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3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during last five years

HEI Input:

2023-24	2022-23	2021-22	2020-21	2019-20
22	27	15	24	12

DVV Suggested Input:

2023-24	2022-23	2021-22	2020-21	2019-20
11	08	07	12	09

Change Input:

2023-24	2022-23	2021-22	2020-21	2019-20
11	10	08	12	07

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2019-20						
Sl. Number	**Title of Paper**	**Author**	**Department**	**Journal Name**	**ISSN Number**	**Year of Publ.**
1.	Americium incorporation into studtite: a theoretical and experimental study.	Dr. Saptarshi Biswas	Chemistry	Dalton Transactions	1477-9234	2019
2.	Quaternary Bit-Swap Logic with QPSK Signal Using Four Wave Mixing	Dr.Sutanu Kumar Chandra	Physics	Journal of Optical Communications	2191-6322	2019
3.	Experimental and theoretical exploration of photophysics and trans-cis photoisomerization of styrylbenzene conjugated terpyridine complexes of Ru(II): Strong effect of deprotonation from second coordination sphere	Dr. Dinesh Maity	Chemistry	Journal of Photochemistry & Photobiology A: Chemistry	1873-2666	2020
4.	A STUDY ON THE MERGER OF PUBLIC SECTOR BANKS IN RECENT TIMES	Sk. Shakeel	Commerce	THE MANAGEMENT ACCOUNT	0972-3528	2020
5.	ROLE OF INTERNAL AUDIT IN MERGER AND ACQUISITION	Sk. Shakeel	Commerce	THE MANAGEMENT ACCOUNT	0972-3528	2020
6.	A Study on The Role of Environmental Accounting and Environmental Auditing in Achieving Sustainable Development	Sk. Shakeel	Commerce	THE MANAGEMENT ACCOUNT	0972-3528	2020
7.	Alternative Agriculture and Its Impact on Rural Economy of Selected Mouza of Nadia	Tanmoy Basu	Geography	Studies in Indian Place Names	2394-3114	2020

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2019-20

Title of Paper: Americium incorporation into studtite: a theoretical and experimental study.

Author: Dr. Saptarshi Biswas

Journal: Dalton Transactions (SCOPUS Indexed)

Link to the journal: https://www.rsc.org/journals-books-databases/about-journals/dalton-transactions?gad_source=1&gclid=EAIaIQobChMIoMevkfffiAMV9admAh0jqRzwEAAYASAAEgIkMfD_BwE

Link to the article: https://pubs.rsc.org/en/content/articlelanding/2019/dt/c9dt02848j

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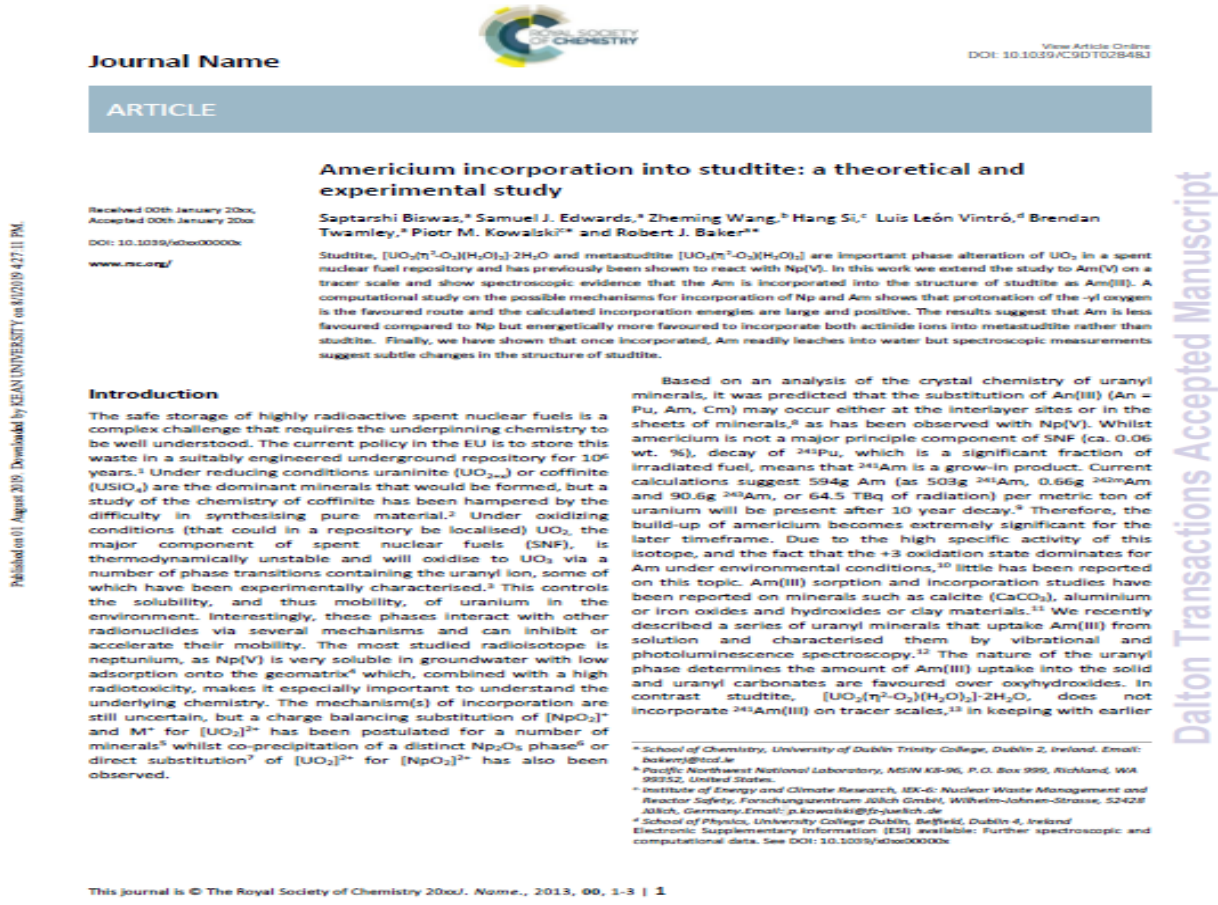
First Page of the paper:



