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Criterion III

3.4.4. - Number of research papers per teachers in the Journals notified on UGC website during the last five years

DVV Finding:

Provide Cover page, content page and first page of

1. Influence of nonmetal doped graphene based nanomaterials synthesized using polysaccharide as precursor towards catalytic and luminescence activity
2. Carbon dots from aldopentose rich agricultural waste via pyrolysis as oxygen reduction catalyst
3. Facile synthesis of sulphonated graphene oxide from fructose for the dye degradation of organic dyes
4. Study of Influence of Seashell (*Crassostrea virginica*) Precursor and Neem (*Azadirachta indica*) Extract on the Microstructure and Anti Microbial Activity of Nano Scale Hydroxyapatite towards Dental Applications,
5. Functionalization of Graphene with O and S atoms for tunable fluorescence – Optimization of process and parameters
6. Energy Efficient Process Of Doping Sulphur On Graphene Oxide For Catalytic Degradation Of Chlorophenols
7. Energy efficient functionalization of graphene for tunable fluorescence
8. L'enfer, c'est les autres » - Sartre et la pandémie
9. Confinés mais libérés, les professeurs peuvent danser encore
10. Embracing E-Learning: A Personal Perspective

with ISBN numbers, title, author, Department/ School/ Division/ Centre/ Unit/ Cell, name and year of publication the year 2016-17, 2017-18 , 2018-19 and 2019-20, 2020-21.

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Response of HEI:

As per the DVV requirement, the following has been provided in the document attached.

Cover page, content page and first page of

1. Influence of nonmetal doped graphene based nanomaterials synthesized using polysaccharide as precursor towards catalytic and luminescence activity
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Sl. No.	Name of the teacher	Department	Title of the proceedings of the conference	Title of the paper	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher
1/10	DR.S.SUDHAPARIMALA	Chemistry	International Conference on Water energy and environment (WEECONN 2021)	Influence of nonmetal doped graphene based nanomaterials synthesized using polysaccharide as precursor towards catalytic and luminescence activity	2021	ISBN: 978-81-954872-4-0	ISET Research
2/10	DR. SUDHAPARIMALA	Chemistry	International Conference on Water energy and environment (WEECONN 2021)	Carbon dots from aldopentose rich agricultural waste via pyrolysis as oxygen reduction catalyst	2021	ISBN: 978-81-954872-4-0	ISET Research
3/10	DR. SUDHAPARIMALA	Chemistry	International interdisciplinary virtual conference on "Breakthroughs and Approaches in contemporary Scientific Research"	Facile synthesis of sulphonated graphene oxide from fructose for the dye degradation of organic dyes	2021	ISBN: 9789390853007	
4/10	DR. .SUDHAPARIMALA	Chemistry	Recent Trends in Chemical and Material Sciences	Study of Influence of Seashell (<i>Crassostrea virginica</i>) Precursor and Neem (<i>Azadirachta indica</i>) Extract on the Microstructure and Anti Microbial Activity of Nano Scale Hydroxyapatite towards Dental Applications	2021	ISBN: 978-93-91473-41-9	BP international (Published by UK and India)

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5/10	DR.S.SUDHAPARIMALA	Chemistry	Second International Conference on Materials Science and Manufacturing Technology 2020 (ICMSMT 2020)	Functionalization of Graphene with O and S atoms for tunable fluorescence –	2020	ISSN: 17578981	IOP Publishing
6/10	DR. SUDHAPARIMALA	Chemistry	International Conference On Advances In Chemistry With Specific Reference To Catalysis, Sensors, Drug Delivery And Energy Materials (ICACSEM - 2020)	Energy Efficient Process Of Doping Sulphur On Graphene Oxide For Catalytic Degradation Of Chlorophenols	2020		
7/10	DR.S.SUDHAPARIMALA	Chemistry	First International Conference on Advances in Physical science and Materials (ICAPSM-2020)	Energy efficient functionalization of graphene for tunable fluorescence	2020	ISSN – 1742 6596 1742 6588	IOP Publishing
8/10	MS. DEVI S	French	3rd RSRI Conference on Contemporaneity of Language and Literature in the Robotized Millennium	« L'enfer, c'est les autres » - Sartre et la pandémie	2021	ISBN: 9788194845966	REST Publishers
9/10	DR ADELIN G ALBERT	French	Études françaises et francophones – Passion et Connaissance dans l'espace numérique	Confinés mais libérés, les professeurs peuvent danser encore	2021	ISBN: 9788194845966	REST Publisher
10/10	MS. VIDHI. B. MODI	Bank Management	Paradigm Shift In Online Teaching:Methods And Practices (Book)	Embracing E-Learning: A Personal Perspective	2021	ISBN: 978-81-951230-4-9	A2Z Edu Learning Hub LLP

