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July 2019

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Authors:



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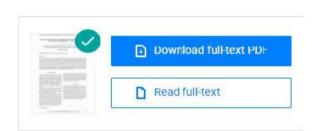
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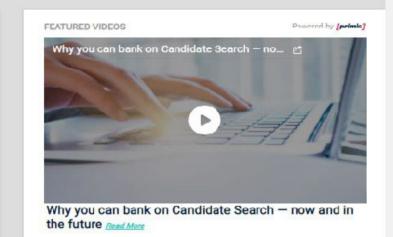


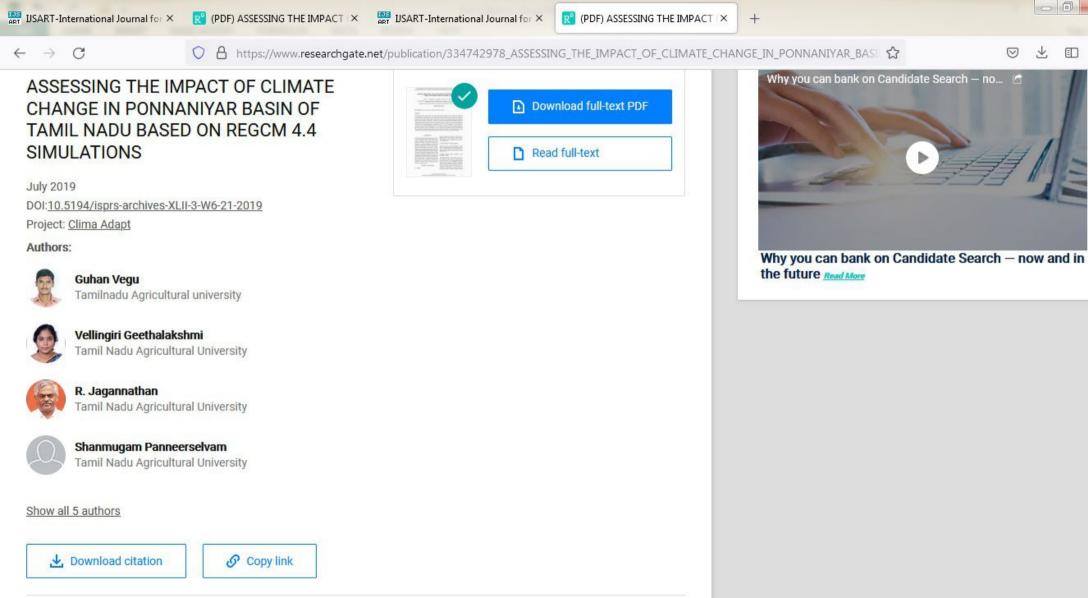
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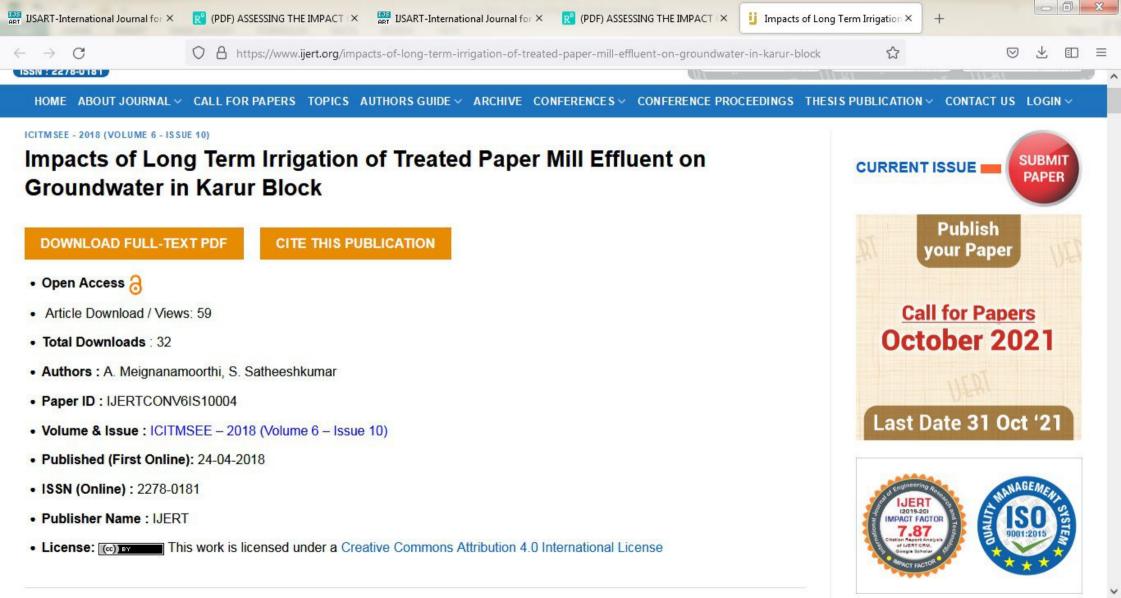


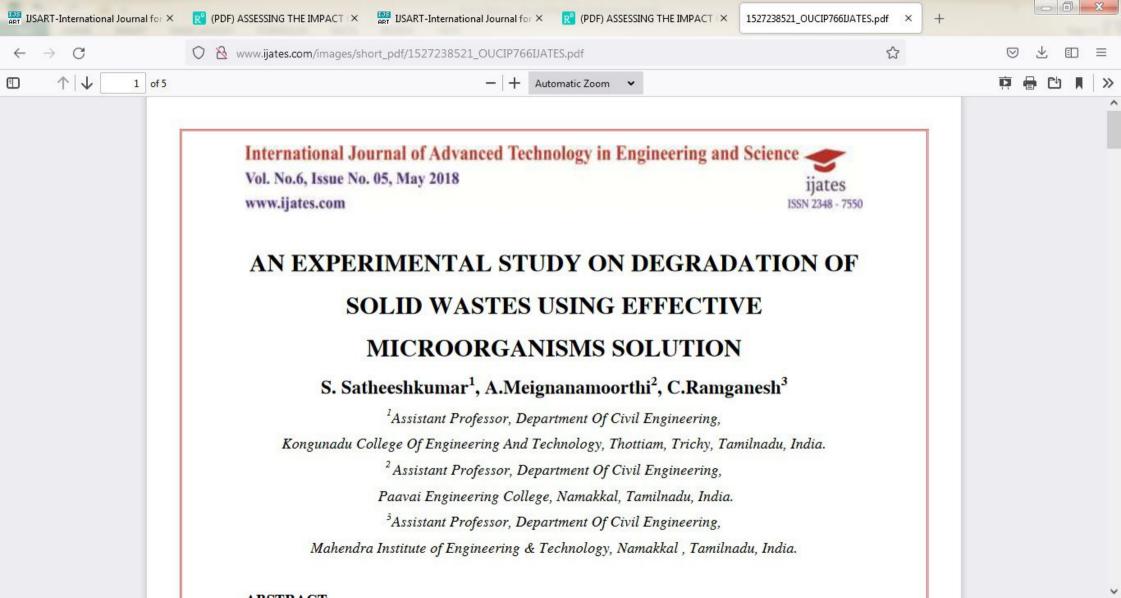


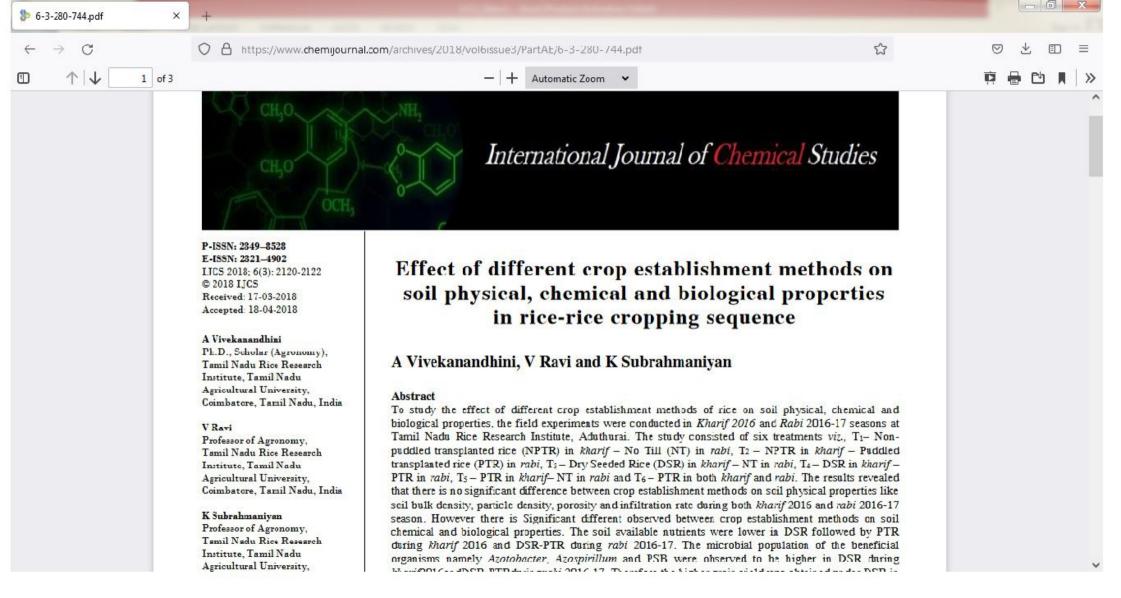




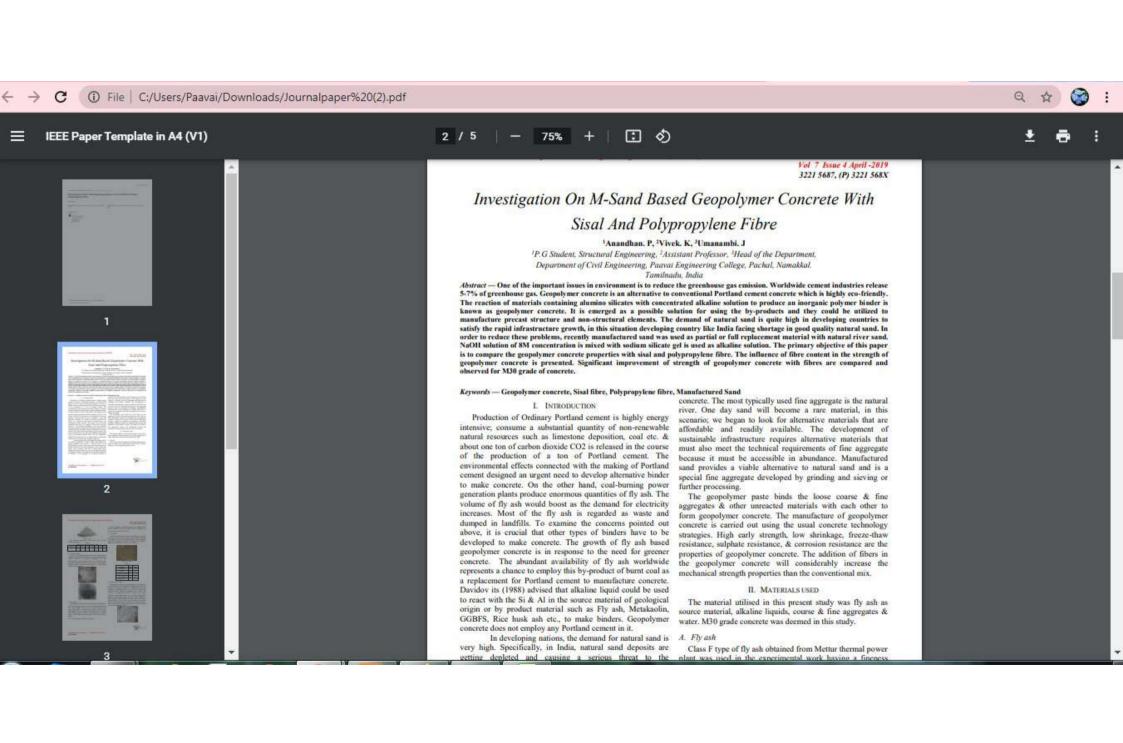
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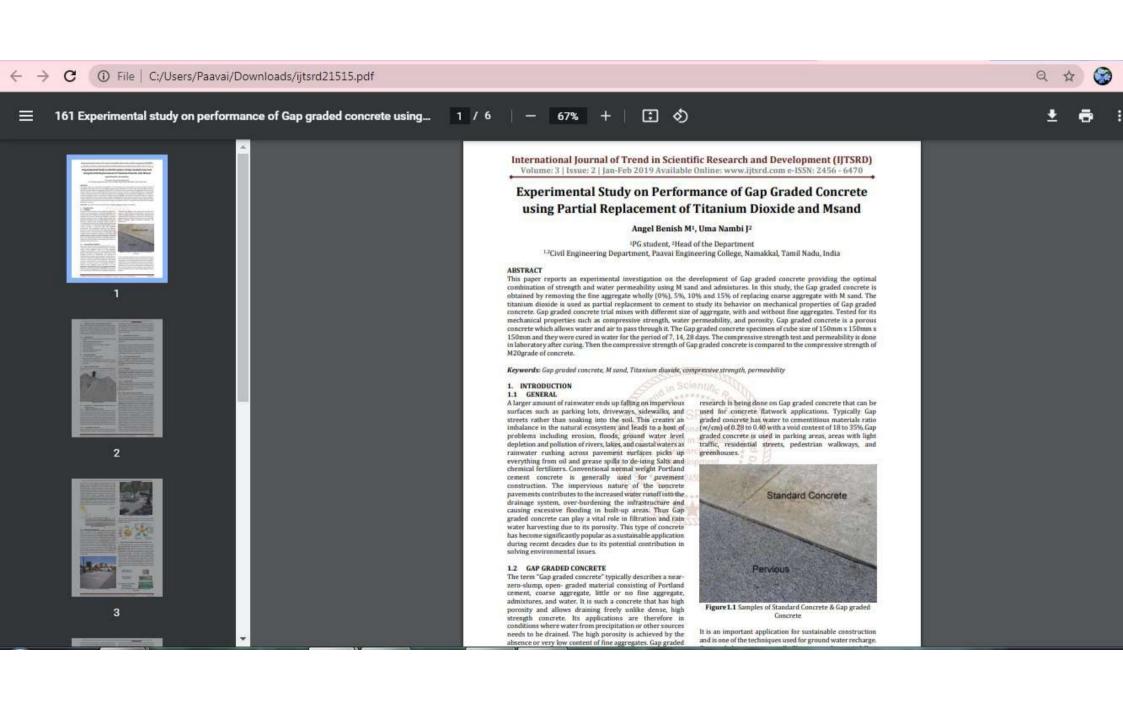


