

## প্রবহমান বাংলাচর্চা

একটি সাংস্কৃতিক প্রতিষ্ঠান  
রেজিস্ট্রেশন নম্বর - S/21/62330 of 2016-17

শংসোপত্র

এতদ্বারা জানানো যাচ্ছে যে, প্রবহমান বাংলাচর্চা এবং প্রতিবেশী রাষ্ট্র গণপ্রজাতন্ত্রী বাংলাদেশের পাবনা বিভাগ ও  
প্রযুক্তি বিশ্ববিদ্যালয়ের যৌথ উদ্যোগে অনুষ্ঠিত তৃতীয় আন্তর্জাতিক আলোচনাচক্রে উপস্থাপিত গবেষণামূলক নিবন্ধসমূহের মধ্যে

সামগ্রিক দাখল  
ফপিনামসমূহের বাংলা মুদ্রি

বিশেষজ্ঞদের দ্বারা প্রশংসিত হয়েছে ও চূড়ান্ত নির্বাচনে সেটি প্রথম স্থান অধিকার করেছে।

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প্রবহমান বাংলাচর্চা  
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প্রবহমান বাংলাচর্চা

সম্মানিত  
প্রবহমান বাংলাচর্চা



# International Conference on Advancement in Science & Technology (ICAST-2018)

3<sup>rd</sup> & 4<sup>th</sup> September, 2018

Visva-Bharati, Santiniketan, India

Organized by

Indian JSPS Alumni Association

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Department of Physics, Visva-Bharati

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in ..... *Mathematical Science* .....

*By 4/9/18*

Prof. Ashis Bhattacharjee  
Organizing Secretary





Jayanta Bal &lt;jayanta.bal@gmail.com&gt;

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**Fwd: Reminder: Journal of Physical Science**

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**Pradip Kumar Ghosh** <pradipghosh2002@gmail.com>  
To: Jayanta Bal <jayanta.bal@gmail.com>

Fri, Apr 26, 2019 at 1:00 PM

Journal of Physical Science

ID . JPS- 0A-18-0140

----- Forwarded message -----

From: Journal of Physical Science <[onbehalf@manuscriptcentral.com](mailto:onbehalf@manuscriptcentral.com)>  
Date: Sat 10 Nov, 2018, 2:45 PM  
Subject: Reminder: Journal of Physical Science  
To: <[pradipghosh2002@gmail.com](mailto:pradipghosh2002@gmail.com)>

10-Nov-2018

Dear Dr. Ghosh:

Recently, I invited you to review Manuscript ID JPS-OA-18-0140, entitled "Effects of Biopolymer Surfactants on the Morphology and Optical Properties of ZnS Nanocrystalline Thin Film." I have yet to hear from you about this.

This e-mail is simply a reminder to respond to the invitation to review. I appreciate your help in accomplishing our goal of having an expedited reviewing process.

You may e-mail me with your reply or click the appropriate link at the bottom of the page to automatically register your reply with our online manuscript submission and review system. If you are unable to review at this time, I would appreciate you recommending another expert reviewer.

Please do not hesitate to contact me if I can be of any assistance.

Sincerely,  
Journal of Physical Science  
Journal of Physical Science Editorial Office  
[zulkiflimusa@gmail.com](mailto:zulkiflimusa@gmail.com)

\*\*\* PLEASE NOTE: This is a two-step process. After clicking on the link, you will be directed to a webpage to confirm. \*\*\*

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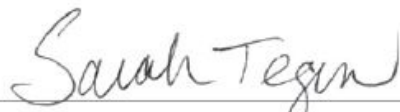
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**March 26, 2019**

Dr. JK Bal

Univ Calcutta

Ctr Res Nanosci & Nanotechnol

Technol Campus

Block JD2, Sect 3, Kolkata 700098, India.; Bal, JK, Univ Burdwan, Abhedananda  
Mahavidyalaya, Dept Phys, Birbhum 731234, W Bengal

India

Dear Dr. Bal,

In view of your expertise in the field, your name has been recommended as a potential reviewer for the manuscript entitled **“Preparation of chitosan/alginate-ellagic acid sustained-release microspheres and their inhibition of preadipocyte adipogenic differentiation”** that has been submitted for publication in **Current Pharmaceutical Biotechnology**. Please review the abstract if it comes in your field of expertise and provide us your willingness to review the complete manuscript. I hope that you will be able to help us.