Journal Name

View Article Online
DOI: 10.1039/C9DT02848J

ARTICLE

Americium incorporation into studtite: a theoretical and experimental study

Saptarshi Biswas,[a] Samuel J. Edwards,[a] Zheming Wang,[b] Hang Si,[c] Luis León Vintró,[d] Brendan Twamley,[a] Piotr M. Kowalski[c]* and Robert J. Baker[a]*

Received 00th January 20xx,
Accepted 00th January 20xx

DOI: 10.1039/x0xx00000x

www.rsc.org/

Studtite, $[UO_2(\eta^2\text{-}O_2)(H_2O)_2]\cdot 2H_2O$ and metastudtite $[UO_2(\eta^2\text{-}O_2)(H_2O)_2]$ are important phase alteration of UO_2 in a spent nuclear fuel repository and has previously been shown to react with Np(V). In this work we extend the study to Am(V) on a tracer scale and show spectroscopic evidence that the Am is incorporated into the structure of studtite as Am(III). A computational study on the possible mechanisms for incorporation of Np and Am shows that protonation of the -yl oxygen is the favoured route and the calculated incorporation energies are large and positive. The results suggest that Am is less favoured compared to Np but energetically more favoured to incorporate both actinide ions into metastudtite rather than studtite. Finally, we have shown that once incorporated, Am readily leaches into water but spectroscopic measurements suggest subtle changes in the structure of studtite.

Introduction

The safe storage of highly radioactive spent nuclear fuels is a complex challenge that requires the underpinning chemistry to be well understood. The current policy in the EU is to store this waste in a suitably engineered underground repository for 10^6 years.[1] Under reducing conditions uraninite (UO_{2+x}) or coffinite ($USiO_4$) are the dominant minerals that would be formed, but a study of the chemistry of coffinite has been hampered by the difficulty in synthesising pure material.[2] Under oxidizing conditions (that could in a repository be localised) UO_2, the major component of spent nuclear fuels (SNF), is thermodynamically unstable and will oxidise to UO_3 via a number of phase transitions containing the uranyl ion, some of which have been experimentally characterised.[3] This controls the solubility, and thus mobility, of uranium in the environment. Interestingly, these phases interact with other radionuclides via several mechanisms and can inhibit or accelerate their mobility. The most studied radioisotope is neptunium, as Np(V) is very soluble in groundwater with low adsorption onto the geomatrix[4] which, combined with a high radiotoxicity, makes it especially important to understand the underlying chemistry. The mechanism(s) of incorporation are still uncertain, but a charge balancing substitution of $[NpO_2]^+$ and M^+ for $[UO_2]^{2+}$ has been postulated for a number of minerals[5] whilst co-precipitation of a distinct Np_2O_5 phase[6] or direct substitution[7] of $[UO_2]^{2+}$ for $[NpO_2]^{2+}$ has also been observed.