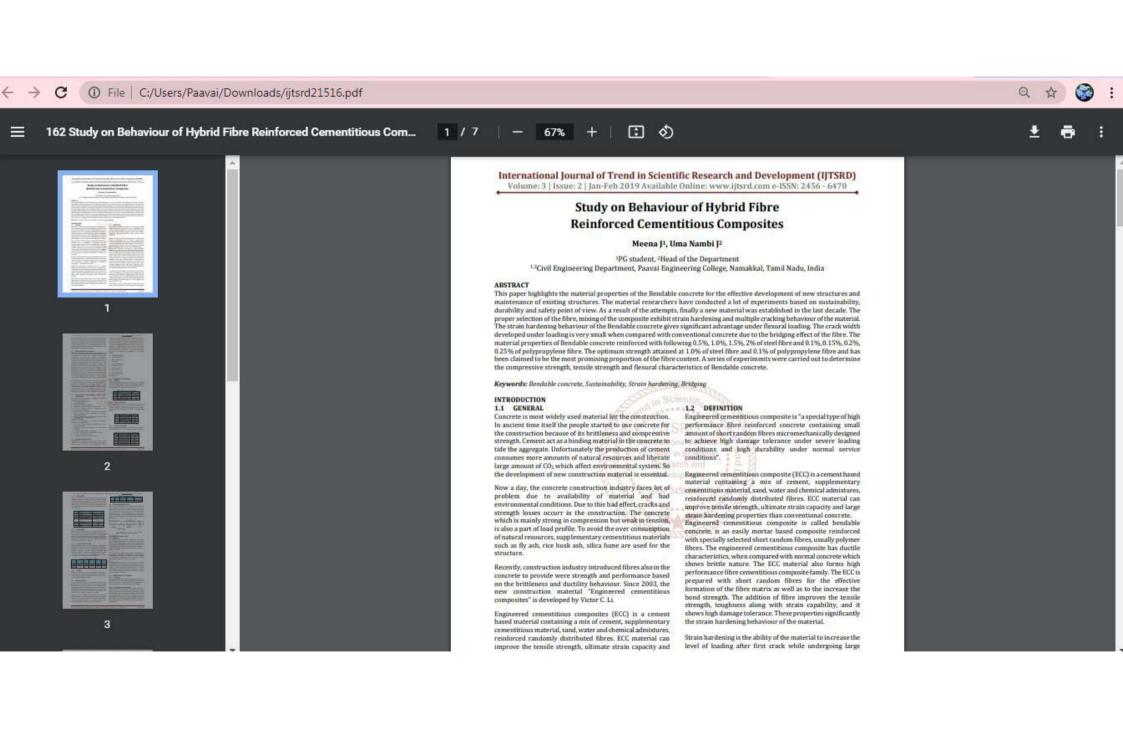


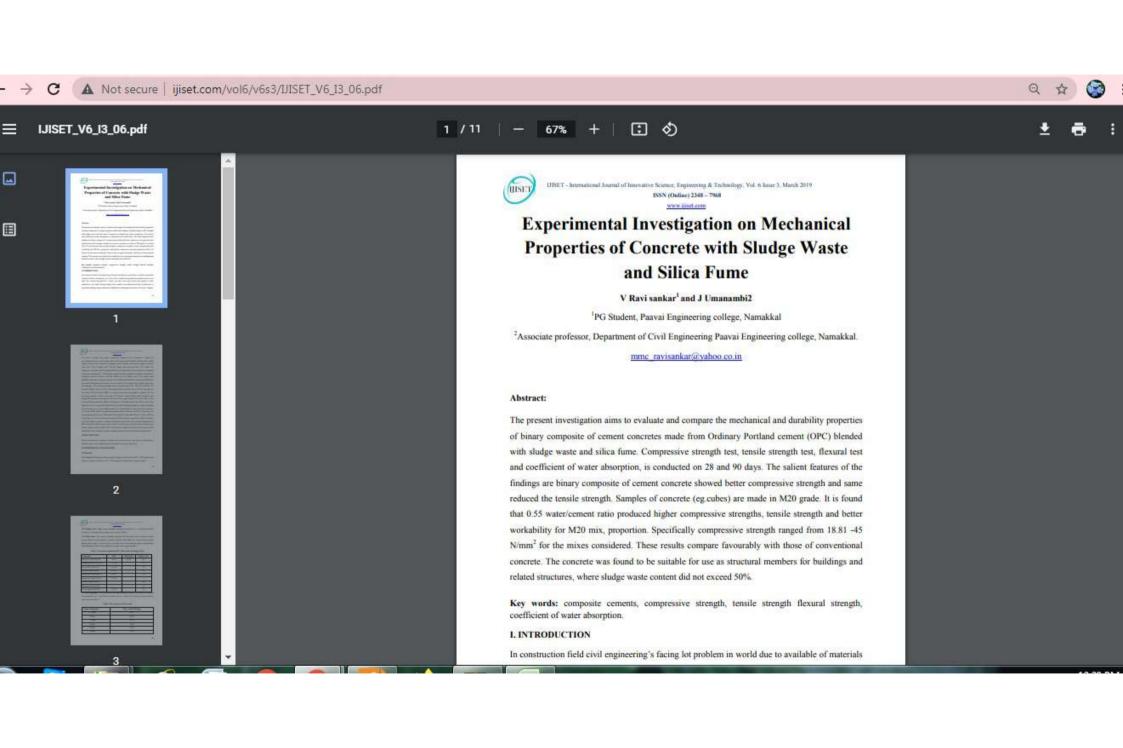


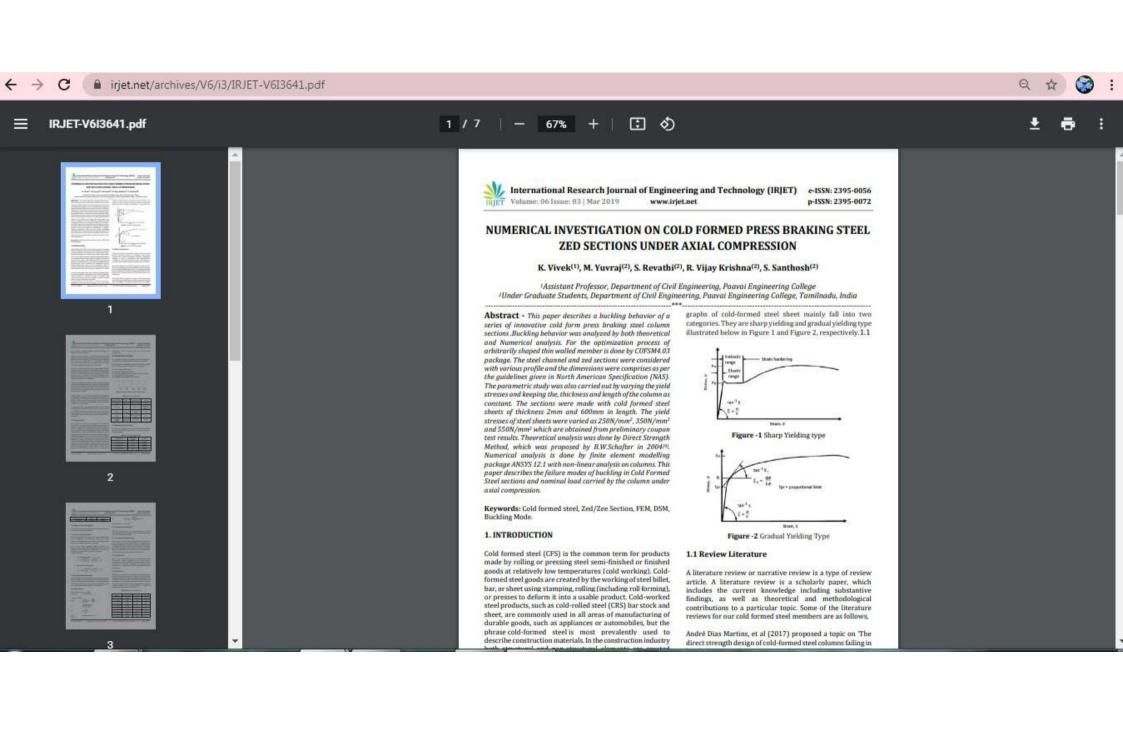


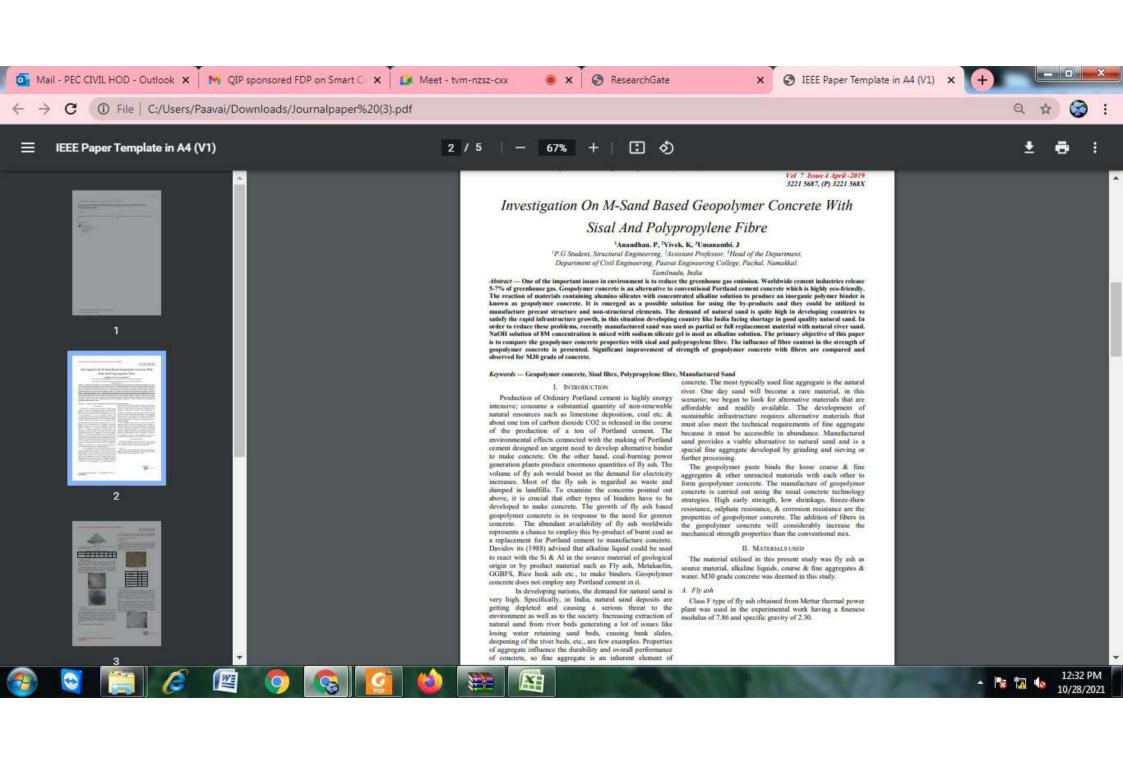








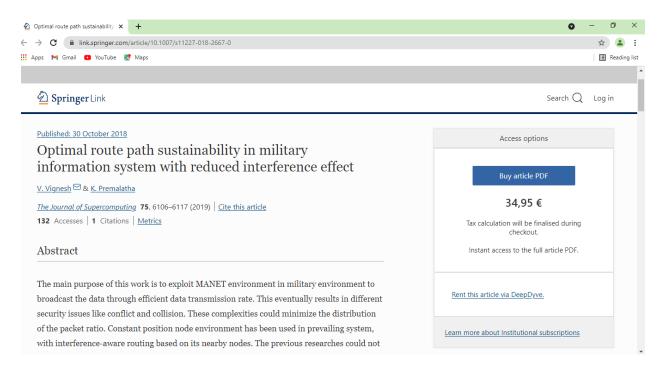


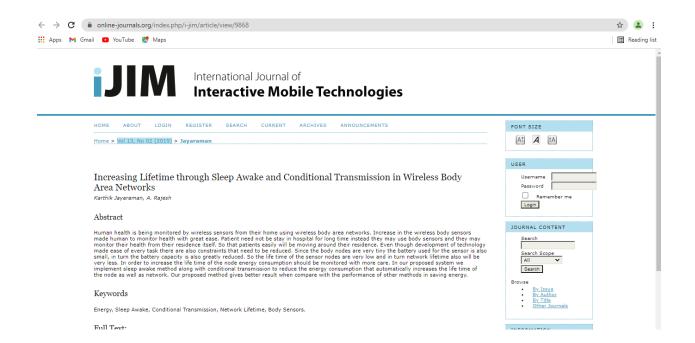


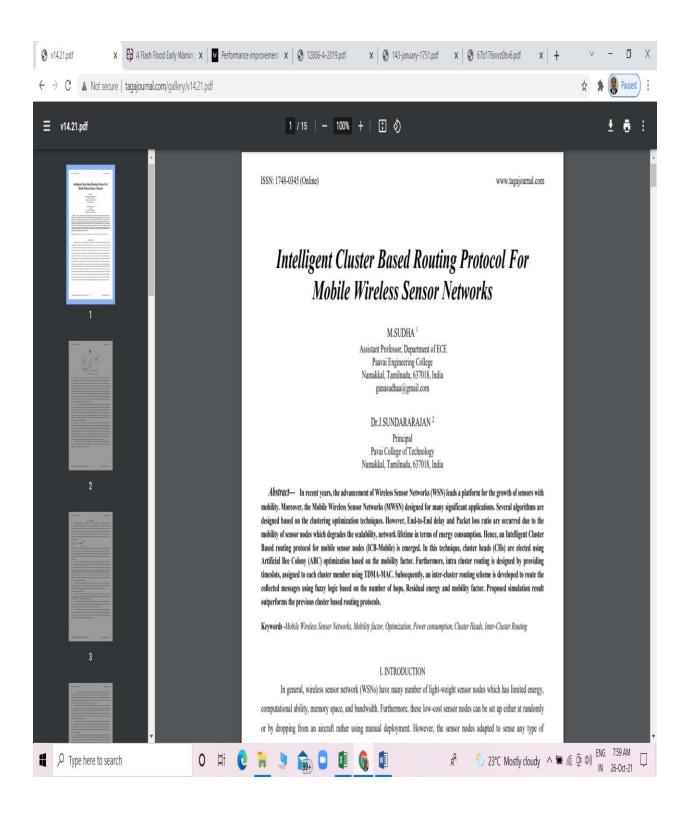


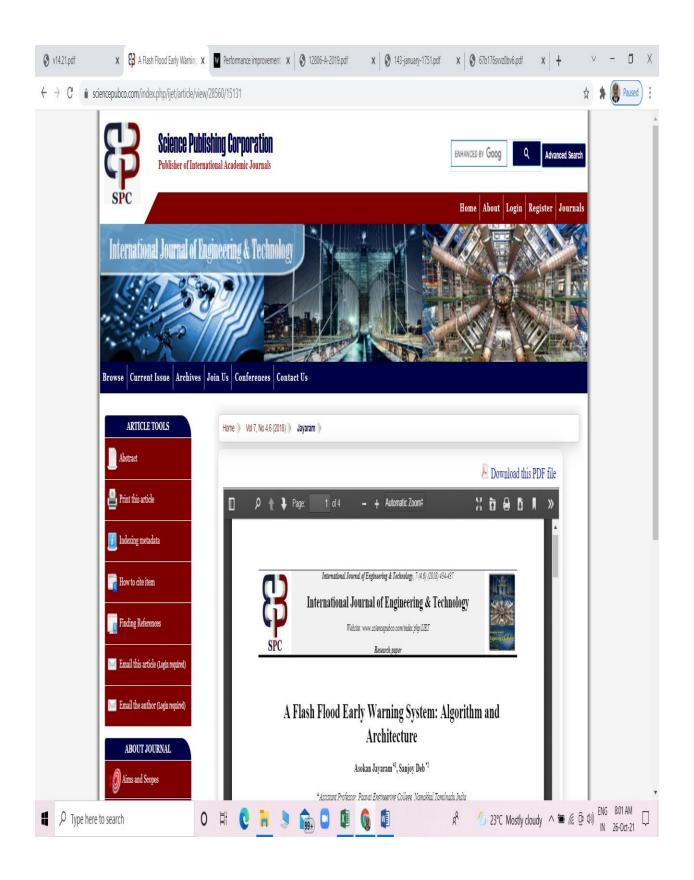
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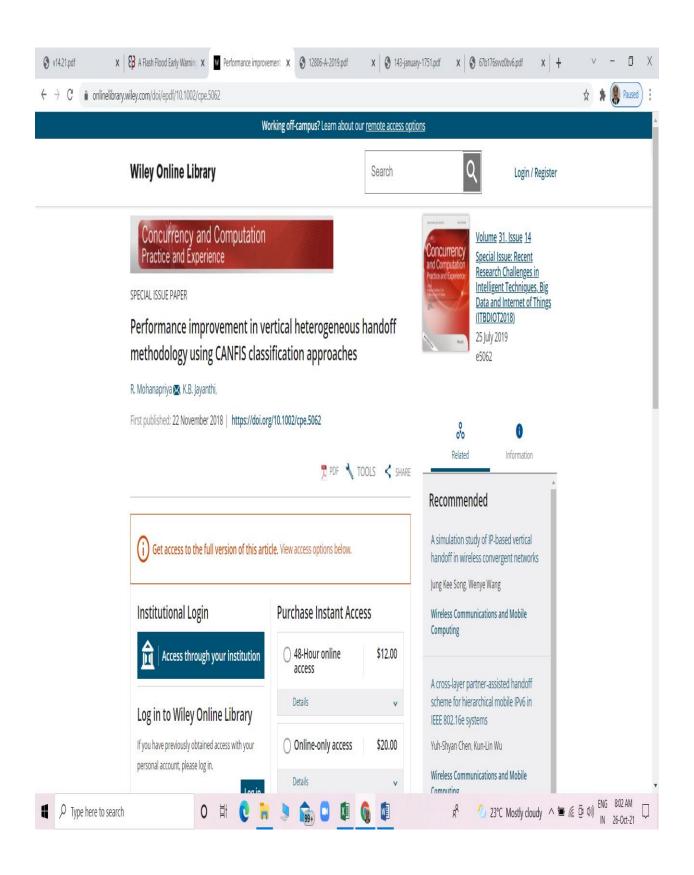