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1/10 Dr. S.Sudhaparimala - International Conference on Water energy and environment (WEECONN 2021)

*International Conference on Water, Energy and Environment (WEECON 2021),
ISET Research India in association with IET Vietnam, December 23-24, 2021*

INFLUENCE OF NONMETAL DOPED GRAPHENE BASED NANOMATERIALS SYNTHESIZED USING POLYSACCHARIDE AS PRECURSOR TOWARDS CATALYTIC AND LUMINESCENCE ACTIVITY

R.Ushai and S. Sudhaparimala¹*

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*Corresponding author Email: sudha92@gmail.com

Abstract:

Over the past few decades, Graphene based nanomaterials (GBNs) have attracted broad research interest because of their diverse physicochemical properties and considerable attributes like low cost, non-toxic, electron mobility with abundant functional groups. The study comprehensively summarizes the effect of doping element (S, O, N) with corresponding functional groups in the structure of graphene and analyze the optical and surface properties specifically towards fluorescence, metal sensing and the catalytic ability for the removal of organic/inorganic pollutants in the wastewater. The non metal heteroatom's doped graphene nanomaterials were synthesized using saccharide units as a precursor by hydrothermal method and characterized using some analytical tools. The structural evidence of doping elements of Sulphur and Nitrogen in the structure of graphene were provided by Micro Raman and Powder X ray diffraction analysis (PXRD), X-ray Photoelectron Spectroscopy (XPS) and microscopic images. The results confirmed the enhanced layer structure with reduced number of layers while doping with Sulphur and Nitrogen. Based on the observations, the adsorption and photocatalytic efficiency of the synthesized samples were analyzed for the decolorization of organic dyes. The results indicated the experimental conditions under which Sulphur doped graphene oxide is a good photocatalyst for the treatment of industrial wastewater. The observed microstructural defects have enhanced the fluorescence intensity of the synthesized sample of Nitrogen doped graphene nanomaterials (N-GO) than Sulphur and Oxygen doped graphene. The results provide the design and development of polysaccharides as novel graphene structures which are multi-functional to explore the toxicity towards bioimaging application on normal and cancer cells.

Keywords: Functionalized graphene based nanomaterials, Polysaccharide, Tunable fluorescence, Photocatalyst.

IMPACT OF CLIMATE CHANGE ON THE WATER BALANCE CONDITION IN NORTH EAST REGION OF INDIA

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¹Department of Agricultural Engineering, Assam university, Silchar-11, Assam, India

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Abstract:

Rainfall and evapo transpiration change directly influence the change in water balance dynamics of any region. Present study explores the spatial-temporal changes of climatic water balance (computed on the basis of rainfall and evapotranspiration) by using a wide range of

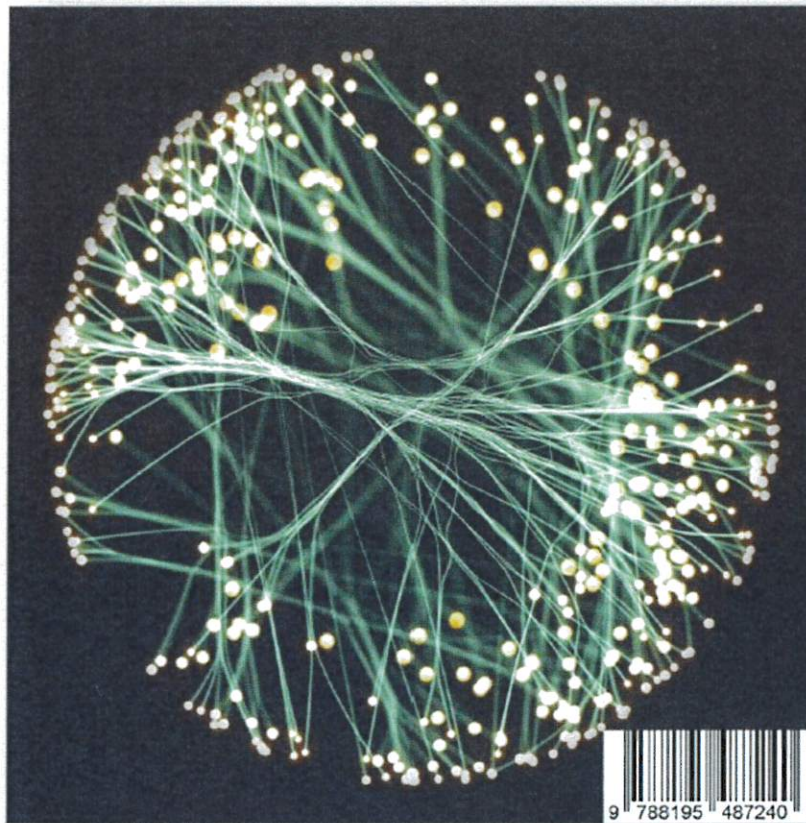
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ISET Research India in association with IET Vietnam, December 23-24, 2021*