Based on an analysis of the crystal chemistry of uranyl minerals, it was predicted that the substitution of An(III) (An = Pu, Am, Cm) may occur either at the interlayer sites or in the sheets of minerals,[8] as has been observed with Np(V). Whilst americium is not a major principle component of SNF (ca. 0.06 wt. %), decay of ^{241}Pu, which is a significant fraction of irradiated fuel, means that ^{241}Am is a grow-in product. Current calculations suggest 594g Am (as 503g ^{241}Am, 0.66g ^{242m}Am and 90.6g ^{243}Am, or 64.5 TBq of radiation) per metric ton of uranium will be present after 10 year decay.[9] Therefore, the build-up of americium becomes extremely significant for the later timeframe. Due to the high specific activity of this isotope, and the fact that the +3 oxidation state dominates for Am under environmental conditions,[10] little has been reported on this topic. Am(III) sorption and incorporation studies have been reported on minerals such as calcite ($CaCO_3$), aluminium or iron oxides and hydroxides or clay materials.[11] We recently described a series of uranyl minerals that uptake Am(III) from solution and characterised them by vibrational and photoluminescence spectroscopy.[12] The nature of the uranyl phase determines the amount of Am(III) uptake into the solid and uranyl carbonates are favoured over oxyhydroxides. In contrast studtite, $[UO_2(\eta^2\text{-}O_2)(H_2O)_2]\cdot 2H_2O$, does not incorporate ^{243}Am(III) on tracer scales,[13] in keeping with earlier

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[b] Pacific Northwest National Laboratory, MSIN K8-96, P.O. Box 999, Richland, WA 99352, United States.
[c] Institute of Energy and Climate Research, IEK-6: Nuclear Waste Management and Reactor Safety, Forschungszentrum Jülich GmbH, Wilhelm-Johnen-Strasse, 52428 Jülich, Germany. Email: p.kowalski@fz-juelich.de
[d] School of Physics, University College Dublin, Belfield, Dublin 4, Ireland

Electronic Supplementary Information (ESI) available: Further spectroscopic and computational data. See DOI: 10.1039/x0xx00000x

Title of Paper: Quaternary Bit-Swap Logic with QPSK Signal Using Four Wave Mixing

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Author: Dr. Sutanu Kumar Chandra

Journal: Journal of Optical Communications(SCOPUS Indexed)

Link to the journal: https://www.degruyter.com/journal/key/joc/html?lang=en

Link to the article: https://www.degruyter.com/document/doi/10.1515/joc-2019-0158/html

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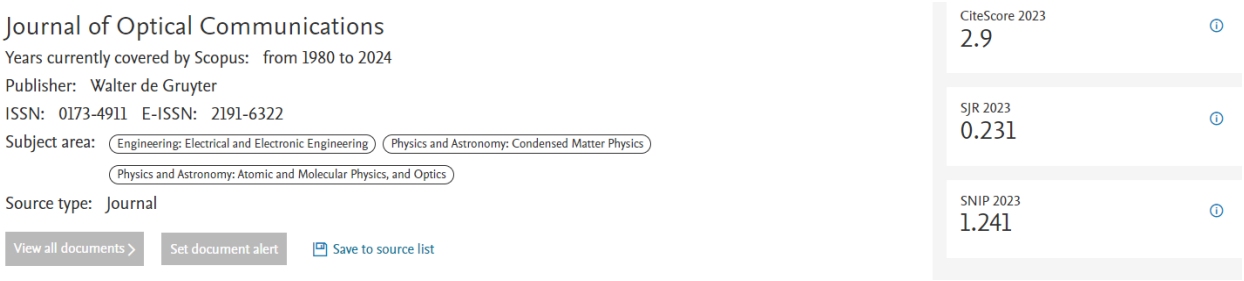

Journal of Optical Communications

Years currently covered by Scopus: from 1980 to 2024

Publisher: Walter de Gruyter

ISSN: 0173-4911 E-ISSN: 2191-6322

Subject area: Engineering: Electrical and Electronic Engineering | Physics and Astronomy: Condensed Matter Physics | Physics and Astronomy: Atomic and Molecular Physics, and Optics

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First Page of the paper:

