

Active optical clock based on four-level quantum system

Zhang, T. G., Wang, Y. F., Zang, X. R., Zhuang, W. & Chen, J. B., Jun 2013, In : Chinese Science Bulletin. 58, 17, p. 2033-2038 6 p.

Research output: Contribution to journal > Article > Scientific > peer-review

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

Yang, Z., Dehmer, M., Yli-Harja, O. & Emmert-Streib, F., 2020, In : Scientific Reports. 10, 1, 18 p., 1432.

Research output: Contribution to journal > Article > Scientific > peer-review

Mechanism of homodimeric cytokine receptor activation and dysregulation by oncogenic mutations

Wilmes, S., Hafer, M., Vuorio, J., Tucker, J. A., Winkelmann, H., Löchte, S., Stanly, T. A., Pulgar Prieto, K. D., Poojari, C., Sharma, V., Richter, C. P., Kurre, R., Hubbard, S. R., Christopher Garcia, K., Moraga, I., Vattulainen, I., Hitchcock, I. S. & Piehler, J., 7 Feb 2020, In : Science. 367, 6478, p. 643-652 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

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

Wiklund, P., Zhang, X., Pekkala, S., Autio, R., Kong, L., Yang, Y., Keinänen-Kiukaanniemi, S., Alen, M. & Cheng, S., 15 Apr 2016, In : Scientific Reports. 6, 24540.

Research output: Contribution to journal > Article > Scientific > peer-review

Redox-coupled quinone dynamics in the respiratory complex I

Warnau, J., Sharma, V., Gamiz-Hernandez, A. P., Luca, A. D., Haapanen, O., Vattulainen, I., Wikström, M., Hummer, G. & Kaila, V. R. I., 4 Sep 2018, In : Proceedings of the National Academy of Sciences of the United States of America. 115, 36, p. E8413-E8420

Research output: Contribution to journal > Article > Scientific > peer-review

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

Wang, M., Kong, W., Marten, R., He, X. C., Chen, D., Pfeifer, J., Heitto, A., Kontkanen, J., Dada, L., Kürten, A., Yli-Juuti, T., Manninen, H. E., Amanatidis, S., Amorim, A., Baalbaki, R., Baccarini, A., Bell, D. M., Bertozzi, B., Bräkling, S., Brilke, S., Murillo, L. C., Chiu, R., Chu, B., De Menezes, L. P., Duplissy, J., Finkenzeller, H., Carracedo, L. G., Granzin, M., Guida, R., Hansel, A., Hofbauer, V., Krechmer, J., Lehtipalo, K., Lamkaddam, H., Lampimäki, M., Lee, C. P., Makhmutov, V., Marie, G., Mathot, S., Mauldin, R. L., Mentler, B., Müller, T., Onnela, A., Partoll, E., Petäjä, T., Philippov, M., Pospisilova, V., Ranjithkumar, A., Rissanen, M., Rörup, B., Scholz, W., Shen, J., Simon, M., Sipilä, M., Steiner, G., Stolzenburg, D., Tham, Y. J., Tomé, A., Wagner, A. C., Wang, D. S., Wang, Y., Weber, S. K., Winkler, P. M., Wlasits, P. J., Wu, Y., Xiao, M., Ye, Q., Zauner-Wieczorek, M., Zhou, X., Volkamer, R., Riipinen, I., Dommen, J., Curtius, J., Baltensperger, U., Kulmala, M., Worsnop, D. R., Kirkby, J., Seinfeld, J. H., El-Haddad, I., Flagan, R. C. & Donahue, N. M., 14 May 2020, In : Nature. 581, 7807, p. 184-189 6 p.

Research output: Contribution to journal > Article > Scientific > peer-review

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

Virta, J., Hannula, M., Tamminen, I., Lindfors, K., Kaukinen, K., Popp, A., Taavela, J., Saavalainen, P., Hiltunen, P., Hyttinen, J. & Kurppa, K., 2020, In : Scientific Reports. 10, 1, 11 p., 13164.

Research output: Contribution to journal > Article > Scientific > peer-review

Comparison of electron injection and recombination on TiO₂ nanoparticles and ZnO nanorods photosensitized by phthalocyanine

Virkki, K., Tervola, E., Ince, M., Torres, T. & Tkachenko, N. V., 11 Jul 2018, In : Royal Society Open Science. 5, 7, 180323.