In addition we would like to propose your name, as a reviewer, to the Reviewer Panel for other Bentham journal relevant to your field of expertise. The BSP Reviewer Portal will offer reviewers the following discounts on BSP services:

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As a member of our Reviewer panel, you would be expected to review a **maximum** of 3 articles every year.

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Thank you for your consideration.

Regards,

**Noureen Azhar**

Editorial Manager

**Title:** Preparation of chitosan/alginate-ellagic acid sustained-release microspheres and their inhibition of preadipocyte adipogenic differentiation

**Abstract:** Objective: In this study, chitosan/alginate-ellagic acid sustained-release microspheres were prepared with chitosan and sodium alginate as wrapper, and the effect of sustained-release microspheres on preadipocyte adipogenic differentiation was analyzed. Methods: Chitosan/alginate-ellagic acid microspheres were identified by scanning electron microscopy (SEM) and infrared spectroscopy (IR), and release rates at 3, 6, 12, 24, 36 h and at pH 6.8, 7.0, 7.2, 7.4 were measured to observe sustained release of ellagic acid from microspheres. The effects of 0.1, 0.2, 0.4 g/L chitosan/alginate-ellagic acid microsphere on 3T3-F442A preadipocyte proliferation at 6, 12, 24, and 36 h were detected by Methyl thiazolyl tetrazolium assay (MTT), and cell morphology was observed by hematoxylin/eosin staining (HE staining). The effect of chitosan/alginate-ellagic acid microspheres on preadipocyte adipogenic differentiation was observed by Oil red O staining, and lipogenesis was measured by isopropanol extraction. The molecular mechanism was explored by detecting the mRNA expression of CCAAT/enhancer binding protein alpha (C/EBP $\alpha$ ) and peroxisome proliferators-activated receptor gamma (PPAR $\gamma$ ). Results: Chitosan/alginate-ellagic acid sustained-release microspheres were successfully prepared, and the inhibition of microspheres on the proliferation and adipogenic differentiation of preadipocytes was in a dose-dependent manner. The mechanism of differentiation inhibition was closely related to the expression of transcription factor C/EBP $\alpha$  and PPAR $\gamma$ . Conclusion: Chitosan/alginate could be used as wrapping material to prepare ellagic acid sustained-release microspheres, and these microspheres have sustained-release value in treating obesity.

**October 5, 2018**

Dr. JK Bal

Univ Burdwan

Abhedananda Mahavidyalaya

Sainthia 731234

India.

Dear Dr. Bal,

In view of your expertise in the field, your name has been recommended as a potential reviewer for the manuscript entitled **“Exploring the origin of the chiral gauche-conformation preferences in halomethyl methyl ethers. The importance of the hyperconjugative interactions”** that has been submitted for publication in **Letters in Organic Chemistry**. Please review the abstract if it comes in your field of expertise and provide us your willingness to review the complete manuscript. I hope that you will be able to help us.

For aims and scope, instructions for authors and other information about the journal please log on to <http://benthamscience.com/journals/letters-in-organic-chemistry/>

I would appreciate if you could kindly respond to this message at your earliest. Since we are endeavoring to provide an efficient review process for our authors, we would request that send your comments and recommendations back to us as soon as possible.

Thank you for your consideration.