DE GRUYTER J. Opt. Commun. 2019; aop

Sutanu Kumar Chandra* and Subhendu Biswas

Quaternary Bit-Swap Logic with QPSK Signal Using Four Wave Mixing

https://doi.org/10.1515/joc-2019-0158
Received June 15, 2019; accepted October 24, 2019

Abstract: Multilevel modulation formats have been now investigated very much to increase the speed and data capacity of optical communication networks in the limited bandwidth. Quadrature phase modulated signal has captured the attention of the researchers in this aim due to its high spectral efficiency and less bit error rate. Quaternary Bit-Swap logic operation is very important fundamental logic operation related to fast and secure computing and communication. Here in this report the authors propose a new method of implementation of all-optical quaternary Bit-Swap logic operation with quadrature phase modulated signal using four wave mixing.

Keywords: quaternary Bit-Swap logic, QPSK, FWM, multivalued all optical system

1 Introduction

Nowadays multivalued logic with more than two discrete states has been proposed to replace the generally used binary logic gates in digital processing system due to its potency towards the requirement of less power, high speed and massive data capacity in processing. It also requires lesser area and complexity in the network for designing several functional units [1, 2]. Again, bandwidth requirement of present communication and computing system is increasing excessively to carry out the need of ultrahigh speed and huge data managing capacity [3, 4].

All-optical communication and computing system have been proposed using novel optoelectronic devices with ultrafast switching ability and various advanced data encoding techniques to meet this demand [5, 6]. Several encoding techniques using different characters of light signal have been proposed and demonstrated in this aim.

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Subhendu Biswas, Department of Physics, University Institute of Technology, The University of Burdwan, Purba Bardhaman, Bardhaman, West Bengal, India, E-mail: biswsubhendu@gmail.com

Recently phase encoding techniques have acquired special attention due to its lot of benefits over the others towards achieving high speed, less noise and more data managing ability [7]. Enhancing the bandwidth is not always possible due to unavailability of various components working in this range such as modulator, amplifier, filter, detector, etc. Greater spectral efficiency of data modulation techniques is very crucial for managing more data in the limited bandwidth [8].

Now multilevel phase modulation techniques such as QPSK, 8-PSK, m-PSK, QAM, etc. have been investigated in this purpose. Quadrature phase modulated signal and all other higher order modulated signal have been already deployed for high-speed optical communication network. Therefore, to go with this growing uses of multilevel phase modulated signal in communication systems, phase information processing technique is also to be developed to make the entire process in the same data format. Therefore, no format conversion will be required in case of processing of data at the node of the network. In the last few decades, several nonlinear phenomena with various devices have been studied to implement the high-speed all-optical network [9].

Four wave mixing (FWM) has got special significance due to its ultrafast switching ability as well as transparency towards any data format and bit rate. FWM in semiconductor optical amplifier (SOA) will be ultrafast intraband process if the wavelength detuning is maintained properly. Preservation of phase matching condition for FWM process is the basic mechanism behind its phase information processing character [10, 11]. In the last few years, phase information-processing character of FWM phenomena have been used for implementing various ultrafast all-optical logic operations using binary phase modulated signal [12–15]. All optical XOR logic operation using QPSK signal has been already proposed for all optical data exchange, format conversion, data encryption, etc. [16–21].

Here in this article the authors propose a new scheme to implement the quaternary Bit-Swap logic operation for QPSK signal using phase information processing character of FWM in SOA. Some schemes of all-optical quaternary logic processor are already proposed using polarisation and frequency encoding techniques [22, 23].

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Title of Paper: Experimental and theoretical exploration of photophysics and trans-cis photoisomerization of styrylbenzene conjugated terpyridine complexes of Ru(II): Strong effect of deprotonation from second coordination

Author: Dr. Dinesh Maity

Journal: Journal of Photochemistry & Photobiology A: Chemistry (SCOPUS Indexed)

Link to the journal: https://www.sciencedirect.com/journal/journal-of-photochemistry-and-photobiology-a-chemistry

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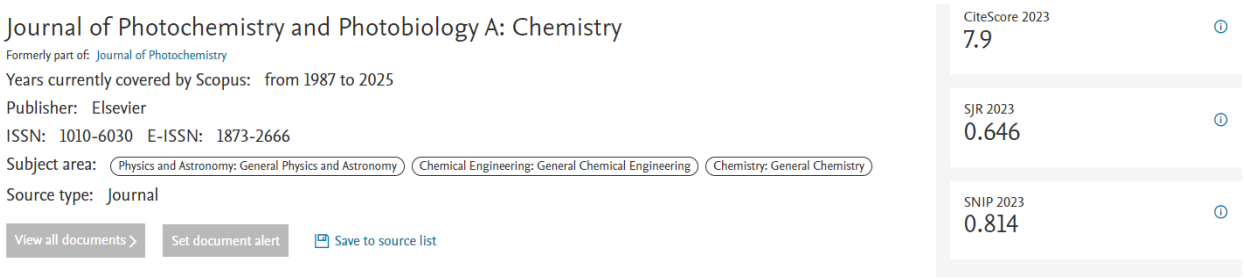