CARBON DOTS FROM ALDOPENTOSE RICH AGRICULTURAL WASTE VIA PYROLYSIS AS OXYGEN REDUCTION CATALYST

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¹ Research Scholar, Department of Chemistry, Ethiraj College for Women, Chennai, India.

*Corresponding author email: Sudha92@gmail.com

Abstract:

This study reports the synthesis of 0-Dimensional (0-D) Carbon nanomaterial (CN) from pentose rich agricultural waste using thermal pyrolysis approach. The carbonization temperature fixed in the synthesis was able to govern the conversion of bulk aldopentose rich biowaste to 0-D material. The X-ray Diffractogram exhibited a broad peak centered around $\sim 19^\circ$ with FWHM (full width half maximum) of 6.67. The dispersed 0-D CN in aqueous media was found to exhibit green fluorescence under irradiation of UV lamp of 254nm can be observed by naked eye. The arrival of green fluorescence is crucial for bioimaging since it do not harm deoxy ribonucleic acid and considered to be safe. Fluorescent Carbon dots are new class of biocompatible and economic materials and their fluorescent nature is due to surface state and quantum confinement effects. The synthesized 0-D material can be well explored for fuel cell applications due to its Oxygen reducing property. This study successfully demonstrated the convenient and economical approach for converting pentose rich agricultural waste into high value Oxygen Reduction Catalyst.

Keywords: Oxygen reduction, green fluorescence, Carbon dots, Pyrolysis, agricultural waste

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3/10 Dr. S.Sudhaparimala - “Breakthroughs and Approaches in contemporary Scientific Research”

International Conference on “Breakthroughs and approaches in Contemporary Scientific Research”

OP - 16

FACILE SYNTHESIS OF SULPHONATED GRAPHENE OXIDE FROM FRUCTOSE FOR THE DEGRADATION OF ORGANIC DYES

S. Sudhaparimala and R.Usha.

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Dyes are organic pollutants, widely used in textiles, printing and food industry and the effluents have negative influence on the environment. Methylene blue (MB) is a phenothiazine derivative and it is carcinogenic when left untreated. There is a need for a simple method and an efficient solid catalyst with large active sites. In this aspect the Carbon 2D framework with groups like COOH, OH, and nonmetal hetero atoms offer a dynamic catalytic activity. The present study deals with an energy efficient and fast process to introduce such functional groups and Sulphur atoms to the Graphene structure from the simple precursor of fructose. The functionalized Graphene Based Nanomaterials were characterized using Fourier Transformed Infrared (FT-IR), Fourier Transformed Raman (FT-RAMAN), and Field Emission Scanning Electron microscopy (FE-SEM), Energy Dispersive X-ray analysis (EDX). The results were suggestive of their surface defects with increased Carbon to Oxygen ratio (C/O) and hence with adsorption property. The screening for their discoloration efficiency of amino dye of methylene blue by adsorption was satisfactory and hence there is scope for the degradation of other organic dyes and pollutants. The study will ultimately provide cues for the industrial waste water management.