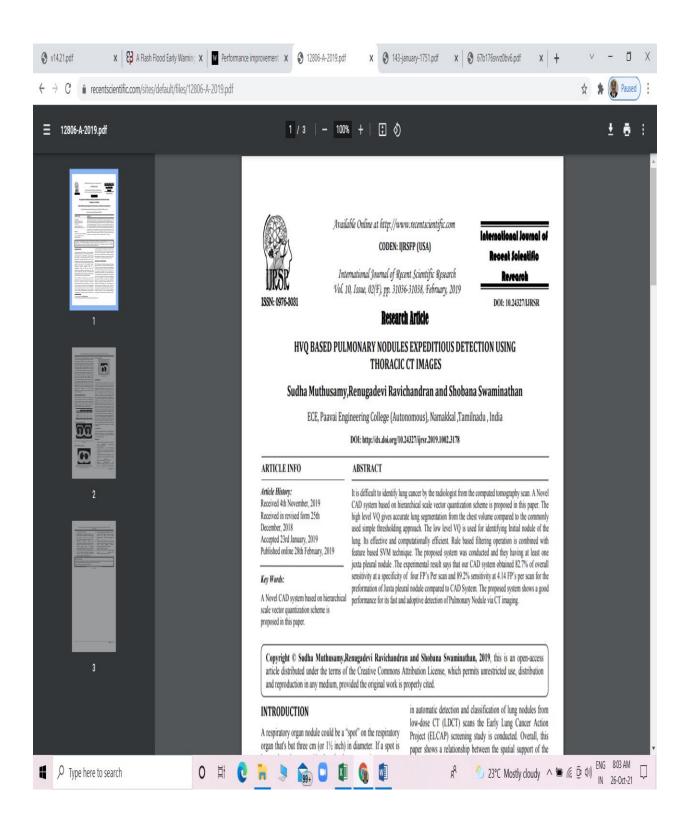


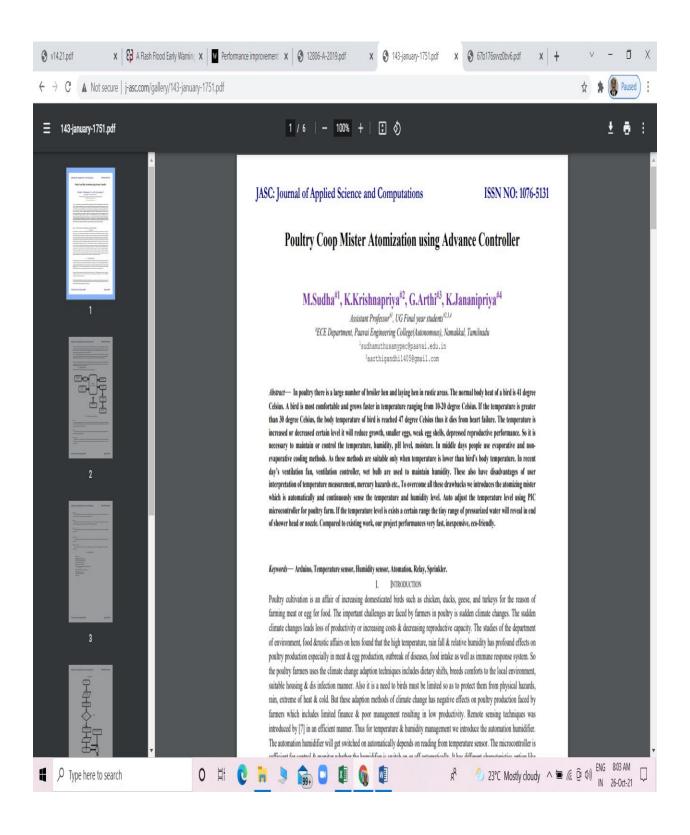




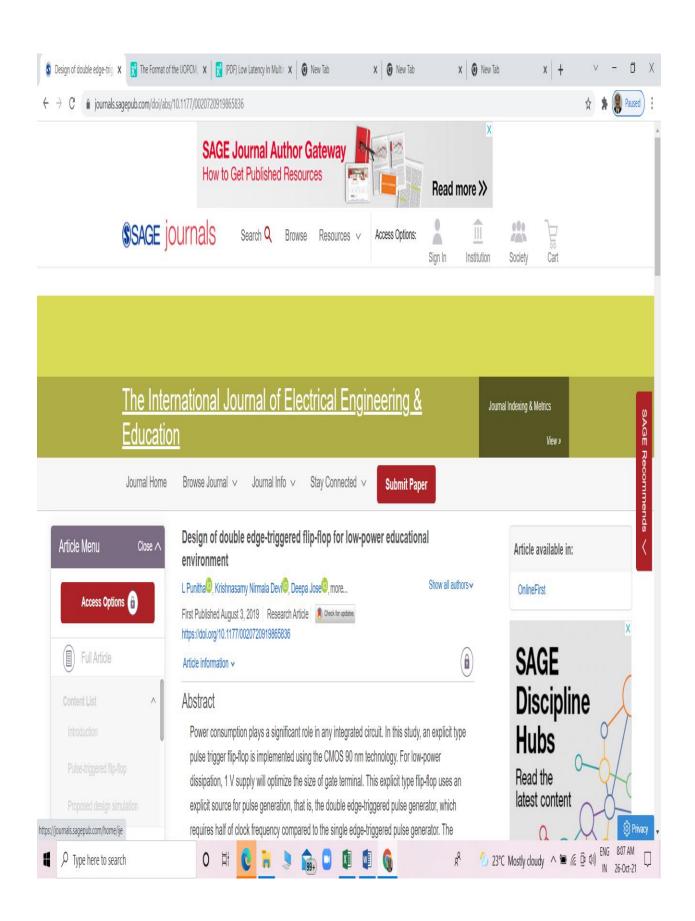


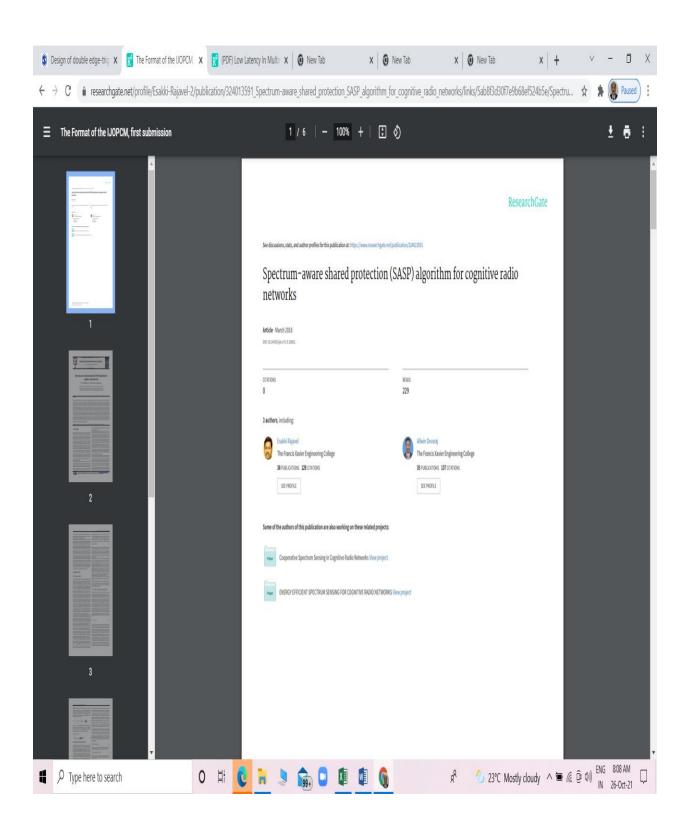


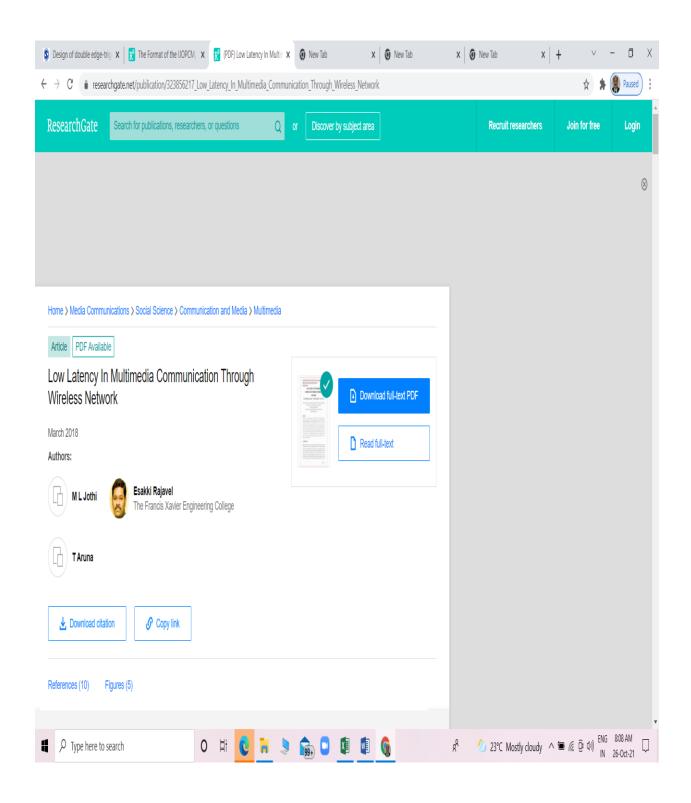


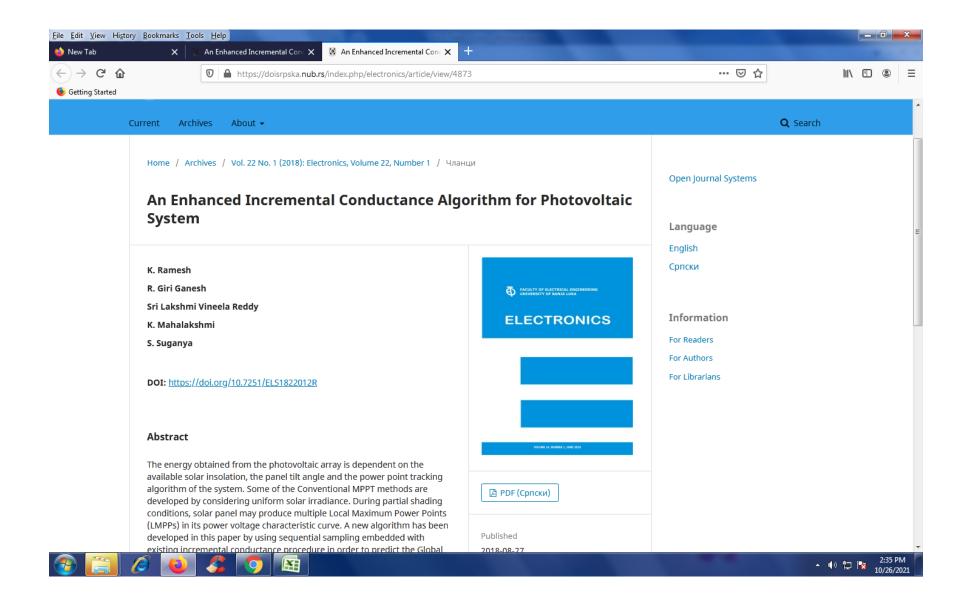


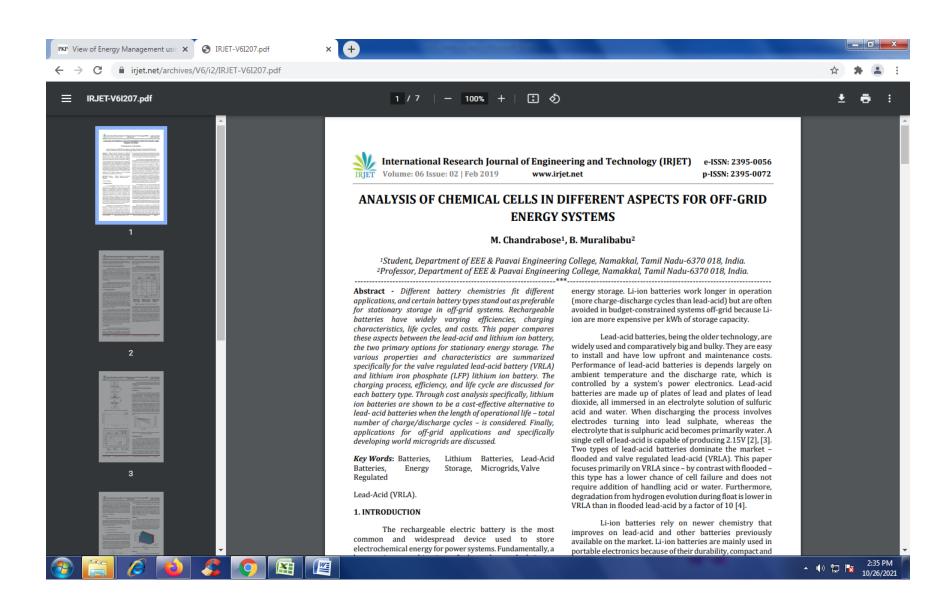




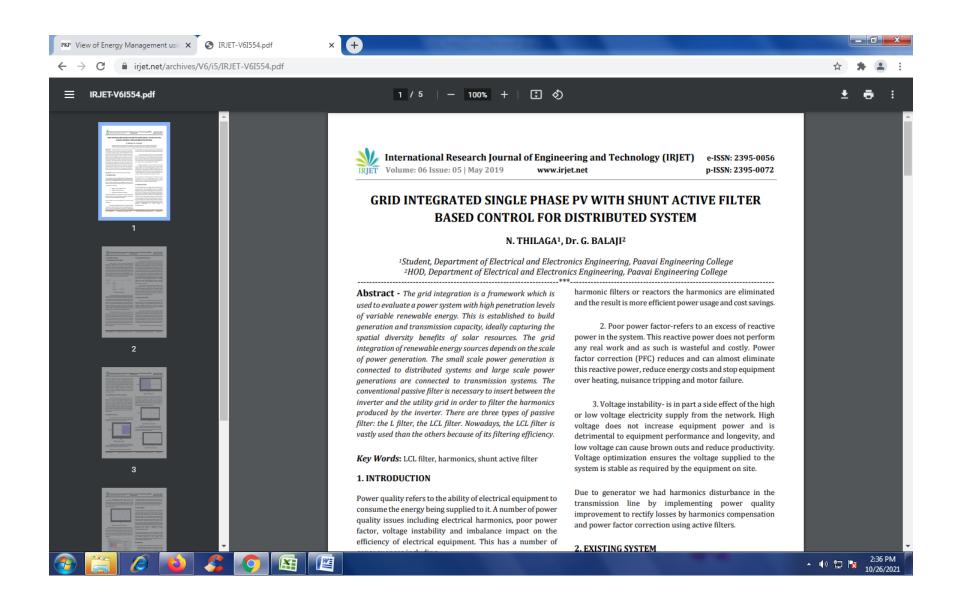




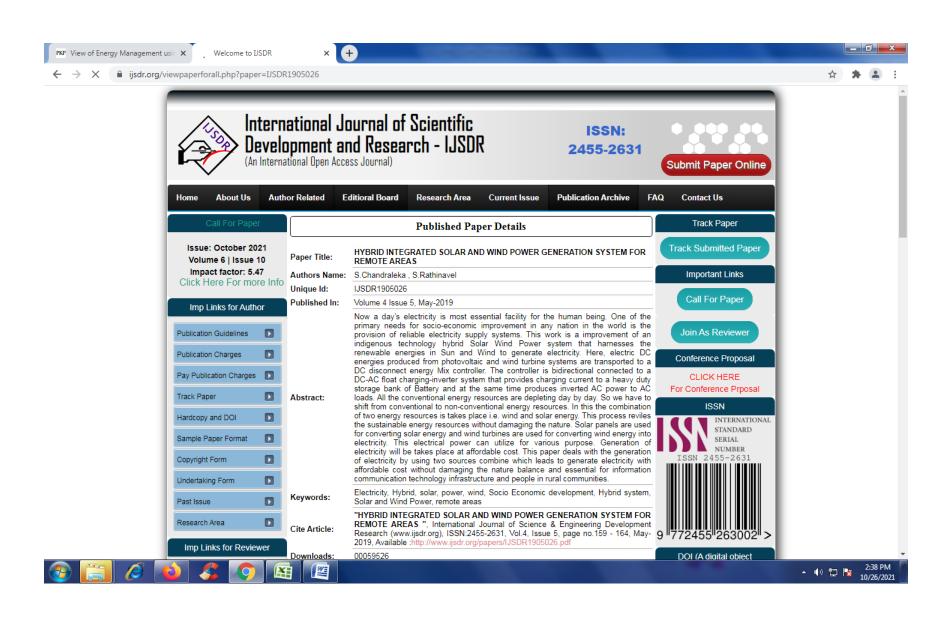


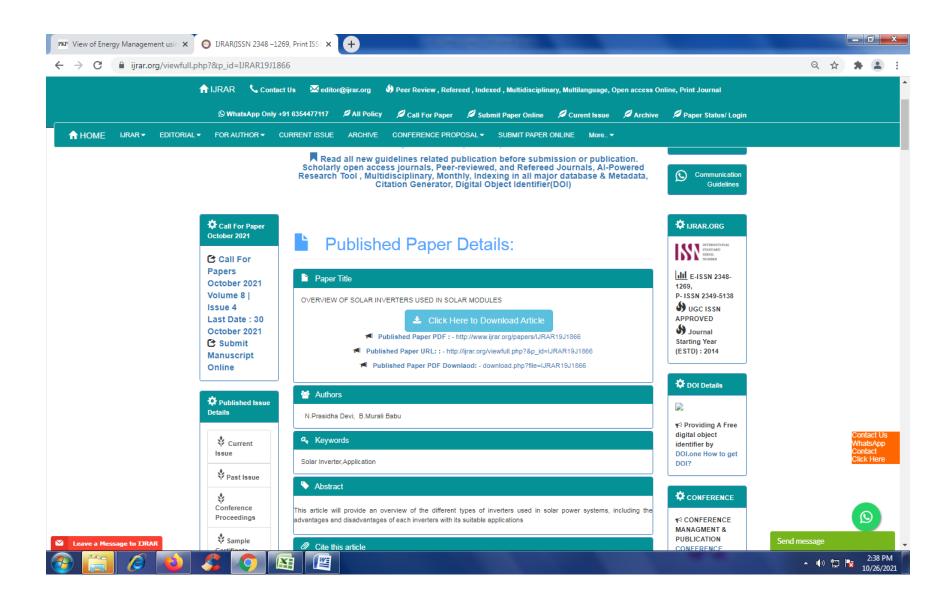


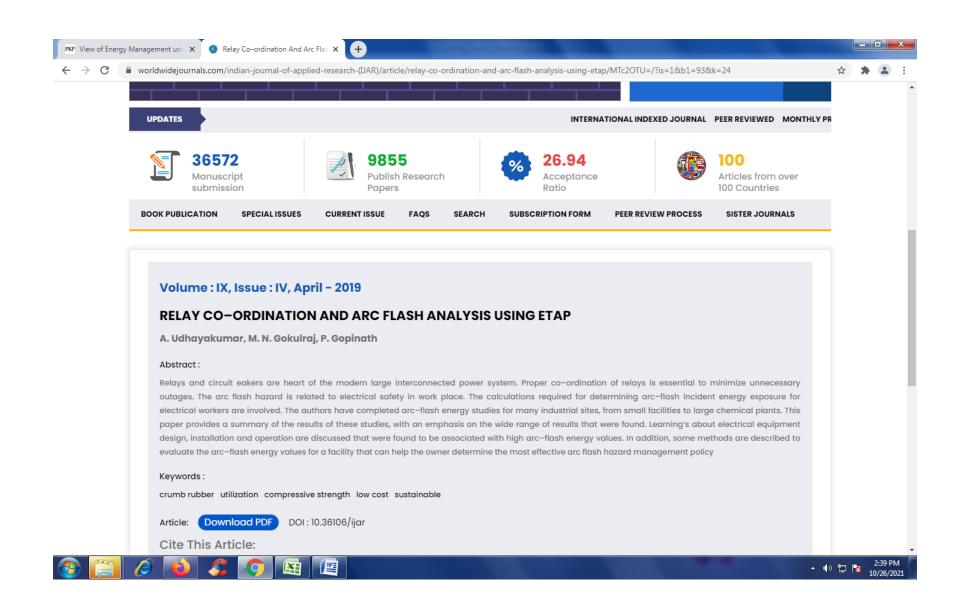


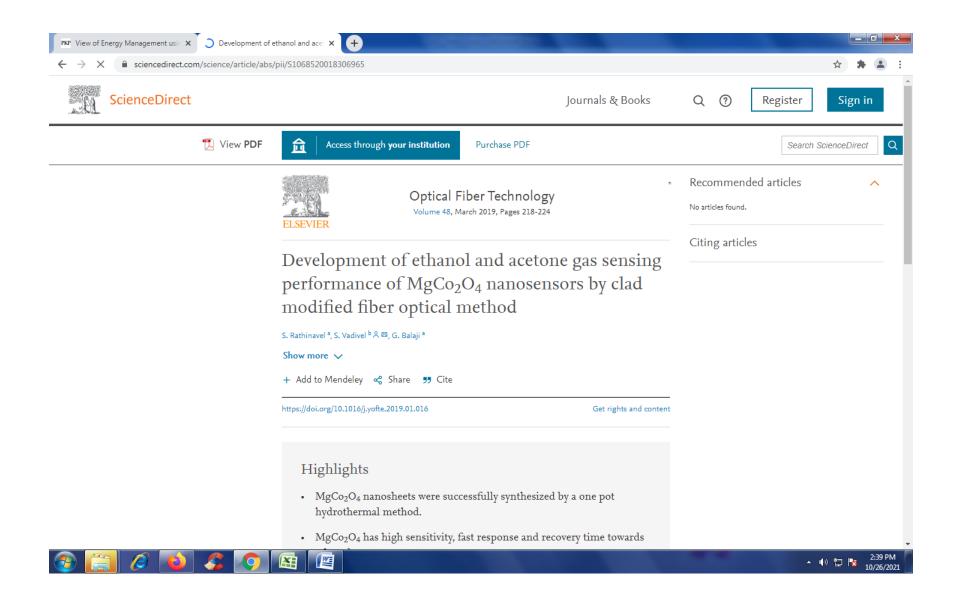


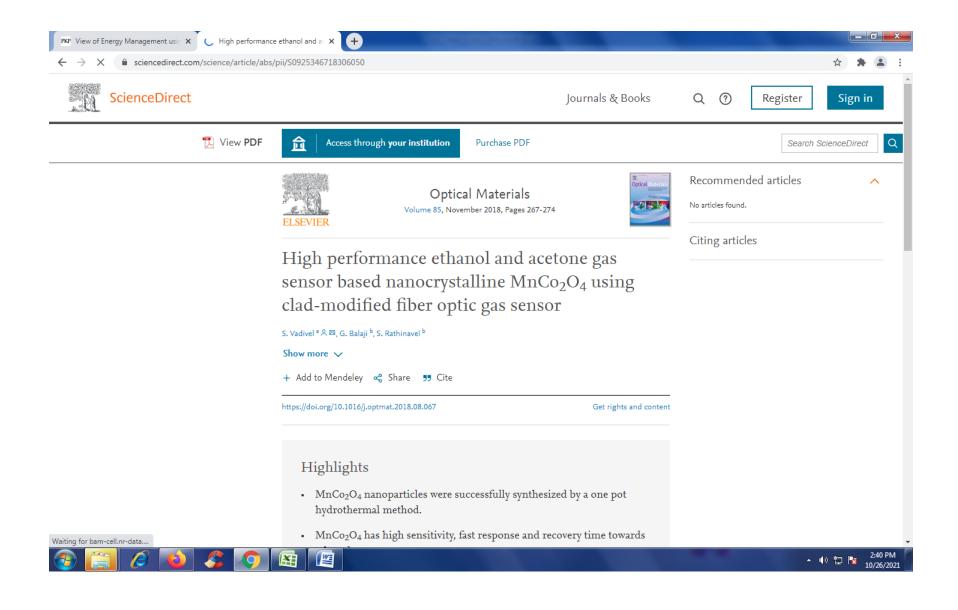


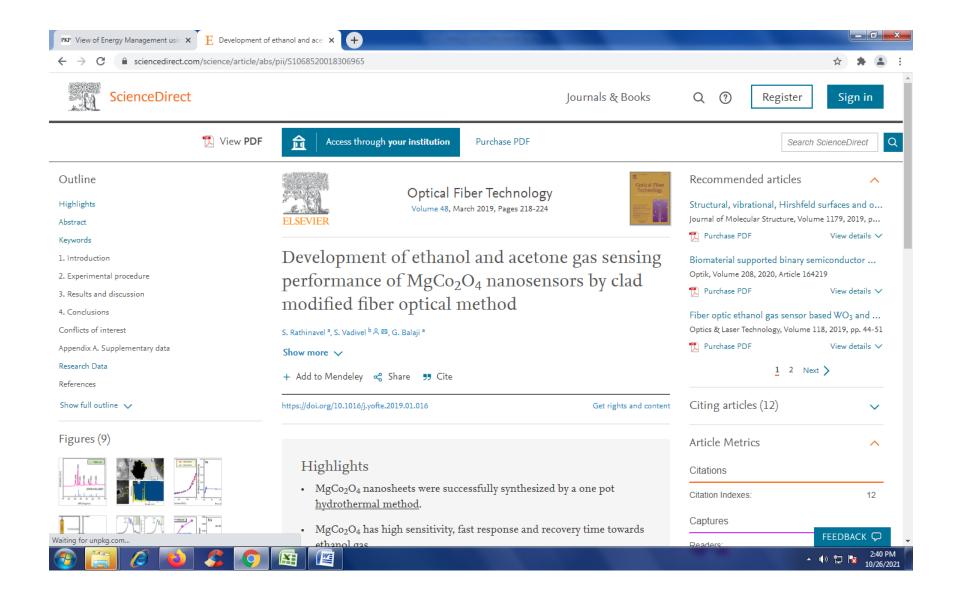


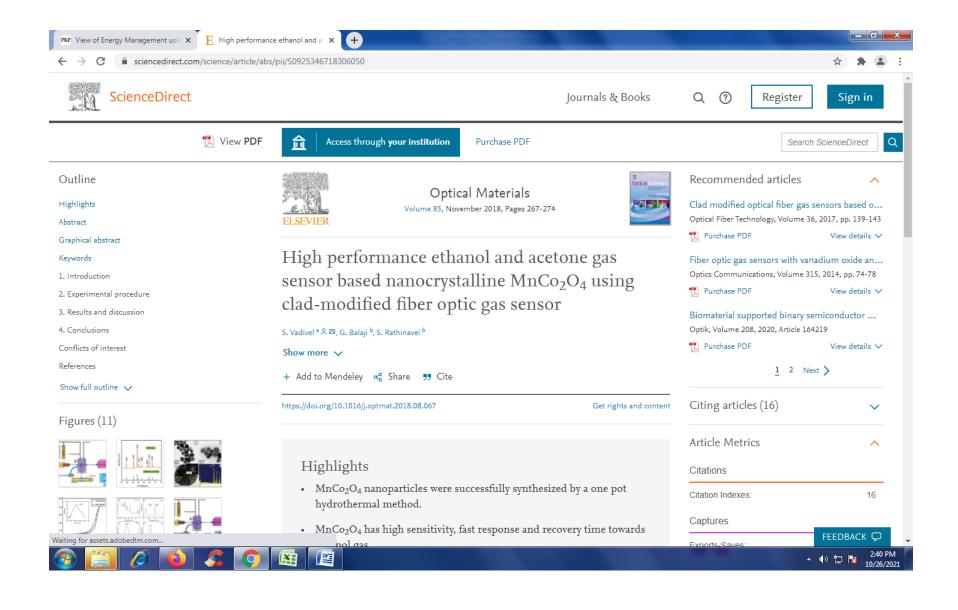


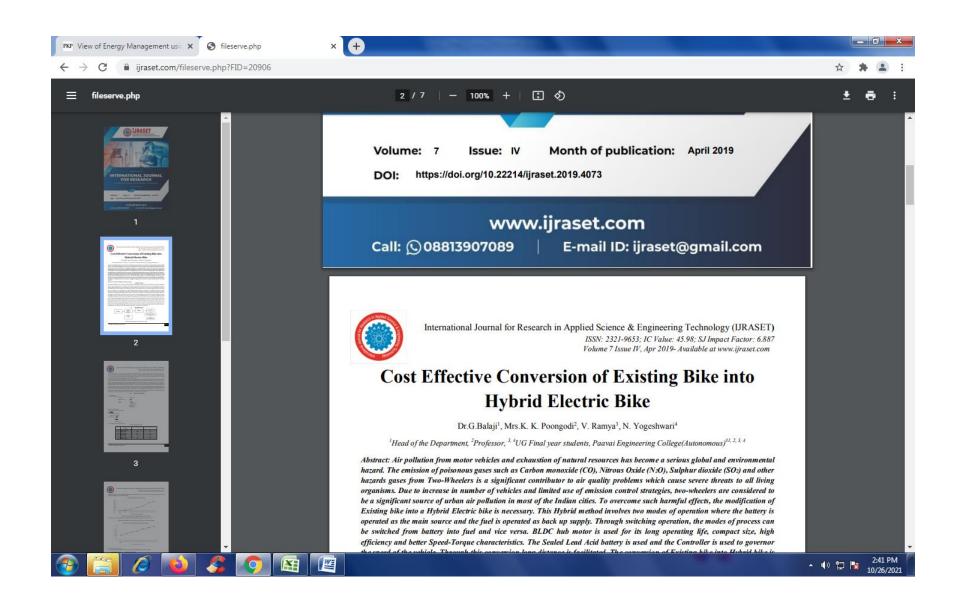


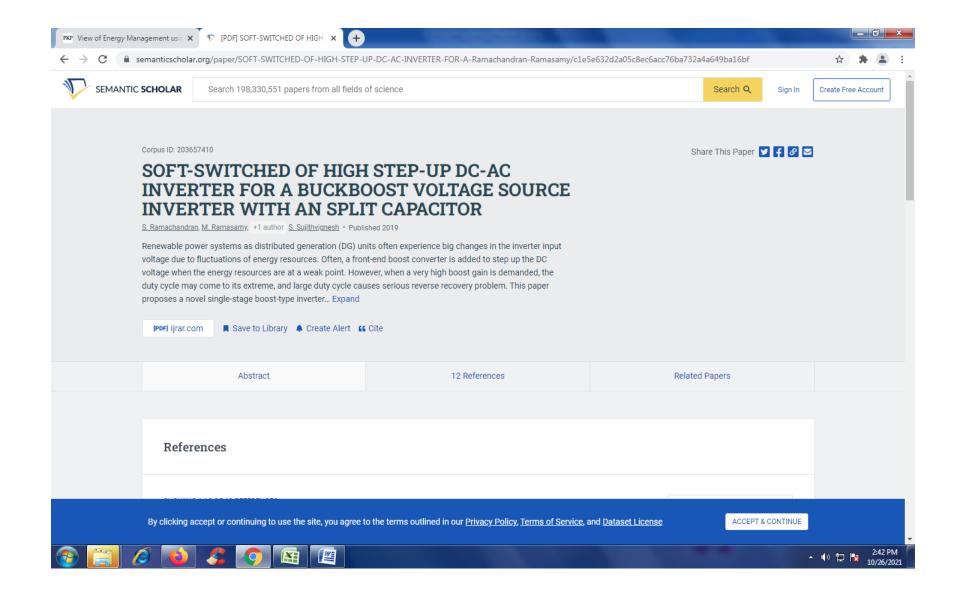


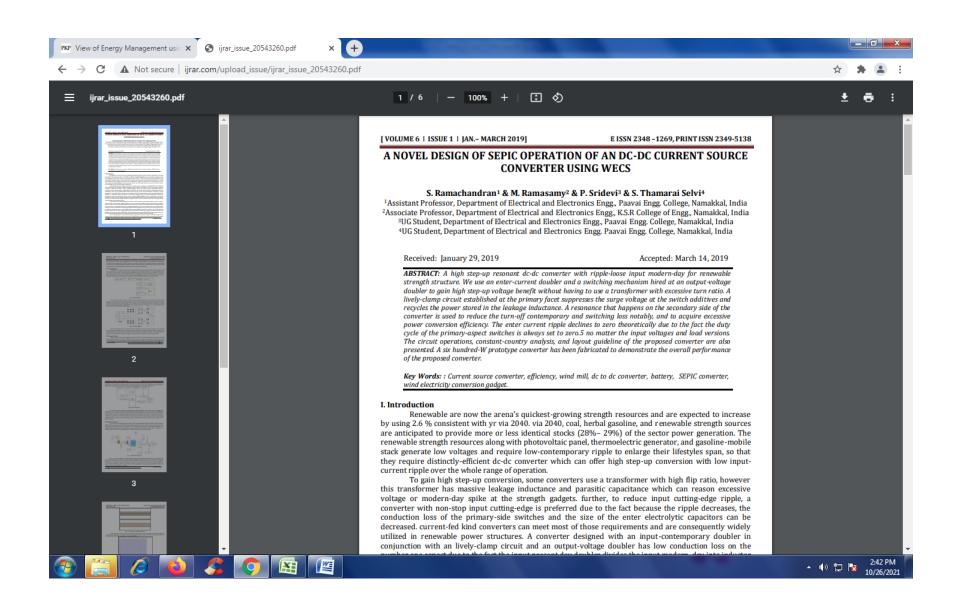


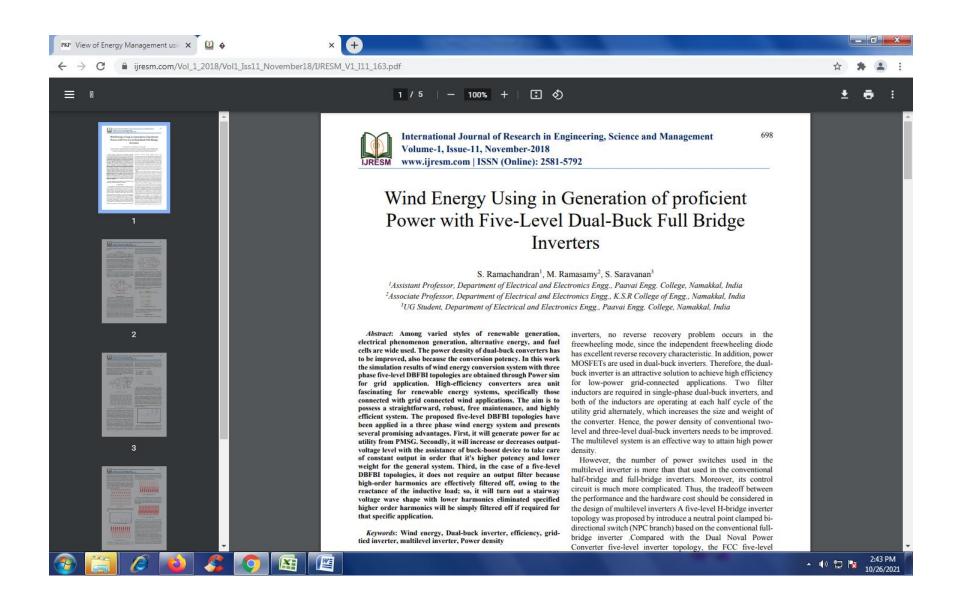


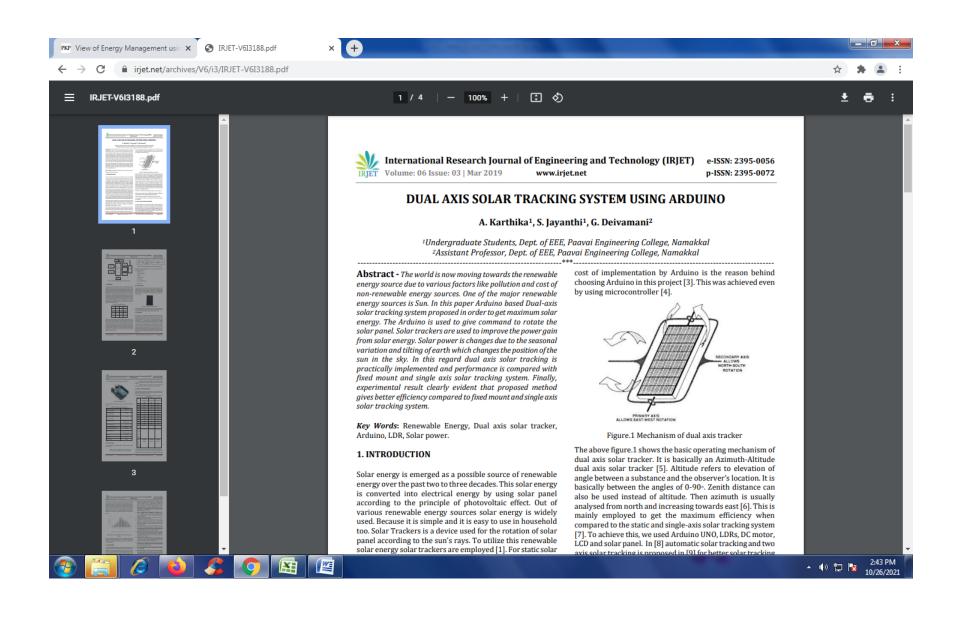














Study on mechanical properties of graphite

composite fabricated by stir casting technique

b Department of Mechanical Engineering, Dr.MGR Educational & Research Institute University,

