## New Arrivals Journals Details

**Period:** 01/04/2015 - 30/04/2015

<table>
<thead>
<tr>
<th>Name of the Journal</th>
<th>Bulletin of Materials Science</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency/Period/Vol/Iss.</strong></td>
<td>Vol. 38 No. 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Articles/Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Influence of dysprosium addition on the structural, morphological, electrical and magnetic properties of nano-crystalline W-type.</td>
</tr>
<tr>
<td>4. Oxygen separating membrane manufactured from Ba0.5Sr0.5Co0.8Fe0.2O3-δ perovskite-like material.</td>
</tr>
<tr>
<td>5. Yttrium deposition on mesoporous TiO2: textural design and UV decolourisation of organic dyes.</td>
</tr>
<tr>
<td>6. Space-charge-limited conduction in Se95Sb5Ag6 glassy alloy: observation of Meyer-Neldel rule.</td>
</tr>
<tr>
<td>8. Effect of the addition of 3-glycidoxypropylmethoxysilane to tetraethoxyxymethylsilicate-based stone protective coating using n-octylamine as a catalyst.</td>
</tr>
<tr>
<td>10. Dependence of ZnO-based dye-sensitized solar cell characteristics on the layer deposition method.</td>
</tr>
<tr>
<td>12. Preparation and characterization of Bi12S3 compound semiconductor.</td>
</tr>
<tr>
<td>15. Magnetocaloric response of La0.70Ca0.3Sr0.2Fe0.1Mn0.9O3 pervoskite for magnetic refrigeration.</td>
</tr>
<tr>
<td>17. Short-range order of germanium selenide glass.</td>
</tr>
<tr>
<td>18. Acoustic relaxation of some lead niobium tellurite glasses.</td>
</tr>
<tr>
<td>21. Synergetic action of doping and coating on electrochemical performance of lithium manganese spinel as an electrode material for lithium-ion batteries.</td>
</tr>
<tr>
<td>22. Electrochemical analysis on poly(ethyl methacrylate)-based electrolyte membranes.</td>
</tr>
<tr>
<td>23. Characteristics of bulk liquid undercooling and crystallization behaviors of...</td>
</tr>
</tbody>
</table>
| Articles/Contents | 1. Cover Story – Union Budget 2015-2016: Replenishes Indian power sector  
2. In Depth – Advanced Ultra Super Critical Technology for Coal based Power Plants  
3. In Depth – Packaging Concepts for Large Coal Based Power Plants  
4. In Focus – Taxation Issues on the Power Generation Equipment Industry  
5. Tech Space – Optimization of the Power Cycle for Improved Operating Efficiency |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of the Journal</td>
<td>IEEMA Journal</td>
</tr>
<tr>
<td>Frequency/Period/Vol/Iss.</td>
<td>Vol. 6 No. 8 April, 2015</td>
</tr>
</tbody>
</table>

| Articles/Contents | 1. A sensitive nonenzymatic hydrogen peroxide sensor based on Fe₃O₄–Fe₂O₃ nanocomposites  
2. Multi-walled carbon nanotube-coated cotton fabric for possible energy storage devices  
3. Friction-reducing micro/nanoproliferations on electrodeposited Ni—Co alloy coating surface fabricated by laser direct writing  
4. Analysis of P(VdCl-co-an-co-MMA)-LiClO₄ – EC triblock copolymer electrolytes  
5. Fabrication of back contacts using laser writer and photolithography for inscribing textured solar cells  
6. Characterization of electroless nickel as a seed layer for silicon solar cell metallization  
7. Effects of metal doping on photoinduced hydrophilicity of SnO₂ thin films  
8. Electrospun TiO₂ nanofibre-based gas sensors fabricated by AC electrophoresis deposition  
9. Facile combustion synthesis of novel CaZrO₃·Eu3+, Gd3+ red phosphor and remarkably enhanced photoluminescence by Gd3+ doping  
10. Analytical calculation of chain length in ferrofluids  
11. Photocatalytic activity of Ce-modified SBA-15 for the degradation of isoproturon  
13. Ultrasonic investigations of some bismuth borate glasses doped with Al₂O₃  
14. Influence of thermo-mechanical processing on microstructure, mechanical properties and corrosion behavior of a new metastable β-titanium biomedical alloy  
15. Biphasic calcium phosphate—casein bone graft fortified with Cassia occidentalis for bone tissue engineering and regeneration  
16. Simple fabrication of Ag nanoparticle-impregnated electrospun nanofibres as SERS substrates  
17. Cost effective and shape controlled approach to synthesize hierarchically assembled NiO nanoflakes for the removal of toxic heavy metal ions in aqueous solution |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of the Journal</td>
<td>Journal of Biosciences</td>
</tr>
<tr>
<td>Frequency/Period/Vol/Iss.</td>
<td>Vol. 40 No. 1 March - May, 2015</td>
</tr>
</tbody>
</table>
| Articles/Contents | 1. What history tells us XXXVL Reverse transcriptase and Lamarckian scenarios of evolution  
2. Lack of IL-6 increases blood—brain barrier permeability in fungal meningitis  
3. Structural studies on Mycobacterium tuberculosis RecA: Molecular plasticity and interspecies variability  
4. Biochemical characterization of blood plasma of coronary artery disease patients by in vitro high-resolution proton NMR spectroscopy  
5. BARF1 gene silencing triggers caspase-dependent mitochondrial apoptosis in Epstein-Barr virus-positive malignant cells  
6. Effects of Sunphenon and Polyphenon 60 on proteolytic pathways, inflammatory cytokines and myogenic markers in H₂O₂-treated C2C12 cells  
7. Human platelet releasates combined with polyglycolic acid scaffold promote chondrocyte differentiation and phenotypic maintenance  
8. Collagen I-induced dendritic cells activation is regulated by TNF-α production through down-regulation of IRF4  
9. Co-expression of the C-terminal domain of Yersinia enterocolitica invasion |
enhances the efficacy of classical swine-fever-vectored vaccine based on human adenovirus
10. Circulating nucleic acids damage DNA of healthy cells by integrating into their genomes
11. Whole genome analysis of a Vietnamese trio
12. BDP-30, a systemic resistance inducer from Boerhaavia diffusa L., suppresses TMV infection, and displays homology with ribosome-inactivating proteins
13. Identification of plant defence regulators through transcriptional profiling of Arabidopsis thaliana cdd1 mutant
14. Frost hardiness of tree species is independent of phenology and macroclimatic niche
15. Stochastic developmental variation, an epigenetic source of phenotypic diversity with far-reaching biological consequences