Journal of Photochemistry and Photobiology A: Chemistry

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Years currently covered by Scopus: from 1987 to 2025

Publisher: Elsevier

ISSN: 1010-6030 E-ISSN: 1873-2666

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First Page of the paper:

Journal of Photochemistry & Photobiology A: Chemistry 392 (2020) 112409

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Journal of Photochemistry & Photobiology A: Chemistry

journal homepage: www.elsevier.com/locate/jphotochem

Experimental and theoretical exploration of photophysics and trans-cis photoisomerization of styrylbenzene conjugated terpyridine complexes of Ru(II): Strong effect of deprotonation from second coordination sphere

Poulami Pal[a], Tanusree Ganguly[a], Dinesh Maity[a,b], Sujoy Baitalik[a,*]

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[b] Department of Chemistry, Katwa College, Purba Bardhaman, West Bengal, 713130, India

ARTICLE INFO

Keywords:
Styrylbenzene-terpyridine
Ruthenium
Photoisomerization
Deprotonation
DFT and TD-DFT

ABSTRACT

We report herein synthesis, characterization, photophysics, and photo-isomerization behaviors of a new class of heteroleptic Ru(II) complexes incorporating styrylbenzene conjugated terpyridine and 2,6-bis(benzimidazole-2-yl)pyridine ligands. All the complexes display moderately strong luminescence at room temperature with appreciably long lifetime varying in the range between 7.2 and 62.2 ns, depending upon the electronic nature of substituent as well as the solvent. The styrylbenzene moiety induces *trans* to *cis* isomerization resulting in remarkable changes in absorption and both steady state and time-resolved luminescence spectral characteristics upon irradiating with UV light. Reversal of *cis* to *trans* isomerization were also achieved on interacting with visible light as well as UV light of specific wavelength. Removal of two benzimidazole NH protons from the secondary coordination sphere of the complexes were made possible upon treatment with strong base accompanying with substantial modulation of their absorption and emission spectral properties. Interestingly, rate constant as well as quantum yield of photoisomerization dramatically increases upon deprotonation of the imidazole NH protons. Computational studies employing density functional theory (DFT) and time-dependent density functional theory (TD-DFT) were also executed for understanding the electronic charge distribution within the complex backbone and appropriate assignment of the observed spectral bands. In addition, observed spectral trend upon NH deprotonation as well as deprotonation-induced photoisomerization processes were also compared with the calculated results.

1. Introduction

Molecular ensembles capable of performing specific functions upon interaction with external stimuli such as light and other chemical species have received considerable attention in recent decades with regard to the construction of molecular devices [1–3]. Introduction of a photo-responsive component into a supramolecular architecture can give rise to artificial photochemical molecular devices such as photo switches, optical materials and memory devices [4–6]. Although photo-isomerization of organic systems are well documented [7–9], similar studies with transition metal complexes are relatively less explored [10–14]. Transition metals based coordination complexes act as attractive building blocks in wide variety of applications such as optoelectronic, photovoltaic and photonic devices as well as in the field of sensors due to their widely tunable optoelectronic properties arising out by variation of both the metal and ligand [15–17]. The photoisomerization behaviours of stilbene-type ligands in combination with a variety of transition metals (Re, Ru, Ir) have been investigated in recent times [18–25]. The outcome of these studies lead to understanding of the photophysical properties of these complexes which in turn can be utilized to construct effective building blocks for the development of photomolecular devices [26–32].

