

I, the undersigned, would like to certify and endorse that pages numbered 01 to 43 of Criterion III Pointer No. 3.3.1 (Number of Research Papers Published per teacher in the Journals notified on UGC care list during last years) are true to my knowledge.



Principal

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3.3.1 Number of research papers published per teacher in the Journals notified on UGC CARE list during the last five years

INDEX Bookmark Links

Research Publication 2022-23			
SR. No.	Title of paper	Name of the author/s	
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2	<u>A review of the Start up Scheme of the Government of India</u>	Mezbin Barkatali Lalani	
3	Jawhar - A Gate of opportunities towards Ecotourism	Snehal Sanket Jadhav	
4	Evaluating role of female educators promoting socio-economic growth in remote communities	Dr. Deepakkumar Gupta	
5	A review on the impact of COVID 19 on the travel and tourism industry of India.	Mezbin Barkatali Lalani	
6	Solvent-free synthesis of silatranes substituted five membered heterocyclic ring at axial position: One-pot reaction of 3-aminopropyl silatrane and alkynes or isothiocyanate in the presence of oxalyl chloride	Dr. Promila Surinder Nagpal	
7	<u>स्वयंसाहायता बचत गट : महिला उद्यमशीलतेचे बदलते स्वरूप आणि महिलांचे</u> <u>सक्षमीकरण</u>	Rupali Patil	
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3	Rhizofiltration is Cost Effective and Eco-Friendly Method for the Remediation of Heavy Metals from Groundwater	Dr. Jayashri Naphade	
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4	Dehydrogenation of Pyrazoline and its Derivatives using DDQ in DMF	Dr. Jayashri Naphade	

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S. Adigal

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	A Comparison Comparations Applying of agriculture Compton provide Algorithms and	1
	A Survey for Comparative Analysis of various Cryptographic Algorithms used	
1	to Secure Data on Cloud	Binita Thakkar
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		Nikhil Teli
	Unmodified Sugarcane Bagasse Waste Biomass as a Potential Source for	Gopal Chourasia
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4	transition metal complexes. Powar et al.,	Palande
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	Transition Metal Complexes on Aspergillus Niger and Candida Albicans.	
	Sheetal V. Palande1* and Deelip K. Swamy2, Ajanta, ISSN 2277-5730, Vol	Dr. Sheetal Powar
6	VIII, Issue 1, Jan-March-2019	Palande
	Synthesis of Some Novel Chalcone by Green and Study of Antimicrobial	
	Activity	
7		Dr. Jayashri Naphade
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1	legistion of betarotrophic microplane from bet arrings for ligid and duction	
1	Isolation of heterotrophic microalgae from hot springs for lipid production	Basil D'Mello
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2	Auxenochlorella pyrenoidosa	Basil D'Mello
	Plants of the genus Spinacia: From bioactive molecules to food and	
3	phytopharmacological applications	Deepa Verma

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4	activity	Deepa Verma
	Matricaria genus as a source of antimicrobial agents: From farm to	
5	pharmacy and food applications	Deepa Verma
6	A new variety of Hibiscus hirtus (Malvaceae), from Maharashtra, India	Hensal Rodrigues, Kiran Chakral
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8	ladys finger	Dr. Sheetal Powar
9	Effect of some oxa-aza heterocycles on seed germination of Triticum aestivam I (wheat) and Cucurbita maxima I. (cucumber)	Dr. Sheetal Powar
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10	industrial applications	Dr. Sameer Mapari
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12	<u>बोलीभाषा आणि साठोत्तरी वाङ्मयीन प्रवाह दलित कविता</u>	Kavita Patil

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Research Publication 2022-23

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Sr. No

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ISSN

Vishnu Waman Thakur Charitable Trust **Bhaskar Waman Thakur College of Science Yashvant Keshav Patil College of Commerce** Vidhya Dayanand Patil College of Art (VIVA College) (Affiliated to University of Mumbai)

Name of the Faculty Title of the Paper Year – 2022-23 Shailesh Shantaram Gurav An Efficient One-Pot Synthesis of 2-Aryl-4,5- diphenyl-1H-imidazoles Seema Ravindra Jadhav with Amberlite IR-120(H) as a Reusable Heterogeneous Catalyst 1945-5453 [Organic Preparations and Procedures International The New Journal for Organic Synthesis] ORGANIC PREPARATIONS AND PROCEDURES INTERNATIONAL Taylor & Francis 2022, VOL. 54, NO. 6, 556-562 https://doi.org/10.1080/00304948.2022.2090221 () Check for upd **OPPI BRIEF** An Efficient One-Pot Synthesis of 2-Aryl-4,5-diphenyl-1Himidazoles with Amberlite IR-120(H) as a Reusable Heterogeneous Catalyst Shailesh S. Gurav^a (b), Krishnakant T. Waghmode^a (b), Onkar A. Lotlikar^b, Shweta N. Dandekar^b, and Seema R. Jadhav^c ^aDepartment of Chemistry, D. G. Ruparel College, Mumbai, India; ^bDepartment of Chemistry, Bhavan's H. Somani College, Mumbai, India; ^CDepartment of Chemistry, VIVA College, Virar, India ARTICLE HISTORY Received 4 March 2022; Accepted 11 June 2022 Imidazoles have piqued the interest of researchers in modern organic synthesis, and this can be attributed to their unique physicochemical properties and medicinal value. Several imidazoles have widespread medicinal applications, including antibacterial, antiviral, anti-inflammatory, antinociceptive, and anticancer properties.¹⁻⁶ Other compounds in this class function as inhibitors of kinases, modulators of p-glycoproteins, and glucagon receptor antagonists.^{7–13} Due to the broad array of applications of substituted imidazoles, considerable efforts have been made for their synthesis from benzil, aromatic aldehydes, and ammonium acetate, taking advantage of such diverse catalysts as picolinic acid, L-cysteine, BiCl₃, iodine, ionic liquids, polymer-supported nanocatalysts of iron oxides, Y(TFA)₃, pumice, light-emitting diodes, and sulfonic and phos-phoric acid catalysts.^{14–31} Recognizing the significance of imidazoles, it is a desirable goal to develop new methods that avoid hazardous reaction conditions, expensive reagents, and complex workup and purification procedures. With these considerations in mind, we now report a new, simple and mild one-pot protocol for the synthesis of 2,4,5-trisubstituted imidazoles. This method employs Amberlite IR-120(H) as an active and stable catalyst (Scheme 1). Amberlite IR-120(H) is an acidic styrene-divinylbenzene cross-link polymer-supported material bearing sulfonic acid groups. The catalyst has particle size $620\text{-}830~\mu\text{m}$ and thus provides large

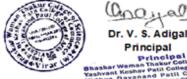
active sites. The catalyst withstands high temperatures. As a model, we first chose the reaction of benzil (1 mmol), p-chlorobenzaldehyde (1 mmol), and ammonium acetate (1 mmol) to produce the related 1H-imidazole. The reaction was studied in the absence of catalyst, but the yield was low; then the reaction was carried out by employing 0.15 g of catalyst in ethanol at room temperature and showed a substantial increase in yield (Table 1). The reaction was further examined by varying the temperature and concentrations of catalyst and NH4OAc. The best results (Table 1, entry 13) were obtained with molar ratios of benzil:p-chlorobenzaldehyde:ammonium acetate of 1:1:3.5, in the presence of 0.15g of catalyst, in ethanol at reflux for 1.5 h.

CONTACT Shailesh S. Gurav 🗟 shaileshguravudc@gmail.com 🔁 Department of Chemistry, D. G. Ruparel College, © 2022 Taylor & Francis Group, LLC

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Sr. No	Name of the Faculty	Title of the Paper	Year – 2022-23
2	Mezbin Barkatali Lalani	A review of the Start up Scheme of India	f the Government of
SSN	2349-5162 [Journal of Emerging Technologies	s and Innovative Research (JETIR)]
	© 2022 JETIR October 2022, Volume 9, Issue 10	www.jetir.org (ISSN-2349-5162)	
	JETIR JOURNAL OF EMERG	STD Year : 2014 Monthly Issue ING TECHNOLOGIES AND ICH (JETIR) n Access. Peer-reviewed. Refereed Journal	
	A Review of the Startu Governme		
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	Alotenet. Namps helds scheme is a flagship totalive of Covernment of In scheme arms to beild an eco-system for personing involution scheme arms to beild an eco-system for personing involution, an all b which provided for reforme that would help to this initiative, an 2016 which provided for reforme that would help to this initiative, an 2016 which provided for reforme that would help to this initiative, and 2016 which provided for reforme that would help to the initiative, and 2016 which provided for reforme that would help to the initiative, and 2016 which provided for reforme that would help to the initiative, and 2016 which provided for reforme that would help to the initiative, and 2016 which provides for a scheme that would be initiative.	india Midi in his specifi on 15 August 2015 The startup India a and design, sustainable economic growth and generators of autonoice action plan was launched by the Prince Minister as start-ups in India. The paper discusses the start-up scheme and	
	and effective instruments for India's transformation." Startups have played an important role in the growth, d world. Accountingly, Startup India scheme is all about promoti peptidizion who are now warring to become entrepretents with the first discouraged due to the lack of skills, modequeue govern compliances, etc. The Indian Government in order to promote entrepretent The Make in India scheme needs a memion. Moleo in India is a intended to boots the donestic manotherating sector and also inco Similarly, in order to make the country number one in th carepoing called "Start up India" in 2015 which aims to promote with fanding	ic wide and intercentive humens ideas in their minds, sometimes ment support, lack of finding support, excessive regulatory as has started implementing various initiatives. In this sequent, a scheme launched by Prime Minister Norendra Modi in 2014 are the investment into the country.	
	Objectives of the Study: 1. To review the startup recorsystem in India. 2. To study the Startup India softeme. 3. To study the challenges faced by the start up in India.		
	JETIR2210299 Journal of Emerging Technologies a	nd Innovative Research (JETIR) www.jetir.org c768	
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Sr. No	Name of the Faculty	Title of the Paper	Year – 2022-23
3	Snehal Sanket Jadhav	Jawhar - A Gate of opportunitie	es towards Ecotourism
SSN	0030 - 5324 [The Journal of Oriental I	Institute]	
ISSN	<text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text>	Disc case of the severappers, journals, webs objectives.	nsie ters per ural rist ntal e of ues ver, e of this hich are are t the hich ghar whar is triet. tural
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Sr. No	Name of the Faculty	Title of the Paper	Year – 2022-23	
4	Dr. Deepakkumar Gupta	Evaluating role of female educ	ators promoting socio-economic	
		growth in remote communities	S	
ISSN	0974-8946 [Shodh Prabha]	1		
	शोधप्रभा		ISSN: 0974-8946	
		RE Journal) Vol. 48, বুর E ROLE OF FEMALE EDUCATORS IN PR NOMIC GROWTH IN REMOTE COMMUN		
	Dr. Deepakkumar Ramnath Gupta Assistant Professor Viva College of Arts Commerce and			
	ABSTRACT:			
	regions. This study exam isolated communities. Dra female educators not onl economies. Their preser participation in the worl promoting civic engagem next generation, they challenges like cultural b	of educators on community development is paran nines the role of female educators in fostering awing from qualitative and quantitative data, key y enhance educational outcomes but also contr icce boosts female student enrolment, subsequ cforce. Furthermore, these educators often ser tent and advocating for infrastructural improver indirectly stimulate local businesses and en parriers and limited resources persist. To maxin nental support are crucial.	socio-economic growth in y findings demonstrate that ibute significantly to local uently increasing women's ve as community leaders, ments. By empowering the utrepreneurship. However,	
 Key words: female educators, socio-economic growth, remote communities, educational outcomes, workforce participation, community leadership, empowerment, local businesses, cultural barriers, governmental support. DTREODUCTION Remote communities around the world face daunting socio-economic challenges. Limited access to education and healthcare, high poverty rates, a lack of economic opportunities, increased crime, violence, and social isolation characterize these communities. Such challenges are further compounded by factors like climate change, conflict, and natural disasters, making it difficult for individuals to achieve their full potential. Amid these challenges, education emerges as a transformative tool. It can break the cycle of poverty by providing access to better jobs and opportunities. Education empowers people to make informed decisions about their lives, contributes to stronger communities, and can improve the health and well-being of individuals. It has the potential to reduce infant mortality rates, enhance nutrition, and prevent diseases. Additionally, education promotes economic development by increasing employment opportunities and productivity. Within this educational framework, female educators stand out as significant agents of change. They bring unique insights and empathy to teaching and often serve as role models for young girls. By inspiring and motivating girls and women, providing role models, breaking down gender stereotypes, and advocating for the needs of females, they contribute to a more inclusive and balanced education system. Female educators are often more likely to stay in remote communities, characterized by isolation and restricted resources. Female educators play a vital role in this process, serving as change agents who inspire, motivate, and challenge traditional norms. This study aims to evaluate the role of female educators in promoting socio-economic growth in remote communities, highighting their unique contribution and the importa		ortunities, increased crime, ch challenges are further ers, making it difficult for break the cycle of poverty s people to make informed an improve the health and ates, enhance nutrition, and velopment by increasing ant agents of change. They models for young girls. By g down gender stereotypes, ive and balanced education nunities and better relate to a in remote communities, a vital role in this process, norms. This study aims to th in remote communities, der-inclusive approach to ng a more equitable and		
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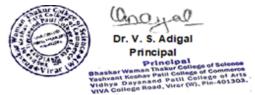
Principal Principal haskar Waman Thakur College of Science salwant Keshav Patil College of Arts ridhya Dayanand Patil College of Arts ryA college Road, virar (W), Pin-401303.