<table>
<thead>
<tr>
<th>Name of the Journal</th>
<th>The Journal of CPRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency/Period/Vol/Iss.</td>
<td>Vol. 10 No. 4    December, 2014 – February, 2015</td>
</tr>
</tbody>
</table>
| Articles/Contents | 1. Designing of supplementary controller for STATCOM for mitigation of subsynchronous resonance in series compensated power system  
2. Mathematical modeling and simulation of an observer based state feedback controller of a STATCOM to improve the voltage stability of power system  
3. Comparative analysis of accelerating power input and speed input robust power system stabilizers  
4. Decision tree approach to dynamic security assessment  
5. Reliability analysis of protection system using neighbouring line dependability failures  
6. Customers interruption cost estimation based on reliability in power distribution system  
7. Improvement in the reliability performance of power distribution systems  
8. Effect of static var compensator on the performance of digital distance relay protection of transmission line  
9. Gas tightness test methods for gas insulated MV and HV switchgear  
10. Ampacity of bundled PVC house wiring cables in a conduit pipe based on experimental and theoretical considerations  
11. Capacitor switching phenomenon for EHV circuit breaker  
12. Seismic qualification of electrical cabinet  
13. Switched reluctance drive in industrial application  
15. Concept of APFC with reference to the energy efficiencyEffect of ambient temperature on the performance of power electronic converters  
16. Novel control strategy of three phase grid tied inverters for power quality improvement  
17. Steady state and transient performance of an inverter based microgrid  
18. Optimal allocation of distributed generator in a radial distribution system using genetic algorithm and particle swarm optimization  
19. Design of hybrid power plants for Indian conditions  
20. Strength analysis of designed dual axis sun tracker using solid-work software  
21. Methods of optimal charging of lead-acid battery for improving its performance and life span  
22. Dynamic model of heat ventilation and air conditioning (HVAC) system |

<table>
<thead>
<tr>
<th>Name of the Journal</th>
<th>Pearl</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency/Period/Vol/Iss.</td>
<td>Vol. 9 No. 1 01 January – 31 March, 2015</td>
</tr>
</tbody>
</table>
| Articles/Contents | 1. Use and Impact of Electronic Information Resources among PG Students of UAS, Dharwad  
2. Utilisation and Perception of Information Communication Technology (ICT) in Research and Development (R&D) Institutions Libraries in Chennai: An Analytical Study |
3. A Bibliometric Study on Aquaculture and Fisheries Journals through Electronic Data base in Directory of Open Access Journals
4. Community Information Services (CISS) Through T.S. Central State Library: A Case Study
6. Methodological Approaches in Information Science Research on Computer-mediated Communication
7. ACQUISITION AND Utilisation of ICT Skills of Library Professionals in some Nigerian Academic Libraries
8. Universities, Libraries and No Librarians
9. Digital Literacy of Postgraduate Students in Management Institutions of Puducherry: A Survey