Regards,

**Sumayya Azhar**

Editorial Manager

Email: [editorial@benthamscience.org](mailto:editorial@benthamscience.org)

**Title:** Exploring the origin of the chiral gauche-conformation preferences in halomethyl methyl ethers. The importance of the hyperconjugative interactions

**Abstract:** The impacts of the hyperconjugative interactions, pairwise steric exchange energies (PSEE) and the electrostatic model associated with dipole-dipole interactions on the structural and conformational properties of fluoromethyl methyl ether (1) and its analogues containing Cl (2), Br (3) and I (4) atoms were investigated by means of hybrid-density functional based method (B3LYP/Def2-TZVPP) and natural bond orbital (NBO) interpretation. In consistence with the reported experimental data, the chiral gauche-conformations of compounds 1-4 are more stable than their corresponding anti conformations. The energy barriers of the racemization processes of the chiral gauche-conformations of compounds 1-4 via the plane symmetrical anti-conformations are smaller than the passing from the plane symmetrical eclipsed transition structures. The NBO analysis revealed that the increase of the total hyperconjugative generalized anomeric effect (HCGAE<sub>total</sub>) from compound 1 to compound 4 correlates well with the increase of the energy differences between their corresponding chiral gauche- and anti-conformations. Contrary to the trend observed for the HCGAE, the calculated dipole moment differences between the gauche- and anti-conformations,  $\mu_{anti} - \mu_{gauche}$ , decrease going from compound 1 to compound 4. This fact reveals that there is no correlation between the variations of the gauche-conformation preferences in compounds 1-4 and their corresponding electrostatic effects associated with the dipole-dipole interactions. There are excellent agreements between the racemization energy barriers and the proportion between the HCGAE<sub>total</sub> for compounds 2-4 and compound 1 (i.e. HCGAE<sub>x</sub>/HCGAE<sub>1</sub>) and also the difference between the bond orders (Wiberg bond indices (WBI) of C1-O bonds ( $[WBI(C1-O2)_{anti} - WBI(C1-O2)_{gauche}]$ ). The correlations between the HCGAE, pairwise steric exchange energies (PSEE), WBI, dipole moments, orbital integrals, structural parameters and conformational behaviors of compounds 1-4 have been investigated.

Dear Dr. Bal,

The Journal of Applied Physics has received a paper on Growth and electronic properties of nanolines on TiO<sub>2</sub>-terminated SrTiO<sub>3</sub>(001) surfaces. As an expert in this field, would you be willing to review this paper and provide your comments? I hope that this paper is of interest to you.

Manuscript Number: JR17-2544R

Title: "Growth and electronic properties of nanolines on TiO<sub>2</sub>-terminated SrTiO<sub>3</sub>(001) surfaces"

Authors: Wei Yan, Wattaka Sitaputra, Marek Skowronski, and Randall Feenstra

**Abstract:**

Surfaces of homoepitaxially grown TiO<sub>2</sub>-terminated SrTiO<sub>3</sub>(001) were studied in situ with scanning tunneling microscopy and spectroscopy. By controlling the Ti/Sr ratio, two-dimensional domains of highly ordered linear nanostructures, so-called "nanolines", are found to form on the surface. To further study how the surface structure affects the band structure, spectroscopic studies of these surfaces were performed. Our results reveal significantly more band bending for surfaces with the nanolines, indicative of an acceptor state associated with these features. Additionally, an in-gap state is observed on nanoline surfaces grown under high oxygen deficient conditions. This state appears to be the same as that observed previously, arising from the (++) transition level of surface oxygen vacancies.



**January 15, 2017**

Dr. JK Bal

Univ Maine

Fac Sci

IMMM

LUNAM Univ, UMR CNRS 6283, F-72000 Le Mans 9

France.

Dear Dr. Bal,

In view of your expertise in the field, your name has been recommended as a potential reviewer for the manuscript entitled “**Aneuploidy-Inducing Mutations in Mitotic Checkpoint Protein hMad1Carboxi Terminal Domain Analysed by SAR and Computational Mutagenesis**” that has been submitted for publication in **Current Proteomics**. Please review the abstract if it comes in your field of expertise and provide us your willingness to review the complete manuscript. I hope that you will be able to help us.

For aims and scope, instructions for authors and other information about the journal please log on to <http://benthamscience.com/journals/current-proteomics/>

I would appreciate if you could kindly respond to this message at your earliest. Since we are endeavoring to provide an efficient review process for our authors, we would request that send your comments and recommendations back to us as soon as possible.

In case you are unable to review the manuscript for some reason, I shall be grateful if you could kindly help us by recommending one or more names of suitable potential reviewers to this paper.