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Sr. No	Name of the	e Faculty	Title of the Paper	Year – 2022-23
5	Mezbin Barkatali Lalani		A review on the impact of COVID and tourism industry of India.	19 on the travel
ISSN	2455-2631 [International J	ournal of Scientific Dev	velopment and Research (IJSDR)]	
	ISSN: 2455-24	131	February 2023 LISDR Volume & Issue 2	
	A Re	view on The Impac	t of Covid 19 On the Travel	
		and Tourism	Industry in India.	
		Prof 3	Mezbin Lulani,	
		Department of Accountancy, VD	A College of Arts, Commence & Science.	
	but created ac by COVID, on India is one of nature, it prov forests, hadia cruist, benche ministry of In Toprism and I in enhancing I	onomic and social divergitions thereby affe- e of the industries that sow severe damage e of the most popular buried destinations acros- tides multicultural experiences, heantiful at has various fouried predicts such as varies s, adventure, curavan trips, film fouries and fin truly describes findie as faceedible findi- nopitality industry has been one of the hig- india's growth rate and hotps in employmen-	s the world. With a culturally and geographically rich and diverse tractions ranging from the Snowclad Mauntains to the magnificent on beritage sites, national parks, religious and spiritual tourism, d various attractive landscapes. The official slogan of the Tourism	
	Key words: Tr	ravel and tourism, COVID pandemic, locks	iown, Indian teorium, recovery.	
	Introduction: Unwell and interestin has been one of the biggest service industries for indua. It is an integral part of the Make in indus campuign of Government of indus, it has belipped in the containing growth and as well in the cruation of employment opportunities. The scenario pre COVID was very encouraging to far as the tourism industry was concerned. Indus's ranking in the Travel and Tourism Competitive Index, (TTCI) of World Economic Forum moved from 52nd position in 2015 to 40th position in 2017. Further indus cherological contributions of the tayed and tourism sector to the Indian GDP was around 6.8% in 2019 which was reduced to 5.5%			
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		-		
		6.00%		
	EMPLOYMENT	4.00%		
		0.00%		
		2019	2020	
	decrease by my		YEAR in the travel and tourism industry in India. This was a significant The travel industry was hit hard in 2020 due to travel restrictions	
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Sr. No	Name of the Faculty	Title of the Paper Year – 2022-23
6	Dr. Promila Surinder Nagpal	Solvent-free synthesis of silatranes substituted five membered
		heterocyclic ring at axial position: One-pot reaction of
		3-aminopropyl silatrane and alkynes or isothiocyanate in the presence
		of oxalyl chloride
ISSN	1006-6748 [High Technology Lette	ers]
	High Technology Letters	ISSN NO : 1006-6748
	Solvent-free synthe	esis of silatranes substituted five membered heterocyclic ring at axial
	position: One-pot a	reaction of 3-aminopropylsilatrane and alkynes or isothiocyanate in the
	presence of oxalyl o	thloride
	Gurjaspreet Singh	, Amandeep Saroa ^b , Amrit Singh', Promila Nagpal ^{ri *}
	a. Department	of Chemistry and Center of Advanced Studies, Panjab University,
	Chandigarh	- 160014
		of Chemistry, Sri Guru Teg Bahadur Khalsa College, Sri Anandpur
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	August 1997 1998	of Physics, Sri Guru Teg Bahadur Khalsa College, Sri Anandpur
		of Chemistry, Viva College of Arts, Commerce and Science,
		rashtra, India-401303
	Abstract: I sinc or	en chemistry, silatranes possessing five-membered heterocyclic ring at axial
	23 250	interstand of a one-pot reaction of 3-aminopropylsilatrane1 and
		tte without solvent. In this section, silatranes 2-5were synthesized bythe
	exaction of 3-amino	propylsilatione with plicityl acetylene, propagyl bromide, propagyl alcohol
	and phenyl isothiocy	vanate in the presence of oxalyl chloride. The optimal reaction condition for
	the best results was	stirring the reaction mixture at 50 °C. The preliminary inspection about
		ses, possessing unsymmetrical substituted urea and thiourea group in axial
		al out by spectroscopic methods [FTIR, NMR (¹ H, ¹³ C) and mass
	spectroscopies].	
	Keywords: Silatran	e,Five-membered heterocyclic ring, Green Chemistry, One-pot reaction
	Introduction	
	To design a	nd carry out chemical reactions with "green" experimental protocol is an
	enormous challenge	that chemists have to tackle to improve the quality of the environment for
	present and future a	tenerations. For achieving this goal, the target areas are the exploration of
	alternative reaction	conditions and reaction media to accomplish the desired chemical
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	e recognition in UGC enlistment	VOLUME 28 ISSUE VII 2022 – High Technology Letters (gjstx-e.cn)
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Sr. No	Name of the Faculty	Title of the Paper Year – 2022-23
7	Rupali Patil	वयंसाहाय ा बचत गट : महिला उदयमशीलतेचे बदलते व प आणि महिलांचे स मीकरण
ISSN	2277-5730 [Ajanta - An Int	ernational Multidisciplinary Quarterly Research Journal]
	AJANTA - IS	ISSUE - II - APRIL - JUNE - 2022 ISN 2277 - 5730 - IMPACT FACTOR - 6.306 (www.sjifactor.com) CC-14 बहाय्यता बचत गट : महिला उद्यमशीलतेचे बदलते स्वरूप आणि महिलांचे सक्षमीकरण
	सहाय्यव	सौ. रुपाली प्रशिल पाटील प्राध्यापिका, अर्थशास्त्र विभाग, विवा कलिंज ऑफ आर्टस् , कॉमर्स अँड सायन्स विरार (पश्चिम)
	सरांश जगमरा करण्यासाठी में रेण्याच्या स्प्टी गरिवी कमी क शासकीय व र घटकांच्या विक स्र्यूभ गरीव कुटुंबांना यांनी २००७ हे गरिवांसाठी चांन गरेवां स्ट्रूबांना यांनी २००७ हे गरिवांसाठी चांन गरेवां स्ट्रूबांना यांनी २००७ हे गरिवांसाठी चांन गरेवां स्ट्रूबांना यांना रववांन स्ट्रूवांना प्रतित १९९९ प्	त नेक्या दोन दशकांमध्ये विशेषतः उदयोत्मुख अर्थव्यवस्थांमध्ये सूक्ष्म वित्ताया विस्तार ठ्या प्रमाणात प्रयत्न केले मेले आहेत. उद्योजकता आणि आर्थिक विकासाला चालना के सूक्ष्म वित्ताचे योगदान सहरत्वपूर्ण आहे. उद्योजकतेया विकास करणे आणि त्याद्वारे प्रथासाठी सूक्ष्म वित्ताचे मदत होड शकते का या संदर्भात जागतिक व राष्ट्रीय पातळीवर वात्रगै व्यक्ती व संस्थांकडून संधोधन हाती धेतले जाते. समाजातील दुर्बत व वंचित सासाठी आर्थवा किरण म्डणून सूक्ष्म वित्ताक्ये पाहिले जाते. वैता अंतर्गत कमी गुंतवणूक - कमी उत्पन्न- कमी गुंतवणूक या दुष्ट्यकाचा नाथ करन दारिंद्वरोपैच्या वर आणण्ण्यासाठी प्रयत्न केला जातो. यूगोच सेक्रेटरी मा. कोफी जन्नान वार्थव्या वर आणण्ण्यासाठी प्रयत्न केला जातो. यूगोच सेक्रेटरी मा. कोफी जन्नान वर्ष 'आंतराष्ट्रीय स्कृम वित्ता वर्ष म्हणून योषित केले. दारिद्व निर्म्यन करणे, स्वया आर्थिक सुविधांची निर्मिती करणे, या इष्टिकोनातृन सूक्ष्म वित्त पुरंवठा करण्णारे योजना वित्त वर्षात्म यान्नेण विकास योजना सर्वप्रयम सूक्ष्म वित्त पुरंवठा करण्णारे योजना वित्त रया वस्तर्यो झाल्या नसल्याचे दिस्त आतं. त्या सर्व योजनां राववित्न्या गेत्या; पंतु ळीवर त्या वक्षस्यी झाल्या नसल्याचे दिस्त्न आतं. त्या सर्व योजनां राववित्र्या ग्रेत्या, पंतन्न की नेती. स्वयंसहाय्यता गट बयत संकलनाये व वर्षानुवर्ष दारिद्यात वित्यत पडलेल्या साठी मदवकरणारे प्रभावी साधन मानले जाड लागले. ' पतुप्वठ्यां वितित्र गेन्या तीस वर्षात विस्तारले आतं. या अंतर्गत तित्त पडि घटकांन महितांना कर्ज पुरवठा करण्यात आता. त्यामुळे रोजगार निर्मिती तर झात्रीय करणारे अनेक बयत गट निर्माण झाती. त्यात्म रहिताच्या अंत्री तेत्तर झात्रात्र करणारे अनेक बयत गट निर्माण झाते. त्यात्म निर्हताच्या आता विक्राल्य इत्या हिषा करणारे अनेक वया गट निर्या क्रि मरिकान करण्, संघटन कौलत्य इत्यादी विकास होउन त्या वांच्या आत्मविक्यासात वा झान्ना. महिलांम्याके उद्यात्तीलत्त्या विकास होउन त्या
	Link to t	he recognition in UGC enlistment of the Journal Only Print Copy Available

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Research Publication 2021-22

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Principal



Sr. No Name of the Faculty **Title of the Paper** Year - 2021-22 Efficient and Facile Synthesis of Benzimidazole Induced Schiff Bases Mr. Shailesh Gurav 1 and their Potent Antibacterial Activity and Computational Study ISSN 0970-7077 [Asian Journal of Chemistry] Asian Journal of Chemistry: Vol. 33, No. 6 (2021), 1261-1266 ASIAN JOURNAL OF CHEMISTRY https://doi.org/10.14233/ajchem.2021.23163 Efficient and Facile Synthesis of Benzimidazole Induced Schiff Bases and their Potent Antibacterial Activity and Computational Study Stratten S. GOOP^{11,0}, KRININARANT T. WACHMORE¹⁰⁹ and BANDON T. NIKAN²¹ Department of Chemistry, D.G. Raparel College, Maltim, Marthai-400016, India Department of Chemistry, Maharshi Deparamd College of Arts, Science and Commerce, Parel, Munthai-400012, India *Conseponding author: E-mail: shelloshgatavadc@gmail.com Received. 9 February 2021; Accepted: 34 March 2021; Published online: 5 June 2021. AJC-20853 Synthesized benefinishasile induced Schiff base analogues were characterized by mass, PC NMR, 'H NMR and UV-visible specto To permove information about binding mechanism, molecular decking studies were carried out and the obtained anoths concluded that the compounds could effectively brud with receptor in two Arribacturial screening was carried out agoinst four statum (X. avirus, R. studies): P. averaginess and E. colds and exhibited good antifactorial activity. The gestroinestinal sharepilot (BA) and brain percentation (BBB) was evaluated by The BOILED-Egg model, which showed that non-compounds anticipated being effectively efficiency efficie glycoprotein from cannot nervous system after persentation and can accounts for brain access and passive guaranteenimal abso Computational screening showed 0.55 bicascaliability score for all synthesized compounds. Keywords: Benzimidazok, Schiff base, Antibacterial activity, Gastrointestinal absorption, Beain penetration, Molecular docking, the computational investigations of synthesized molecules such INTRODUCTION as ADME [23,24], target prediction [25], in nilico drug-likeness, Benzimidazole is a privileged bicyclic ring system and pharmacokinetics, molecular docking [26-28] and in silics moieties are important class of heterocyclic compounds based virtual screening tools [29,30] has become helpful and important for the additional investigation to improve activity. which are counting a interest among the researchers because of their wide scope of pharmacological activities [1-5]. The With this consideration, it was decided to study benzimi closs of these molecules ends up being vital as they have various dazole induced Schiff bases, which are not yet investigated pharmacological properties including antibacterial [6,7], antifor their relative computational analysis. In the present work, benzimidaeole induced Schiff bases were synthesized by efficifungal[8], analgesic [9], antioxidant [10,11], anti-inflammatory [12], anti-allergic [13] and antitumoral agent [14]. Various ent, facile route and characterized by specie scopic techr iques renzimidazole analogues have been found to possess biological The synthesized compounds were screened for ADME, target activity as phosphodiester inhibitor [15], neuropeptide Y prediction, pharmacokinetics and in nilico drug-likeness. receptor and Y5-receptor antagonist [16]. On the other haral, who Antihacterial activities were also evaluated by disc diffusion the Schiff base and its derivatives possess broad spectrum of biological activities because of their structural likenesses with method. In order to explore binding interaction and activity, molecular docking has been carried out with target proteins natural biological compounds [17]. Synthesis of Schiff base has received a lot of consideration attributable to differed of various bacterial strains. biological activities displayed by number of its derivatives [18-EXPERIMENTAL. 22]. Anributable to the incredible biological and synthetic Evaluation of brain penetration (BBB) and gastrointimportance of this heterocyclic core, synthesis of benumidazole and Schiff base derivatives has long been a estinal absorption (HIA): Two necessary pharmacokinetic region of intense development. In order to get more insight, researches to evaluate at various periods of the drug discovery This is an open access journal, and articles are distributed under the terms of the Attribution 4.0 International (OC BY 4.0) License. The license lets others distribute, territy, tweak, and build upon your work, even commercially, as long as they credit the author for the original creation. You must give appropriate credit, provide a link to the license, and indicate if changes were made. Link to the recognition in UGC enlistment of the Journal / Digital Object Identifier (doi) number https://doi.org/10.14233/ajchem.2021.23163