Keywords: Graphene based nanomaterials, Sulphur doped graphene oxide, Hydrothermal, Methylene blue, adsorption catalyst

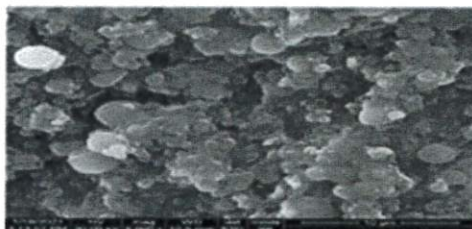


Figure 1 FE-SEM image of Sulphur doped graphene oxide (S-GO)

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4/10 Dr. S.Sudhaparimala - Recent Trends in Chemical and Material Sciences

Chapter 3

Print ISBN: 978-93-91473-41-9, eBook ISBN: 978-93-91473-49-5

Study of Influence of Seashell (*Crassostrea virginica*) Precursor and Neem (*Azadirachta indica*) Extract on the Microstructure and Anti Microbial Activity of Nano Scale Hydroxyapatite towards Dental Applications

S. Sudhaparimala^{1*} and R. Usha¹

DOI: 10.9734/bpirtcams/v2/11269D

ABSTRACT

Hydroxyapatite (HA) is a naturally occurring important osteo dental mineral in humans. Synthesis of the biomineral of hydroxyapatite in the nano scale as a versatile ceramic having an adhesive property, as a tissue transplant, dental implant is an ongoing research. The research reports have mainly focused on enhancing various properties of hydroxyapatite by making as nanocomposites for multifunctional applications. There is a need for making use of biowastes, (animal or sea wastes) that can be the potential precursors with abundant minerals for the fabrication of HA. The research study focusses on the conversion the seawaste/ seashell (*Crassostrea virginica seashell*) into hydroxyapatite followed by further modification with neem (*Azadirachta indica*) extract for enhanced anti-microbial activity. The study provided a road map in two aspects one being, locating the rich natural resources (sea) in the country and another being efficient tapping of such resources as the precursors for the fabrication of biomedicated materials. The highlight of the study is the comparison of the assynthesized material (from the green source) with the sample synthesized from a purely synthetic resource. The comparison in terms of microstructure, morphology, anti-microbial activity provided many cues to synthesis- structure- activity relationship of HA. The effective change in surface morphology and the ratio of Ca to P (Ca/P) of HAp is an important step towards tooth and bone replacement upon modification. The benefit of addition of further antioxidant natural extracts to HA depends on the condition of *in situ* or *post* preparation of HA. The screening of antimicrobial properties (*Streptococcus mutans bacteria* and *Candida albicans fungi*) of the synthesized HAp's gave satisfactory results. Ultimately the research study contributes towards the efficient design of multifunctionality to the bio mineral of HA. It will benefit the field of dentistry and orthopedics.

Keywords: Biomaterial; hydroxyapatite; sea waste; wet precipitation; oyster shell; antimicrobial activity Azadirachta indica

1. INTRODUCTION

Hydroxyapatite (HA) $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$ is one of the widely used replacement bioceramics in terms of bone and tooth substituent due to its high corrosion resistance, better compressive strength, porosity, low density and low weight [1]. Porous morphology of HA and β -TCP (Tri calcium phosphate) are attractive for bone regeneration and good growth property. HA is the best alternative for bone and tooth replacement because of its similarity in terms of chemical structure, crystallography, morphology and Ca/P ratio of 1.67 with that of humans [2,3,4,5]. HA is also used for non-medical application in terms of packing column in chromatography, gas sensors, and catalysts [6].

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Dr. S.Sudhaparimala - Recent Trends in Chemical and Material Sciences

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FIRST EDITION 2021

ISBN 978-93-91473-41-9 (Print)

ISBN 978-93-91473-49-5 (eBook)

DOI: 10.9734/bpi/rtcams/v2



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Advanced Materials and Manufacturing Engineering