^c Department of Mechanical Engineering, Panimalar Polytechnic College, Chennai, India Department of Mechanical Engineering, Ganadipathy Tulsi's Jain Engineering College, Vellore,

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particulates reinforced aluminium matrix

V. Mohanavel a R B, K. Rajan b, S. Suresh Kumar c, G. Vijayan d, M.S. Vijayanand e

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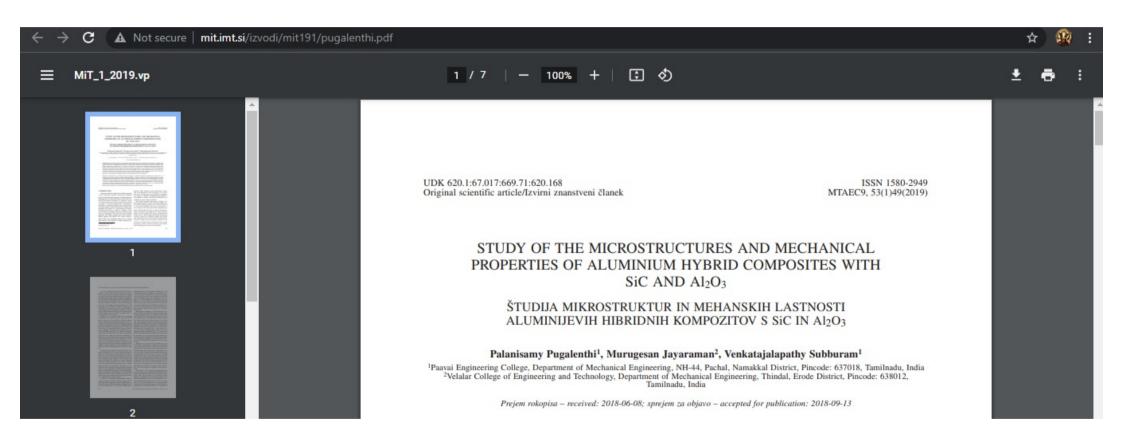
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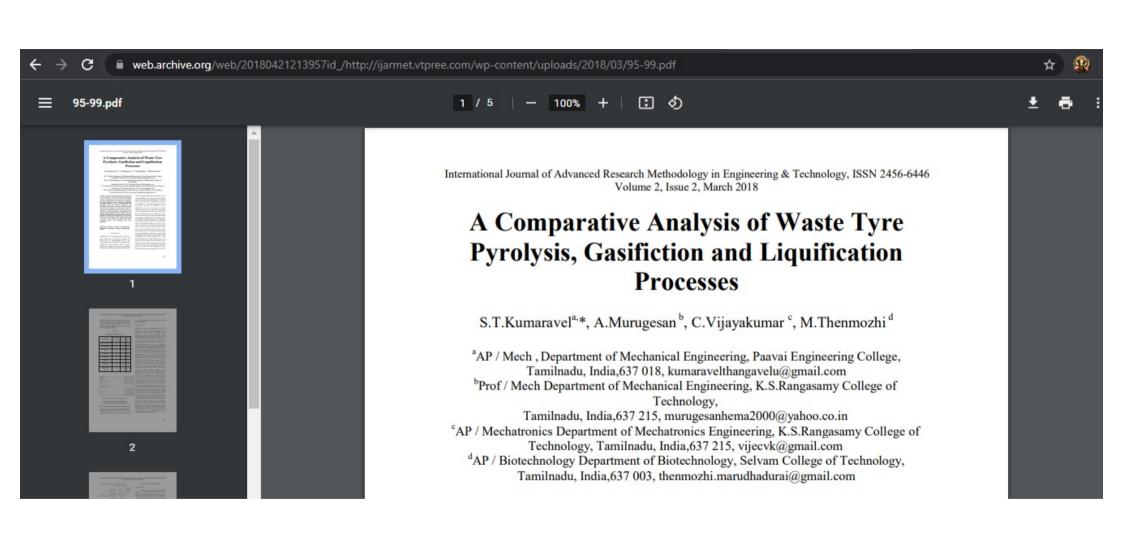
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Electrochemical Micromachining of Aluminium Alloy Composite

Authors Authors and affiliations

S. Ramesh . V. Subburam

Conference paper

First Online: 18 April 2019



Part of the Lecture Notes in Mechanical Engineering book series (LNME)

Abstract

Electrochemical micromachining (EMM) is in the forefront among the non-traditional machining processes that are brought into micromachining domain. The major influencing factors of EMM process are more sensitive at the micro-level machining, and for achieving precision the right combination of parameters is essential. Continuous research works are