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Principal Principal Bhaskar Waman Thakwr College of Sciences Yashwati Koshav Patil College of Artis Vidhya Dayanand Patil College of Artis Vidhya Dayanand Patil College of Artis Vidhya Dayanand Patil College Artis Vidhya Dayanand Patil College of Artis



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Sr. No	Name of the Faculty	Title of the Paper	Year – 2021-22
2	Dr. Jayashri Naphade	Physicochemical Parameter and Ground Water and Its Remediatic	Some HeavyMetals Analysis in
SSN	2456-236X [International (IJIIRD)]	Journal of Interdisciplinary Innovat	ive Research & Development
	International Jos	arnal of Interdisciplinary Innovative Research & Develo ISSN: 2456-2368 Vol. 06 Special Issue 01 2021	apmint (IJURD)
		hemical Parameter and So	
	Metals	Analysis in Ground Wate Remediation	r and its
	Bepartm	B M Tayde ¹ , B B Wankhade ² , J G Naphade ⁸ S M Bhis pplied Science, Padra Dr V II Kohr College of Engineering, Malka University ent of Chemotry, VidroyanMahanodyalaya, Malkapar, S G II. Arrew soor, Department of Chemistry, Viva College of Arts, Commerce a %P.W. College Nandma.	apar, S.G.B. Armanati cati University
		ABSTRACT	
	continuation of hije, agricultural and indu- becomes an environme recognized as one of currinogeneis effects i substances. However, substances including environmentally frien almost heavy metals different villages of P metals like Ca, Fe, C ecchange and villagif for removal of heavy i	most precision gift of nature and one of the vital elements into Groundwater is the primary scatter of scatter for human co- trivial axes: to many regions all over the world. Ground water- email problem, though the metals are constituent of nature. Hea- t the most important pallatonts in the waters because of their in animult. They constitute the most radder distributed group of a process and lan exchange process are generally used for tem- heavy metals. Plust based technologies such as chiesfiltration ofly for remassed of heavy metals. Ratefiltration is a technique from the ground water. In the present work ground water san uran river bosts, Samples were enalyzed for physics-chemical pa- Cid. Ph. Ma, Za Cr., and Ni. Heavy metals are assessed before metals from ground water.	transplot at well as for pollated by heavy metals my metals have long been my metals have long been highly toxic and relatived have a for the second have a second effective and of utilizing plant root to splo, neur collected from transvers and some heavy and after Linu-soda, Ion
	the existence of both h area hunder it is impor- metal contamination of filtration through solution traditionally assumed contamination of grou the wide diversity of o their strong toxicity ev- of bio importance to r- metals like As, Cd, Pho- consumption even at v- have to be within nega- be toxic to both huma liver, aid reproductive	TION vital role in the development of communities; hence a reliable sour arman and animals [1] Ground water is one of the major sources of ten to assess the groundwater quality with respect to physics chei [] Ground water has been traditionally considered to be pure for a ratio is an executive time on the ground. However, ground as water is an executive source cosystem is a worldwide environmenta contaminants affecting water resources, heavy metals receive part on a low concentrationa [5]. Some heavy metals like Fe, 2a, Ca, N and II wave participants, even Cr and Na are required in the b has been reported to have no known importance in human biocher every low concentrations can be tone. Even for these that have his latory limits as executes any result in prioming or toxicity. Heavy ns and other living forms, with their accumulation over time caus system in addition to caucer [6]. During last few years, it is report a foring serious health problems like kidney failure, hair loss and	drinking water in the study much parameter and heavy mu of water because of its l water in not as pare as chemicals [3]. Heavy metal d problem [4] and between incutor concern considering 4g have been reported to be ody. However, some other mixty and physiology, and importance, dietary intakes y metab are also known to sing damage to the kidney, ef that the patients affected
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enlistme	ne recognition in UGC nt of the Journal / Digital lentifier (doi) number	http://ijiird.com/wp-content/up IJIIRD International Journal for E	•

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Sr. No	Name of the Faculty	Title of the Paper	Year – 2021-22
3	Dr. Jayashri Naphade-Phirke	Rhizofiltration is Cost Effectiv	e and Eco- Friendly Method for
		the Remediation of Heavy Me	etals from Ground water
SSN	2456-236X [International Journal of	Interdisciplinary Innovative Research & De	evelopment (IJIIRD)]
	International Journ	al of Interdisciplinary Innovative Research & Developmen ISSN: 2456-236N Vol. 05 Special Issue 01 2020	el (IJIRD)
	Rhizofil	tration is Cost Effective and H	Eco-
	Friendly	y Method for the Remediation	of
		y Metals from Ground Water	
	и	B M Tayde ¹ , B B Wankhade ² , J V Phirke ³ ¹ Assistant Professor Department of Applied Science, B. Kolte College of Engineering, Malkapur, S.G.B. Annavati Universit ¹ Principal Department of Chemistry, hityankhahashyalaya, Malkapur, S.G.B. Annavati University ¹ Assistant Professor, Department of Chemistry Visa College of Aris, Commence and Science, Visa (W), defigigment com, ³ Wathhadebbiggmail.com, ³ Jaya.philke8(ggmail.com	
	continuation of life. Gri foragricultural and indust becomes an environmenta recognized as one of the caterinogenic effects in an substances, including heav environmentally friendly i absorb heavy metals from different villages of Purna Ni Heavy metals from different villages of Purna Ni Heavy metals that Ri-	Abstract d prociseus gift of nature and one of the vital elements involved in the surdivator is the primary searce of water for human consumpti- ial uses in many regions all over the world Ground water pollated b problem, though the metals are constituent of nature. Heavy metals, most important pollutants in the usaters because of their toxicity, imals. They constitute the most wately distributed genup of highly tor- cess and ion exchange process are generally used for removal of ha y metals. Plant based technologies such as thatofilmation are the co- fire removal of heavy matals. Rhinofilmation is a technique of attilises a the ground water in the present work ground water samples were river basin. Samples were analysed heavy metals like Cu, Fe, Cu, Ph, seed before and after Lime-soda. Ion exchangeond theoryfilmation treats histofilmation, <i>Heary metals</i> . <i>Histor pollution, Metal sortely</i> .	on as well as y heavy metals have long been mutagenic and one and returned adness causing st effective and ag plant roat to collected from Mn, Zn Ca, and ment the result
	I INTRODUCTI	ION	
	water quality as a result purposes. Many toxic bea serious soil and water poll	ation is the biggest problem for human beings" characterization by det- of various human activities which makes water unfit for drinking wy metals have been discharged into the environment as industrial ution [1].	; and domostic waste, causing
ink to t.	he recognition in UGC enlistment of t	he <u>http://ijiird.com/wp-content</u>	t/uploads/ASCI011.pdf
ournal	/ Digital Object Identifier (doi) numbe	er 👘	

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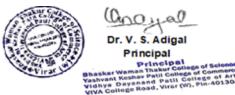
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Sr. No	Name of the Faculty	Title of the Paper Year – 2021-22	
4	Dr. Jayashri Naphade	Dehydrogenation of Pyrazoline and its Derivatives using DDQ in DMF	
SSN	0363-8057 [GRADIVA REVIEW JOURNAL]	·	
	GRADIVA REVIEW JOURNAL	ISSN NO : 0363-8057	
	Dehydrogenation of Pyrazoli	ine and its Derivatives using DDQ in DMF	
	Dr. Jayashri Naphade ¹ , Dr.Rav	ikumar Shinde ^{1*} and Dr. Smita Tarale ²	
	¹ Department of Chen	nistry, Viva College, Virar(W)	
	1*Department of Zoology, Shri P	undlik Maharaj Mahavidyalaya, Nandura	
	² Department of Chemistry, Shri F	Pundlik Maharaj Mahavidyalaya, Nandura	
	Abstract: Synthesis of pyrazoline derivatives in active field of research due to their pharmacological activities. In this study Substituted 4[5 phenyl-1(4-phenylthazoi-2-yl)- 1H-pyrazoi-3yl] phonol were prepared. Pyrazoline was supported in DDQ and DMF added to it. The mixture was reflexed for 1hr, cooled, diluted with water, the solid obtained was filtered, washed with Cold water and crystalload from sibanol to get pyrazoles. The same reaction was carried out in DDQ-DMF system affords pyrazoles. Structures of the synthesized compounds were confirmed from spectral analysis data, which were in line with the proposed structures. Keywords: DDQ. Pyrazoline.		
	1.	Introduction	
	starting material for the synthesis isocazoles., etc. Formation of pyrazi	nce of chalcones and flavanones as a valuable of heterocycles, like pyrazolines, pyrazoles, blines have been reported ^[1, 9] by the action of ilcones and flavanones in solvents like DMSO,	
	potassium permanganate, silver niti manganese dioxide Nitro pyrazoles using DMSO- 12 as a solvent [3], derivatives embedded with variety of active agents and a huge amount of	Pyrazoles have been reported by oxidation of pyrazolines by chromic acid, potassium permanganate, silver nitrate, potassium ferricyanide, lead oxide and manganese dioxide. Nitro pyrazoles have been synthesized from nitro pyrazolines using DMSO- 12 as a solvent ^[3] . Diversely substituted pyrazolines and their derivatives embedded with variety of functional groups are important biologically active agents and a huge amount of research activities have been directed toward this class of compounds ^[6] . These compounds also show physiological activities ^[7] .	
		pared by the oxidation of pyrazolines using I method, i.e., by using gas burners for heating	
	he recognition in UGC enlistment of the Journal /	https://gradivareview.com/volume-7-issue-7-2021/	
Digital C	Dbject Identifier (doi) number	DOI:10.37897.GRJ.2021.V7I7.21.287.3	

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Sr. No	Name of the Faculty		Title of the Paper	Year – 2021-22		
5	Dr. Jayashri Naphade		OVERVIEW ON COVID-1	9 (CORONAVIRUS DISEASE)		
SSN	2456-236X [International Journal of Interdisciplinary Innovative Research and Development]					
		rdisciplinary Innovative . ISSN: 2456-236X Vol. 06 Special Issue 01	Research &Development (IJIIRD) 2021			
	OVERVIEW	ON COVIE	0-19 (Coronavirus	3		
		Disease))			
		Dr.Jayashri G. Naph	ade ¹			
		istance Professor, Departmen ollege of Arts, Commerce and				
	meta	orage of Aris, Commerce and	science, r irur (ir)			
		Dr.Bharat M.Tayd				
		tant Professor,Department of . College of Engineering, Malki	Applied Science, ipur, S.G.B. Amravati University			
		ABSTRACT				
	transmitted to humans through y in December 2019. The disease is incubation period ranges from breathlessness, fatigue, malaise, a elderly and those with comorbi syndrome (ARDS) and multi org many fatalities and forced sciem activities. As a result, there is an o	et unknown intermediary s transmitted by inhalation 2 to 14 d. The sympton mong others. The disease idities), it may progress gan dysfunction. The ongo tific communities to foste enormous growth of schola		China nd the throat, illy the listress lted in		
	Keyword: - COVID-19, SARS-CoV-	2, WHO COVID-19 database				
	1. INTRODUCTION					
			geographical areas, including Ebola viru			
			s a new type of viral infection which eme	-		
			d causes the highly infectious disease refe the Huanan wholesale seafood market th			
		-	e SARS outbreak) was activated and resp			
	samples of patients were sent to refer	ence labs for etiologic investi	gations. On December 31st 2019, China i	notified		
	the outbreak to the World Health Org	ganization and on 1st January	the Huanan sea food market was closed.	. On 7 th		
			homology with the bat coronavirus and			
		-	de to become a global pandemic affectin	g more		
			ore than 800,000 people worldwide [2]. onavirus (SARS-CoV) Virus in its pathog	amicity		
			ion (WHO) officially declared that the CO			
	a sor					
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	he recognition in UGC enlistment of the . bject Identifier (doi) number	Journal /	<u>nup://ijiira.com/wp-cc</u>	ontent/uploads/ASD002.pd		
		l, Virar (West), P		anoyal		

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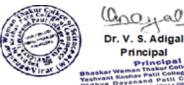


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Research Publication 2020-21