Research output: Contribution to journal > Article > Scientific > peer-review

Three-Dimensional Printing of the Nasal Cavities for Clinical Experiments

Valtonen, O., Ormiskangas, J., Kivekäs, I., Rantanen, V., Dean, M., Poe, D., Järnstedt, J., Lekkala, J., Saarenrinne, P. & Rautiainen, M., 16 Jan 2020, In : Scientific Reports. 10, 7 p., 502.

Research output: Contribution to journal > Article > Scientific > peer-review

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

Valkonen, M., Ruusuvaori, P., Kartasalo, K., Nykter, M., Visakorpi, T. & Latonen, L., 20 Mar 2017, In : Scientific Reports. 7, 44831.

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

Tuukkanen, S., Välimäki, M., Lehtimäki, S., Vuorinen, T. & Lupo, D., 9 Mar 2016, In : Scientific Reports. 6, 22967.

Research output: Contribution to journal › Article › Scientific › peer-review

Genomically amplified Akt3 activates DNA repair pathway and promotes glioma progression

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Research output: Contribution to journal › Article › Scientific › peer-review

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

Tubio, J. M. C., Li, Y., Ju, Y. S., Martincorena, I., Cooke, S. L., Tojo, M., Gundem, G., Pipinikas, C. P., Zamora, J., Raine, K., Menzies, A., Roman-Garcia, P., Fullam, A., Gerstung, M., Shlien, A., Tarpey, P. S., Papaemmanuil, E., Knappskog, S., Van Loo, P., Ramakrishna, M., Davies, H. R., Marshall, J., Wedge, D. C., Teague, J. W., Butler, A. P., Nik-Zainal, S., Alexandrov, L., Behjati, S., Yates, L. R., Bolli, N., Mudie, L., Hardy, C., Martin, S., McLaren, S., O'Meara, S., Anderson, E., Maddison, M., Gamble, S., Foster, C., Warren, A. Y., Whitaker, H., Brewer, D., Eeles, R., Cooper, C., Neal, D., Lynch, A. G., Visakorpi, T., Isaacs, W. B., Van't Veer, L., Caldas, C., Desmedt, C., Sotiriou, C., Aparicio, S., Foekens, J. A., Eyfjörd, J. E., Lakhani, S. R., Thomas, G., Myklebost, O., Span, P. N., Børresen-Dale, A. L., Richardson, A. L., Van De Vijver, M., Vincent-Salomon, A., Van Den Eynden, G. G., Flanagan, A. M., Futreal, P. A., Janes, S. M., Bova, G. S., Stratton, M. R., McDermott, U. & Campbell, P. J., 1 Aug 2014, In : Science. 345, 6196, 1251343.

Research output: Contribution to journal › Review Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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Sharma, V., Belevich, G., Gamiz-Hernandez, A. P., Róg, T., Vattulainen, I., Verkhovskaya, M. L., Wikström, M., Hummer, G. & Kaila, V. R. I., 15 Sep 2015, In : Proceedings of the National Academy of Sciences of the United States of America. 112, 37, p. 11571-11576 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Bioinspired underwater locomotion of light-driven liquid crystal gels

Shahsavan, H., Aghakhani, A., Zeng, H., Guo, Y., Davidson, Z. S., Priimägi, A. & Sitti, M., 10 Mar 2020, In : Proceedings of the National Academy of Sciences of the United States of America. 117, 10, p. 5125-5133 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Mechanistic principles underlying regulation of the actin cytoskeleton by phosphoinositides

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

Segmented molecular design of self-healing proteinaceous materials

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Machine learning analysis of rogue solitons in supercontinuum generation

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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

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Traffic is a major source of atmospheric nanocluster aerosol

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

A Highly Efficient Sensor Platform Using Simply Manufactured Nanodot Patterned Substrates

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Non-toxic printed supercapacitors operating in sub-zero conditions

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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

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

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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Human iPSC derived disease model of MERTK-associated retinitis pigmentosa

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Research output: Contribution to journal › Article › Scientific › peer-review

Transient formation of water-conducting states in membrane transporters

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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