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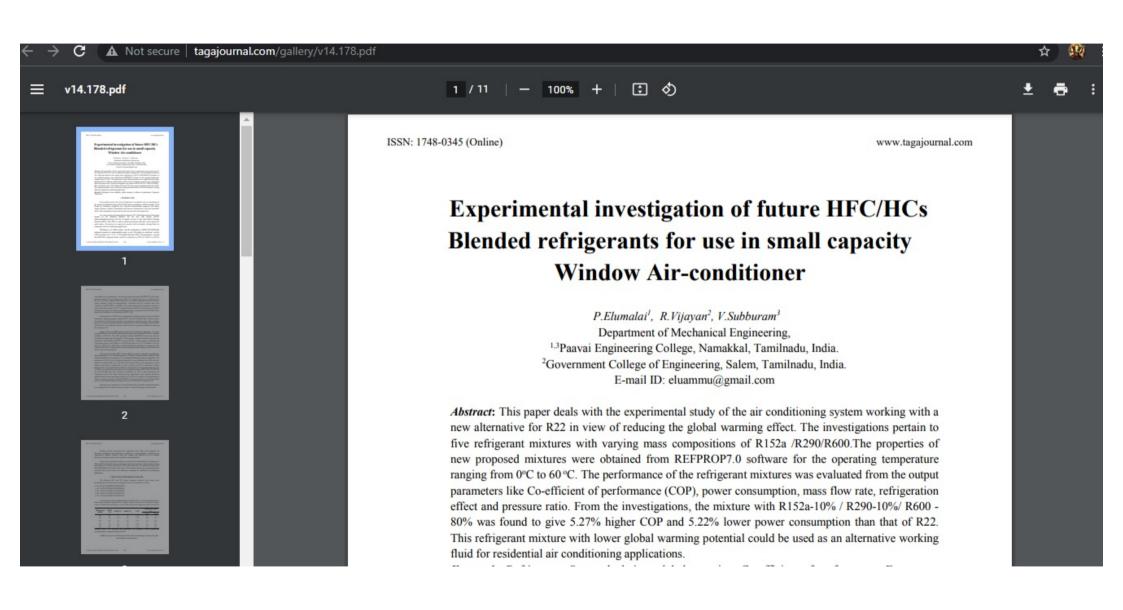
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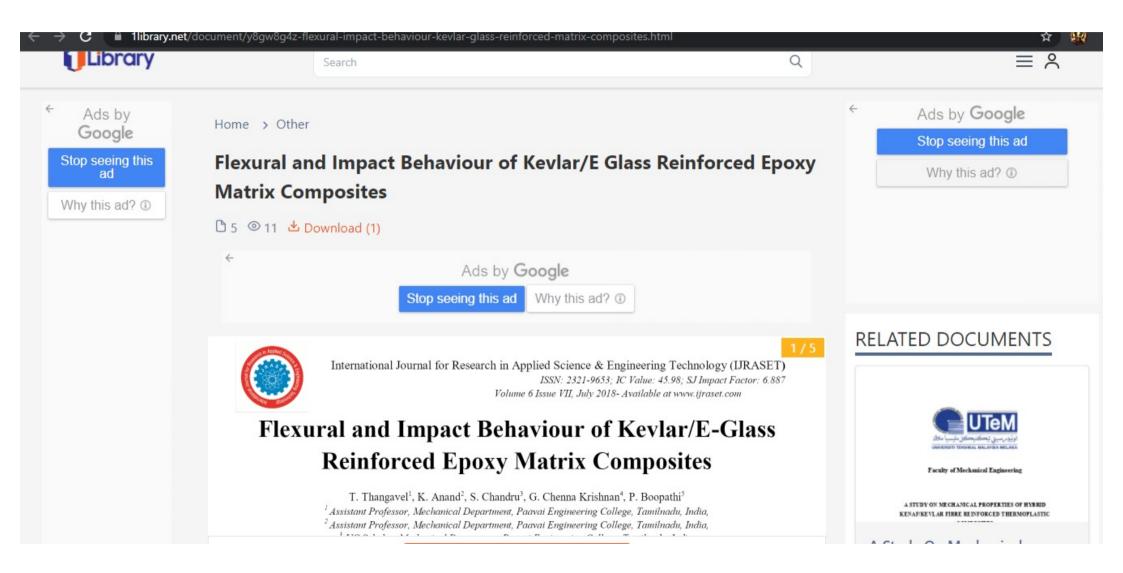
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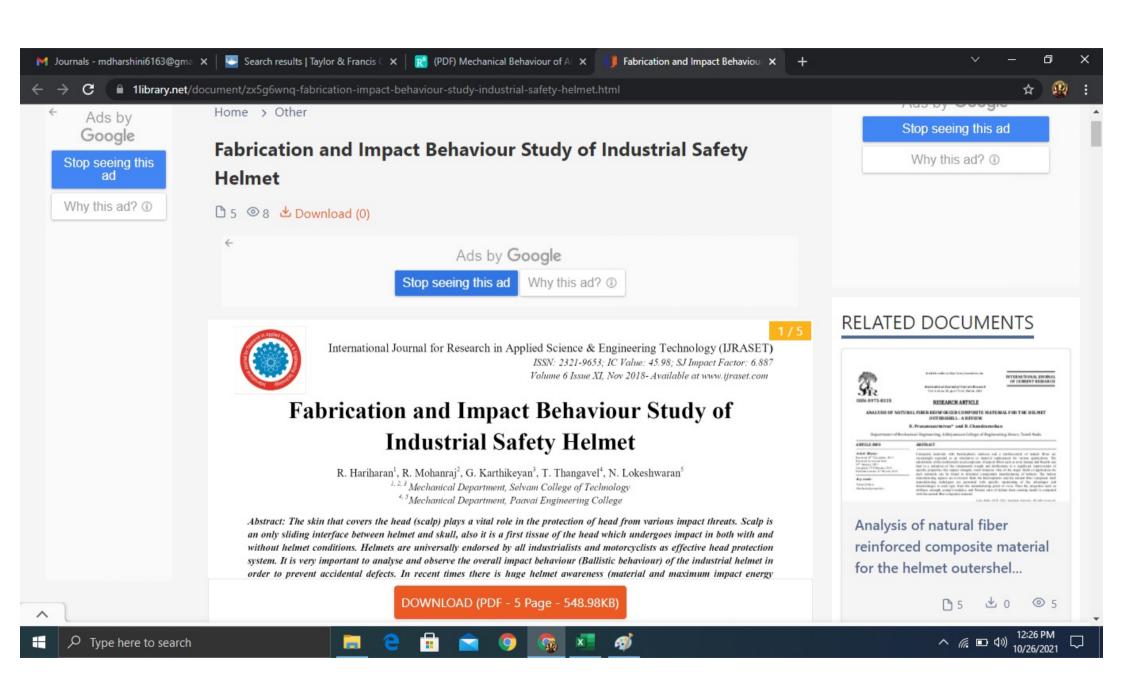
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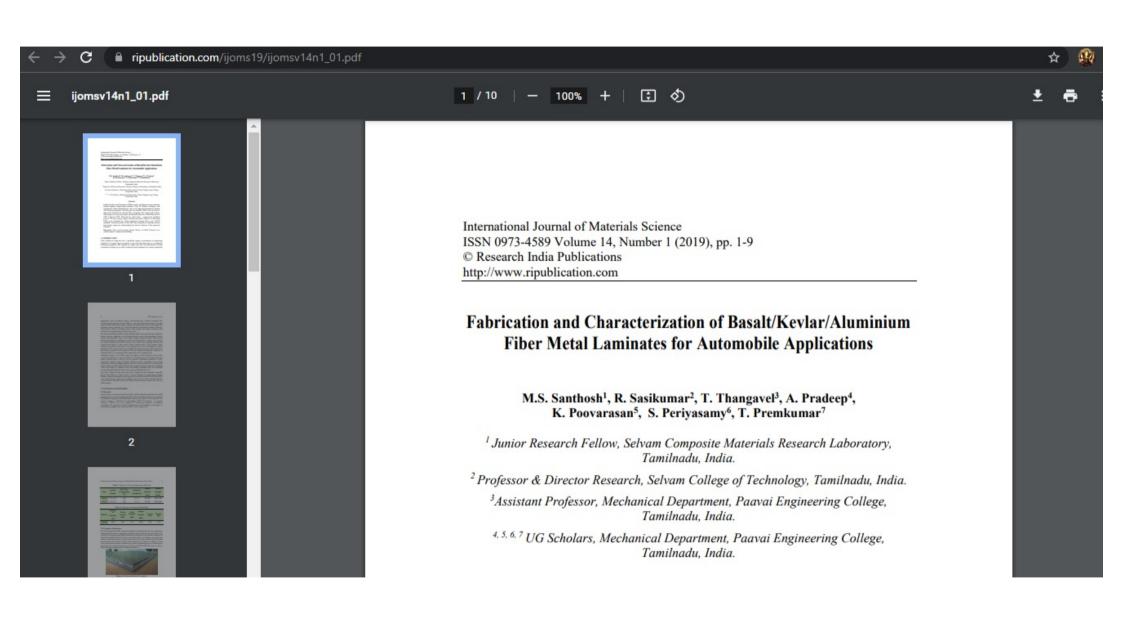
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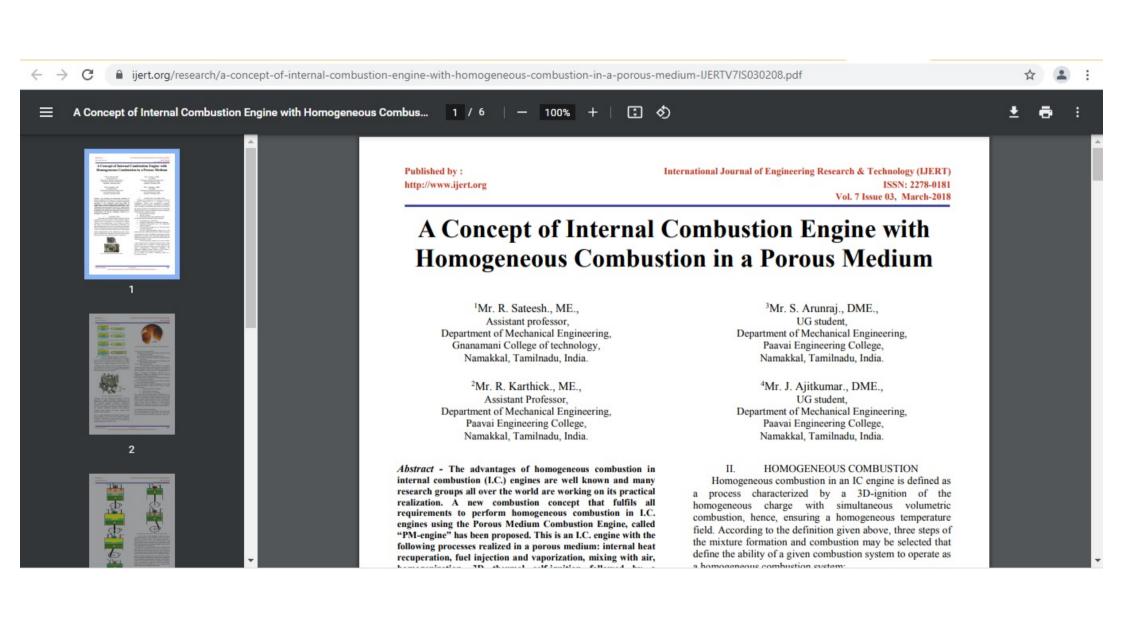












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CLUTCH PLATE FABRICATION BY USING AL-SIC METAL MATRIX COMPOSITES

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3,4UG student, Department of Mechanical Engineering, Paavai Engineering College, Namakkal

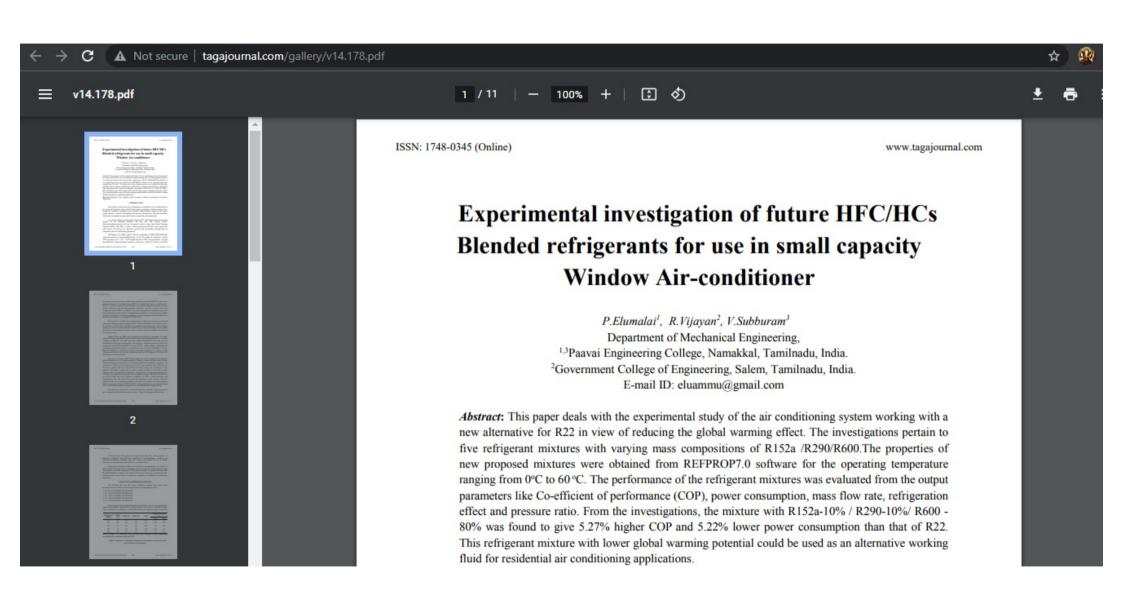
Abstract: In this paper, fabrication of Stircasting setup which was used for the production of clutch plate using 7075 Al-SiC Metal Matrix Composites was discussed. The mechanical properties, advantages of MMC's, experimental procedure of stir casting were explained. The present investigation shows that MMCs have considerable higher wear resistance than conventional grey cast iron while sliding against automobile clutch plate under identical conditions.

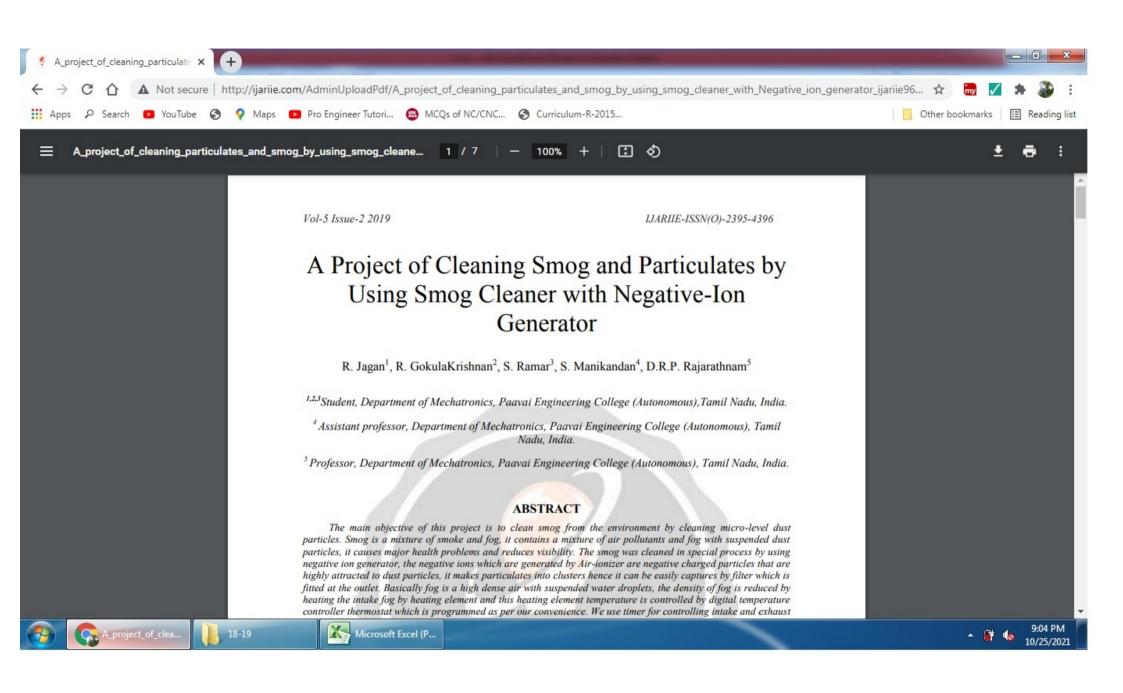
1. Introduction

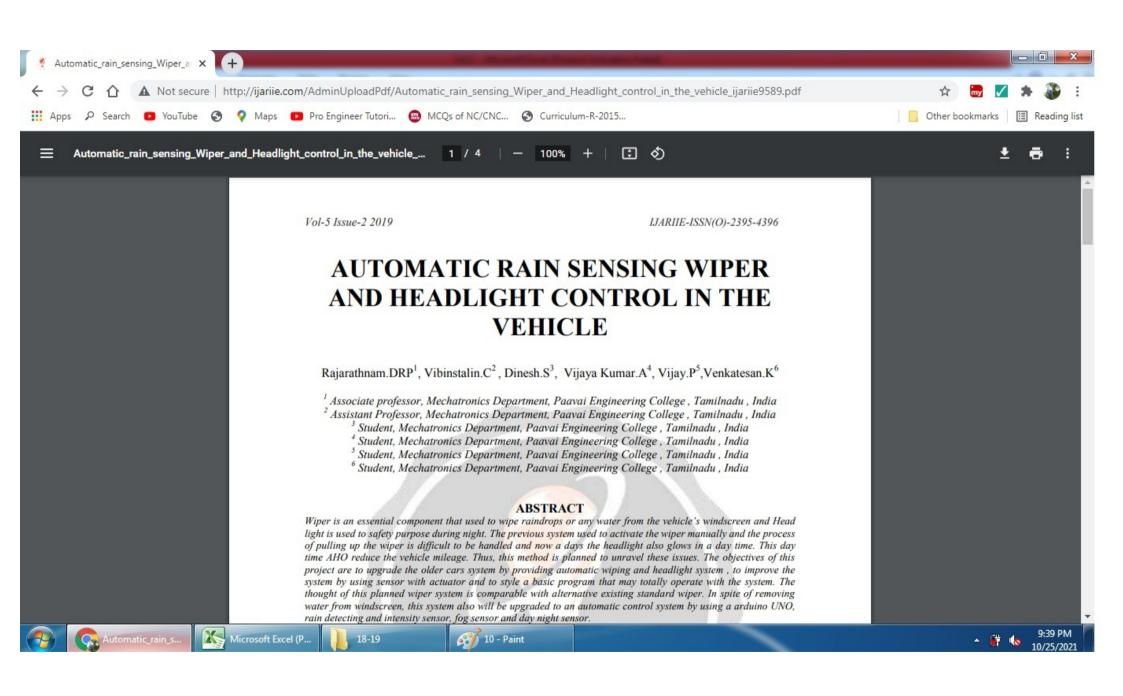
The ever increasing demand for light weight, fuel efficiency and comfort in automobile industries has lead to the development of advanced meterials along with