Among the different types, complexes derived from Ru(II) metal and polypyridine ligands also act as effective building blocks because of their unique combination of photo-redox properties [33–36]. A wide variety of octahedral Ru(II) complexes have been designed by using most effective bipyridine and terpyridine type chelating ligands. The complexes based on terpyridine ligands are superior over bipyridine type with regard to construction of achiral linear architectures [34,37–42]. But the terpyridine complexes often lack room temperature emission due to closeness of energy between emitting ^{3}MLCT and non-emitting ^{3}MC states arising out of their highly distorted geometries

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Title of Paper: A Study on The Role of Environmental Accounting and Environmental Auditing in Achieving Sustainable Development

Author: SK SHAKEEL

Journal: THE MANAGEMENT ACCOUNTANT

Link to the journal: https://icmai-rnj.in/index.php/maj

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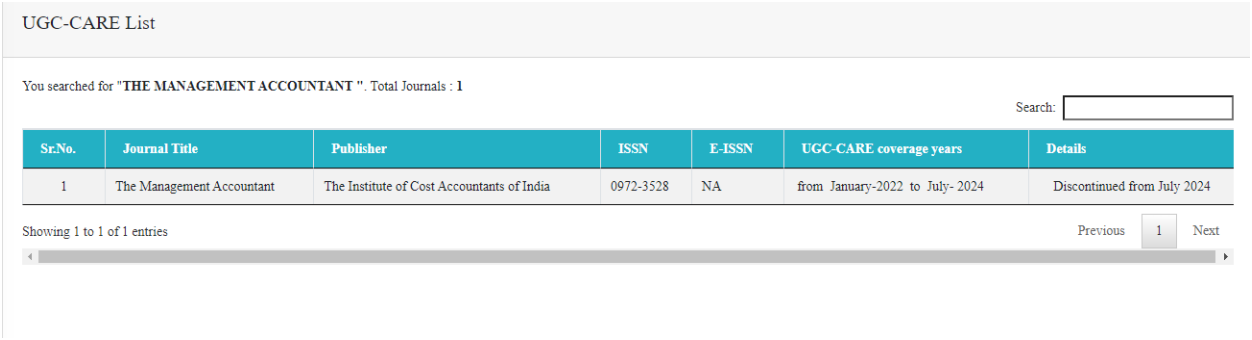

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First Page of the paper:

COVER STORY

A STUDY ON THE ROLE OF ENVIRONMENTAL ACCOUNTING AND ENVIRONMENTAL AUDITING IN ACHIEVING SUSTAINABLE DEVELOPMENT

Abstract

As per the Indian Constitution, Article51A of Directive Principles of State Policies states that it is the duty of every citizen of India to protect and improve natural environment, which includes forests, lakes, rivers, and wildlife. Environmental Degradation occurs due to many environmental problems such as land degradation, global warming, contamination of air, water, etc. Environmental Accounting and Auditing plays a crucial role in the prevention of Environmental Degradation. Environmental Accounting is a system that makes assessment of costs and benefits arises due to environment preservation activities undertaken by an enterprise. Environmental Auditing helps to evaluate an enterprise environmental performance and check compliance with applicable laws and regulations. In this study we analyze the role of Environmental Accounting and Auditing in achieving Sustainable Development. The study also highlights the role of CMA with regard to Environmental Accounting and Auditing.

CA Sk Shakeel
Assistant Professor
Ph.D Scholar
University of Calcutta, Kolkata

Introduction

Environmental Degradation can be in the form of desertification, deforestation, extinction and radioactivity, etc. The major causes that contribute to Environmental Degradation are overpopulation, industrial pollution, waste production, plastic pollution, industrialization, Littering, Mining, Resource depletion, etc. To prevent Environmental Degradation, various costs are incurred and various measures are also taken by enterprises with a motive to achieve Sustainable Development. Sustainable Development means that meets the needs of the present without compromising the ability of future generations to meet their own needs. Figure 1 represents the three dimensions of Sustainable Development.

Figure 1: Sustainable Development and its three balanced dimensions

(Source: www.environmentalauditing.org)

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Title of Paper: A STUDY ON THE MERGER OF PUBLIC SECTOR BANKS IN RECENT TIMES