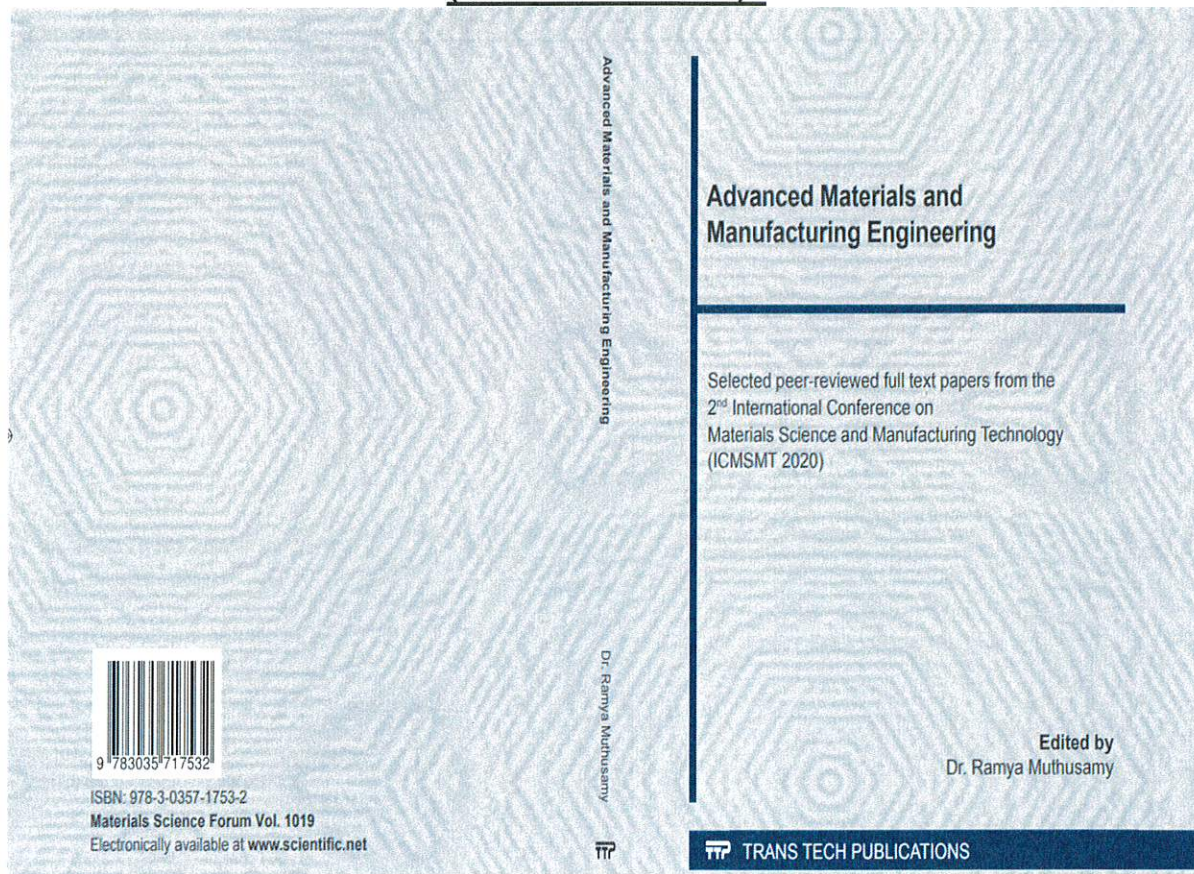
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IOP Publishing

Journal of Physics: Conference Series

1706(2020)012028

doi:10.1088/1742-6596/1706/1/012028

Energy efficient functionalization of graphene for tunable fluorescence

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Abstract. Multifunctionality of Carbon-Based Nano Materials, Graphene in particular is gaining more relevance in their diversified applications. Today, the fabrication of luminescent graphene materials is significant for the field of biomedicine of healthy and malignant cells due to their biocompatible tunable fluorescence. In this aspect there is a need for a simple, energy efficient process for the introduction of hetero atoms of Oxygen and Sulphur into the graphene structure to explore the enhancement of fluorescence. The present study aims at the optimization of processing temperature and other experimental parameters for doping hetero atoms of Oxygen and Sulphur in the graphene structure for tuning their luminescence properties. The method involved hydrothermal carbonization of simple precursor of glucose in lower temperatures of 180°C and 220°C and alkaline pH followed by the analytical characterization of the product samples. The introduction of hetero atoms, the presence of sp^2 Carbon, band gap energy, microstructure along with layer structures were ascertained in the as-synthesized graphene samples. The influence of processing temperature, oxygen functionality and defect structures upon emission wavelength range of graphene in the visible region was well correlated. Ultimately, the study provided the fundamental aspects of fabricating graphene structures suitable for tunable fluorescence of graphene aimed at bio imaging technique.

Keywords: Graphene, Functionalized graphene, Hydrothermal Carbonization, Tunable fluorescence, bioimaging

1. Introduction

Carbon-based nanomaterials (CBNs) have a great interest due to their low-cost, structural tunability, large surface area, and unique physicochemical properties. Carbon-based nanomaterials can be classified into different types due to its quantum confinements, such as 3D - Graphite and Diamond, 2D - Graphene, 1D - Carbon nanotubes, 0D - Fullerene, Carbon quantum dots, nanodiamonds. [1]

In recent years, among the CBNs, graphene has attracted considerable interest in various applications in electrical, electronic, catalytic, medicine, biotechnology and various interdisciplinary sciences. Graphene is a one-atom-thick layer of sp^2 -bonded 2D honeycomb lattice of carbon. The delocalized π electrons of sp^2 hybridized carbon atoms lead to an attractive electronic property for energy conversion and storage. Unfunctionalized graphene sheets are insoluble and infusible.