Thank you for your consideration.

Regards,

**Sumayya Azhar**

Editorial Manager

Email: [editorial@benthamscience.org](mailto:editorial@benthamscience.org)

**Title:** Aneuploidy-Inducing Mutations in Mitotic Checkpoint Protein hMad1 Carboxi Terminal Domain  
Analysed by SAR and Computational Mutagenesis

**Abstract:** At cellular level, the normal chromosome segregation is ensured both by the intrinsic mechanics of mitosis and by a properly functioning error-checking spindle assembly checkpoint (SAC). Protein Mad1 (the mitotic arrest-deficient) function, one of important component of SAC, is critical to prevent cellular aneuploidy, process which lead to genetic diseases such as cancer or bipolar disease. To clarify the role of aneuploidy in genetic diseases, a number of spindle checkpoint proteins wild type (wt) and mutants have been studied, but till now the process is not clearly understood. Here, we report a number of 32 Mad1 mutants (8 already known to induce aneuploidy or induced the Mad1 dimer destabilization and de novo 24 mutants design by us as proposed for computational study of induced-aneuploidy) at critical Mad1 carboxi terminal domain (CTD) represented by residues 598-718. Their critical molecular features (electronic, steric, and also the descriptors derived directly from amino acids sequence: counts of atom and bound types, dihedral angles) were calculated and compared by SAR (structure-activity relationships) in order to elucidate a possible contribution of these Mad1 mutants to initiation or not initiation of aneuploidy. Our results suggested that in the Mad1 mutants and wt, molecular descriptors including protein solvent accessible areas and its derivatives, torsion and solvation energies could be important in aneuploidy.



Jayanta Bal &lt;jayanta.bal@gmail.com&gt;

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**Invitation to Review Manuscript la-2016-02414z**

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**Langmuir** <onbehalf+of+takahara-office+langmuir.acs.org@manuscriptcentral.com>

Thu, Jul 14, 2016 at 8:39 PM

Reply-To: takahara-office@langmuir.acs.org

To: jayanta.bal@gmail.com

14-Jul-2016

Journal: Langmuir

Manuscript ID : la-2016-02414z

Title : "Mesoscopic Simulations of Adsorption and Association of PEO-PPO-PEO Triblock Copolymers on a Hydrophobic Surface: From "Mushroom" Hemisphere to "Rectangle" Brush"

Author(s): Song, Xianyu; Duan, Ming; Fang, Shenwen; Shi, Peng; Ma, Yongzhang

Dear Dr. Bal:

This manuscript has been submitted for publication in Langmuir. The abstract for this manuscript is available at the end of this message. I would greatly appreciate if you would agree to review this manuscript for Langmuir.

If you are able to review this manuscript, I would appreciate receiving your review within three weeks. The hyperlinks below can be used to accept or decline this invitation automatically:

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For the convenience of our authors, ACS offers a manuscript transfer service. If this manuscript is not suitable for Langmuir, I may suggest the author consider a transfer to another ACS journal. If the author accepts the offer of transfer, your review of the manuscript will also be transferred. Please be assured that your review will be handled with the same confidentiality in the next ACS journal as in Langmuir.

Sincerely,

Prof. Atsushi Takahara

Associate Editor

Langmuir

Phone: 81-92-802-2517

Fax: 202- 204 - 0972

Email: [takahara-office@langmuir.acs.org](mailto:takahara-office@langmuir.acs.org)

\*\*\*\*\*

Manuscript Abstract for la-2016-02414z:

The dissipative particle dynamics (DPD) method is used to investigate the adsorption behavior of PEO-PPO-PEO triblock copolymers at the liquid/solid interface. The effect of molecular architecture on the self-assembled monolayer adsorption of PEO-PPO-PEO triblock copolymers on hydrophobic surfaces is elucidated by adsorption process, film properties, adsorption morphologies, respectively. The adsorption thicknesses on hydrophobic surfaces and diffusion coefficient as well as aggregation number of Pluronic copolymers in aqueous solution observed in our simulations agree well with previous experimental and numerical observations. The radial distribution function revealed that the ability of self-

assembly on hydrophobic surfaces: P123 > P84 > L64 > P105 > F127 which increased with the EO ratio of the Pluronic copolymers. Moreover, the shape parameter and the degree of anisotropy increase with increasing the molecular weight and mole ratio of PO of the Pluronic copolymers. Depending on the conformation of different Pluronic copolymers, the morphology transition of three regimes on hydrophobic surfaces is present: “mushroom” or hemisphere, “progressively semi ellipsoid”, and “rectangle” brush regimes induced by decreasing molecular weight and mole ratio of EO of the Pluronic copolymers.

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Jayanta Bal &lt;jayanta.bal@gmail.com&gt;

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**JAP: MS #JR17-2544R Request to Review**

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**jap-edoffice@aip.org** <jap-edoffice@aip.org>

Sat, Aug 26, 2017 at 12:59 AM

Reply-To: jap-edoffice@aip.org

To: jayanta.bal@gmail.com

Dear Dr. Bal,

The Journal of Applied Physics has received a paper on Growth and electronic properties of nanolines on TiO<sub>2</sub>-terminated SrTiO<sub>3</sub>(001) surfaces. As an expert in this field, would you be willing to review this paper and provide your comments? I hope that this paper is of interest to you.

Manuscript Number: JR17-2544R

Title: "Growth and electronic properties of nanolines on TiO<sub>2</sub>-terminated SrTiO<sub>3</sub>(001) surfaces"

Authors: Wei Yan, Wattaka Sitaputra, Marek Skowronski, and Randall Feenstra

**Abstract:**

Surfaces of homoepitaxially grown TiO<sub>2</sub>-terminated SrTiO<sub>3</sub>(001) were studied in situ with scanning tunneling microscopy and spectroscopy. By controlling the Ti/Sr ratio, two-dimensional domains of highly ordered linear nanostructures, so-called "nanolines", are found to form on the surface. To further study how the surface structure affects the band structure, spectroscopic studies of these surfaces were performed. Our results reveal significantly more band bending for surfaces with the nanolines, indicative of an acceptor state associated with these features. Additionally, an in-gap state is observed on nanoline surfaces grown under high oxygen deficient conditions. This state appears to be the same as that observed previously, arising from the (++) transition level of surface oxygen vacancies.

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R. K. Kotnala

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Jayanta Bal &lt;jayanta.bal@gmail.com&gt;

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## Reviewer Invitation for SM14-981

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**Superlattices and Microstructures** <superlattices@elsevier.com>  
To: jayanta.bal@gmail.com

Wed, Nov 5, 2014 at 6:09 PM

Ref.: SM14-981

Title: Room Temperature Ferromagnetism and Optical Property of Zn<sub>1-x</sub>CoxS Nanorods

Authors: Jinghai Yang; Haifeng Niu; Jian Cao; Donglai Han; Shuo Yang; Qianyu Liu; Tingting Wang

Dear Dr. Jayanta Kumar,

I invite you to review the above referenced manuscript for Superlattices and Microstructures. I would be grateful for your opinion on its suitability for publication.

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With our thanks in advance for your cooperation.

Yours sincerely,

Xinqiang Wang  
Editor  
Superlattices and Microstructures

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In this paper, ZnS:Co<sup>2+</sup> nanorods (NRs) have been synthesized by a simple hydrothermal method with ethylenediamine as the oriented-assembly agent at 180 °C. The results showed that the Co<sup>2+</sup> ions substituted for the Zn<sup>2+</sup> sites in the host ZnS, and the maximum concentration of the Co<sup>2+</sup> ions in the ZnS NRs was 4.69%. No Co-related emission peak can be observed and the emission intensity of the ZnS:Co<sup>2+</sup> NRs was decreased, indicating that the Co<sup>2+</sup> ions only acted as the nonradiative center. The Zn<sub>1-x</sub>Co<sub>x</sub>S NRs showed the room temperature ferromagnetism property, and the Ms value was increased as the Co<sup>2+</sup> doped ratio increased.

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