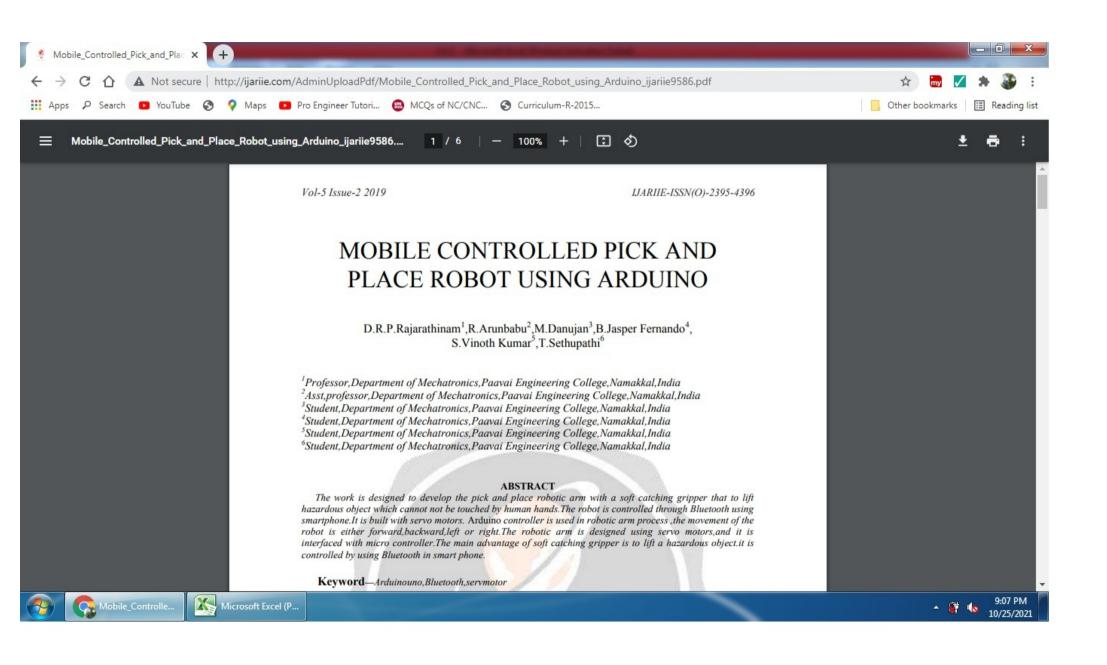
2. Definition of Composite

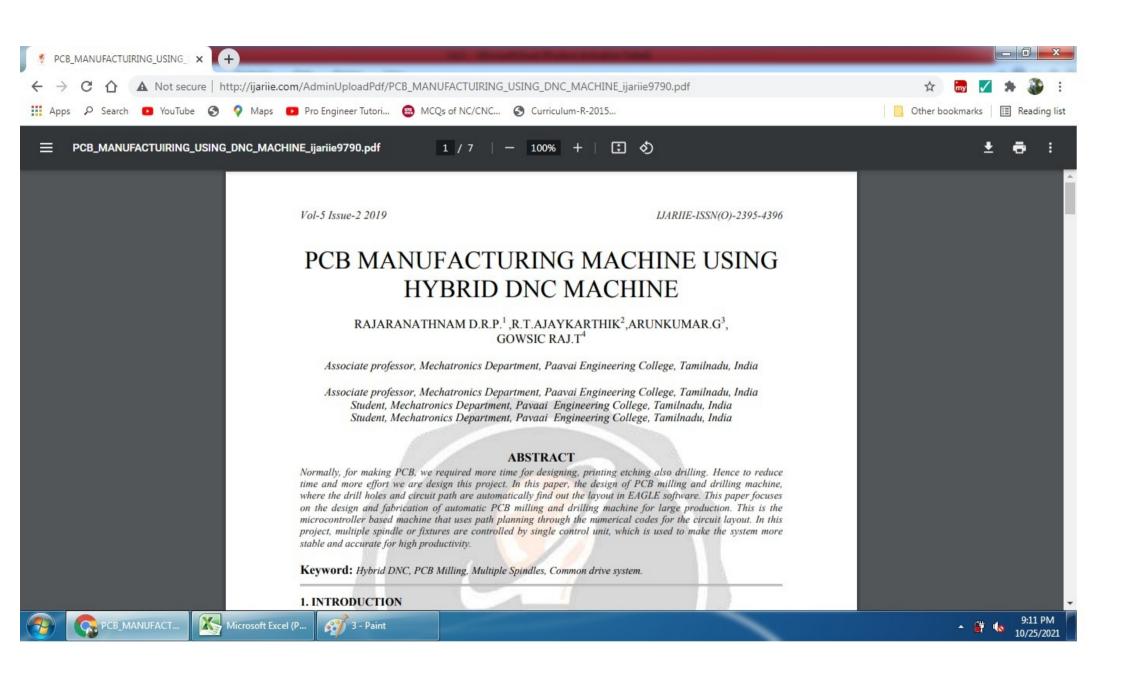
A composite is a structural material consists of two or more combined constituents that are combined at a macroscopic level and are not soluble in each other. Generally, a composite material is composed of reinforcement (fibers, plastics, flakes and fillers) embedded in a matrix (polymers, metals or ceramics). The matrix holds the reinforcement to form a desired shape while the reinforcement improves the overall mechanical properties of the matrix. The new combined material (composite material) will exhibit better strength when compared with other structural materials. Composite materials are cohesive structures made by physically combining two or more competible meterials

