

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

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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.

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Three-Dimensional Printing of the Nasal Cavities for Clinical Experiments

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

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

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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

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

Dynamical heart beat correlations during running

Molkkari, M., Angelotti, G., Emig, T. & Räsänen, E., 2020, In : Scientific Reports. 10, 1, 9 p., 13627.

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

Skin-conformable printed supercapacitors and their performance in wear

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

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

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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

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

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

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Highly ductile amorphous oxide at room temperature and high strain rate

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

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Non-toxic printed supercapacitors operating in sub-zero conditions

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

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

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

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

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

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

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

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

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

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

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

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

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Chromatin organization regulates viral egress dynamics

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

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Curved optical solitons subject to transverse acceleration in reorientational soft matter

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Traffic is a major source of atmospheric nanocluster aerosol

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

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

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

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

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

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

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Optical detection of radon decay in air

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Genome-wide modeling of transcription kinetics reveals patterns of RNA production delays
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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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Research output: Contribution to journal › Article › Scientific › peer-review

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

Human iPSC derived disease model of MERTK-associated retinitis pigmentosa
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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

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The evolutionary history of lethal metastatic prostate cancer

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

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

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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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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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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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Speeding up crystallization

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

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

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Research output: Contribution to journal > Comment/debate > Scientific

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