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Sr. No		Name of the Faculty	Title of the Paper	Year – 2020-21
1	Binita Thakkar		A Survey for Comparative Analysis	of various
			Cryptographic Algorithms used to S	ecure Data on Cloud
ISSN	0974-3154 [Int	ernational Journal of Engineering R	esearch & Technology (IJERT)]	
		Published by : In http://www.ijert.org	nternational Journal of Engineering Research & Technology (IJERT) 18883; 2278-0181	
			Vol. 9 Issue 08, August-2020	
		A Survey for Compara	tive Analysis of various	
		Cryptographic Algorithm	ns used to Secure Data on	
			oud	
		Binita Thakkar ¹ ,	Dr. Blessy Thankachan ²	
		School of Computer and Systems Sciences Research Scholar ¹ ,	School of Computer and Systems Sciences Associate Professor ² ,	
		Jaipur National University Jaipur, Rajasthan, India	Jaipur National University Jaipur, Rajasthan, India	
		Abstract-Cloud computing is the recent trend for the growth in IT industry. We are able to store any amount of data on	There are three ways of using cryptography: by converting plain text to cipber text, symmetric key	
		cloud today whether it is text, image, audio, and video and many more. Storing data on cloud is easy but it is very	algorithms and asymmetric key algorithms. Converting of plain text into cipher text can be done using substitution	
		important that the data which we store on store is also secure. Many cryptographic algorithms have been implemented to maintain the writers of data near check In this paper we will	techniques in which a character in plain text can be replaced by any other character, number or symbol and	
		maintain the privacy of data over cloud. In this paper, we will make a comparative analysis of various cryptographic algorithms used over cloud to secure data. This analysis will	using transposition techniques in which some permutations and combinations are used to encrypt the plain text	
		argorithms used over coold to secure data. This analysis will be made using various performance metrics.	characters. Symmetric key algorithms are one in which same	
		Keywords Cloud computing, symmetric algorithms, asymmetric algorithms	key is used for both encryption and decryption. There are many symmetric key algorithms like DES, triple DES,	
		L INTRODUCTION	AES, Blowfish and IDEA. These algorithms works on different input size blocks and different input size keys.	
		Data is a small unit of information. It is a critical	Asymmetric key algorithms use two keys, one for encryption and another different key for decryption.	
		aspect from which information is created. Data can be any text, image, audio or video. It is very important to manage	Various asymmetric algorithms like RSA and Diffie- Hellman are used.	
		and store this data. Today, data is mainly stored on cloud. Data on cloud can be stored in various ways. But it is more	II LITERATURE REVIEW	
		important that data stored on cloud should be secure. NIST defined cloud computing as "Cloud	P. Mell and T. Grance [1], defined cloud computing as a	
		computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable	model of providing access to shared resources. They	
		computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned	defined five characteristics of cloud as on-demand self- service, broad access network, resource pooling, rapid	
		and released with minimal management effort or service provider interaction" [1]. Cloud computing has become one	elasticity and measured service. They identified that a cloud model is based upon the three service models as	
		of the most emerging trend. This is because it provides many services to its customers and at a very low cost. The	Software-as-a-Service (SaaS). Platform-as-a-Service (PaaS) and infrastructure-as-a-Service (IaaS). They also	
		only issue with cloud computing is security of cloud. Security of data can be achieved by applying the principles	proposed that cloud basically works on any of the four deployment models-private cloud, public cloud, hybrid	
		of confidentiality, authentication, integrity, non- repudiation, access control and availability.	cloud or community cloud.	
		To maintain the privacy of data, principle of confidentiality is most important. Confidentiality ensures	L. Alhenaki et al. [2] made a study on security in cloud computing. The study identified various security issues on	
		that the data is shared only by the sender and the intended	cloud related to applications, data storage, management of client, operating systems used. The study also identified	
		recipient. This means, it is important that the sender uses some technique in which the data can be identified only by the researce and each be use methodized user. The means	threats and attacks on cloud related to data loss, data breach, insider and API's. Solutions and countermeasures	
		the receiver and not by any unauthorized user. The process of converting a readable message in a non-readable form is	for the attacks were analyzed.	
		called encryption. The reverse process of converting back the non-readable message in the readable form is called	D. Dhaivat et al. [3] discussed various issues and threats on cloud based upon deployment model and service models.	
		decryption. Cryptography is defined as study of techniques to form a secure communication.	The authors identified issues like multi-tenancy risk, data and encryption, data leak risks, identity and access	
	•	n UGC enlistment of the Journal /	https://www.scopus.com/sourceid/2	1100828027
Digital (Object Identifier	(doi) number		
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Sr. No	Name of the Faculty	Title of the Paper	Year – 2020-21			
2	Deepa Verma Nikhil Teli Gopal Chourasia Vikas Gupta	Unmodified Sugarcane Bag	passe Waste Biomass as a ption of Cd2+ From Aqueous			
ISSN	2005-4262 [International Journal of Grid and Dist	ributed Computing]				
	Unmodified Sugarcane Bagas	International Journal of Gitd and Distributed Vol. 13, No. 2, (2020) See Waste Biomass as a Potential Source Cd ²⁺ From Aqueous Solution	pp. 21–27			
	Deepa Verma ¹ , Nikhil <i>I. Department of Botar</i>	Teli ¹ , Gopal Chaurasia ² and Vikas Gupta ² y, VIVA College, Virar, Maharashtra, India ology, VIVA College, Virar, Maharashtra, Indi	a			
		Abstract				
	degradable, and accumulate in a living or to mankind. The study describes the bi unmodified sugarcane bagasse (SSB). In 1 inclusive of pH, contact time, adsorbent evaluated. The equilibrium studies were dosage (0.1 gm-0.5 gm), initial $Cd^{2^{\circ}}$ ion min), agitation rate (0 rpm-160 rpm). The equilibrium was determined by measurin (AAS). The optimum $Cd^{2^{\circ}}$ removal was contact time of 120 min, agitation rate was characterized by FTIR reveals the pro-	vy metal pollutants released from industrial effluent into the water bodies are highly toxic, non- valable, and accumulate in a living organism through the food chain thus posing a serious threat nankind. The study describes the biosorption of Cd^{2+} ions from an aqueous solution using odified sugarcane bagasse (SCB). In the batch study, the influence of various process parameters usive of pH, contact time, adsorbent dose, agitation rate, and initial ion concentration has been hated. The equilibrium studies were systematically carried out at pH range (2-10), adsorbent ge (0.1 gm-0.5 gm), initial Cd^{2+} ion concentration of Cd^{2+} ions in the solutions before and after librium was determined by measuring absorbance using Atomic Absorption Spectrophotometer S). The optimum Cd^{2+} removal was observed at pH-9, initial ton concentration of 2 ppm, the lact time of 120 min, agitation rate of 80 rpm, and adsorbent dosage of 0.4 gm. The biosorbent characterized by FTIR reveals the presence of hydroxyl, carboxyl, carbonyl, amide, and methoxy tional groups. All results showed that the SCB can be effectively considered as a promising cost- tion biosorbent for the seminal of Cd^{2+} ions and accomplete on bioince.				
	Keywords: Biosorption, Sugarcane Bagass	Keywords: Biosorption, Sugarcane Bagasse, Cd ²¹ , Atomic Adsorption Spectrophotometer				
	Introduction					
	over the last few decades. Unlike most or released into the environment offen per throughout the food chain, thus posing a metal pollutants of concern include cadh arsenie, gold, silver, copper, and nickel operations, sludge disposal, fly ash from materials, metal plating, or the manuf pesticides or preservatives (Liu et al., 20	cosystems has become a major problem of concer- organic pollutants that can be destroyed; toxic n sist indefinitely, circulating and eventually acci- serious threat to mankind (Gupta et al., 2001). T inum, lead, chromium, mercury, uranium, seleni These toxic constituents may be resulting fror incinerators, refining ores, the processing of ra- iccure of electrical equipment, paints, alloys, O8). Among heavy metals cadmium is one of 1 major effects of cadmium poisoning are experient 007; Upendra, 2006).	netal ions mulating he heavy um, zinc, n mining dioactive batteries, he major			
	metals. The most commonly used techniqu ion exchange, chemical precipitation, re (Moussavi & Barikbin, 2010) These comm expensive or complicated, particularly in generate other toxic wastes (sewage sludg strict regulatory requirements (Ajmal et. search for a low-cost and easily availab biological origin as potential metal biosort	Over a few decades, numerous approaches have been devised for the treatment and removal of heavy metals. The most commonly used techniques for removing metal ions from aqueous streams comprise ion exchange, chemical precipitation, reverse osmosis, lime coagulation, and solvent extraction (Moussavi & Barikbin, 2010). These commonly used technologies for removing metals are extremely expensive or complicated, particularly in solutions with less than 10 mg L ⁻¹ of metal, they also generate other toxic wastes (sewage sludge) and in some cases, it is difficult to achieve and maintain strict regulatory requirements (Ajmal et al., 2003; Akzu, 2001; Fazal & Rafique, 2012). Hence a search for a low-cost and easily available adsorbent has led to the investigation of materials of biological origin as potential metal biosorbents.				
	the recognition in UGC enlistment of the Journal I Object Identifier (doi) number	http://sersc.org/journals/ind	ex.php/IJGDC/article/view/31			

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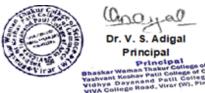
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Sr. No	Name of the Faculty	Title of the Paper	Year – 2020-21					
3	Dr. Arti Dubey	क्यूमे रन वय् ुतप् नन् के संशल्	ेषण क पीचमॉन अभि या म					
		युक्त अमल् kय उत ् रेक क द त	ता क त्लना					
ISSN	2320-7736 [Vidynan Garima Sindhu]							
		5						
	क्यूमेरिन व्युत्पन्नों के संश्लेषण की पीचमॉन अभिक्रिया में प्रयुक्त अम्लीय							
	उत्प्ररेकों की दक्षता की तुलना							
	श्रीमती. परमजीत के. मोंगा डॉ.शीतल भसीन							
	रसायन विज्ञान विभाग, सुरश जानविहार विश्ववि जयपुर, राजस्थान, भारत	द्यालय, बायोसाइंसेज विभाग, महाराजा रणजीत सिंह ऑफ प्रोफेशनल साइंसेज, इंदौर, (एम.)						
	#1517. Sr 81 90							
	औ.हरिओम नागर रसायन विज्ञान विभाग, सुरेश ज्ञानविहार विश्ववि	श्रीमती.आरती दुबे दयालय, रसायन विज्ञान विभाग, विवा महाविदय	जन्म निरम					
	जयपुर, राजस्थान, भारत	्यापत्र, एसावर्ग विकास विकास, विवा महात्वत्व एम.एस., भारत						
		डॉ.दीपक शर्मा						
		सायन विज्ञान विभाग,						
		ालय ऑफ प्रोफेशनल साइंसेज, इंदौर, (एम.पी.), भारत 1.: dipaksharma07@yahoo.com						
		न क्यूमेरिन के संश्लेषण के लिए प्रयोग किया जाता । 5 की उपस्थिति में प्रतिस्थापित फिलॉलो की अभिकि						
	उत्कृष्ट उत्पाद प्रदान करते हैं । अमलीय उत्प्ररेक की उपस्थिति में प्रतिस्थापित फिलॉलो की अभिक्रिया बीटा- कीटो एस्टर से करवाई जाती हैं जिससे क्यूमेरिन प्राप्त होते हैं ।							
		य व जैविक उपयोगी क्यूमेरिन व्युत्पन्न प्राप्त होते						
		के साथ विलायक मुक्त स्थिति में क्यूमेरिन व्युत ण के साथ पीचमॉन अभिक्रिया का उपयोग किया। सू						
		े का कार्याल्वयन एक स्वच्छ संश्लेषित अभिक्रिया अ						
	उत्पाद प्रदान करता है। संश्लेषित यौगिको विभि किया गया है।	न्न स्पेक्ट्रममिति तकनीकों द्वारा व्यवस्थित रूप र	ते चिकित					
	शोध कुंजी: पीचमॉन अभिक्रिया, घरेलू सूबम त अम्ल, एम्बरलिस्ट-15 द्राय, मॉन्टमोरीलॉनाइट के	रंग ओवन (माइक्रोवेव ओवन), अम्लीय उत्प्रेरक (ऑ -10. तथा सिलिका बॉल)।	क्सालिक					
	परिचय							
		। बडे और व्यापक स्तर का वर्ग है। विषमचक्रीय य अधिक अन्य तत्व पाए जाते हैं । जिन्हें विषम परम						
	ISSN: 2320-7736[जनवरी-मार्ग, 2021] अंग-116		23					
	he recognition in UGC enlistment of the Journal Object Identifier (doi) number	https://cstt.education.gov.in/site	s/default/files/VGS-116.pdf					

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Research Publication 2019-20

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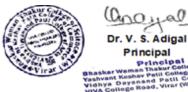
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Sr. No	Na	me of the Faculty	Title of the Paper	Year – 2019-20
1	Dr.Arti Dubey		An overview on preparat activated Jatropha Husk	ion and characterization of carbon
ISSN	2348-1269[INTER	NATIONAL JOURNAL OF RESEAR	CH AND ANALYTICAL REVIE	WS (IJRAR.ORG)]
ISSN	2348-1269[INTER	2 2019 LJRAR June 2019, Volume 6, Issue 2 An overview on preparation of the product of	CH AND ANALYTICAL REVIEN www.ijrar.org (E-ISSN 2348-1269, P-ISSN tion and characterization opha husk carbon Anjani ² , Dubey Arti ² and Sharma Dipak ^{2*} on and Research University. Udsipar, Rajsathan, ladin "dege of professional sciences, Index, M.P., India "College of Science, Mumbai, Matamahtra, India "dege of professional sciences, Index, M.P., India "College of Science, Mumbai, Matamahtra, India "totage of Science, Mumbai, Matamahtra, India totage of Science, Mumbai, Science, Market, India "totage of Science, Mumbai, Matamahtra, India totage of Science, Mumbai, Science, Market R, and TGA analysis. Physical properties such as a a, CHNS analysis, pH and porosity were studied ar biodiesel waste, chemical activation, characterization with small, low volume pores that increase the s red by that organic substance which have high because it contain high amount of carbon as well a sing varioas agricultural fertilizers but it is rich in st and degrade therefore converting this waste in plant which is a soft weeded deciduous shrub is als "etc. It is a widdly growing hardy plant, in arid an lertility and moisture ¹³ and can live for about 50 yeas full areas either in the farms as a commercial crop animals and to prevent and control erosion ^{4,12} . T sceae, which is comprised of approximately 800 is planted as commercial crop because it is cent at treplacement of petroleum based diesel fuel ⁷³ .	AVS (IJRAR.ORG)]
		International Journal of Research	ch and Analytical Reviews (IJRAR) <u>www.ijrar.org</u> 288	·
	he recognition in UC Object Identifier (d	GC enlistment of the Journal oi) number	http://www.ijrar.org/pa https://www.ijrar.org/	pers/IJRAR19K2477.pdf

