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New Publications of
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December 2016

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Chemistry

Author(s) **Thimmappa, Ravikumar; Kottaichamy, Alagar Raja; Devendrachari, Mruthyunjayachari Chattanahalli; Aralekallu, Shambulinga; Shafi, Shahid Pottachola; Gautam, Manu; Kotresh, Harish Makri Nimbegondi and Thotiyl, Musthafa Ottakam.**

Title A Proton Exchange Membrane Fuel Cell with a Pt-Free Cathod and freely Diffusing Electron Acceptor

Name of the Journal ChemElectroChem

Date of Publication 2016

Name of the Publisher Wiley

DOI [10.1002/celec.201600675](https://doi.org/10.1002/celec.201600675)

Author(s) Basu, Aniruddha; **Roy, Kingshuk; Sharma, Neha; Nandi, Shyamapada; Vaidhyanathan, Ramanathan;** Rane, Sunit; Rode, Chandrashekha ; Galei, S and **Ogale, Satishchandra.**

Title CO2 Laser Direct Written MOF-Based Metal-Decorated and Heteroatom-Doped Porous Graphene for Flexible All-Solid-State Micro supercapacitor with Extremely High Cycling Stability

Name of the Journal ACS Applied Materials & Interfaces

Volume No. 8

Issue No. 46

Page No. 31841-31848

Date of Publication 23-Nov-2016

Name of the Publisher American Chemical Society

DOI [10.1021/acsami.6b10193](https://doi.org/10.1021/acsami.6b10193)

Author(s) **Satpathi, Sagar; Kulkarni, Mandar; Mukherjee, Arnab and Hazra, Partha.**

Title Ionic liquid induced G-quadruplex formation and stabilization: spectroscopic and simulation studies

Name of the Journal Physical Chemistry Chemical Physics

Volume No. 18

Issue No. 43

Page No. 29740-29746

Date of Publication 21-Nov -2016

Name of the Publisher Royal Society Chemistry

DOI [10.1039/c6cp05732b](https://doi.org/10.1039/c6cp05732b)

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Earth and Climate Science

Author(s) **Das, Ritima and Rai, S.S.**
Title Extensive seismic anisotropy in the lower crust of Archean metamorphic terrain, South India, inferred from ambient noise tomography
Name of the Journal Tectonophysics
Volume No. 694
Page No. 164-180
Date of Publication 22-Jan-2017
Name of the Publisher Elsevier
DOI <http://dx.doi.org/10.1016/j.tecto.2016.12.002>

Physics

Author(s) Jacob, Rinku; Harikrishnan, K. P.; Misra, R. and **Ambika, G.**
Title Characterization of chaotic attractors under noise: A recurrence network perspective
Name of the Journal Communications in Nonlinear Science and Numerical Simulation
Volume No. 41
Page No. 32-47
Date of Publication Dec-2016
Name of the Publisher Elsevier
DOI [10.1016/j.cnsns.2016.04.028](http://dx.doi.org/10.1016/j.cnsns.2016.04.028)

Author(s) **Bajpai, Ashna**; Aslamb, Zabeada; Hampelc,Silke;
Klingelerd, Rüdiger and Grobertf, Nicole.
Title A carbon-nanotube based nano-furnace for in-situ restructuring of a magnetoelectric oxide
Name of the Journal Carbon
Volume No. 114
Page No. 291-300
Date of Publication 2017
Name of the Publisher Elsevier
DOI <http://dx.doi.org/10.1016/j.carbon.2016.12.008>

Author(s) **Vasista, Adarsh B. and Kumar, G. V. Pavan**
Title Quantum emitter coupled to plasmonic nanotriangle: Spatially dependent emission and thermal mapping
Name of the Journal Optics Communications
Volume No. 381
Page No. 227-233
Date of Publication 15-Dec-2016
Name of the Publisher Elsevier
DOI [10.1016/j.optcom.2016.06.077](http://dx.doi.org/10.1016/j.optcom.2016.06.077)

Author(s) **Panja, Soumendra Nath; Kumar, Jitender; Dengre, Shanu and Nair, Sunil.**
Title Relieving geometrical frustration through doping in the Dy_{1-x}Ca_xBaCo₄O₇ swedenborgites
Name of the Journal Journal of Physics-Condensed Matter
Volume No. 28
Issue No. 48
Date of Publication 7-Dec-2016
Name of the Publisher IOP Publishing Ltd
DOI [10.1088/0953-8984/28/48/486001](https://doi.org/10.1088/0953-8984/28/48/486001)

Author(s) **Paranjape, Shruti** and Reimers, Stephan.
Title Dynamics of test particles in the five-dimensional, charged, rotating Einstein-Maxwell-Chern-Simons spacetime
Name of the Journal Physical Review D
Volume No. 94
Issue No. 01
Date of Publication 1-Dec-2016
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevD.94.124003](https://doi.org/10.1103/PhysRevD.94.124003)
