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# Biology

Author(s) Choudhary, Amit G.; Somalwar, Amita R.; Sagarkar, Sneha; **Rale, Abhishek**; Sakharkar, Amul; **Subhedar, Nishikant K.** and Kokare, Dadasaheb M.

Title CART neurons in the lateral hypothalamus communicate with the nucleus accumbens shell via glutamatergic neurons in paraventricular thalamic nucleus to modulate reward behavior

Name of the Journal Brain Structure and Function

Vol. No. 223

Issue No. 03

Page No. 1313-1328

Date of Publication 06-April-2018

Name of the Publisher Springer Nature

DOI [10.1007/s00429-017-1544-6](https://doi.org/10.1007/s00429-017-1544-6)

Author(s) Anandi, Libi and **Lahiri, Mayurika.**

Title DNA-PK: A Perpetrator in Disguise

Name of the Journal Journal of Cell Signaling

Vol. No. 03

Issue No. 02

Date of Publication 18-April-2018

Name of the Publisher OMICS International

DOI [10.4172/2576-1471.1000184](https://doi.org/10.4172/2576-1471.1000184)

Author(s) **Natarajan, Bhavani; Kalsi, Harpreet S.; Godbole, Prajakta; Malankar, Nilam;** Thiagarayaselvam, Aarthy; Siddappa, Sundaresha; Thulasiram, Hirekodathakallu V.; Chakrabarti, Swarup K. and **Banerjee, Anjan K.**

Title MiRNA160 is associated with local defense and systemic acquired resistance against Phytophthora infestans infection in potato

Name of the Journal Journal of Experimental Botany

Vol. No. 69

Issue No. 08

Page No. 2023-2036

Date of Publication 03-April-2018

Name of the Publisher Oxford University Press

DOI [10.1093/jxb/ery025](https://doi.org/10.1093/jxb/ery025)

# Chemistry

Author(s) Sarabadani, Jalal; **Ghosh, Bappa; Chaudhury, Srabanti** and Tapio Ala-Nissila.  
Title Dynamics of end-pulled polymer translocation through a nanopore  
Name of the Journal Europhysics Letters  
Vol. No. 120  
Issue No. 03  
Date of Publication 30-Jan-2018  
Name of the Publisher IOP Science  
DOI <https://doi.org/10.1209/0295-5075/120/38004>

Author(s) **Devendrachari, Mruthyunjayachari Chattanahalli; Basappa, Chidananda; Thimmappa, Ravikumar; Bhat, Zhahid Manzoor; Kotresh, Harish Makri Nimbegondi; Kottaichamy, Alagar Raja; Varhade, Swapnil; Khaire, Siddhi; Venugopala Reddy, Kallam Ramareddy and Musthafa, O.T.**  
Title An all Solid State Zinc Air Battery with a Corrosion Resistant Air Electrode  
Name of the Journal ChemElectroChem  
Vol.No 05  
Date of Publication 25-Apr-2018  
Name of the Publisher John Wiley & Sons  
DOI <https://doi.org/10.1002/celc.201800269>

Author(s) **Singh, Divya** and **Chaudhury, Srabanti.**  
Title Single-Molecule Kinetics of an Enzyme in the Presence of Multiple Substrates  
Name of the Journal ChemBioChem  
Vol. No. 19  
Issue No. 08  
Page No. 842 –850  
Date of Publication 23-Mar-2018  
Name of the Publisher John Wiley and Sons  
DOI <https://doi.org/10.1002/cbic.201700695>

Author(s) **Rajput, Jayashree; Hotha, Srinivas** and **Vangala, Madhuri.**  
Title AuBr<sub>3</sub>-catalyzed azidation of per-O-acetylated and per-O-benzoylated sugars  
Name of the Journal Beilstein Journal of Chemistry  
Vol. No. 14  
Page No. 682-687  
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DOI [10.3762/bjoc.14.56](https://doi.org/10.3762/bjoc.14.56)