Lehtipalo, K., Yan, C., Dada, L., Bianchi, F., Xiao, M., Wagner, R., Stolzenburg, D., Ahonen, L. R., Amorim, A., Baccarini, A., Bauer, P. S., Baumgartner, B., Bergen, A., Bernhammer, A. K., Breitenlechner, M., Brilke, S., Buchholz, A., Mazon, S. B., Chen, D., Chen, X., Dias, A., Dommen, J., Draper, D. C., Duplissy, J., Ehn, M., Finkenzeller, H., Fischer, L., Frege, C., Fuchs, C., Garmash, O., Gordon, H., Hakala, J., He, X., Heikkinen, L., Heinritzi, M., Helm, J. C., Hofbauer, V., Hoyle, C. R., Jokinen, T., Kangasluoma, J., Kerminen, V. M., Kim, C., Kirkby, J., Kontkanen, J., Kürten, A., Lawler, M. J., Mai, H.,

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Research output: Contribution to journal › Article › Scientific › peer-review

Quasi two-dimensional astigmatic solitons in soft chiral metastructures

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Gaussian Light Model in Brightfield Optical Projection Tomography

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Personalized Monitoring and Advance Warning System for Cardiac Arrhythmias

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

Kangas, P., Tikkakoski, A., Kettunen, J., Eräranta, A., Huhtala, H., Kähönen, M., Sipilä, K., Mustonen, J. & Pörsti, I., 5 Dec 2019, In : Scientific Reports. 9, 1, 11 p., 18377.

Research output: Contribution to journal › Article › Scientific › peer-review

Automatization and stress analysis data of CoCr laser weld fatigue tests

Kanerva, M., Besharat, Z., Pärnänen, T., Jokinen, J., Honkanen, M., Sarlin, E., Göthelid, M. & Schlenzka, D., 1 Oct 2019, In : Data in Brief. 26, 104374.

Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

Juutinen, M., Wang, C., Zhu, J., Haladjian, J., Ruokolainen, J., Puustinen, J. & Vehkaoja, A., 2020, In : PLoS ONE. 15, 7, 19 p., e0236258.

Research output: Contribution to journal › Article › Scientific › peer-review

Physical chemistry: Water's wafer-thin surface

Jungwirth, P., 8 Jun 2011, In : Nature. 474, 7350, p. 168-169 2 p.

Research output: Contribution to journal › Short survey › Scientific › peer-review

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

Jääskeläinen, I. P., Pajula, J., Tohka, J., Lee, H. J., Kuo, W. J. & Lin, F. H., 21 Jun 2016, In : Scientific Reports. 6, 27741.

Research output: Contribution to journal › Article › Scientific › peer-review

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

Islam, M. S., Ivanov, S., Robson, E., Dooley-Cullinane, T., Coffey, L., Doolin, K. & Balasubramaniam, S., 1 Dec 2019, In : Scientific Reports. 9, 1, 8684.

Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

The evolutionary history of lethal metastatic prostate cancer

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Research output: Contribution to journal › Article › Scientific › peer-review

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

Guixà-González, R., Javanainen, M., Gómez-Soler, M., Cordobilla, B., Domingo, J. C., Sanz, F., Pastor, M., Ciruela, F., Martínez-Seara, H. & Selent, J., 22 Jan 2016, In : Scientific Reports. 6, 19839.

Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

Highly ductile amorphous oxide at room temperature and high strain rate

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

Subangstrom resolution x-ray structure details aquaporin-water interactions

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Surface-Enhanced Impulsive Coherent Vibrational Spectroscopy

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Multilayer Aggregation with Statistical Validation: Application to Investor Networks

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Research output: Contribution to journal › Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

On the linear programming bound for linear Lee codes

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Research output: Contribution to journal › Article › Scientific › peer-review

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

Allahham, MHD. S., Al-Sa'd, M. F., Al-Ali, A., Mohamed, A., Khattab, T. & Erbad, A., 1 Oct 2019, In : Data in Brief. 26, 104313.

Research output: Contribution to journal › Article › Scientific › peer-review

Speeding up crystallization

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Research output: Contribution to journal › Review Article › Scientific › peer-review

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

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Research output: Contribution to journal › Article › Scientific › peer-review

Automatic Posture and Movement Tracking of Infants with Wearable Movement Sensors

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Research output: Contribution to journal › Article › Scientific › peer-review

Chromatin organization regulates viral egress dynamics

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Research output: Contribution to journal › Article › Scientific › peer-review