<table>
<thead>
<tr>
<th>Name of the Journal</th>
<th>Pramana – journal of physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency/Period/Vol/Iss.</td>
<td>Vol. 84 No. 3   March, 2015</td>
</tr>
</tbody>
</table>
| Articles/Contents | 1. Dynamics of solitons in multicomponent long wave—short wave resonance interaction system  
2. Breathers and rogue waves: Demonstration with coupled nonlinear Schrodinger family of equations  
3. Empirical questions for collective-behaviour modelling  
4. Classification of periodic, chaotic and random sequences using approximate entropy and Lempel-Ziv complexity measures  
5. Generalized virial theorem for the Lienard-type systems  
6. Effect of heat source on the growth of dendritic drying patterns  
7. Thermalized solutions, statistical mechanics and turbulence: An overview of some recent results  
8. Rolling motion in moving droplets  
9. State variable participation in the limit cycle of induction motor  
10. Non-linear dynamics in pulse combustor: A review  
11. Building better oscillators using nonlinear dynamics and pattern formation  
12. Nonlinear dynamics of spin transfer nano-oscillators |

<table>
<thead>
<tr>
<th>Name of the Journal</th>
<th>Pramana – journal of physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency/Period/Vol/Iss.</td>
<td>Vol. 84 No. 2   February, 2015</td>
</tr>
</tbody>
</table>
| Articles/Contents | 1. Synchronization-optimized networks for coupled nearly identical oscillators and their structural analysis  
2. Coupled chaotic attractors and driving-induced bistability: A brief review  
3. Early signatures of regime shifts in complex dynamical systems  
4. Control of partial synchronization in chaotic oscillators  
5. Preventing catastrophes in spatially extended systems through dynamic switching of random interactions  
6. Chimera states in a population of identical oscillators under planar cross-coupling  
7. Suppression of oscillations in mean-field diffusion  
8. Dynamic random links enhance diversity-induced coherence in strongly coupled neuronal systems  
9. Synchronization enhancement via an oscillatory bath in a network of self-excited cells  
10. Coverage maximization under resource constraints using proliferating random walks  
11. Importance of randomness in biological networks: A random matrix analysis  
12. Matrix models with Penner interaction inspired by interacting ribonucleic acid  
13. Distribution of level spacing ratios using one- plus two-body random matrix ensembles  
14. Analysing correlations after the financial crisis of 2008 and multifractality |
### Name of the Journal

- **Pramana – journal of physics**

### Frequency/Period/Vol/Iss.

- **Vol. 84 No. 1**  ** January, 2015**

### Articles/Contents

1. New exact wave solutions for Hirota equation
2. Analytical solution of population balance equation involving aggregation and breakage in terms of auxiliary equation method
4. Increased-order generalized synchronization of chaotic and hyperchaotic systems
5. Robust antisynergy of chaos using sliding mode control strategy
6. Form factors and charge radii in a quantum chromodynamics-inspired potential model using variationally improved perturbation theory
7. Systematic of signature inversion in \((h \mathrm{LH}_{11/2})_p \times (h_{13/2})_n\) for odd—odd nuclei in rare-earth nuclei
8. On the momentum distribution of particles participating in nuclear stopping
9. Alpha decay properties of heavy and superheavy elements
10. Half-width at half-maximum, full-width at half-maximum analysis for resolution of asymmetrically apodized optical systems with slit apertures
11. The influence of atomic coherence and dipole—dipole interaction on entanglement of two qubits with nondegenerate two-photon transitions
12. Dust-ion-acoustic Gardner double layers in a dusty plasma with two-temperature electrons
13. Planar dust-acoustic waves in electron—positron—ion—dust plasmas with dust-size distribution under higher-order transverse perturbations
14. Effect of doping of N and B atoms on thermoelectric properties of C\(_{60}\) molecule

### Name of the Journal

- **Resonance**

### Frequency/Period/Vol/Iss.

- **Vol. 20 No. 3**  ** March, 2015**

### Articles/Contents

1. Edward Norton Lorenz: Discoverer of Chaos
2. Ed Lorenz: Father of the 'Butterfly Effect'
3. Multivariable Chinese Remainder Theorem
4. C-11 Acid and the Stereochemistry of Abietic Acid
5. Trigonometric Characterization of Some Plane Curves
6. Nature Watch: Symbiosis in Coastal Marine Communities

### Name of the Journal

- **Resonance**

### Frequency/Period/Vol/Iss.

- **Vol. 20 No. 2**  ** February, 2015**

### Articles/Contents

1. Buckminster Fuller and his Fabulous Designs
2. Fullerenes Revisited: Materials Chemistry and Applications of C\(_{60}\) Molecules
3. Realm of Matrices: Exponential and Logarithm Functions
4. Single-Molecule Spectroscopy: Every Molecule is Different
5. Chemical Utilisation of CO\(_2\): A Challenge for the Sustainable World
<table>
<thead>
<tr>
<th>Name of the Journal</th>
<th>Resonance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency/Period/Vol/Iss.</strong></td>
<td>Vol. 20 No. 1 January, 2015</td>
</tr>
</tbody>
</table>
| **Articles/Contents** | 1. Asima Chatterjee: A Unique Natural Products Chemist  
2. Odd if it isn’t an Even Fit!: Lighter Side of Tiling  
4. Identical Distinguishable Gas Particles in the Real World  
5. Nature Watch: A Tale of Two Turtles |

