

Chromatin organization regulates viral egress dynamics

Automatic Posture and Movement Tracking of Infants with Wearable Movement Sensors

Facile strain analysis of largely bending films by a surface-labelled grating method

Speeding up crystallization

DroneRF dataset

A dataset of drones for RF-based detection, classification and identification

On the linear programming bound for linear Lee codes

Aerosol gas exchange system (AGES) for nanoparticle sampling at elevated temperatures
Modeling and experimental characterization

Multilayer Aggregation with Statistical Validation
Application to Investor Networks

Real sequence effects on the search dynamics of transcription factors on DNA

Automatic classification of IgA endomysial antibody test for celiac disease
a new method deploying machine learning

Step down Vascular Calcification Analysis using State-of-the-Art Nanoanalysis Techniques

Mechanically driven strategies to improve electromechanical behaviour of printed stretchable electronic systems

Surface-Enhanced Impulsive Coherent Vibrational Spectroscopy

A Bayesian analysis of the chromosome architecture of human disorders by integrating reductionist data

Effects of Sintering Temperature on Crystallization and Fabrication of Porous Bioactive Glass Scaffolds for Bone Regeneration

In vitro Evaluation of Porous borosilicate, borophosphate and phosphate Bioactive Glasses Scaffolds fabricated using Foaming Agent for Bone Regeneration

Subangstrom resolution x-ray structure details aquaporin-water interactions

Lower bound for the spatial extent of localized modes in photonic-crystal waveguides with small random imperfections

Upstream Transcription Factor 1 (USF1) allelic variants regulate lipoprotein metabolism in women and USF1 expression in atherosclerotic plaque

Sensitivity enhancement of flexible gas sensors via conversion of inkjet-printed silver electrodes into porous gold counterparts

Azobenzene-based sinusoidal surface topography drives focal adhesion confinement and guides collective migration of epithelial cells

Highly ductile amorphous oxide at room temperature and high strain rate

First passage time distribution in heterogeneity controlled kinetics
Going beyond the mean first passage time

Membrane omega-3 fatty acids modulate the oligomerisation kinetics of adenosine A_{2A} and dopamine D₂ receptors

The evolutionary history of lethal metastatic prostate cancer

Structure-phenotype correlations of human CYP21A2 mutations in congenital adrenal hyperplasia

Genome-wide modeling of transcription kinetics reveals patterns of RNA production delays

Genetic similarity of biological samples to counter bio-hacking of DNA-sequencing functionality

Brain hemodynamic activity during viewing and re-viewing of comedy movies explained by experienced humor

Physical chemistry
Water's wafer-thin surface

Parkinson's disease detection from 20-step walking tests using inertial sensors of a smartphone
Machine learning approach based on an observational case-control study

Entropy analysis of word-length series of natural language texts
Effects of text language and genre

Automatization and stress analysis data of CoCr laser weld fatigue tests

Changes in hemodynamics associated with metabolic syndrome are more pronounced in women than in men

N-Glycosylation as determinant of epidermal growth factor receptor conformation in membranes

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Optimized dispersion quality of aqueous carbon nanotube colloids as a function of sonochemical yield and surfactant/CNT ratio

Scaling and correlation properties of RR and QT intervals at the cellular level

Personalized Monitoring and Advance Warning System for Cardiac Arrhythmias

Gaussian Light Model in Brightfield Optical Projection Tomography

Real-time characterization of spectral instabilities in a mode-locked fibre laser exhibiting soliton-similariton dynamics

Using multi-step proposal distribution for improved MCMC convergence in Bayesian network structure learning

Quasi two-dimensional astigmatic solitons in soft chiral metastructures

Curved optical solitons subject to transverse acceleration in reorientational soft matter

Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors

Structure and permeation mechanism of a mammalian urea transporter

Transient formation of water-conducting states in membrane transporters

Human iPSC derived disease model of MERTK-associated retinitis pigmentosa

Rate-limiting steps in transcription dictate sensitivity to variability in cellular components

Tooth wear and dentoalveolar remodeling are key factors of morphological variation in the Dmanisi mandibles