Author(s) **Koninti, Raj Kumar; Satpathi, Sagar and Hazra, Partha.**  
Title Ultrafast Fluorescence Dynamics of Highly Stable Copper Nanoclusters Synthesized inside the Aqueous Nanopool of Reverse Micelles  
Name of the Journal Journal of Physical Chemistry C  
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DOI [10.1021/acs.jpcc.7b11457](https://doi.org/10.1021/acs.jpcc.7b11457)

Author(s) **Paithankar, Harshad;** Jadhav, Pankaj V.; Naglekar, Amit S.; Sharma, Shilpy and **Chugh, Jeetender.**  
Title H-1, C-13 and N-15 resonance assignment of domain 1 of trans-activation response element (TAR) RNA binding protein isoform 1 (TRBP2) and its comparison with that of isoform 2 (TRBP1)  
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DOI [10.1007/s12104-018-9807-6](https://doi.org/10.1007/s12104-018-9807-6)

Author(s) **Samanta, Partha; Desai, Aamod V.; Sharma, Shivani; Chandra, Priyanshu and Ghosh, Sujit K.**  
Title Selective Recognition of Hg<sup>2+</sup> ion in Water by a Functionalized Metal-Organic Framework (MOF) Based Chemodosimeter  
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Author(s) **Roy, Bibhisan; Reddy, Mallu Chenna** and Hazra, Partha.  
Title Developing the structure-property relationship to design solid-state multi-stimuli responsive materials and their potential applications in different fields  
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Author(s) **Satpathi, Sagar; Singh, Reman K.; Mukherjee, Arnab** and **Hazra, Partha.**  
Title Controlling anticancer drug mediated G-quadruplex formation and stabilization by a molecular container  
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Author(s) **Hazra, Amrita B.;** Ballou, David P.; Tag, Michiko E.  
Title Unique Biochemical and Sequence Features Enable BluB To Destroy Flavin and Distinguish BluB from the Flavin Monooxygenase Superfamily  
Name of the Journal Biochemistry  
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Author(s) **Puthusseri, Dhanya; Wahid, Malik; Basu, Aniruddha; Babar, Rohit; Kabir, Mukul** and **Ogale, Satishchandra.**  
Title F-doped carbon nano-onion film as scaffold for highly efficient and stable Li metal anode: A novel laser direct-write process  
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Author(s) **Mir, Wasim J.**; Livache, Clement; Goubet, Nicolas; Martinez, Bertille; Jagtap, Amardeep; Chu, Audrey; Coutard, Nathan; Cruguel, Herve; Barisien, Thierry; Ithurria, Sandrine; **Nag, Angshuman**; Dubertret, Benoit; Ouerghi, Abdelkarim; Silly, Mathieu G. and Lhuillier, Emmanuel.

Title Strategy to overcome recombination limited photocurrent generation in CsPbX<sub>3</sub> nanocrystal arrays

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Vol. No. 112

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Date of Publication 16-Mar-2018

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DOI [10.1063/1.5009432](https://doi.org/10.1063/1.5009432)

Author(s) **Dargily, Neethu Christudas; Thimmappa, Ravikumar; Bhat, Zahid Manzoor; Devendrachari, Mruthyunjayachari Chattanahalli; Kottaichamy, Alagar Raja; Gautam, Manu; Shafi, Shahid Pottachola and Thotiyl, Musthafa Ottakam.**

Title A Rechargeable Hydrogen Battery

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Author(s) **Khaire, Siddhi; Gaikwad, Pramod; Devendrachari, Mruthyunjayachari Chattanahalli; Kottaichamy, Alagar Raja; Bhat, Zahid Manzoor; Varhade, Swapnil; Shafi, Shahid Pottachola; Thimmappa, Ravikumar and Thotiyl, Musthafa Ottakam.**

Title An Electrochemical Wind Velocity Sensor

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DOI [10.1021/acs.analchem.7b04841](https://doi.org/10.1021/acs.analchem.7b04841)