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Sr. No	Name of	the Faculty	Title of the Paper	Year – 2019-20	
2	Dr.Arti Dubey		Different types of peel	s, seeds and natural waste material used	
			for the treatment of to	oxic ions in effluent	
SSN	2349-5162 [Journal	of Emerging Technolo	gies and Innovative Resea	arch (JETIR)]	
	© 201	9 JETIR June 2019, Volume 6, Issue	6 ww	w.jetir.org (ISSN-2349-5162)	
	1	Different types of	f peels, seeds and na	tural waste	
			r the treatment of to		
		mater mi useu io	effluent.		
		Chathan	Anita ^{1'} Dubey Aarti ² and Sharma Dipak ²		
	¹ Research Scholar, PAHER University, Udaigur-313003 (Raj.) India.				
			try, Maharaja Bhoj, Govt. P. G. College Dhar, MP.		
	³ Dep	nartment of chemistry, Bhookar Warnan Th	ukur College of Science, VIVA College Road, Vir	ar (West) Mumbos, MH, India.	
		Department of chemical sciences, Ma	aharaja Ranjit Singh College of Professional Scienc	ces, Indore, MP, India.	
	Abst	ract- Growth of several indus	trialization has responsible for dum	ping of toxic metal ions	
	into	the environment. Copper, cau	lmium, lead, zinc, mercury, and chr	comium all toxic metals	
	press	ent in effluent. Various har	mful metal ions entered into the	water bodies through	
	indu	strial activities. Different typ	es of methods used for the treatme	ent of toxic ions. Some	
	meth	ods are physiochemical or	some natural methods. Physioc	chemical methods are	
	coag	ulation, reverses osmosis, che	emical precipitation etc. are used fo	or the treatment of toxic	
	ions.	Different types of agricultur	ral peels, fruits peels, industrial w	ustes etc. used for the	
	remo	val of harmful ions. Adsorption	on is the best process for the treatme	ent of toxic ions/metals.	
	Two	types of adsorbents are used	in adsorption method like commer	rcial adsorbents or low	
			t adsorbents are easily available a		
			paper will help for our research w		
	toxic	ions from ultramarine blue in	dustrial effluents through natural a	dsorbents.	
	Keym	ords: Industrialization, Treatment, Toxic r	netals, Adsorption, Effluent, Environment, Coagula	ation.	
			L INTRODUCTION		
	Tonic	metals have been excessively released i	nto the environment due to the rapid industrializ	ration and have created a major	
	34.046	8. A 2 4 4 4 4 4 7 A 2 7 A 2 7 A 2 4 A 2 4 A 2 4 B	il treatment plant contains significant toxic metal water and soil pollution because these industries p		
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	wironment. Rapid industrialization has responsible		
			ons entered into the water bodies by industrial. J		
		그 집에 들어올랐다. 가슴 집에서는 것이라 것 같아요.	lectrochemical treatment, ultra filtration, etc are ph pensive and effective because of their relative low		
	metal	ons from industrial effluent adsorption or	ethod is mostly used by many researchers. Adsort	ption is one of the sufest, easiest	
			of these metals from industrial effluent. Throughout		
	are act	unulating as living tassacs and it is possor	ions and harmful for all living beings and environm	arri.	
	he recognition in UG			20ugc%20approval.pdf	
Journal	/ Digital Object Identi	tier (doi) number	https://www.jetir.org	/papers/JETIR1907L87.pdf	

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Sr. No	Name of the Faculty	Title of the Paper Year – 2019-20			
3	Dr.Arti Dubey	One-pot synthesis of coumarin derivatives via microwave assisted Pechmann reaction and biological activity of substituted coumarin derivatives			
ISSN	0975-0991 [Juni Khyat (UGC Care Group I L	isted Journal]			
	Indian Journal of Chemical Technology Vol. 27, March 2020, pp. 166-173				
		arin derivatives via microwave assisted Pechmann l activity of substituted coumarin derivatives			
	M Paramjeet K ¹ , Bhasin Sheetal ² , Dubey Arti ³ , Nagar Hariom ¹ & Sharma Dipak ^{*,4}				
	¹ Department of Chemistry, Suresh GyanVihar University, Jaipur, Rajasthan, India ² Department of Biosciences, Maharaja Ranjit Singh College of Professional Sciences, Indore, M.P., India ³ Department of Chemistry, VIVA College, Virar, M.S., India ⁴ Department of Chemical Sciences, Maharaja Ranjit Singh College of Professional Sciences, Indore, M.P., India E-mail: dipaksharma07@yahoo.com				
	Received 15 March 2018; accepted 16 April 2019				
	primary resources and gives coumarin deri synthesized by condensation of β-ketoester which oxalic acid is used as catalyst. Oxa coumarins. The new method of synthesis shorter reaction time, high yield, and clean been systematically characterized by IR ar Gram positive (<i>Staphylococcus aureus</i> and	he synthesis of substituted coumarins as it can be executed with straight forward vatives with excellent yields. In the present work coumarin derivatives have been s and substituted phenols under microwave irradiation in solvent free condition in lic acid is found to be a potential environment friendly catalyst for synthesis of described here offers a number of advantages of being convenient, safe, gentle, ness as compared to the conventional methods. The synthesized compounds have id MS analyses. All products are examined for antimicrobial activity against the d <i>Bacillus subtilis</i>) and Gram negative (<i>Escherichia coli</i> and <i>Salmonella typhi</i>) fungal species (<i>Aspergillus sp.</i> and <i>Fusarium graminearum</i>). All the compounds ungi.			
	Keywords: Antimicrobial, Antifungal, Cou	marins, One-pot Microwave irradiation, Oxalic acid, Pechmann condensation.			
	Coumarins are found under class ben heterocyclic compounds and most of nat contain this heterocyclic nucleus. Co compound with comprehensive range pharmacological and various physiologi	tural products products. In our work we used oxalic acid (as catalyst) for the synthesis of coumarins through pechmann reaction. Biological evaluation of			
Link to 1	the recognition in UGC enlistment of the				
	/ Digital Object Identifier (doi) number	10.56042/ijct.v27i2.21023			
Link to a	article/paper/abstract of the article	http://op.niscair.res.in/index.php/IJCT/article/view/21023			

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Name of the Sr.No Faculty **Title of the Paper** Year - 2019-20 Study of Antifungal Activity of 2-Methoxy-6-[(1-Naphthalen-1-yl-Ethylimino)-Methyl]-4 Dr. Sheetal **Powar Palande** Phenol and Its Transition Metal Complexes on Aspergillus Niger and Candida Albicans. ISSN 2277-5730 [Organic Preparations and Procedures International The New Journal for Organic Synthesis] VOLUME + VIIL ISSUE + 1+ JANUARY + MARCH + 2019 AJANTA - ISSN 2277 - 5730 -IMPACT FACTOR - 5.5 (www.sjifactor.com) 14. Study of Antifungal Activity of 2-Methoxy-6-[(1-Naphthalen-1-Yl-Ethylimino)-Methyl]-Phenol and its Transition Metal Complexes on Aspergillus Niger and **Candida** Albicans Sheetal V. Palande Deelip K. Swamy ¹NES Science College Nanded, Maharashtra India, ²Pratibha Niketan College, Nanded, Maharashtra, India. Abstract Coordination complexes of transition metals with Schiff base ligand were synthesized. The spectral analysis, conductivity measurements and XRD analysis were used for elucidating the structure of ligand and metal complexes. The compounds were subjected for biological activity sreening. Antimicrobial activity of the compounds has been studied for two fungi Aspergillus niger and Candida albicans Keywords: Schiff bases, Metal Complexes, Conductivity measurements, XRD, Antifungal activity Introduction The importance of metal complexes as drugs, their role in the biological systems and in the biological action of certain drugs has been realized. They are based upon the drug certain physical properties, e.g., low dissociation constants resulting in tightly metal ions, special oxidation-reduction potentials, solubility and electron distribution. The majority of the important metal complexes are chelates1. Studies on the relationship of metal complexes and biological response have been reported 2.3. The Schiff bases and their metal complexes are of biological importance. The Schiff bases possess various activities such as antibacterial activity, antifungal activity, anticancer activity, antitumor activity and antitubercular activity 4. Metal complexes of the Schiff bases also show these activities. These complexes are often more active than the ligands due to complexation with less side effects. In the present work the Schiff bases have been PART - XVII | Peer Reviewed Refereed and UGC Listed Journal No. : 40776 75 Link to the recognition in UGC enlistment of the Journal / https://vpmthane.org/jbcapp/upload/m6/58.pdf **Digital Object Identifier (doi) number**

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Sr.No	Name of the Faculty	Title of the Paper Year – 2019-20					
5	Dr. Arti Dubey	Overview of Adsorption Isotherm studies of heavy metals from wastewater using coal fly ash					
ISSN	2278-4632 ["Overview of Adsorption Isotherm studies of heavy metals from wastewater using coal fly						
	ash"]						
	Juni Khyat (UGC Care Group I L	ISSN: 2278-4632 isted Journal) Vol-10 Issue-6 No. 13 June 2020					
	Overview of A	dsorption Isotherm studies of heavy metals from wastewater using coal fly ash					
	Lalita Goyal ¹ , M.K.Dwivedi ² , Arti Dubey ³ and Dipak Sharma ⁴ ¹ Department of Chemistry, M.L.C.Govt. Girls College, Khandwa, MP, India						
	² Department of Chemistry, Hollkar Science College, Indore, MP, India						
	-	mistry, VIVA College, Virar, Thane, MH, India					
	⁴ Department of Cher India	nical Sciences, Maharaja Ranjit Singh College, Indore, MP,					
		lalitaatode@gmail.com					
	techniques and materials have been recently proposed in order to solution this problem, such as the adsorption process. Adsorption technology is currently being used extensively for the removal of heavy metals from aqueous solutions because it is a cleaner, more efficient and cheaper technology. Three kinetic mechanisms are used for adsorption on heterogeneous substrates as is the fly ash: pseudo-first order, pseudo-second order and intra-particle diffusion. The thermodynamic parameters such as the free energy ΔG° , enthalpy ΔH° and entropies ΔS° of showed that the adsorption process is suitable, spontaneous and endothermic. Key words: Heavy metals, fly ash, adsorption, kinetics, thermodynamics						
	INTRODUCTION						
	he major industrial wastes generated from power stations that cannot be ecent research efforts have consequently focused on developing ways to lications that are friendly to the environmentally benign. Apart from its ement and concrete industries, FA alternative use/reuse in environmental f its reasonable adsorptive property for water treatment. Limited studies ed to improve FA adsorption capacity ¹ .						
Conventional methods including, reverse osmosis ² , electrodialysis ³ , ion exchange ⁴ , chemical precipitation ⁵ , ultra filtration ⁶ and adsorption are used for removal of heavy metal ions from wastewater. The adsorption method, among all above mentioned processes ⁷ . It is the most preferable one because it is economically advantageous, highly efficient and applicable ⁸ . Adsorption process gives an attractive alternative for the treatment of contaminated water. It remains an innovative and effective alternative treatment for heavy metals removal from wastewater ⁹ . Adsorption is efficient and reliable method for removal of heavy metals. It also							
	Page 63	www.junikhyat.com Copyright © 2020 Authors					
	e recognition in UGC en Digital Object Identifier						

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PEMP) nethoxy- () was fethoxy- uimolar) of the ethanol was then vas then product. ed with vas then of 86%. red solid
of metal etal M= and and olved in n water colored anol and nd to be 0°C [11, given in
np/JASR/article/viev