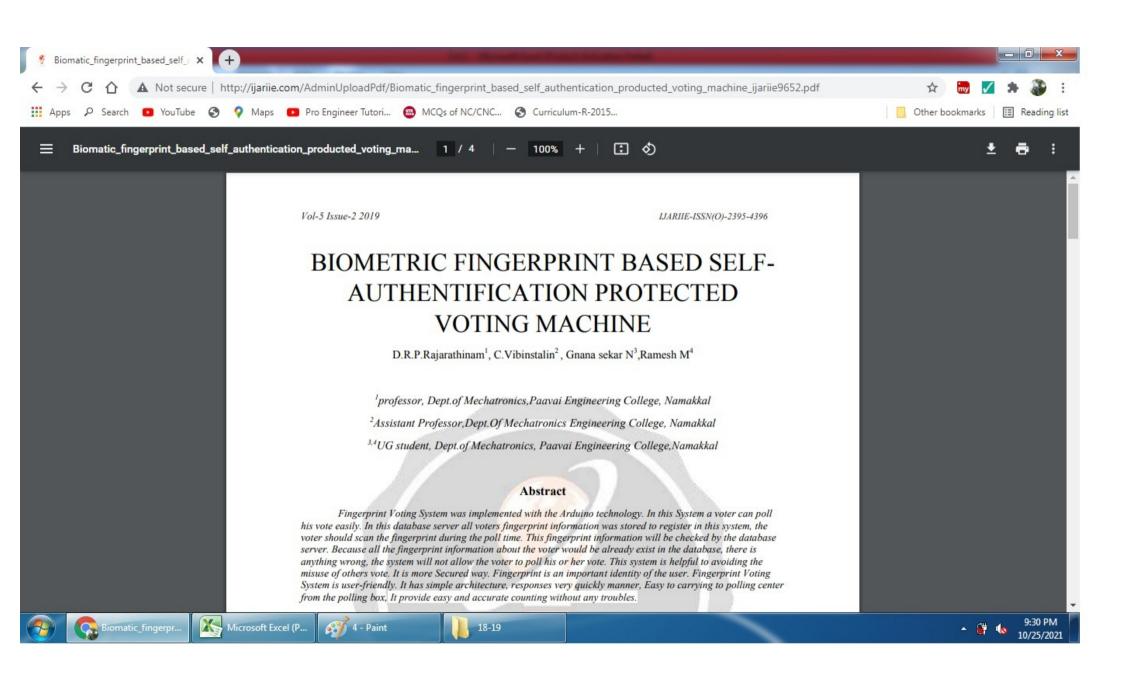


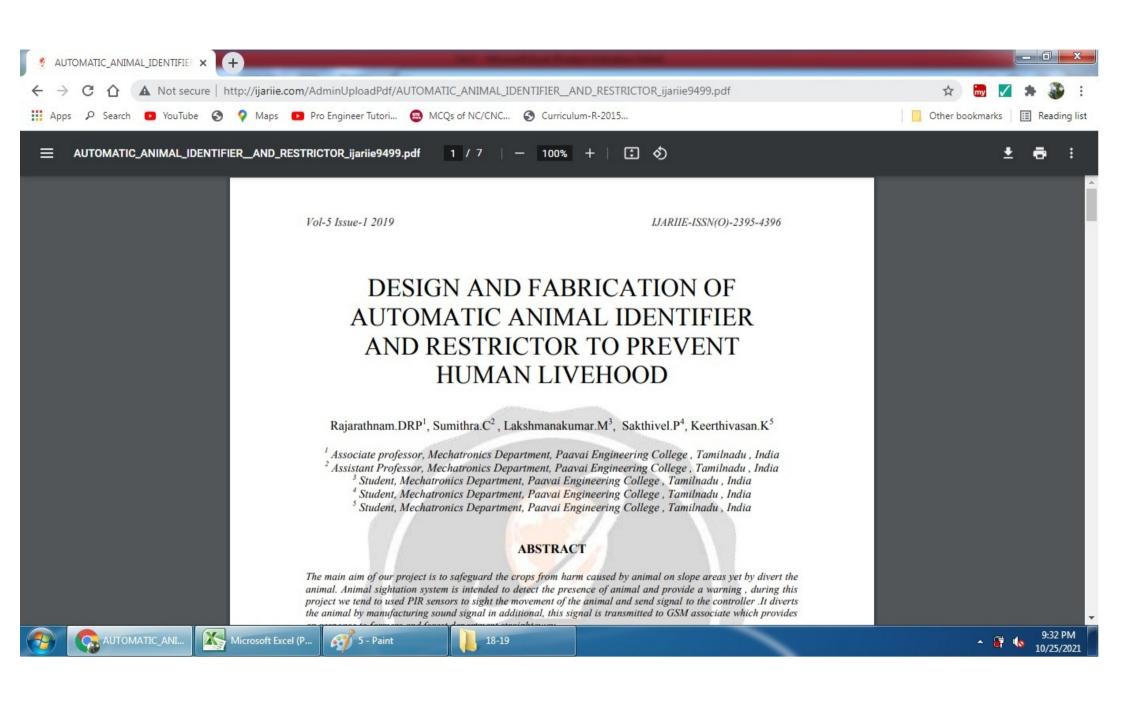


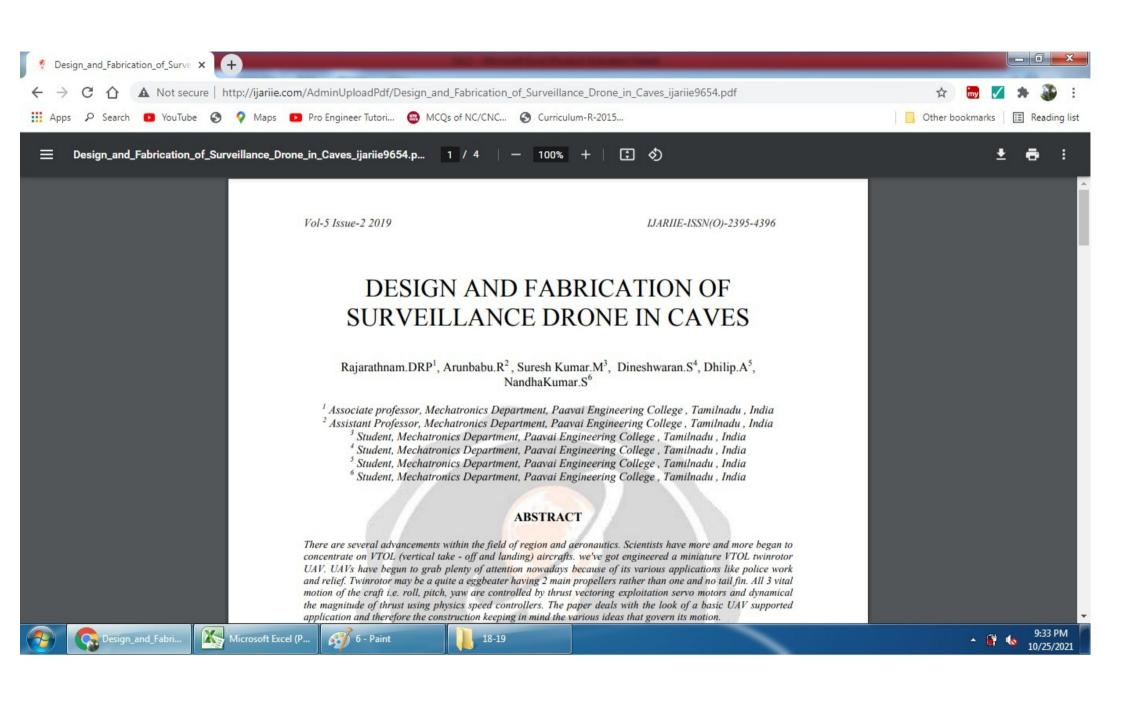


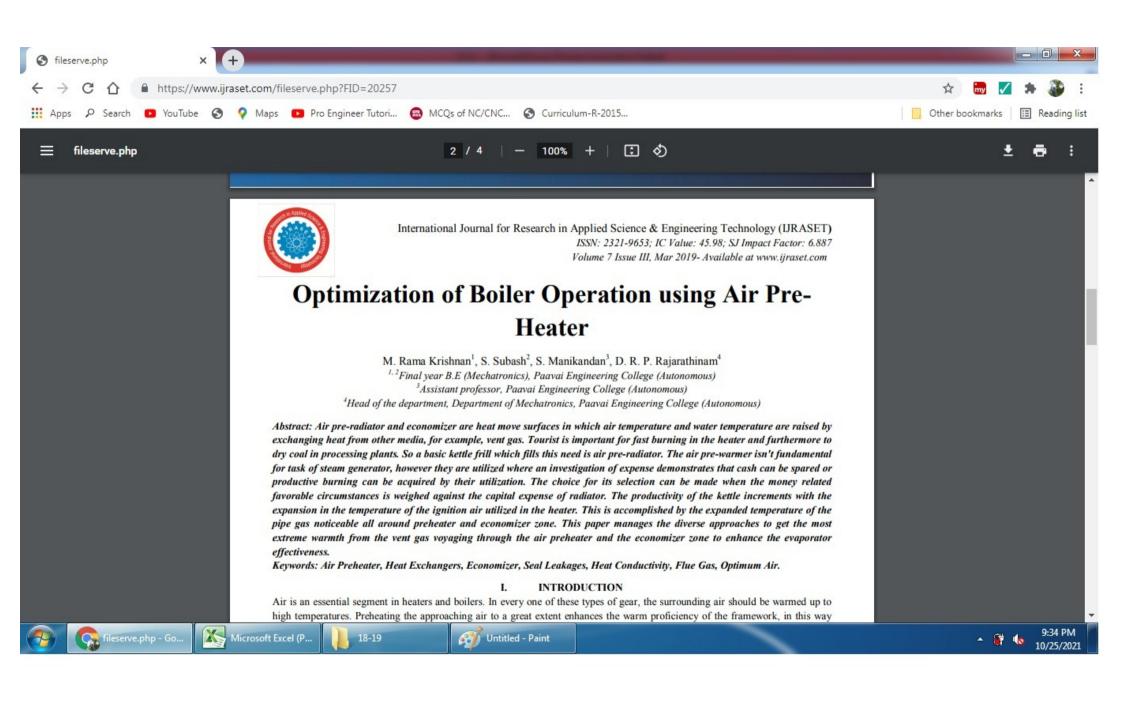


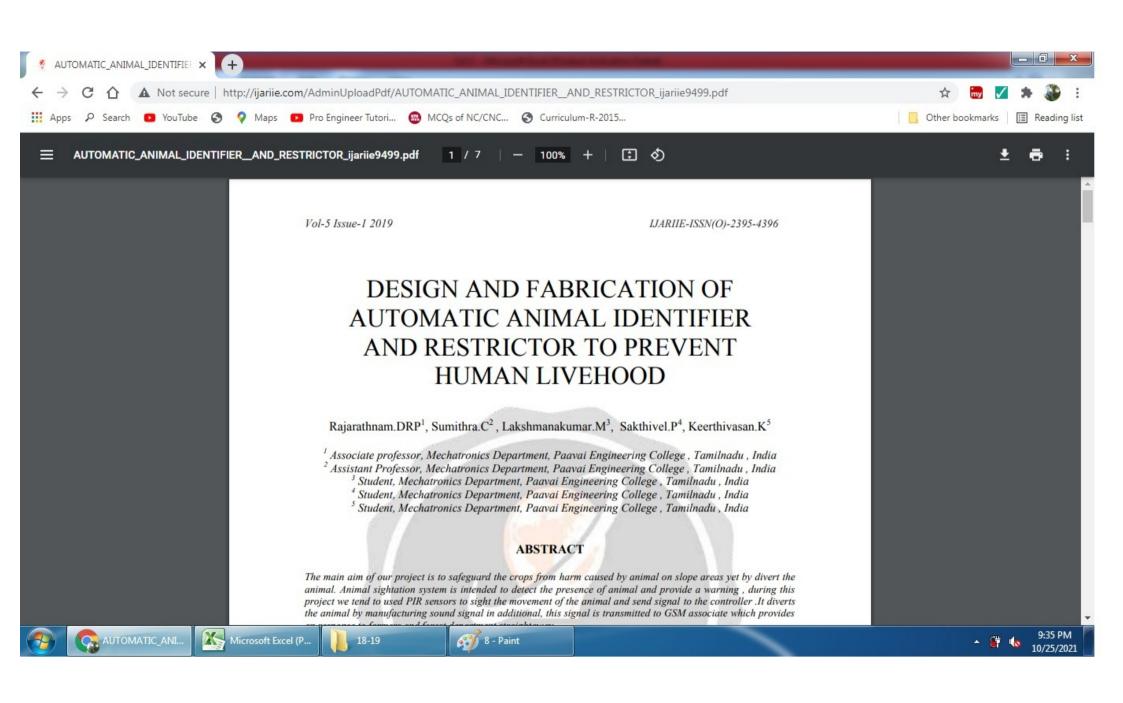


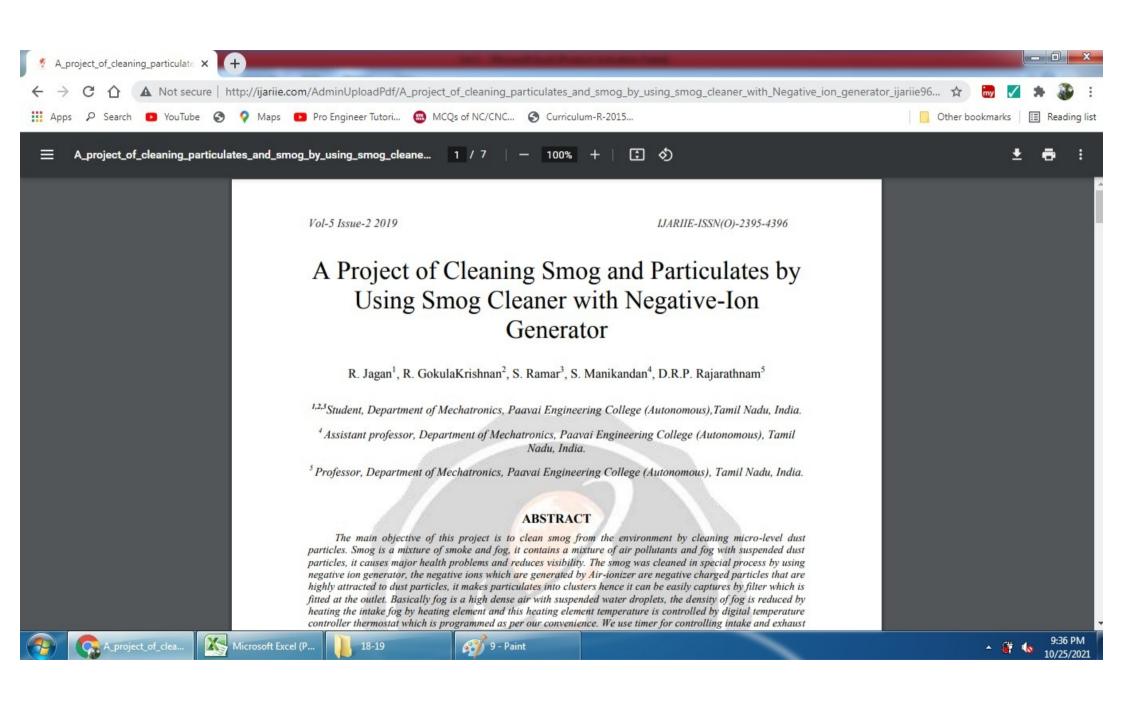


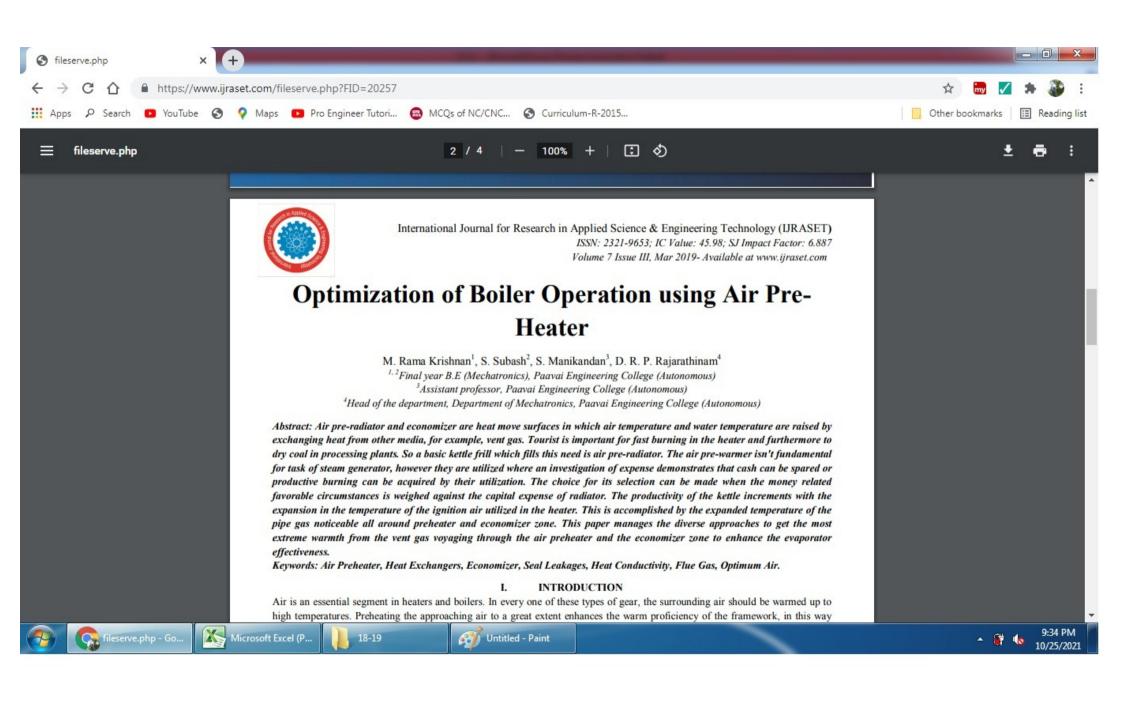


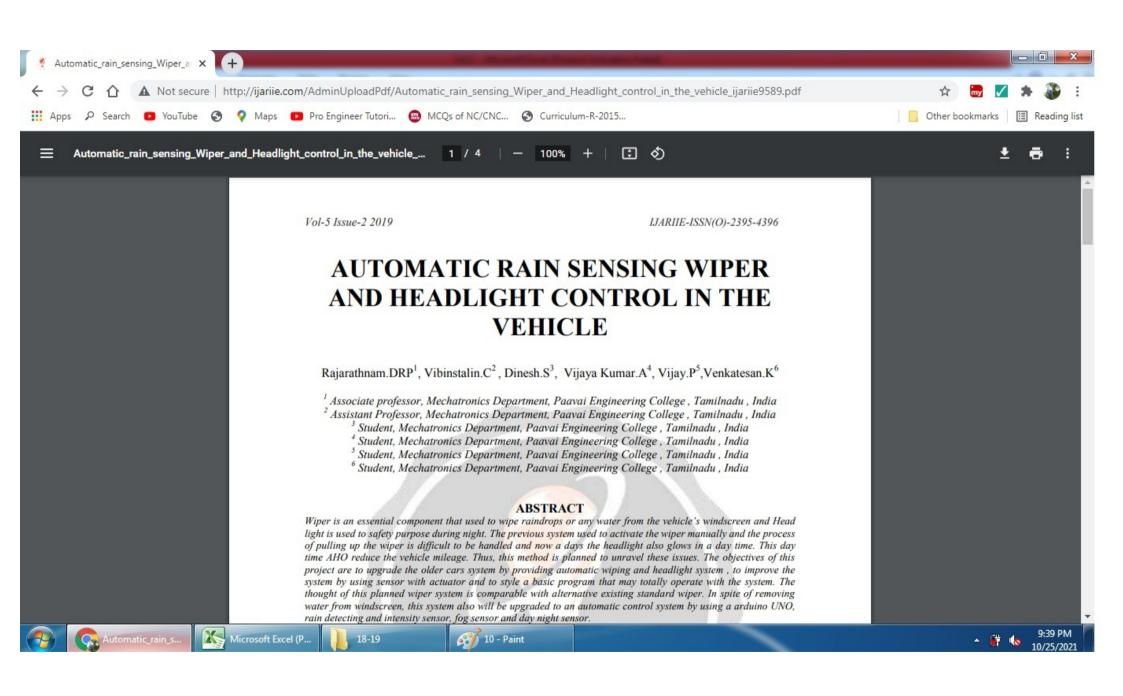


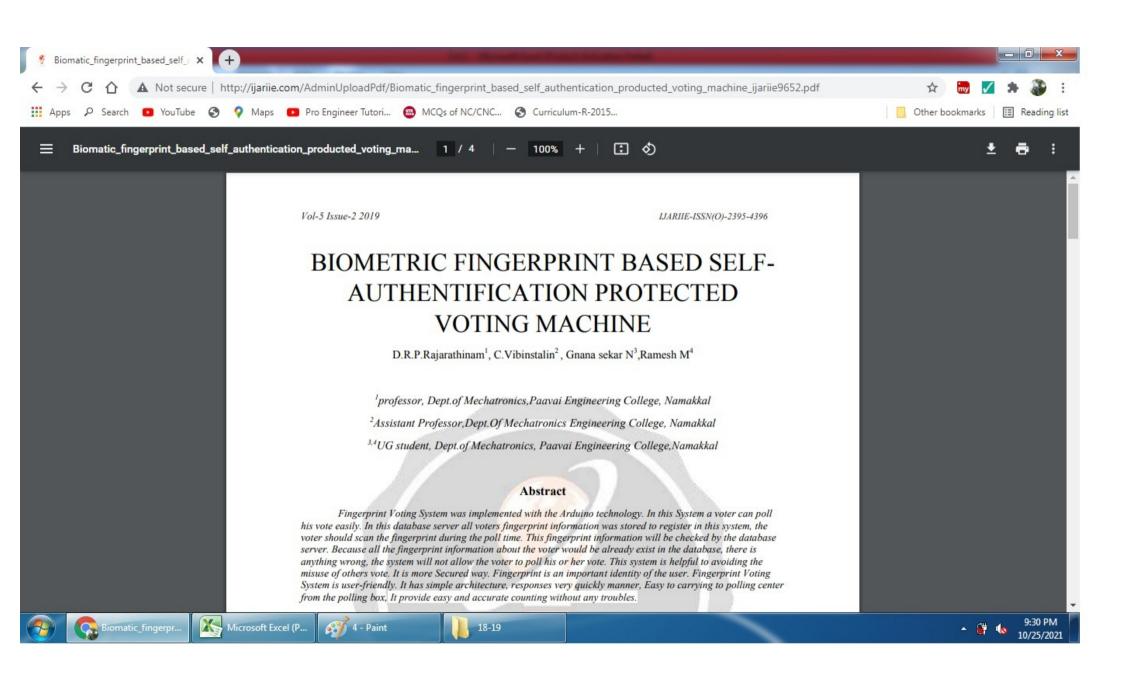




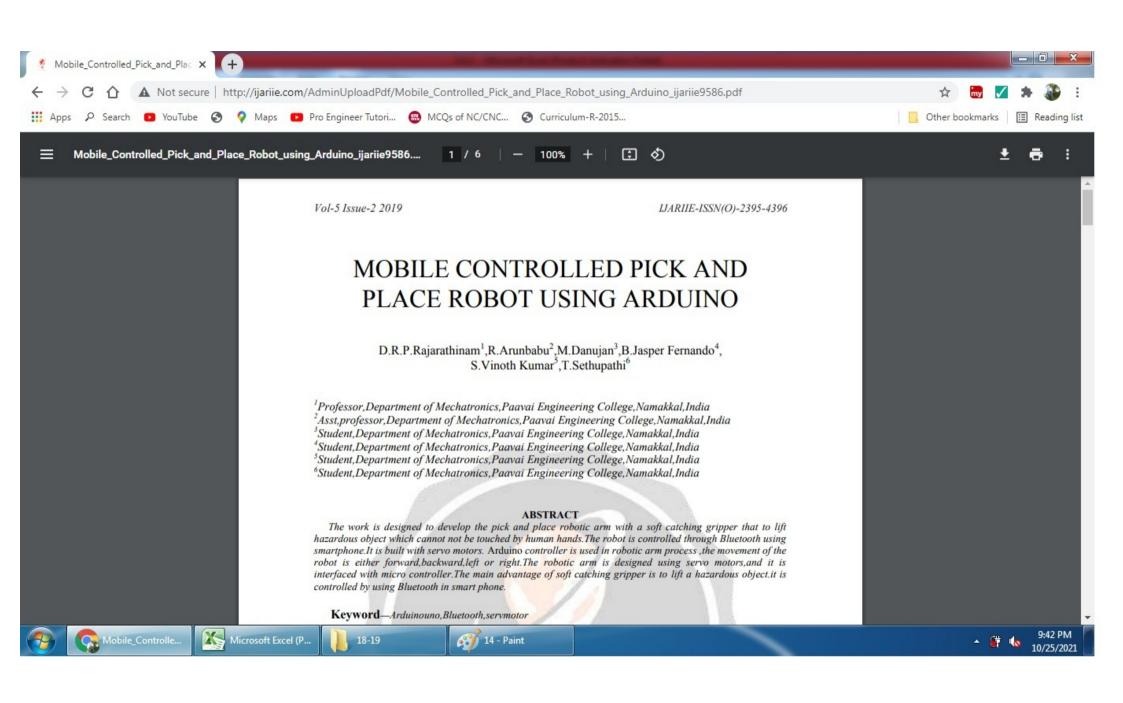


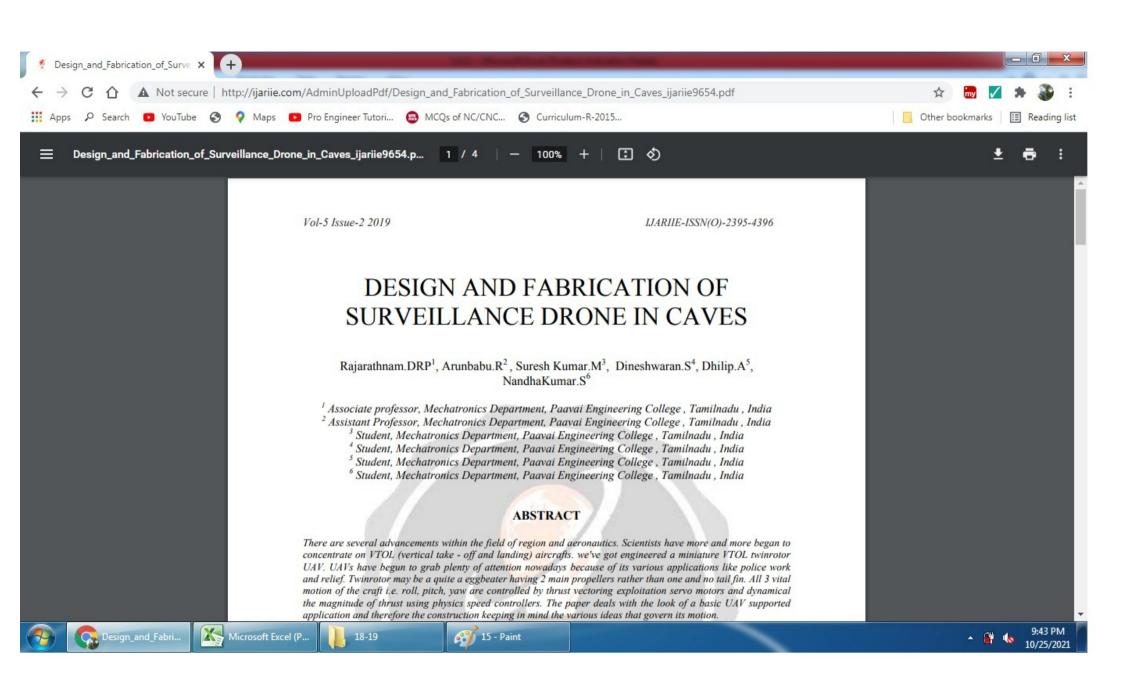


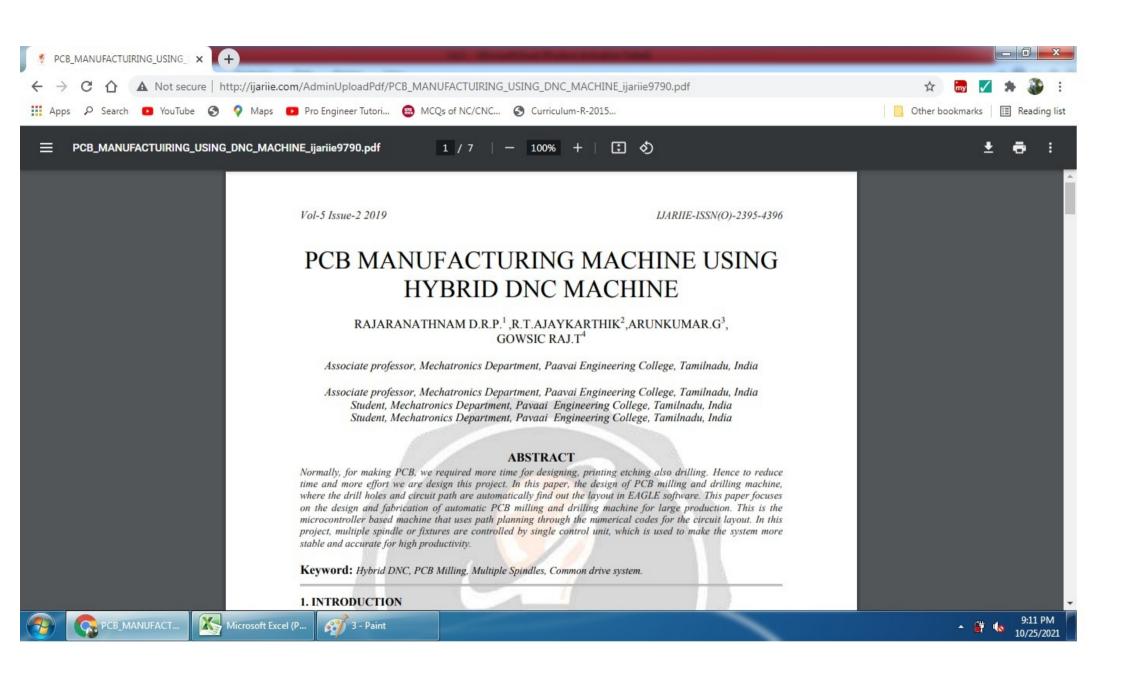






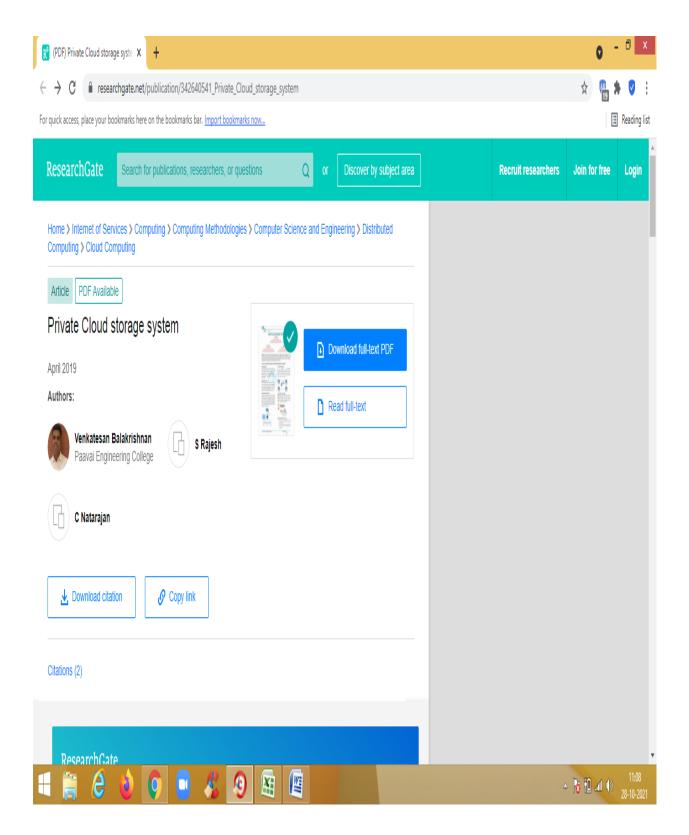




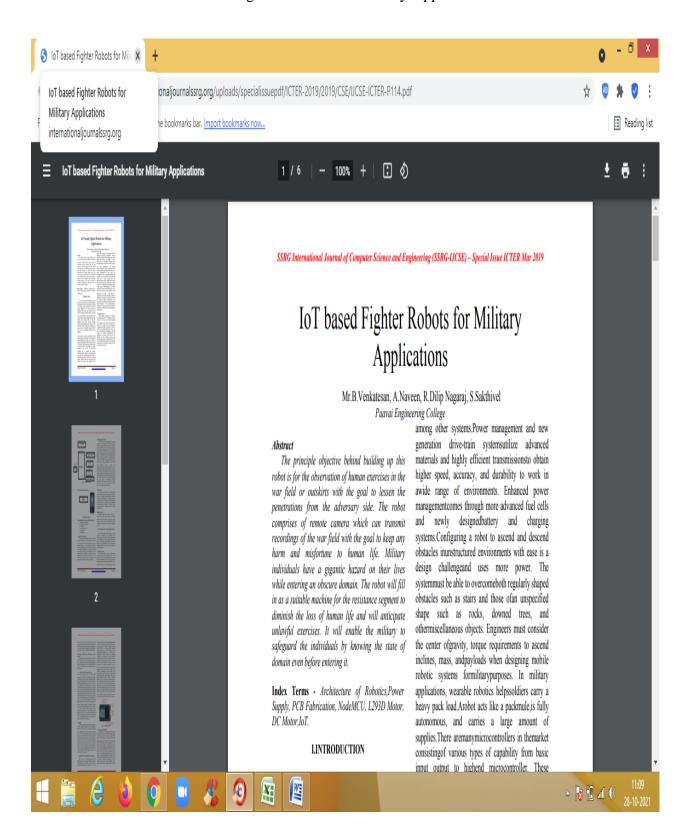


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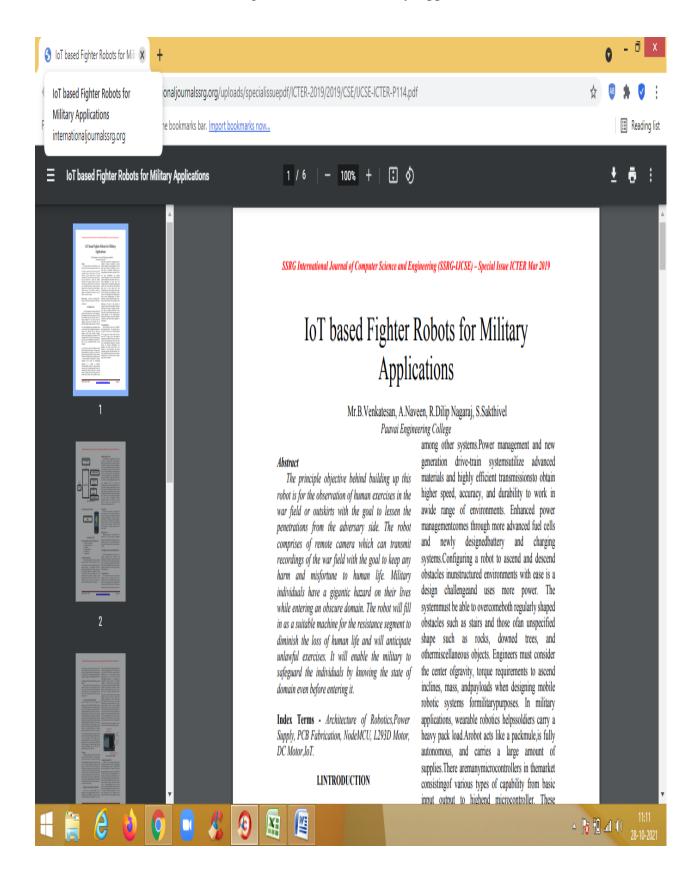
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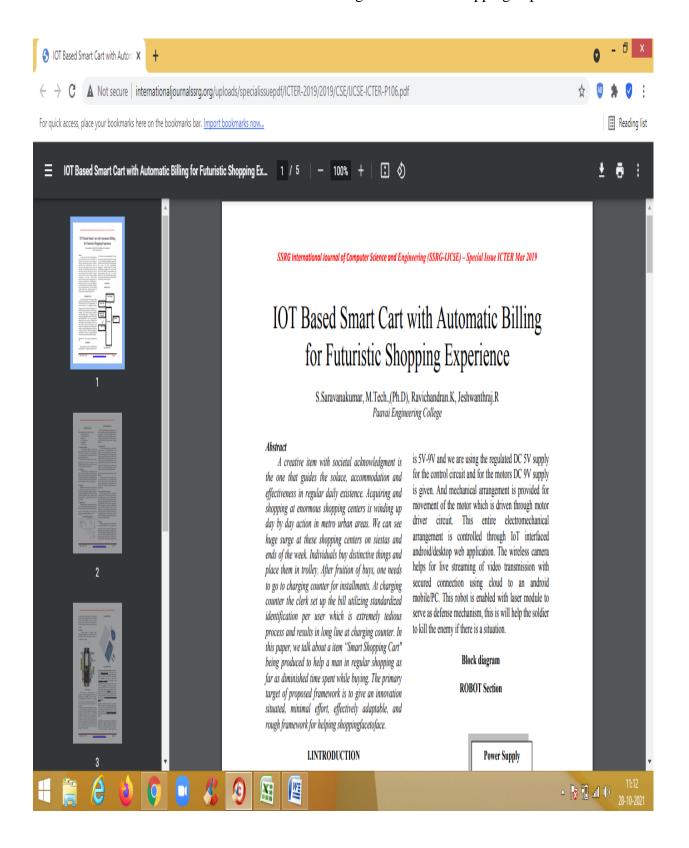
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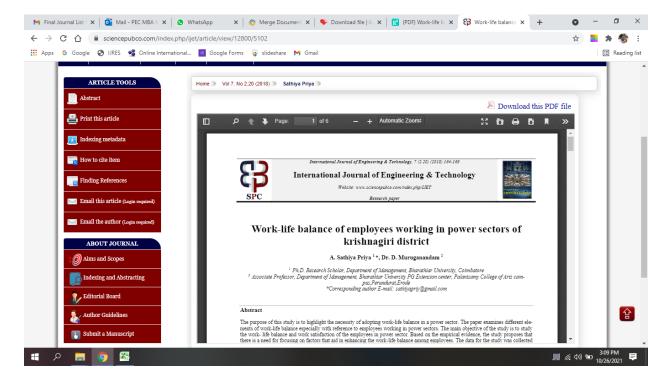


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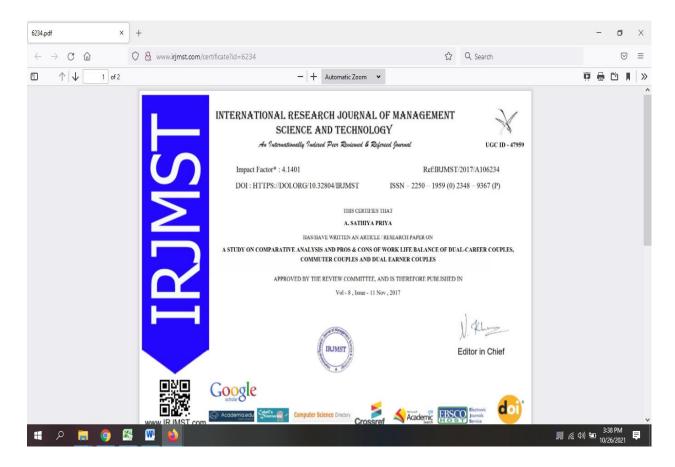


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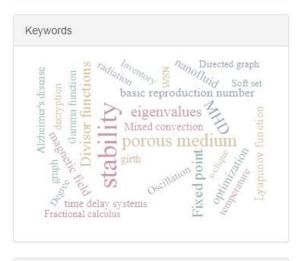
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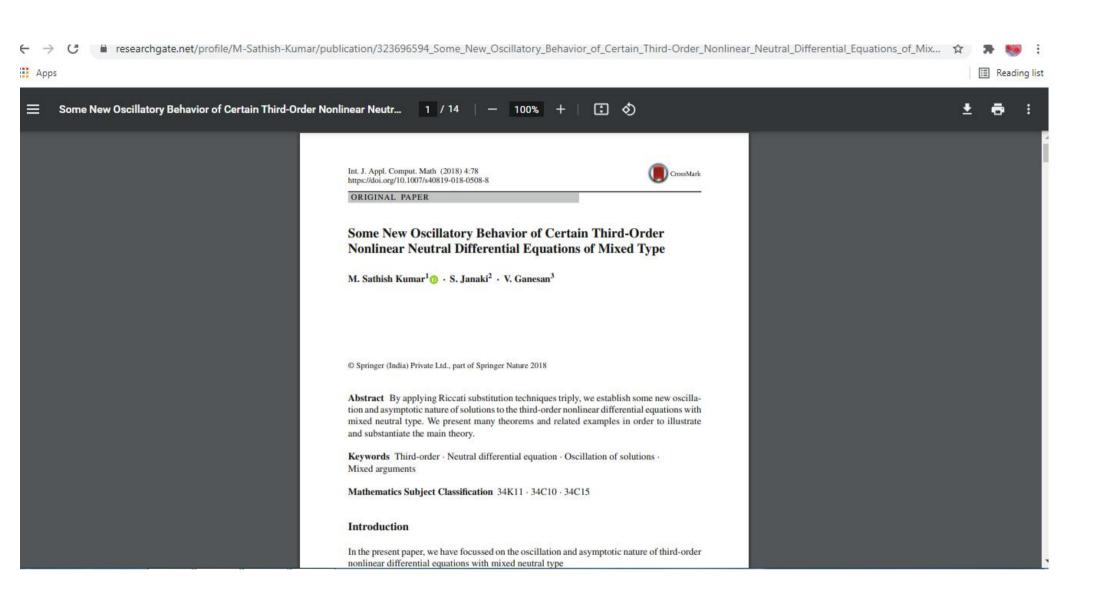
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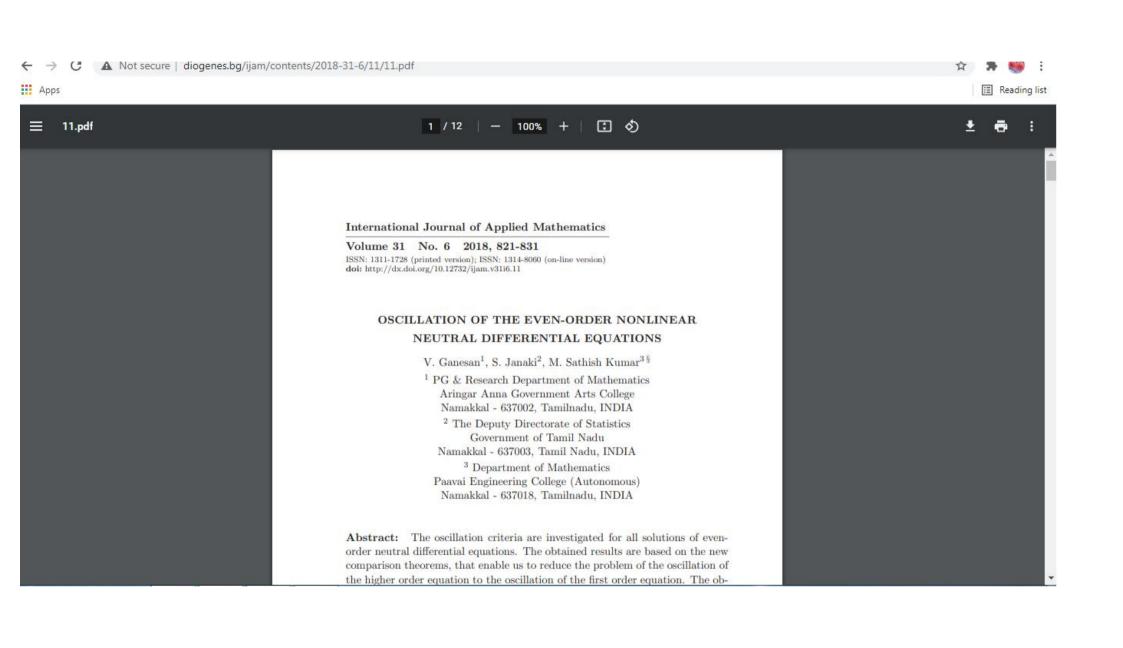
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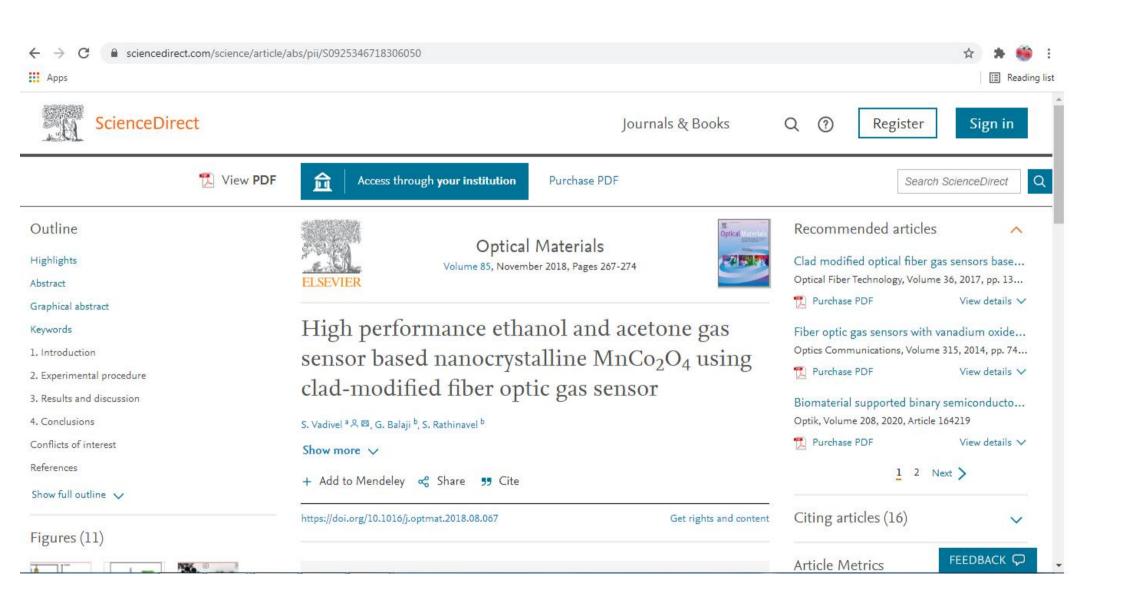




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Enhancing the structural, optical and magnetic properties of Cu₂O films deposited using a SILAR technique through Fe-doping

S. Satheeskumar¹ · S. Vadivel² · K. Dhanabalan³ · A. Vasuhi⁴ · A. T. Ravichandran⁵ · K. Ravichandran⁶

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Abstract

Undoped and Ferrous (Fe)-doped Cu₂O thin films were deposited onto glass substrates using successive ionic layer adsorption and reaction method. The variation in the concentration of Fe has significant impact on the final film properties, Fe doping with 5 wt% exhibited major property improvements compared with undoped and Fe doped films. The structural, optical, morphological, magnetic properties and atomic force microscope of the films were systematically investigated. The X-ray diffraction analysis showed that all the films had good crystalline quality and the preferential orientation along (111) plane. Optical studies show that the transmittance and optical band-gap values are maximum (2.5 eV) for the Fe doping level of 5 wt%. The relative errors are calculated for crystallite size and optical energy band gap values. The photoluminescence study confirms the presence of various defects in the Cu₂O matrix. The Fourier transform infrared results confirmed the presence of expected compounds in the samples. The field emission-scanning electron microscope images indicate that

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A Facile Route to the Synthesis of Zn-Doped CdO Nanostructures and a Comparative Investigation on Humidity-Sensing and Photocatalytic Applications

G. BALAJI, A. RATHINAM, and S. VADIVEL 652,3