Caustics and rogue waves in an optical sea

Comparative proteomics reveals human pluripotent stem cell-derived limbal epithelial stem cells are similar to native ocular surface epithelial cells

Glucosylceramide modifies the LPS-induced inflammatory response in macrophages and the orientation of the LPS/TLR4 complex in silico

Dynamical heart beat correlations during running

Ricci-flow based conformal mapping of the proximal femur to identify exercise loading effects

1700 nm dispersion managed mode-locked bismuth fiber laser

An ensemble of classifiers based on different texture descriptors for texture classification

Interleukin-6 and microRNA profiles induced by oral bacteria in human atheroma derived and healthy smooth muscle cells

Selective effect of cell membrane on synaptic neurotransmission

Atomistic determinants of co-enzyme Q reduction at the Q₁-site of the cytochrome bc₁ complex

Information transfer in QT-RR dynamics
Application to QT-correction

Added value of autoregulation and multi-step kinetics of transcription initiation

Variance-corrected Michaelis-Menten equation predicts transient rates of single-enzyme reactions and response times in bacterial gene-regulation

Non-toxic printed supercapacitors operating in sub-zero conditions

Skin-conformable printed supercapacitors and their performance in wear

A Highly Efficient Sensor Platform Using Simply Manufactured Nanodot Patterned Substrates

Highly-Sensitive Refractive Index Sensing by Near-infrared Metatronic Nanocircuits

Superdiffusion dominates intracellular particle motion in the supercrowded cytoplasm of pathogenic *Acanthamoeba castellanii*

Infiltrated bunch of solitons in Bi-doped frequency-shifted feedback fibre laser operated at 1450 nm

Traffic is a major source of atmospheric nanocluster aerosol

Trends for isolated amino acids and dipeptides
Conformation, divalent ion binding, and remarkable similarity of binding to calcium and lead

Molecular mechanisms of Charcot-Marie-Tooth neuropathy linked to mutations in human myelin protein P2

Machine learning analysis of rogue solitons in supercontinuum generation

Optical detection of radon decay in air

Segmented molecular design of self-healing proteinaceous materials

Porous poly-L-lactide-co-1-caprolactone scaffold
A novel biomaterial for vaginal tissue engineering

Mechanistic principles underlying regulation of the actin cytoskeleton by phosphoinositides

Bioinspired underwater locomotion of light-driven liquid crystal gels

Proton-coupled electron transfer and the role of water molecules in proton pumping by cytochrome c oxidase

Redox-induced activation of the proton pump in the respiratory complex I

An Optical Method for the In-Vivo Characterization of the Biomechanical Response of the Right Ventricle

Automatic knee osteoarthritis diagnosis from plain radiographs
A deep learning-based approach

Multimodal Machine Learning-based Knee Osteoarthritis Progression Prediction from Plain Radiographs and Clinical Data

Emergent rogue wave structures and statistics in spontaneous modulation instability

Sub-parts-per-trillion level sensitivity in trace gas detection by cantilever-enhanced photo-acoustic spectroscopy

Extensive transduction of nonrepetitive DNA mediated by L1 retrotransposition in cancer genomes

Genomically amplified Akt3 activates DNA repair pathway and promotes glioma progression

Behaviour of one-step spray-coated carbon nanotube supercapacitor in ambient light harvester circuit with printed organic solar cell and electrochromic display

Analysis of spatial heterogeneity in normal epithelium and preneoplastic alterations in mouse prostate tumor models

Three-Dimensional Printing of the Nasal Cavities for Clinical Experiments

Comparison of electron injection and recombination on TiO_2 nanoparticles and ZnO nanorods photosensitized by phthalocyanine

X-ray microtomography is a novel method for accurate evaluation of small-bowel mucosal morphology and surface area

Rapid growth of new atmospheric particles by nitric acid and ammonia condensation

Redox-coupled quinone dynamics in the respiratory complex I

Insulin resistance is associated with altered amino acid metabolism and adipose tissue dysfunction in normoglycemic women

Mechanism of homodimeric cytokine receptor activation and dysregulation by oncogenic mutations

Combining deep learning with token selection for patient phenotyping from electronic health records

Active optical clock based on four-level quantum system