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Preface

2022 *J. Phys.: Conf. Ser.* 2298 011001

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doi: 10.1088/issn.1742-
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Online ISSN: 1742-6596
Print ISSN: 1742-6588

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Devi, et al. *Études Françaises et Francophones* 2(1) 2021, 29-31

Études Françaises ET Francophones
- Passion ET Connaissance dans l'Espace Numérique
Vol: 2(1), 2021

Éditeur Ramachandra Éducation al and Sports Trust
ISBN:9788194845966

Website:<http://restpublisher.com/french-and-francophone-studies/>

« L'enfer, c'est les autres » - Sartre et la pandémie

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Résumé

La pandémie et la quarantaine ont mis l'accent sur l'importance de se connecter avec les autres. C'est seulement quand on ne sort pas qu'on apprécie mieux comment la vie était auparavant. En raison de l'isolement on a eu assez de temps pour s'interroger sur nos propres relations avec les autres et ainsi conclure, au sens social, que l'on ne peut jamais vivre seul. Quant au philosophe Sartre, il l'a compris déjà, il y a des décennies, comme attesté par la citation célèbre de *Huis Clos* (1944) « L'enfer, c'est les autres ».

Mots-clés : autrui, regard, jugement, quarantaine, existentialisme

Introduction et contexte de recherche

Le coronavirus a mis les freins sur la vie quotidienne depuis sa parution en 2019. Dans le cadre de mesures pris pour arrêter la propagation du virus, tout le monde a dû s'isoler et rester chez soi. Pourvu que la plupart de gens n'aient pas de moral pour faire rien pendant cette crise sanitaire, on a eu beaucoup de temps pour réfléchir. Après une évaluation approfondie, presque tout le monde a conclu que l'on est heureux seulement s'il y a quelqu'un avec qui on peut passer du temps. Les nombreux internautes l'affirment à travers l'augmentation soudaine et grande de l'usage des réseaux sociaux. Compte tenu de ce contexte, l'existentialisme sartrien nous incite à penser à nos relations avec l'autrui. La quarantaine est comme un « huis clos » où au lieu des trois personnages, Garcin, Inès et Estelle, on est enfermé avec les autres membres de nos familles. Pareil aux personnages de la pièce, on ne peut pas échapper le regard et par conséquent le jugement des autres avec qui on est « emprisonnés ». De plus, les autres qui existent hors de nos maisons jouent aussi des rôles des « bourreaux » car même si le contact avec le monde extérieur est limité, il n'est pas complètement empêché. Écrit en 1944 pendant l'Occupation, la pièce *Huis Clos* met en scène l'enfer sartrien. L'impact de Second Guerre Mondiale et l'Occupation sont évident dans cette œuvre : les gens qui ne peut ni veut échapper d'une chambre où ils ne peuvent que se tourmenter.

Objectif de recherche

Cet article vise à analyser la citation de Sartre et ensuite faire le pont entre celui-ci et le monde actuel où la pandémie et la quarantaine font toujours partie de notre vie quotidienne. En analysant la citation célèbre d'un point de vue existentialiste, on y trouve de l'espoir pour faire face à cette crise sanitaire. Elle nous donne des outils pour surmonter le désespoir car on apprend que l'esprit humain n'est pas si fragile comme attesté souvent par l'histoire.

« L'enfer, c'est les autres »

Le philosophe français, Sartre, explore sa philosophie à travers ses romans et ses pièces. Notamment, le roman *L'Être et le Néant* (1943) et la pièce *Huis Clos* (1944) aident à comprendre cette citation.

