as a kind of insecurity has developed in the minds of employees due to total shut down and companies starting deductions. Compensation

7438




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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
Optimization of Process Parameters of CNC Turning Machine using Mild Steel	Dr. Ratan Kumar Jain, Narendra Kumar Verma, Amit Kumar Tiwari, Vishal Shukla	Department of Mechanical Engineering, ITM Gwalior	Journal of University of Shanghai for Science and Technology	Jul, 2021	1007-6735

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Optimization of Process Parameters of CNC Turning Machine using Mild Steel

Authors

Dr. Ratan Kumar Jain, Professor/Dean, Assistant Professors, Amit Kumar Tiwari, Vishal Shukla, Narendra Kumar Verma
Department of Mechanical Engineering, ITM University (Gwalior), India.



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Optimization of Process Parameters of CNC Turning Machine using Mild Steel

“Dr. Ratan Kumar Jain¹, Amit Kumar Tiwari², Vishal Shukla², Narendra Kumar Verma²”

Professor/Dean¹, Assistant Professor²

Department of Mechanical Engineering, ITM University (Gwalior), India

Abstract

In today's life, the realization of a fine surface finish is the main objective of the metal cutting industry during the turning processes. This work consists of an analysis of the work carried out by the researchers in the field of turning process parameters, to Examine the impact of speed, cutting speed (feed), and depth of cut in a computer numeric control machine. This study will provide insight into current trends research in the area of Taguchi, Grey Relational Analysis, Response Surface Method, ANOVA & CNC Turning.

Keywords: CNC Machine, Taguchi, ANOVA, GRA

1. Introduction

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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
Quality Improvement and Productivity Enhancement of a Single Screw HDPE Pipe Extrusion Machine	Neelam Baghel, Ajeet Singh Sikarwa, Anil Kumar	Department of Mechanical Engineering, ITM Gwalior	Materials today proceedings	Dec, 2021	2214-7853

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Quality improvement and productivity enhancement of a single screw HDPE pipe extrusion machine: A case study

Neelam Baghel^a, Ajeet Singh Sikarwar^b, Anil Kumar^{a,c,*}

^a Department of Mechanical Engineering, Delhi Technological University, Delhi 110042, India

^b Department of Mechanical Engineering, Institute of Technology and Management, Gwalior 475001, India

^c Centre for Energy and Environment, Delhi Technological University, Delhi 110042, India

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Available online 24 December 2021

Keywords:
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ABSTRACT

In the HDPE pipe manufacturing industry, power consumption is the main factor that increases the product's manufacturing cost. This paper aims to reduce the power consumption and increase the surface finish of the HDPE pipe. This work highlights the increase in production efficiency of HDPE pipe factory. First, consider power consumption reduction by using gearbox in the place of no. of pulleys and belt drive and also by this gearbox, the motor size has also reduced which reduces the power consumption and increases the plant's efficiency. Second, to improve the surface quality of the pipe, a cooler is used as a cooling tower to reduce the temperature of the water used to cool down the temperature of the pipe. Results after Modifications around 50% cost of power consumption is reduced per machine and overall power consumption of the plant is reduced by 45.45%.
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1. Introduction

The growth in thermoplastic marketplace is rising very speedy as a substitution of cement, wooden, and metal products. Around 80% of the consumed plastic is thermoplastic. HDPE pipes are extensively used thermoplastic for water pipelines, industrial pipelines, mining, cable ducts, etc., because they do not require high maintenance and repair costs. The most important thing is that it is a biodegradable source like fossil fuel it only requires a huge area for degradation. Nowadays, due to the high requirement

mainly one defect type. More complications would need a bigger set of experiments; the study recommends it be worth it as the defective product's percentage rate is elevated.

Jadayil et al. [2] concluded that the HDPE pipe manufacturing process's environmental brunt was conceded out in an Indian manufacturing organization. Two-phase (i.e. manufacturing and EoL) of HDPE pipe life cycle also influences approximately all sets of environmental impact assessment. Therefore, the research should pay attention to the raw material part of the HDPE manufacturing process and EoL. The most important phase for HDPE material manu-



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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number
A comprehensive review on Enhancement heat transfer in solar stills by using external techniques	Raghvendra Sharma, Deepesh Bhardwaj, Shyam Singh Raat, Ajeet Singh Sikarwa, Neelam Baghel	Department of Mechanical Engineering, ITM Gwalior	Journal of University of Shanghai for Science and Technology	Jul, 2021	1007-6735

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A comprehensive review on Enhancement heat transfer in solar stills by using external techniques.

Raghvendra Sharma^{a*}, Deepesh Bhardwaj^b, Shyam Singh Rawat^c, Ajeet Singh Sikarwar^d, Neelam Baghel^e

Mechanical Engg. Deptt., Institute of Technology management Gwalior, M.P., 474001, India

Abstract

Water is resuscitative to the life cycle and the provision of drinking water; it can hardly be overcome in the current years. The defiance for human being currently faces of filtered water and the lack of renewable energy. Solar energy is an undesirable way of converting palpable water into fresh water using extraordinary energy sources that are readily obtainable on earth. The main problem with the conventional basin is still that the production is very insignificant. The most notable design parameters that influence productivity are the optimization of solar radiation, evaporation area and water temperature. This paper intentions to give a comprehensive review about that the coalition of appropriate solar stills or improved designs that can favor the solar energy heat gain improves the overall performance of the system. Constructed on the current approach, a perspective conclusion has been made after the rich discussion with the help of distinctive information about the systems.

Keyword: solar still; distillation; heat transfer; solar radiation

1. Introduction

The world population and development of recent industry is increasing with a fast speed throughout the past years. the requests for freshwater and energy are growing quicker than ever. Freshwater is a necessity for different purposes like households use, agricultural use etc. To achieve this demand, necessity of fresh water is essential




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