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Sr.No	Name of the Faculty	Title of the Paper	Year – 2019-20		
7	Dr. Jayashri Naphadep-Phirke	Synthesis of Some Novel Chalcon Activity	e by Green and Study of Antimicrobial		
ISSN	SN 2456-236X (INTERNATIONAL JOURNAL OF INTERDISCIPLINARY INNOVATIVE RESEARCH & DEVELO				
	International Journal	l of Interdisciplinary Innovative Research & Develo ISSN: 2456-236X Vol. 05 Special Issue 01 2020	opment (IJIIRD)		
		of Some Novel Chalcone	-		
	Methodo	logy and Study of Antimic	crobial		
		Activity			
		Jayashri V. Phirke ¹ , Bharat M. Tayde ²			
		nistry, Viva College of Arts, Commerce and Science, Virar (W) Science, Padm. Dr. V.B.Kolte College of Engineering, Malkap			
		ABSTRACT			
	with benzaldehydes in preser reaction is clean with shorte functional groups such as nit novel synthesised chalcones h screened for their antibacteria	s (1-6) were prepared by Claisen-Schmidt condensation of p nce of aqueous solution of sodium hydroxide using micro re reaction time, mild reaction condition, eco-friendly, exci tro, chloro, and ether survived under the reaction condition have been established on the basis of their IR spectral data. al activities against Staphylococcus aureus and Salmonella ty rowave Irradiation, Antimicrobial Activity	wave irradiations. The ellent yield. Variety of s. The structures of the These compounds were		
	1. INTRODUCTION	1			
	spices, tea and soy-based pharmacological activities ¹ . C chalcones are polyhydroxylate many chalcones have raised preservativesChalcones are th central core for the synthesis of r diketone ⁴ and flavones ⁵ . So benzodiazepines, benzoxazepi chalcone have been reported antibacterial ⁸ , antituberculosis During the last few years the p subjected to investigation. It having antibacterial, anticanc derivatives have been synthesis	he major classes of natural products with widespread distribut foodstuff, have been recently subjects of great interes halcones are belonged to the flavonoid's family. A vast numb ed in the aryl rings. The radical quenching properties of the ph interest in using the compounds or chalcone rich plant ex- ne aromatic ketones which belong to 1, 3-diaryl-2- propen-1 s of variety of important biologically active compounds. Of many biologically important heterocycles such as benzothiazep ome heterocyclic systems based on chalcone precursors necs, pyrimidines, pyrazoles, and oxazoles ⁶ . The compound to exhibit a wide variety of pharmacological activity in s ⁸ , anticancer ¹⁰ , anti-inflammatory ¹¹ , antifungal ¹² , antioxic potential of s-triazine derivatives in agrochemical and medicin is found that substituted s-triazine derivatives are an import ere, antitumor, antiviral, antifungal & antimalarial activitie ized and have showed antibacterial activity and other activitie des an option of developing inexpensive, easily synthetic and	t for their interesting er of naturally occurring enolic groups present in tracts as drugs or food -ones, which forms the Chalcones are also key pine ² , pyrazolines ³ , 1,4- are benzothiazepines, s with the backbone of heluding antimalarial ⁷ , lant ¹³ , antileishmanial ¹⁴ . hal properties have been ant class of compounds s ^{15,16} Many acetamido is too ¹⁷ . Chalcones are a		
	2. MATERIALS AND ME	ETHODS			
	were determined by open cap	esent study were of analytical grade. The melting points of the illary tube method and are uncorrected. The 1H-NMR spect ctrophotometer in DMSO and chemical shifts are expressed	ra were recorded at 400		
	3. GENERAL PROCEDU	RE FOR THE SYNTHESIS OF CHALCONES			
	amount of etanol and NaOH w flask was taken in a domestic rradiation for 30 sec-2 min. Th	re of P-hydroxynacetophenone and substituted benaldehydes vere placed in a conical flask. The conical flask was covered w c microwave oven. The reaction mixture was irradiated und he progress of the reaction was monitored by TLC (<i>n</i> -hexanc: ture was cooled and the obtained solid was recrystallized by e	ith a funnel and then the er 180 watt microwave ethyl acetate, 7:1) after		
Link to th	ne recognition in UGC enlistmer	nt of the IJIIRD International Journ	al for Engineering & Science		
	Digital Object Identifier (doi) n		ntent/uploads/ASCI004.pdf		

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Research Publication 2018-19

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Dr. V. S. Adigal Principal Principal Bhaskar Waman Thakur College of Science Yashrant Keshay Patil College of Arts Nuck College Road, Virar (W), Pin-401303.



Sr. No Name of the Faculty **Title of the Paper** Year - 2018-19 Isolation of heterotrophic microalgae from hot springs for lipid production 1 Basil D'Mello 2320-8694 (Journal of Experimental Biology and Agriculture Sciences) ISSN CrossMark of of Farania sental Biology and Agricultural Sciences, Discentiser - 2018; Volume -- 600 page 1010 -- 1014 Journal of Experimental Biology and Agricultural Sciences Etter //www.iebea.org ISSN No. 2320 - 8694 ISOLATION OF HETEROTROPHIC MICROALGAE FROM HOT SPRINGS FOR LIPID PRODUCTION Basil D'Mello12*, Maya Chemburkar1 Department of Botany, Bhavan's College, Andheni(W), Manshai-401058 Department of Biotechnology, VIVA College, Virar (W), Maharashera 401203 Received - November 04, 2018; Revision - December 05, 2018; Accepted - December 10, 2018 Available Online - December 15, 2018 DOE: http://dx.doi.org/10.18006/2018.6(6).1010.1014 **KEYWORDS** ABSTRACT Autenochiorella pyrenoidora Biodiesel is an alternative to diesel fuel, which is produced from bio oils via transesterification. It is nontoxie, biodegradable and has the potential to replace the conventional diesel fuel. Microalgae can Heterotrophic produce faity acids called unsaturated lipids, which can be extracted and processed to form biofuel. The Lipid resent study was aimed to isolate of heterotrophic microalgae from hot springs of Palghar, Maharashtra for lipid production. Automochlorella pyrenoidosa was isolated and tested for its lipid production Biodiesel ability. Results of study revealed that A. pyrenoidora has the ability to produce about 11.56% lipid of its dry weight. Fatty acid profile of the extracted lipid showed the presence of C14.0, C16:0, C18:0, C16:1, Hot aptings C18:1, C18:2 and C18:3 fatty acids which make it a good biodiesel feedstock. All the article published by Journal of Experimental Biology and Agricultural Sciences is licensed under a * Corresponding author E-mail: drudle basili@grunil.com (Mr. Basil D'Melle) Co ons Attribution-NonCommercial 4.0 International License Based on a work at www.jebas.org. Peer review under responsibility of Journal of Experimental Biology and Agricultural Sciences Production and Hoiting by Horizon Publisher India [HPE] (http://www.horizonpublisherindia.in/). All rights miserved. Ð Link to the recognition in UGC enlistment of http://dx.doi.org/10.18006/2018.6(6).1010.1014 the Journal / Digital Object Identifier (doi) number

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(Affiliated to University of Mumbai)

Sr. No	Name of the	Faculty	Title of the Paper	Year – 2018-19
2	Basil D'Mello	-	Effect of temperature and ph variation of Auxenochlorella pyrenoidosa	n biomass and lipid production of
ISSN	2454-6348 (Research	Journal of Life	Sciences, Bio informatics Pharmaceutica	l and Chemical Sciences)
	•			
	D	'Mello & Chemburkar	RJLBPCS 2018 www.rjlbpcs.com Life Science	Informatics Publications
			Life Science Informatics Publications	
			Research Journal of Life Sciences, Bioinformatics,	
			Pharmaceutical and Chemical Sciences	RJLBPCS
		C. C.	Journal Home page http://www.rjlbpcs.com/	ISSN 2454-6348
	ā	riginal Research A	rticle DOI: 10	0.26479/2018.0406.29
		EFFECT OF TH	EMPERATURE AND pH VARIATION ON I	BIOMASS AND
		LIPID PRO	DUCTION OF AUXENOCHLORELLA PYR	ENOIDOSA
			B R D'Mello ^{1,2*} , M S Chemburkar ¹	
		1.Department of	Botany, Bhavan's College, Andheri(W), Mumbai, Ma	harashtra, India.
		2.Departmen	nt of Biotechnology, VIVA College, Virar (W), Mahara	shtra, India.
	-			
			are efficient producers of natural oils, sequester ca	
			ases, and do not compromise a food stock or deplete so n conditions, algae may switch carbon allocation fro	
			high lipid producing strains and selecting the appr	
			are critical to realize the potential and largescale adopt	5) The second
			study was aimed at studying the effect of temperature	승규님, 아파, 영국, 영국, 영국, 영국, 영국, 영국, 영국, 영국, 영국, 영국
			duction by a newly isolated microalga Auxenochlored	
	a	utotrophic conditions	. It was found that the optimum temperature for biomas	ss and lipid production
	w	as 30°C at which th	e microalga produced 1.196 g/L of biomass and 4.6%	lipid per gram of dry
	b	iomass in presence o	f nitrogen source and produced 0.691g/L of biomass an	d 9.6% lipid per gram
	٥	f dry biomass in abse	nce of nitrogen. The optimum pH for biomass productio	n and lipid production
	w	as found to be 7. This	s thermotolerant strain can be further optimised for large	scale lipid production.
	ĸ	EYWORDS: Auxen	ochlorella pyrenoidosa, nitrogen starvation, lipid, biod	liesel.
	-		Corresponding Author: Mr. B R D'Mello*	
		Departmen	t of Biotechnology, VIVA College, Virar (W), Maharas	htra, India.
			Email Address: dmello.basil@gmail.com	
	-			
	the recognition in UG		http://dx.doi.org/10.26479/2018.04	<u>06.29</u>
	ournal / Digital Objec	t Identifier		
(doi) ni	ımber			

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Sr. No	Name	of the Faculty	Title of the Paper Year – 2018-19		
3	Deepa Verma		Plants of the genus Spinacia: From bioactive molecules to fe	ood and	
ISSN	0924-2244 (Tre	nds in Food Science &	phytopharmacological applications Technology)		
10011	0524 2244 (110	1970AL			
		ScienceDirect			
		2	Trends in Food Science & Technology		
			Volume 88, June 2019, Poges 260-273		
		Review	3.		
		Plants of the ge	enus Spinacia: From bioactive		
			ood and phytopharmacological		
		applications			
	Bahare Salehi [®] , Tugba Bayunegmez Tumer ^b , Adem Ozleven [®] , Gregorio Peran ^d , Stefano Dall'Acqua ^d , Jovana Rajkovic [®] , Rabia Naz ¹ , Asia Nosheen ¹ , Fhatuwani Nixwell Mudau [®] , Fabiana Labanca [®] , Luigi Milella [®] , Nunziatina de Tammasl ¹ , Henrique Douglas Coutinho ¹ , Javad Sharifi-Rad ^k <u>2</u> 83, Deepa R. Verma ¹ , Miguel Martorell [®] <u>2</u> 33, Natália Martins ^{® 0} <u>2</u> 63				
		Show more 🗸			
		*° Share 55 Cite			
		https://doi.org/10.1016/j.tifs.2019.01.0 Get rights and content 7	26 7		
		Abstract			
		Background			
		nutritional value and high con ascorbic acid. However, the an	most recognized species of the genus Spinacia <u>oleacea</u> L. (spinach), have high ntent in <u>phytochemicals</u> , such as <u>flavonoids</u> , polyphenols, <u>carotenoids</u> , and mount of these <u>phytochemicals</u> depends on several factors, such as genotype, nomic practices, harvesting, storage temperature and time.		
		Scope and approach			
		This review focus on the then special emphasis is also given	apeutic role of Spinacia genus as well as its contribution as <u>food</u> in industry. A to its biological activities including antioxidant and antimicrobial effects. Spinacia plants, the respective roles, and mechanisms of <u>bioactive compounds</u> .		
l		Key findings and conclu	isions		
	tranş	s://www.sciencedirect.com/science/article/	abs/pa/S0924224418306769?via%3D#ub	1/8	
	rnal / Digital Ob	in UGC enlistment of ject Identifier (doi)	https://doi.org/10.1016/j.tifs.2019.03.028		

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Vishnu Waman Thakur Charitable Trust **Bhaskar Waman Thakur College of Science Yashvant Keshav Patil College of Commerce** Vidhya Dayanand Patil College of Art (VIVA College) (Affiliated to University of Mumbai)

Sr. No		Name of the Faculty	Title of the Paper	Year – 2018-19
4	Deepa Verma		Ethnobotany of the genus Taraxacum—Phytochemicals and antimic activity	crobial
ISSN	1099-1573 (Pł	nytotherapy Research)		
ISSN	1099-1573 (Pł	105/23, 10:55 PM PI < Back Phytotherapy Research / Volume 32, Issue 11 REVIEW Ethnobotany of the genus Tarce Mehdi Sharifi-Rad, Thomas H. Roberts, K Henrique D.M. Coutinho, Farukh Sharop First published: 24 July 2018 https://doi.org/10.1002/ptr.6157 Citations: 78 Dants belonging to the genus Tarce Abstract Plants belonging to the genus Tarce infectious diseases including foc information on Taraxacum spp., phytochemicals, and antimicrob include sesquiterpene lactones, derivatives, such as hydroxycing coumarins (aesculin and cichorii organic extracts of different plant for controlling fungi and Gram-pr represents a potential source of activity. However, so far, preclini by clinical studies. Indeed, clinic still scant, at least for infectious	araxacum—Phytochemicals and antimicrobial activity ara R. Matthews, Camila F. Bezerra, Maria Flaviana B. Morais-Braga, ov See all authors ~ braxacum have been used in traditional healthcare to treat ad-borne infections. This review aims to summarize the availab focusing on plant cultivation, ethnomedicinal uses, bioactive ial properties. Phytochemicals present in <i>Taraxacum</i> spp. such as taraxacin, mongolicumin B, and taraxinic acid as taraxasterol, taraxerol, and officinatrione; and phenolic namic acids (chlorogenic, chicoric, and caffeoyltartaric acids), n), lignans (mongolicumin A), and taraxacosides. Aqueous and nt parts exhibit promising in vitro antimicrobial activity relevant positive and Gram-negative bacteria. Therefore, this genus bioactive phytochemicals with broad-spectrum antimicrobial ical evidence for these activities has not been fully substantiate al evidence for these activity of <i>Taraxacum</i> bioactive compounds diseases, and there is limited information on oral bioavailabilit safety of <i>Taraxacum</i> products in humans, though their tradition	
	•	n in UGC enlistment of the Jo ifier (doi) number	urnal <u>https://doi.org/10.1002/ptr.6157</u>	