Le regard : Selon la formule de Sartre, « l'Existence précède l'Essence ». L'existentialisme, donc, met l'accent sur l'existence, opposé à l'essence. Il ajoute que « l'homme est ce qu'il se fait ». Par conséquent, ce sont les regards qui justifient l'existence d'un être; c'est-à-dire, le regard des autres nous ramène à nous-mêmes et il nous fait voir soi-même en tant qu'objet. Le regard, donc, a une place importante car on peut être quelque chose seulement par le regard d'autrui. D'ailleurs, on ne peut jamais se voir comme vu par le regard des autres. Dans la pièce, la chambre où les personnages se trouvent n'a pas de miroirs : il n'y a que des chaises et un bronze. Ainsi chacun ne peut se voir que par les yeux des autres. Les personnages se voient et se tourmentent; leurs regards sont plus aigüé car ils n'ont pas de paupières. Alors, ils n'ont pas de choix, ils doivent toujours regarder l'un et l'autre, emportant avec le regard, leurs jugements. La censure portée par le regard a un effet néfaste sur l'autre dans la pièce car les relations entre les trois sont problématiques. Quand on croise le regard de quelqu'un, d'abord, on voit l'autre en tant que sujet; c'est-à-dire, on voit l'esprit de celui qui est devant nous. L'invisible devient donc visible. En deuxième lieu, quand on croise le regard de quelqu'un, on s'est vu en tant qu'objet; c'est-à-dire, on est vu comme on ne peut jamais se voir. Duchâtel et Huisman disent « l'homme, livré au regard des autres qui le condamnent à n'être que ce qu'ils jugent qu'il est, il n'est plus qu'un objet. » Dans le préambule à l'enregistrement phonographique de la pièce en 1965, Sartre dit « Les autres sont au fond ce qu'il y a de plus important en nous-mêmes pour notre propre connaissance de nous-mêmes. » Dans la pièce, quand la porte s'ouvre enfin, personne n'y sort car ils ne veulent pas exister en dehors des regards de l'un et l'autre. L'autre devient le médiateur entre soi et soi-même. Estelle cherche un miroir pour se voir mais elle n'y trouve pas; elle demande Garcin de se rapprocher pour qu'elle puisse se maquiller en voyant son reflet dans les

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9/10 Dr Adeline G Albert - Études françaises et francophones – Passion et Connaissance dans l'espace numérique

Dr Adeline et al. *Études Françaises et Francophones* 2(1) 2021, 8-9



Études Françaises ET Francophones
- Passion ET Connaissance dans l'Espace Numérique
Vol: 2(1), 2021
Éditeur Ramaachandra Educational and Sports Trust
ISBN: 9788194845966
Website: <http://restpublisher.com/french-and-francophone-studies/>

Confinés mais libérés – les professeurs peuvent danser encore
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Le Contexte

Pendant les confinements successifs qui avaient lieu en 2020 et 2021, je me sentais comme un dinosaure (comme plusieurs de mes collègues). Habitée à l'usage de ma voix et d'un morceau de craie (*Chalk and talk* comme on dit en anglais), mes cours de FLE, étaient organisés autour des activités traditionnelles de discussions, questions / réponses, jeux de rôles et parfois des vidéos ou des enregistrements audio. Les chansons existaient seulement comme moyen de divertissement. Je ne les exploitais pas en tant qu'outil pédagogique. À la suite de mars 2020, soudain, mon monde était bouleversé. Je devais convertir les cours en présentiel aux cours en ligne. Je devais apprendre à faire travailler mon ordinateur et apprendre de manipuler de nouveaux outils qui ont été vite transformés d'ornements pédagogiques en nécessité quotidienne. Mais le cauchemar auquel je me suis confronté comme mes compatriotes en enseignement de FLE, était ancré dans cette question dorée : comment faire parler les étudiantes en cours virtuels ; surtout quand les micros ne marchent pas, quand les connexions internet sont difficiles et quand les étudiantes préfèrent entrer les cours virtuels, éteindre leurs micros et caméras en disparaissant aux coins sombres de leurs résidences.

Les initiatives

Plusieurs activités ont été identifiées et mises en œuvre – tâches orales où les étudiantes devaient parler d'un thème ou bien ou bien une lecture guidée d'un document et m'envoyer un enregistrement audio/vidéo via WhatsApp. Mais, vite, il devenait clair que ces activités étaient faites seulement par les étudiantes motivées. Les autres (au moins 80% de la classe) étaient trop timides.

Nous avons vite constaté que les étudiantes aiment parler (plutôt râler) du confinement. Et elles aimaient bien les chansons. Pourquoi pas alors, créer des cours autour des chansons liées au confinement ? Nous avons eu l'idée de leur introduire aux chansons dans l'initiative de les pousser à parler de leurs propres situations et de leurs rêves. Nous avons vu que ces chansons ont poussé un plus grand pourcentage des étudiantes à interagir en classe. Cette présentation dévoilera 3 telles chansons choisies pour faire parler les étudiantes. Nous présenterons 2 chansons de HK, qui appartient au genre Pop et reggae qui est devenue célèbre en France suite à leur sorties pendant le confinement.