Author: SK SHAKEEL

Journal: THE MANAGEMENT ACCOUNTANT

Link to the journal: https://icmai-rnj.in/index.php/maj

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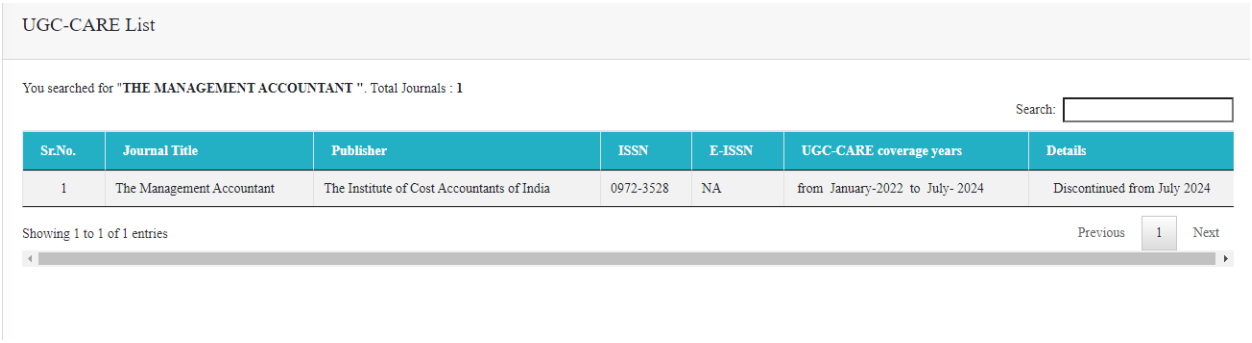

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First Page of the paper:

COVER STORY

A STUDY ON

THE MERGER OF PUBLIC SECTOR BANKS IN RECENT TIMES

CMA Sk. Shakeel
Ph.D Scholar
University of Calcutta, Kolkata

Dr. Sukamal Dutta
Principal
Naba Ballygunge Mahavidyalaya, Kolkata

Abstract

The banking industry is consolidating at an accelerating pace, and merger and acquisition is one of the extensively used means for restructuring the business organizations. Narasimham committee recommended consolidation through a process of merging strong banks and that weaker banks should be shut downbut in the current merger decision, weak banks are being merged with the strong banks. In this study we analyze the mergers and acquisitions of public sector banks in recent times. The present study attempts to evaluate the purpose, impact, benefits and challenges in merger of PSBs. The study also highlights the role and opportunities available to a CMA.

Introduction

A 'merger' is a combination of two or more entities into one, the desired effect is to bring two or more organization under the control of one and enhance effective utilization of available resource at minimum cost. The possible objectives of mergers are economies of scale, acquisition of technologies, and access to sectors/ markets, and ultimately minimize the Operational cost.'Acquisition' is one company taken over by the other company. The main objective behind merger

Title of Paper: ROLE OF INTERNAL AUDIT IN MERGER AND ACQUISITION

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॥विद्यया विन्दतेऽमृतम्॥

Author: SK SHAKEEL

Journal: THE MANAGEMENT ACCOUNTANT

Link to the journal: https://icmai-rnj.in/index.php/maj

Link to the article: http://icmai-rnj.in/index.php/maj/article/view/152001

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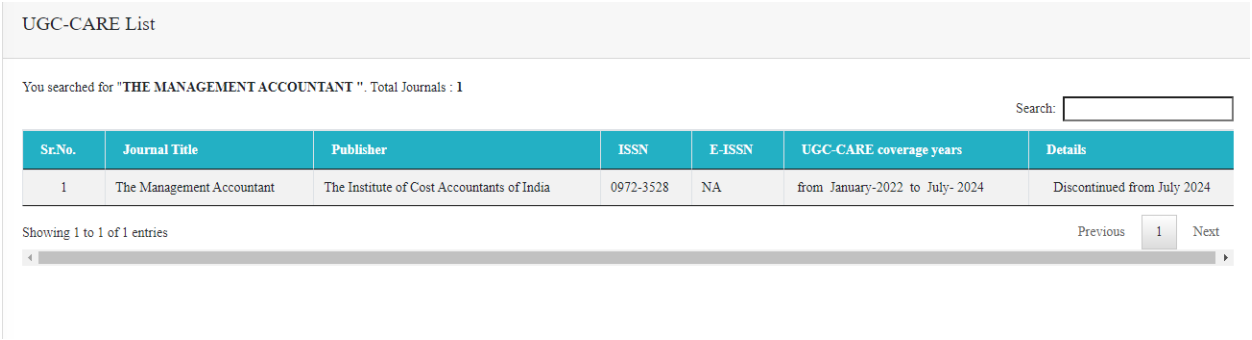

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1	The Management Accountant	The Institute of Cost Accountants of India	0972-3528	NA	from January-2022 to July- 2024	Discontinued from July 2024

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First Page of the paper:

COVER STORY

ROLE OF INTERNAL AUDIT IN MERGER AND ACQUISITION

CMA Sk Shakeel
Ph.D Scholar
University of Calcutta, Kolkata

Dr. Sukamal Datta
Principal
Nalta Hallygunge Mahavidyalaya, Kolkata

Abstract

Internal Audit has evolved dramatically from its traditional role of control orientation to a more pro-active, risk based and consultancy role. Internal Audit provides audit services to the management at all levels, including Board of Directors (BOD) and Audit Committee, thus improving the Organization's Corporate Governance. In this study we analyze the role of Internal Audit during Merger and Acquisition activity. The present study also attempts to evaluate the objectives and process of Internal Audit and appointment of Internal Auditor. The study also highlights the role of a CMA with regard to Internal Audit.