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Sr. No	Name of the Faculty	Title of the Paper	Year – 2018-19		
5	Deepa Verma	Matricaria genus as a source of antimicrobial	agents: From farm to		
ISSN					
	0944-5013 (Science Direct) Matricaria genus as as ScienceDirect ScienceDirect Matricaria genus as as Matricaria young 's planta Nazaruk *, letizia Metrid Shariff-Rad *, jolanta Nazaruk *, letizia Metrid Shariff-Rad *, jolanta Nazaruk *, letizia Metrid You arg/DolDigi mocres/2018/06.000 7 Cite Matricaria contest 7 Under an Elsevier usceliconse 7 Matricaria and Africa. Some of the speci Chamomiles are recognized medicinal plant blue essence, as berbal tea, and for pharma Matricaria spp. includes volatile terpenoids	pharmacy and food applications ource of antimicrobial agents: From farm to pharmacy and food applications - ScienceDir Microbiological Research Welame 215, Octuber 2018, Pages 76-88 source of antimicrobial agents: From	ect		
	acids). Their essential oil is obtained from the fresh or dried inflorescences by steam distillation, and additionally cohobation of the remaining water. The volatile composition of the essential oil, especially the content of the valuable components a-bisabolol and chamazulene, depends on the plant part, origin and quality of the source, genetic, and environmental factors. Moreover, other parameters, such as season of harvest and methods of extraction, can affect the extraction yield of the essential oils/extracts, their composition and, therefore, their bioactivity. Due to the importance of this genus and particularly <i>M. recutita</i> (<i>M. chamomilla</i>), this review focus on its cultivation, factor affecting essential oils' composition and their role in traditional medicine, as antibacterial agents and finally as food preservatives. Link to the recognition in UGC enlistment of the Journal / Digital Object Identifier (doi) number https://doi.org/10.1016/j.micres.2018.06.010				

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Sr. No	Name	of the Faculty	Title of the	e Paper	Year – 2018-19		
6	Hensal Rodrigues Kiran Chakral		A new varie	A new variety of Hibiscus hirtus (Malvaceae), from Maharashtra, India			
ISSN	2582-2438 (Rheeda Online edition) 0971-2313 (Print edition)						
		Rheedea Vol. 20(1) 40-41 2018 ISSN: 0971-2313	https://dx.doi.or	1/10.22244/rheedea.2018.28.1.05			
		A new variety o Maharashtra, Ir		<i>us</i> (Malvaceae), from			
		Suchandra Dutta ^{1*} , He 'Department of Botany, R.D Bandra (W), Mumbai, Maha 'Department of Btany, Viva *E-mail: suchandra.dutta@g	& S.H. National College S rashtra - 400 050, India College, Virar, Maharashtr	eth W.A. Science College			
		Abstract					
			I. hirtus var. talbotii in havi	variety is described and illustrated from India. It differ ng 3-lobed lower leaves, lanceolate upper leaves and ir			
		Keywords: Hibiscus hirtus va	ir. <i>inarticulatus</i> , Maharashti	a, new variety, Sanjay Gandhi National Park			
		Introduction					
		While studying the floris Gandhi National Park, M the authors collected an i <i>Hibiscus</i> sect. <i>Bombicella</i> , i var. <i>talbotii</i> Rakshit. Critica with relevant types and pr be a new variety of <i>H</i> . <i>hirth</i> here.	lumbai in Maharsahira, interesting specimen of resembling <i>H. hirtus</i> L. al studies in comparison rotologues revealed it to	calyx, linear-lanceolate, calyx 5-fid; petals 5, white rounded at apex; staminal column 1.1 cm long shorter than petals, toothed, bent towards one side, antheriferous throughout; anthers reniform dense towards apex; pollen globose, panporate ovary subglobose; stigmas five, capitate. Capsules sub-globose, young ones longitudinally 5-striped slightly puberulous. Seeds 1 or 2 per cell, reniform densely clothed with long, silky hairs.			
		Hibiscus hirtus L. var. in Rodrigues & Kiran Chakra	소설 등 영향 이상은 여기 위해 가지 않는 것을 받는 것이 없다.	Flowering & fruiting: December – April.			
		Similar to H. hirtus var. talb ovate, 3-lobed lower leav		Habitat: Open areas in deciduous forests.			
		lanceolate, unlobed in v upper leaves (opposed to o in the absence of an articul	var. talbotii), lanceolate ovate in var. talbotii) and	Etymology: The varietal epithet refers to the inarticulate nature of the pedicel of this taxon.			
		Type: INDIA, Maharasi Gandhi National Park, Ja 1501 (Holotype, CAL; Isot National College Herbariu	htra, Mumbai, Sanjay muary 2015, SD/HR/KC ypes, CALI, R.D. & S.H.	Key to the varieties of Hibiscus hirtus 1. Pedicel not articulated			
		Subshrubs to 1.5 m tall. 3 with stellate hairs interm Lower leaves ovate, 3-lobec 5.7-12.3 × 1.2-4.7 cm, 3-5-nerved from base with base of the middle heaved	ixed with simple hairs; d, upper ones lanceolate, venation multicostate, h a linear nectary at the	 Corolla brick red; pedicel articulated at or below the middle			
linkto	the recognition in 1	ICC onlictment of th	o bitas //da	doi org/10.22244/sheedee.2010.2	9 1 05		
	-	JGC enlistment of the entifier (doi) number		.doi.org/10.22244/rheedea.2018.2	0.1.02		

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Sr. No	Name of the Faculty	Title of the Paper	Year – 2018-19		
7	Hensal Rodrigues		dentity of Mangrove and Mangrove associates		
Kiran Chakral		from Mumbai, India	3		
ISSN	0250-9768 (Scientific Publishers)				
	SCIENTIFIC		Wetranse #2 Sector Fri Barth - December 2018 155 No.0250-9766		
	COMMENTS ON TH		NGROVE AND MANGROVE ASSOCIATES IBAI, INDIA		
	Suchandra Du	tta*, Hensal Rodrigues1,	Kiran Chakral ¹ and Farhan Suraliwala ²		
	² Department of *Departm	rtany, R.D. & S.H. National College, Bandra (West), Mumbai – 400 050, Maharashtra, India of Botany, Viva College, Virar (West), Palyhar District – 401 303, Maharashtra, India ment of Botany, SVKM's Mithibai College of Arts, Chauban Institute of Science & ollege of Commerce and Economics, Vile Parie (West), Mumbai – 400 056, Maharashtra, India *Email: suchandra.dutta@gmail.com			
	Abstract The present paper attempts to e Avicenteio and Aconthus (Mangrov from saline habitat and Géro associate), and describes two new Avicenteio marina (Forssk.) Vie Moldenke forma pumila, form Cistanche tabuloso (Schenk) Hook (Orobanchaceae).	ve species), Cistanche tubulosa dendrum inerme (Mangrove v tasa to the science, namely, rih. var. acutissima Stapf & a nov. (Avicenniaceae) and	Charkop, Gorai, Dahisar, Elephanta islands, Esselworld, Manori, Marve, Naigaon, Nerul, Vasai, Vikhroli, and Virar to collect and study the mangroves and their associates. These specimens were examined for their morphological characters using a stereo-dissection microscope. Herba- rium vouchers were made. In order to identify the species properly, the protologues, type specimens, relevant literature and the specimens in CAL and BLAT were consulted.		
	Key words: Mangrove habitat: identity	New subspecies and forma;	Results		
	Introduction During the survey to doc mangrove associates from Mu mangroves and 37 mangroves The species of mangroves in are Avicennia marina (Forss Stapf & Moldenke, a dwarf (Pers.) C.E. Robin, Sonner Aegicerus corniculatum (L.) B (L.) Blume and Lomnitzera mentioned is a very rare man confinement to Gorai, Boriy Kandivali (West). The ambig dwarf Avicennia and the be names of Acanthus ilicifollus collected from mangrove hab the present investigation.	associates were recorded, order of their dominance k.) Vierh, var. acutissima Avicennia, Ceriops tagal atia apetala BuchHam, lanco, Braguiera cylindrica racemosa Willd. The last- ngrove in Mumbai with its rali (West), Charkop and aity in the identity of the loparasite Cistanche, and and Glerodendrum inerme itat formed the subject for	Through the study of mangroves within Mumbai, Avicennia marina (Forssk.) Vierh. var. acutissima Stapf & Moldenke forma pumila S. Dutta, K. Chakral & H. Rodrigues (forma nov.) of Avicenniaceae and Cistanche tubulosa (Schenk) Hook,f. subsp. polustris S. Dutta, H. Rodrigues & K. Chakral (subsp. nov.) of Orobanchaceae were found as new taxa and hence described. The taxa being usually identified and named as Acanthus ilicifolus L. (Acanthaceae) and Cieradendrum inerme (L.) Gaertn. (Verbenaceae) are corrected to Dilivaria ilicifolia (L.) Pers. and Volkameria inermis L., respectively. Lidentity of dwarf Avicennia Marine towards the Arabian sea and is commonly known as dwarf variety of Avicennia. But, it is not a botanical name. Hence a detailed study of this population was under taken to decide its identity. The study revealed that this dwarf variety is an ecad. It closely resembles Avicennia marino var. acutissima Stapf & Moldenke ex Moldenke (1940) which was described based on the type		
	he recognition in UGC enlistment of nal / Digital Object Identifier (doi)		entificpubonline.com/journaldetails/journ onomic-botany/10/0		

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Sr. No	Name of the Faculty	Title of the Paper		Year – 2018-19		
8	Dr. Sheetal Powar	Effect of oxa-aza hetero	Effect of oxa-aza heterocycles on seed germination of Bengal gram and lady			
		finger				
SSN	2348-1269 (International Journ	al of Research and Analyti	cal Reviews)			
		ISSUE 3 1 JULY - SEPT 2018]	e ISSN 2348 - 1269, Print ISSN 2349-5138			
	http://ijrar.co	f some Oxa-aza Heterocycles on S				
		(Cicer arietinum) and Lady's fing	er (Hibiscus esculentus).			
	¹ De	DEELIP.K. SWAMY ¹ & M.V. DESHM partment of Chemistry, Pratibha Niketan Mahar ² P.G. Department of Chemistry, Sci	vidyalaya, Nanded, Maharashtra, India. ence College, Nanded;			
		*Department of Chemistry, VIVA College,				
		May 27, 2018	Accepted: July 17, 2018			
	were used undertaker	A-trizzolo-(3.4-b)1.2-benzisonazole and 3-hydroxy-1 to find out their plant regulatory activity in the o	ing of synthesized Triazolabenzizanazole compounds 2,4-triazolo-(3,4-b)1.2-benziswazole. The compounds zonfined environment of laboratory. Experiment was two plants viz. Bengai gram (Clear arietinum) Lady's			
		Ona-aza Heterocycles, 1,2,4-triazolo-(3,4-b)1 ole, plant regulatory activity, seed germination.	2-benzisonazale, 3-bydrozy-1,2,4-triazala-(3,4-b)1,2			
	triazole syst reported wid found to be destruction of derivatives of Indole-3-eth Benzothiazol seeds of Whe The synthesi undertaken t the seeds of on the fact ti importance t	ng place in the plant bodies. From the earlier emis are very active as plant protective agen in serviul as defoilants. The defoilating effect of of chiorophyll?. Much work was carried out of f the following type Indole-3-acetaldehyde, i mol, indicated their close relationship to the pa yl hydrazones and naphthathiaxolyl hydrazon at, Kakadi and Devdanger ⁶ zed compounds were evaluated for various o observe the effect of the synthesized compo lengal gram and Lady's finger were selected. Th at gram is cultivated in 1 million acres in the o the Tur (Phaseolus vulgare), these being ve is selected as a typical vegetable commonly use	ts and as plant growth stimulants. Allen ¹ izol and some of its derivatives have been f this compound appears to be due to the on the chemical nature of auxins ^{34,5} . Some indule ³ -pyruvic acid, indole ³ -acctonitrile, rent structure Indoleaceticacid. The effect of es on seed germination was studied for the types of bioassay screening. Studies were unds on seed germination. For this purpose he choice of legume plant selected was based of State of Maharashtra and stands in 2nd in ry important sources of vegetable proteins.			
	Triazolobenz	d Procedure isoxazoles namely 1.2.4-Triazolo-(3.4-b)1.2-1 hiazole ^a and 3-Hydroxy-1.2.4-triazolo-(3.4-b)1.	penzisoxazole ⁷ analogue of 1.2,4-triazolo(3,4- 2-benzisoxazole were prepared ⁷ (Fig 1). R N			
		riazolo-(3,4-b)1,2-benzisoxazole				
R= OH: 3-Hydroxy-1,2,4-triagolo-(3,4-b)1,2-bernisoxazole Fig L. Structure of Triazolobenzisoxazoles. Ten seeds of each plant were soaked in 50 ml of 5 ppm solutions of the compounds for 4 hrs. The seeds were then spread on wet filter paper in petridishs. The Petri dishes and filter paper were sterilized before use The filterpapers were moistened with solutions of the compounds. The experiment was conducted for seven days and percentage germination, shoot length, fresh weight and dry weight were measured. Carbohydrate content was estimated by anthrone method (Vernm and Willis, 1954) at the end of fourth day. A set of						
	Research Pa	per IIRAR-International	ournal of Research and Analytical Reviews 405y			
	he recognition in UGC enlistmen urnal / Digital Object Identifier mher	t <u>http://ijrar.com/uplo</u>	ad issue/ijrar issue 1665.pd	df		