1.—Department of Electrical and Electronics Engineering, Paavai Engineering College (Autonomous), Namakkal, Tamilnadu 637 018, India. 2.—Department of Physics, Paavai Engineering College (Autonomous), Namakkal, Tamilnadu 637 018, India. 3.-e-mail: vadivel.physics@gmail.com

Pure and zinc-doped CdO nanoparticles were synthesized via a novel microwave combustion method. The structural, morphology, chemical composition and optical properties of the samples were systematically investigated. The powder x-ray diffraction patterns reveal that both pure and doped samples are of a single crystalline nature with a cubic Fm3m CdO structure. Sphericalshaped morphology with an average diameter of around 25-35 nm was observed by field emission scanning electron microscope analysis. Ontical stud

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Development of ethanol and acetone gas sensing performance of MgCo₂O₄ nanosensors by clad modified fiber optical method



S. Rathinavel^a, S. Vadivel^{b,*}, G. Balaji^a

Department of Electrical and Electronics Engineering, Paavai Engineering College (Autonomous), Namakkal 637 018, Tamilnadu, India

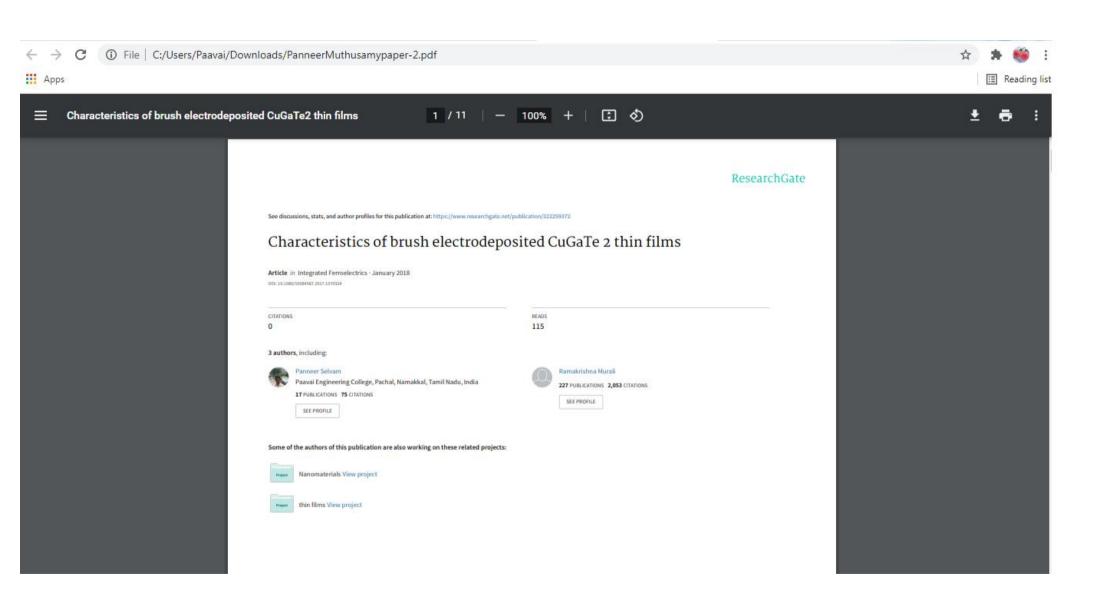
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Keywords: MgCo2O4 Spinel-type oxides Hydrothermal Fiber optic Ethanol gas High sensitivity

ABSTRACT

We have successfully synthesized large scale magnesium cobalt oxide (MgCo2O4) nanosheets (NSs) was synthesized by a facile hydrothermal route. These MgCo2O4 NSs were characterized by X-ray diffractometry, N2 adsorption Brunauer-Emmett-Teller method, scanning electron microscopy and transmission electron microscopy analysis. XRD and TEM results suggest that MgCo2O4 was cubic structure with nanosheets and sizes in the range of 200-250 nm diameter and 10-15 nm thickness. The N2 adsorption-desorption analysis indicates that the BET surface area of MgCo₂O₄ nanoparticles is calculated to be 98.5 m²/g and the pore size distribution is mostly centered at 30 nm. The MgCo2O4 sensor was exposed two type of reducing gases like ethanol and acetone

^b Department of Physics, Paavai Engineering College (Autonomous), Namakkal 637 018, Tamilnadu, India





ORIGINAL PAPER



Relative Role of Particle Size and Shape on the Magnetic and Catalytic **Behavior of Nanozinc Chromite**

G. Raja¹ · C. Ragupathi² · G. Sivaraman³

Received: 13 May 2018 / Accepted: 16 August 2018 © Springer Science+Business Media, LLC, part of Springer Nature 2018

Abstract

The purpose of this study is to define an effective synthesis for spinel-type zinc chromite (ZnCr2O4) nanoparticles by a simple microwave combustion method. The synthesized material was analyzed by X-ray diffraction (XRD), scanning electron microscopy (SEM), transmission electron microscopy (TEM), and from optical properties. A magnetic property for the material was examined through the vibrating sample magnetism. The distribution of the external magnetic lines of force and the self-generated magnetic field of ferromagnetic materials was taken into account in the presence of an external magnetic field. Zinc chromite showed good performances in catalytic oxidation, and the role of particle size and shape is highlighted.

Keywords Zinc chromite · Crystallinity · Optical properties · Magnetic properties · Spinel