Introduction

According to the definition of Internal Auditing in the IIA's International Professional Practices Framework (IPPF) "Internal Audit is an independent, objective assurance and consulting activity designed to add value and improve an organization's operations. It helps an organization accomplish its objectives by bringing systematic, disciplined approach to evaluate and improve the effectiveness of risk management, control and governance processes". In the words of the Institute of Chartered Accountants in England and Wales (ICAEW), "An Internal Audit is a review of

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Title of Paper: Alternative Agriculture and Its Impact on Rural Economy of Selected Mouza of Nadia District, West Bengal

Author: TANMOY BASU

Journal: Studies in Indian Place Names

Link to the journal: https://tpnsindia.org/index.php/sipn

Link to the article: https://tpnsindia.org/index.php/sipn/article/view/6391/6167

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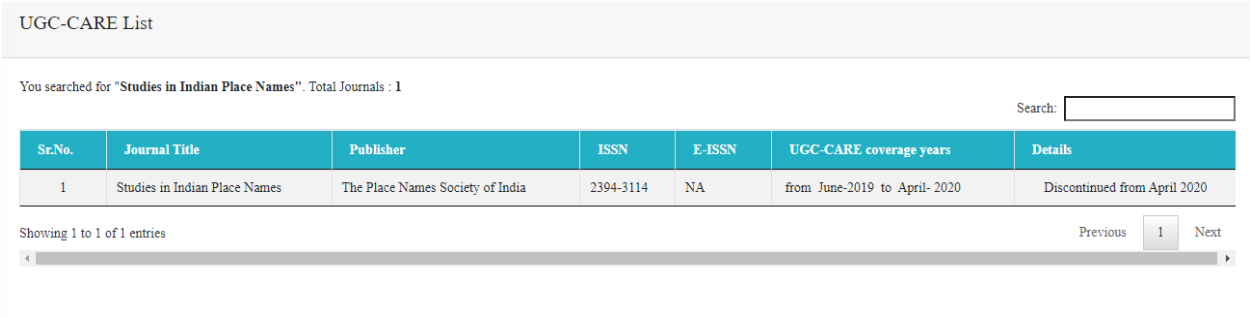

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Sr.No.	Journal Title	Publisher	ISSN	E-ISSN	UGC-CARE coverage years	Details
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First Page of the paper:

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Vol-40-Issue-60-March -2020

Alternative Agriculture and Its Impact on Rural Economy of Selected Mouza of Nadia District, West Bengal

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Abstract: Alternative agriculture is performed by the alteration of traditional agriculture by market-based crop cultivation or livestock ranching. To reduce the risk of the traditional agriculture with acquiring more profit farmers tend to alternative market based agriculture. Under this type of market based economic condition rural faces of economy and livelihood are gradually changed and developed. The present study aims to identify the different faces of rural economy under the cultivation of horticultural crops. The study is mainly done by primary survey and different techniques are used to show the situation of alternative agriculture and its impact on rural economy. The study shows the changes of traditional agriculture towards alteration which effects on the land use pattern, crop diversification, yield rate, occupational structures, and road-market linkages of the study villages. Finally, the study is concluded with showing the overall changes of village economy from traditional to market-based agricultural in the study areas.

Keywords: Land use; crop diversification, horticulture, occupation, road-market linkages

Introduction: Rural economy holds the values and patterns of tradition of the societal faces of any village in Indian states including West Bengal. The traditional occurrences are also determined by the subsistence agriculture based economic conditions but due to the rapid extension of labour capitalization and globalization, rapid implementation of modern agricultural equipment the various changes are occurred in the face of rural agriculture, its economy and society. The major changes are associated with the shifting villages from traditional agriculture to modern diversified or specialized agriculture which are greatly integrated with modern commercial farming and livestock ranching. These economic conditions create a deep linkages between the rural areas and the markets of peri-urban and urban areas in terms of demand and supply. Thus, the traditional values, occupational and societal structures are imposed by the migrated culture and a bulk of the farmers are engaged

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