Author(s) **Muduli, Subas**; Pandey, Padmini; **Devatha, Gayathri**; **Babar, Rohit**; **M, Thripuranthaka**; Kothari, D. C.; **Kabir, Mukul**; **Pillai, Pramod** and **Ogale, Satishchandra B.**  
Title Photoluminescence quenching in self-assembled CsPbBr<sub>3</sub> quantum dots on few layer black phosphorous sheets  
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Author(s) **Malpathak, Shreyas**; Ma, Xinyou and Hase, William L.  
Title Direct dynamics simulations of the unimolecular dissociation of dioxetane: Probing the non-RRKM dynamics  
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## Mathematics

Author(s) Biswas, Arunangshu; **Goswami, Anindya** and Overbeck, Ludger.  
Title Option pricing in a regime switching stochastic volatility model  
Name of the Journal Statistics & Probability Letters  
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Author(s) **Banerjee, Debargha** and Merel, Loïc  
Title The Eisenstein cycles as modular symbols  
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# Physics

Author(s) Chattopadhyay, Chandrodoy; **Bhalerao, Rajeev S.**;  
Ollitrault, Jean-Yves and Pal, Subrata.  
Title Effects of initial-state dynamics on collective flow within a  
coupled transport and viscous hydrodynamic approach  
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Vol. No. 97  
Issue No. 03  
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Date of Publication 23-Mar-2018  
Name of the Publisher American Physical Society  
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Author(s) **Puthusseri, Dhanya; Wahid, Malik; Basu, Aniruddha; Babar, Rohit;**  
**Kabir, Mukul and Ogale, Satishchandra.**  
Title F-doped carbon nano-onion film as scaffold for highly efficient  
and stable Li metal anode: A novel laser direct-write process  
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Author(s) **Paul, Sanku and Santhanam, M. S.**  
Title Floquet states of a kicked particle in a singular potential:  
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Author(s) **Abraham, Alex and Chatterji, Apratim**  
Title Self assembled linear polymeric chains with tuneable  
semiflexibility using isotropic interactions  
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Issue No. 15  
Page No. 5940-5947  
Date of Publication Mar-2018  
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Author(s) **Nagane, Satyawan**; Ghosh, Dibyajyoti; Hoye, Robert L. Z.; Zhao, Baodan; Ahmad, Shahab; Walker, Alison B.; Islam, M. Saiful; **Ogale, Satishchandra** and Sadhanala, Aditya.

Title Lead-Free Perovskite Semiconductors Based on Germanium-Tin Solid Solutions: Structural and Optoelectronic Properties

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Vol. No. 122

Issue No. 11

Page No. 5940-5947

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DOI [10.1021/acs.jpcc.8b00480](https://doi.org/10.1021/acs.jpcc.8b00480)

Author(s) **Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A. and Sharma, S.**

Title Measurement of the inclusive  $t\bar{t}$  cross section in pp collisions at  $\sqrt{s}=5.02$  TeV using final states with at least one charged lepton

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Author(s) Butter, Daniel; **Hegde, Subramanya**; Lodato, Ivano and Sahoo, Bindusar

Title N=2 dilaton Weyl multiplet in 4D supergravity

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Vol. No. 03

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Author(s) **Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A. and Sharma, S.**

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Author(s) Mohanty, P. K.; Arunbabu, K. P.; Aziz, T. ; Dugad, S.R.; Gupta, S.K.; Hariharan, B.; Jagadeesan, P.; Jain, A.; Morris, S. D.; Nayak, P. K.; Rakshe, P. S. ; Ramesh, K.; Rao, B. S.; Zuberi, M.; Hayashi, Y. ; Kawakami, S.; **Subramanian, P.** ; Raha, S.; Ahmad, S.; Oshima, A.; Shibata, S. and Kojima, H.

Title Was the cosmic ray burst detected by the GRAPES-3 muon telescope on 22 June 2015 caused by a transient weakening of the geomagnetic field or by an interplanetary anisotropy?

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Author(s) **Banerjee, Nabamita**; Banerjee, Shamik; **Bhatkar, Sayali Atul** and **Jain, Sachin.**

Title Conformal structure of massless scalar amplitudes beyond tree level

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