<table>
<thead>
<tr>
<th>Name of the Journal</th>
<th>Sadhana</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency/Period/Vol/Iss.</strong></td>
<td>Vol. 40 No. 1 February, 2015</td>
</tr>
</tbody>
</table>
| **Articles/Contents** | 1. Nature-inspired novel Cuckoo Search Algorithm for genome sequence assembly  
2. Contextual snowflake modelling for pattern warehouse logical design  
3. New approach to solve fully fuzzy system of linear equations using single and double parametric form of fuzzy numbers  
4. Automated adaptive sliding mode control scheme for a class of real complicated systems  
5. Proximity fed gap-coupled half E-shaped microstrip antenna array  
6. Experimental validation of waveform relaxation technique for power system controller testing  
7. Fuzzy delay model based fault simulator for crosstalk delay fault test generation in asynchronous sequential circuits  
8. An automated technique to determine spatio-temporal changes in satellite island images with vectorization and spatial queries  
9. Simulation and comparison of perturb and observe and incremental conductance MPPT algorithms for solar energy system connected to grid  
10. Design and experiments of the fuel control method for the scramjet engine  
11. Analytic discrete cosine harmonic wavelet transform based OFDM system  
12. Heat transfer between two parallel porous plates for Couette flow under pressure gradient and Hall current  
13. Elastic buckling analysis of corroded stiffened plates with irregular surfaces  
14. A simplified four-unknown shear and normal deformations theory for bidirectional laminated plates  
15. Interfacial stresses in strengthened beam with shear cohesive zone model  
16. Strengthening of steel-concrete composite girders using carbon fibre reinforced polymer (CFRP) plates  
17. Quantitative study on crack of meso-damage and fracture concrete based on CT technique  
18. Study of a railway embankment reinforced with jute tassels  
19. On the use of Stockwell transform in structural dynamic analysis |

<table>
<thead>
<tr>
<th>Name of the Journal</th>
<th>University News</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency/Period/Vol/Iss.</strong></td>
<td>Vol. 53 No. 13 March 30 – April 05, 2015</td>
</tr>
</tbody>
</table>
| **Articles/Contents** | 1. Nature-inspired novel Cuckoo Search Algorithm for genome sequence assembly  
2. Contextual snowflake modelling for pattern warehouse logical design  
3. New approach to solve fully fuzzy system of linear equations using single and double parametric form of fuzzy numbers  
4. Automated adaptive sliding mode control scheme for a class of real complicated systems  
5. Proximity fed gap-coupled half E-shaped microstrip antenna array  
6. Experimental validation of waveform relaxation technique for power system controller testing  
7. Fuzzy delay model based fault simulator for crosstalk delay fault test generation in asynchronous sequential circuits  
8. An automated technique to determine spatio-temporal changes in satellite island images with vectorization and spatial queries  
9. Simulation and comparison of perturb and observe and incremental conductance MPPT algorithms for solar energy system connected to grid  
10. Design and experiments of the fuel control method for the scramjet engine  
11. Analytic discrete cosine harmonic wavelet transform based OFDM system  
12. Heat transfer between two parallel porous plates for Couette flow under pressure gradient and Hall current  
13. Elastic buckling analysis of corroded stiffened plates with irregular surfaces  
14. A simplified four-unknown shear and normal deformations theory for bidirectional laminated plates  
15. Interfacial stresses in strengthened beam with shear cohesive zone model  
16. Strengthening of steel-concrete composite girders using carbon fibre reinforced polymer (CFRP) plates  
17. Quantitative study on crack of meso-damage and fracture concrete based on CT technique  
18. Study of a railway embankment reinforced with jute tassels  
19. On the use of Stockwell transform in structural dynamic analysis |
<table>
<thead>
<tr>
<th>Articles/Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Gender Concerns in Education Policies : Past, Present and Future</td>
</tr>
<tr>
<td>2. Women Education in India : An Overview</td>
</tr>
<tr>
<td>3. Women Leadership : Some Success Stories of India</td>
</tr>
<tr>
<td>4. Tibetan Women’s Association : Work in Exile</td>
</tr>
<tr>
<td>5. Destitution of Women for Lack of Empowerment : Its Reflection in Literature</td>
</tr>
<tr>
<td>6. Searching For “Voices” : Indian Women Writers in English</td>
</tr>
</tbody>
</table>

**Librarian**