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Sr.	Name of the						
No	Faculty	Title of the	Paper	Year – 2018-19			
9	Dr. Sheetal		me oxa-aza heterocycles on seed germination of Tri	ticum aestivam I (wheat) and Cucurbita			
	Powar - Palande	maxima I. (
ISSN	2394-7780 (Inter	national Jou	ational Journal of Advance and Innovative Research)				
			ional Journal of Advance and Innovative Research Issue 3 (IV): July - September, 2018	ISSN 2394-7780			
		EFFE	T OF SOME OXA-AZA HETEROCYCLES ON SEED GERMINATI AESTIVAM L (WHEAT) AND CUCURBITA MAXIMA L. (CUC				
		6	Deelip K. Swamy ¹ , M. V. Deshmikh ² and S. V. Pahade ¹ Assistant Professor ² , Department of Chemistry, Pratible Nikotan Mahavidy ² P.G. Department of Chemistry, Science College, Nasded Assistant Professor ³ , Department of Chemistry, VIVA College, Ma				
		triazolo-(3, soud to fin undertaken	T estigation deals with historarying of synthesized Triazolobenzisoaazole of 4-bit, 2-benzisoaazole and 3-bydroxy-1, 2-4-triazolo-(5,4-b)t, 2-benzisoazzo d out their plant regulatory activity in the confined environment of lab to investigate their effect on germination of seeds of two plants viz. Triticus navina L. (Cucamber).	le. The compounds were reasory. Experiment was			
			3-hydroxy-1,2,4-triazolo-(3,4-b)1,2-benzisosazole, plant regulatory activity 4-b)1,2-benzisosazole.	seed permination, 1,2,4-			
		In the biological process physiology of the plant, growth & development are related to the chemical reaction taking place in the plant bodies. From the earlier reports it is found that some of the fused triazole systems are very active as plant protective agents and as plant growth stimulants. Allon ⁷ reported wisle applications of 3- amino 1.2,4-triazole. Amizol and some of its derivatives have been found to be useful as defoilants. The defoilating effect of this compound appears to be due to the destruction of chlorophyll ⁷ . Much work was carried out on the chemical nature of anxins ^{14,5} . Some derivatives of the following type bakels-acetaldehyde, hadde- 3-pyrtoric acid, Indole-3-acetomatrile, Indole-3-thasod, indicated their close relationship to the parent structure Indoleaceticacid. The effect of Benzothiazolyl hydrazones and naphthathiazolyl hydrazones on seed germination was studied for the seeds of Wheat, Kakadi and Devdarger ⁶ . The compounds synthesized were evaluated for various types of bioasnay screening. Hence, studies were undertaken to observe the effect of the synthesized compounds on seed germination. For this purpose the seeds of Wheat and Cacumber were selected.					
		EXPERIMENTAL.					
	Materials and Physical measurements The chemicals and reagonts used for the synthesis were obtained from commercial sources. Solvents were distilled from an appropriate drying agent. All other chemicals and solvents were of analytical grade.						
	Triazolobenziornazoles narmely 1,2,4-Triazolo-(3,4-b)1,2-benziornazole ² analogue of 1,2,4-triazolo(3,4-b)1,2- benzothiazole ² and 3-Hydroxy-1,2,4-triazolo-(3,4-b)1,2-benziornazole were prepared ² .						
		R=H: 1.2,	4-Triando-(3,4-b)1,2-benzistotandr				
		R=OH: 3-	Hydroxy-1,2,4-triazolo-(3,4-b)1,2-benzisoxazole				
		Fig-1 Stru	ture of Trianolobentiacoacoles				
enlistr	the recognition i nent of the Journa Identifier (doi) n	al / Digital	https://iaraedu.com/pdf/ijair-volume-5-issu	e-3-iv-july-september-2018.pdf			

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Sr. No	Name of the Faculty	Title of the Paper	Year – 2018-19			
10	Dr. Sameer Mapari	Production of fungal pigments as potential natural colorants for various industrial applications				
ISSN	2349-5162 (Journal of Emerging Technologies and Innovative Research)					
	© 2019 JETIR May 2019, Volume 6, Issue 5	www.jetir.org (ISSN-2349-5162)			
	PRODUCTION OF FU	JNGAL PIGMENT	TS AS			
	POTENTIAL NATURAL COLORANTS FOR					
VARIOUS INDUSTRIAL APPLICATIONS						
	Department 0	rker O.N. and *Mapari, S.A.S. Of Biotechnology, Virar, Mumbai, India				
	healthy image [kumar et al.]. Fungal pigment production over agro-climatic conditions, and thereby minimizing filamentous fungi was tested. Five different lab strains production was assessed on five different solid media dextrose agar and Czapek yeast extract agar, by two production in Czapek'sdox broth. Extraction of pigments solid and liquid media. One of the fungal strains produce methanol, while intracellular pigments were extracted in liquid media. Crude pigment extracts were characterized promising pigment producing fungal strains and their was	Abstract:Natural colorants are preferred over synthetic colorants owing to their tremendous marketing potential and healthy image [kumar et al.]. Fungal pigment production offers higher yields, varied color range and independence over agro-climatic conditions, and thereby minimizing batch to batch variations. Pigment producing ability of filamentous fungi was tested. Five different lab strains of filamentous fungi were used in present study. Pigment production was assessed on five different solid media. Pigment producing ability was expressed in Sabouraud's dextrose agar and Czapek yeast extract agar, by two different fungal strains. One of them expressed pigment production in Czapek'sdox broth. Extraction of pigments was performed using polar and non-polar solvents from both solid and liquid media. One of the fungal strains produce extracellular pigment in solid media which was extracted in methanol, while intracellular pigment swere extracted in hexane. Also, extracellular Polar pigments were produced in liquid media. Crude pigment extracts were characterized spectrophotometrically. The present study brought out two promising pigment producing fungal strains and their water soluble colorants. Further work is in progress in terms of toxicity evaluation of crude pigment extract and process optimization for optimal pigment production[Nielsen S. R. et al. 2002].				
	rum of applications natives of synthetic s is rising due to the rived colorants have ingredients. Among grown easily under lower yields and/or ion, higher yields, d pigments[Dufosse ever their ability to ssfully used as food otential of pigment of the commercially					
Pigment producing ability of fungi is dependent on media and/or culture conditions. Submerged Liquid fermentation is preferred in industries due to easy product recovery and standardized culture conditions. Studying the morphology and pigment producing ability of microorganisms and substrate choice is equally important as they can be manipulated to get desired products, higher yields and convenient procedures. Present study was carried out to test the hypothesis that the pigment production by filamentous fungi can be regulated by changing media and/or culture conditions, and pigments of newer color hues with better functionality can be obtained.						
Link to	ink to the recognition in UGC enlistment of the Journal <u>https://www.jetir.org/papers/JETIR1905I02</u>					

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Sr. No Name of the Faculty **Title of the Paper** Year - 2018-19 11 Dr.Arti Dubey Fly ash as a adsorbent for removal of heavy metal : a review ISSN 2348-1269 (INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS (IJRAR.ORG) © 2019 IJRAR February 2019, Volume 6, Issue 1 www.ljrar.org (E-ISSN 2348-1269, P-ISSN 2349-5138) FLY ASH AS A ADSORBENT FOR REMOVAL **OF HEAVY METAL: A REVIEW** Lalita Goyal¹, M.K.Dwivedi², Arti Dubey³ and Dipak Sharma^{4*} ¹Department of Chemistry, M.L.C.Govt. Girls College, Khandwa, MP, India ²Department of Chemistry, Hollkar Science College, Indore, MP, India ³Department of Chemistry, Viva College, Virar, Thane, MH, India ⁴Department of Chemical Sciences, Maharaja Ranjit Singh College, Indore, MP, India Abstract: Adsorption is a fundamental process in the physicochemical treatment of wastewaters. The coal fly ash is a waste material that generate from industrial processes. It is a cheap, eco-friendly and bio degradable material. Long term exposure of human bodies to heavy metals susceptible to receives various infection and diseases from an environmental and economic perspective. Adsorption is acceptable process that can be applied in wastewater treatment, these waste materials pollute our environment or ecosystem and pose the problem of their disposal so "use waste to treat the water" is the concept to avoid the environment pollution. The application of available adsorption models such as the isotherm, kinetics and thermodynamics as well as the influence of parameter on metal adsorption by low cost adsorbent shall be reviewed to understand the adsorption mechanism of low-cost adsorbent. In this review study the chemical composition of different coal fly ash and fly ash for the removal of heavy metal ions are summarized. Keywords: Fly ash, Heavy metals, Adsorption, Environment, Wastewater. Introduction Quality of water and management of waste is most important proposition in human life. Accretion of technologies in industrialization and urbanization lead to increase in percentage accumulation of waste all around the globe and release of heavy metal in the water streams from different activities such as industrial, agricultural and domastic1. Water is a basic source of life and thus is essential element to all living things on earth. Technological development and industrial activities cause heavy metal pollution is posing significant threats to the public health and environment because of its toxicity, non-biodegradability, bioaccumulation and persistent tendency through food chain2. Process of adsorption is operate in chemical, biological and physical system for the use of removing substances from any liquid or gaseous solution. Adsorption process involve separation of a substance from one phase accompanied by its concentration at the surface of another involves adsorption. Adsorption efficiency depends on activated carbon, temperature, pH and adsorbate. Heavy metals from industrial wastewater can be removed by adsorbent3. Heavy metals are toxic in nature therefore it is essential to remove from wastewater. Adsorption is very common method for removal of heavy metals from wastewater. So many researchers used fly ash as adsorbent for removal of organic material and heavy metals from wastewater4. The aim and objective of this review paper is to provide fundamental information and literature in fly ash as a adsorbent for removal of heavy metals Link to the recognition in UGC enlistment of the https://ijrar.org/papers/IJRAR19J2070.pdf Journal / Digital Object Identifier (doi) number

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Sr. No	Nar	me of the Faculty	Title of the Paper	Year – 2018-19		
12	Kavita Patil		बोलीभाषा आणि साठोत्तरी वाङ्मयीन	न प्रवाह दलित कविता		
ISSN	2277-5730 (AJ	2277-5730 (AJANTA - AN INTERNATIONAL MULTIDISCIPLINARY QUARTERLY RESEARCH JOURNAL Volume - VII)				
		प्रधान गणि, ISSUE-1- JANUARY - MARCH MANTA - ISSN 2277 - 5730 - IMPACT FA २८. बोलीभग्रषा आणि साठोत प्रा. व विवारांची देवाणघेवाण करण्यासाठी आ बनाला धातली. गापा ही मानवाच्या अंतःधेरणेव बस्वरांना कळण्याचे साधन म्हणून ध्वनिरूप माय "अनुरुम" ध्वनिरघनेच्या अर्थ संकेतीकरण कोचे : । संचर्डनंहम पे 'तजपवनसंजमव बी'मगच्रतमेपवदण असे मापेचे स्वरूप आहे. यावरून माथा देळी स्थेयं आणि अरथेयं असे परस्पर विरुद्ध गु मानवी संस्कृतीचा 'माथा' हा एक अवि मानवी बुध्दीगम्यतेचे एक प्रमुख लक्षण आहे. माया आणि बोली परस्परसंबंध 'माथा' ही साहित्याचे कलादच्या आहे साहित्याचे साधन ही आहे आणि माध्यमही आहे 'साहित्याचे साधन ही आहे आणि माध्यमही आहे साहित्याचे साधन ही आहे आणि वार्डमय हे सब्दरूप सेखनाविष्ठित (मापारूप) असे असल्यामुळे सो अशी होते. 'योलीमायेतून लेखन' म्हणजे दलित. अ तत्वारीने वर्धसंघर्षाची जाणीव, अन्यायाविरू बखादेरीन वर्धसंघर्षाची जाणीव, अन्यायाविरू बखादेरना, अन्याय अत्याचाराचा प्रसुख व्यवत कवितेये. आज गण नाहे/आज नाहे म्हाळसा/ आजवा दिवृरा हाय माझा/ सुगीत हरल रथलांतरिताचं जगणं ज्याच्या वाटयाद करणा–याच एक विश्व आहे. या जगाला संघ	2019 CTOR - 5.5 (अभभभ्भोंमतराजरावा) की वाङ्मपदीन प्रवाह दलित कविता कविता पाटील पालय, वियस (ग.). भे दैनंदिन व्यवहार करण्यासाठी भागवाने भाषासंस्था द जन्माला आलेले नसून विवर, मानना आणि कल्पना त वारा झाल. 10 व आधारीत अशी संझा प्रणाली म्हणजे माथा होय. 4 पउपजगक वनवक वसहंदयेगक वित जीम बनतवर्वम ही नित्य परिवर्तनशील अशी वस्तू असून तिव्यात एकाव ए असतात. 11 जव पठक आहे, माषाव्यवहार आणि माथानिर्मिती ही तर बोली हे लोकसाहित्यांचे कलादव्य ठरते. भाषा हे तर बोली हे लोकसाहित्यांचे कलादव्य ठरते. भाषा हे तर बोली हे लोकसाहित्यांचे कलादव्य ठरते. भाषा हे तर बोली हे लोकसाहित्यांचे सायन आणि माध्यम आहे क वाणीरूम उच्चराधिष्ठित (बोलीरूप) आणि स्यूरने म्हटल्याप्रमाणे ती एकावबेळी अमूर्त आणि सम्पूर् प्रेष्ठीत, समाजाच्या हातातील लेखनरूपी तलवार होय. या एव आवाज वदवत सवर्णाची लततरे ख–या अर्थाने येखे वावाज वदवत सवर्णाची लतरारे ख–या अर्थाने होईल असे आपल्याच बोलीतील आणि सायन निवडले ते आज नहे विलया/ आज नहे खंडोबा/ तो जा को धोरासाठी गोरामाप्रमाणे रथतांसर करून कर्ष्ट धीवा पाखरांचा 11 आलं, पोरासाठी गोरामाप्रमाणे रथतांसर करून कर्ष्ट धीवा पाखरांचा 12 आतं, पोरासाठी गोरामाप्रमाणे रथतांगितले जाते. भेदिक हा या वावेता पेण्याच 'भेदिक' सांगितले जाते. भेदिक हा			
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