- Nous on veut continuer à danser encore (https://www.youtube.com/watch?v=g48_U2T3QRE) et
- Laissez-nous travailler (<https://www.youtube.com/watch?v=f13JrTec0M>)

En raison de la pandémie du Covid-19 en 2020, un spectacle du groupe dont HK est membre est annulé car déclaré « non-essentiel ». À ce moment-là, il crée la chanson *Danser encore* qui est vite devenue une chanson reprise par plusieurs groupes partout en Europe et en France. Bien sûr la chanson a engendré une polémique :

- D'une part, HK représentait ceux qui voulaient chanter, danser, travailler avec les arts afin de vivre en donnant du bonheur aux autres. Et, si on suivait les règles strictes du confinement, les arts étaient non-essentiels !
- D'autre part, on prohibait les concerts culturels et la vie des soirées pour diminuer les risques associés aux clusters de contagion.

Les vidéos mêmes de HK (nous avons fournis les liens You tube ci-dessous) souvent montraient les gens chantant et dansant en groupe, sans soucis du distancement social ni masques. Alors, ces vidéos étaient un point de départ excellent pour faire parler mes étudiantes de leurs coins et de leur faire parler. Certes, je devais aussi prendre la décision de sortir de l'ère des dinosaures, et d'utiliser toutes mes forces pour apprendre littéralement à danser (manipuler avec grâce et habileté la technologie) dans les cours virtuels.

Les cours ont été divisés en 4 grandes parties

- Discuter la situation actuelle chez elles.
- Parler de ce qu'elles voulaient faire
- Discuter le confinement en Inde et en France.
- Demander leurs opinions sur les activités essentielles et non-essentiels.

Et il y avait des règles à suivre - tous devaient parler soit en français, soit en anglais, soit en tamil. Mais à la fin de la tâche, nous devaient écrire ou dire une ou deux phrases sur le thème en français. Les résultats étaient encourageants ; les cours ne ressemblaient plus des cimetières virtuels mais devenaient des cours animés avec des discussions guidées vers une conclusion pédagogique.

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10/10 Ms. Vidhi. B. Modi- Paradigm Shift In Online Teaching: Methods And Practices

"Paradigm Shift in Online Teaching - Methods and Practices"

ISBN: 978-81-951230-4-9

Chapter 25

EMBRACING E-LEARNING: A PERSONAL PERSPECTIVE

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Introduction

E-learning has transformed the education sector in various ways, especially during the COVID-19 pandemic. Just like technology, teaching pedagogy should be constantly altered to adapt to contemporary requirements and educational needs. Online education, according to Harasim (1989) is a domain of learning that combines distance education with the practice of face-to-face instruction, utilizing computer-mediated communication. Adapting to the digital classroom was a challenge for the students and faculty alike. The virtual platform embraces pedagogy vastly different from its brick-and-mortar counterpart. It compensates for its lack of human touch by way of professional development, encouraging effective course design, instruction, implementation, and evaluation. Online teaching came as a boon during the outbreak of the pandemic. Even so, it has a few pitfalls. It increases our active screen-time in using gadgets and leads to frequent headaches and eye strain. It might make students lethargic in terms of completing their assignments or studying for their exams. As far as the teachers are concerned, it has proved more challenging because of two main reasons. One, middle-aged teachers find it hard to wrap their heads around the functioning of a laptop. Two, they are at a loss in harnessing the virtual space to sustain the attention of students. However, as they say in management terms, the ability to convert every difficulty into an opportunity is the sign of success. Further, e-learning has its set of unique advantages. To name a few: ease of access to classes, more sources of information, and the comfort of learning in one's own rhythm. If I may say so, a lot more needs to be done to make cyber learning more interesting and sculpt it to be a close substitute to traditional classes. Internet-based learning can promote students' critical thinking skills, deep learning, collaborative learning, and problem-solving skills (Ascough, 2002; Rosie, 2000 & Briggs, 1999).

I substantiate the above by sharing my own experience in this one year of online teaching, which also happens to be my first year in the teaching career. It was indeed very special. One is typically nervous in the first year of formal teaching; but I was relieved. The new medium was as new to me as it was to the veterans! I took this challenge as an opportunity to improvise upon the teaching pedagogy that would make the classes interesting for the students. Attending a few Faculty Development Programmes (FDPs) helped me improvise effectively. In this essay, I intend to share a few methods based on my own experiences and the feedback I received from my students. The strategies of active learning, cooperative learning, and experiential learning are extremely efficacious. They may be helpful to other mentors as well.

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