

Wang, Mingyi et al. "Rapid growth of new atmospheric particles by nitric acid and ammonia condensation". *Nature*. 2020, 581(7807). 184-189. <https://doi.org/10.1038/s41586-020-2270-4>

Shahsavani, Hamed et al. "Bioinspired underwater locomotion of light-driven liquid crystal gels". *Proceedings of the National Academy of Sciences of the United States of America*. 2020, 117(10). 5125-5133. <https://doi.org/10.1073/pnas.1917952117>

Wilmes, Stephan et al. "Mechanism of homodimeric cytokine receptor activation and dysregulation by oncogenic mutations". *Science*. 2020, 367(6478). 643-652. <https://doi.org/10.1126/science.aaw3242>

Valtonen, Olli et al. "Three-Dimensional Printing of the Nasal Cavities for Clinical Experiments". *Scientific Reports*. 2020. 10. <https://doi.org/10.1038/s41598-020-57537-2>

Airaksinen, Manu et al. "Automatic Posture and Movement Tracking of Infants with Wearable Movement Sensors". *Scientific Reports*. 2020. 10(1). <https://doi.org/10.1038/s41598-019-56862-5>

Fedele, Chiara et al. "Azobenzene-based sinusoidal surface topography drives focal adhesion confinement and guides collective migration of epithelial cells". *Scientific Reports*. 2020. 10(1). <https://doi.org/10.1038/s41598-020-71567-w>

Yang, Zhen et al. "Combining deep learning with token selection for patient phenotyping from electronic health records". *Scientific Reports*. 2020. 10(1). <https://doi.org/10.1038/s41598-020-58178-1>

Molkkari, Matti et al. "Dynamical heart beat correlations during running". *Scientific Reports*. 2020. 10(1). <https://doi.org/10.1038/s41598-020-70358-7>

Salmela, Lauri et al. "Machine learning analysis of rogue solitons in supercontinuum generation". *Scientific Reports*. 2020. 10. <https://doi.org/10.1038/s41598-020-66308-y>

Di Vito, Donato et al. "Mechanically driven strategies to improve electromechanical behaviour of printed stretchable electronic systems". *Scientific Reports*. 2020. 10(1). <https://doi.org/10.1038/s41598-020-68871-w>

Juutinen, Milla et al. "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". *PLoS ONE*. 2020. 15(7). <https://doi.org/10.1371/journal.pone.0236258>

Railanmaa, Anna et al. "Skin-conformable printed supercapacitors and their performance in wear". *Scientific Reports*. 2020. 10(1). <https://doi.org/10.1038/s41598-020-72244-8>

Virta, Johannes et al. "X-ray microtomography is a novel method for accurate evaluation of small-bowel mucosal morphology and surface area". *Scientific Reports*. 2020. 10(1). <https://doi.org/10.1038/s41598-020-69487-w>

Kangas, Pauliina et al. "Changes in hemodynamics associated with metabolic syndrome are more pronounced in women than in men". *Scientific Reports*. 2019. 9(1). <https://doi.org/10.1038/s41598-019-54926-0>

Caetano dos Santos, Florentino Luciano et al. "Automatic classification of IgA endomysial antibody test for celiac disease: a new method deploying machine learning". *Scientific Reports*. 2019. 9(1). <https://doi.org/10.1038/s41598-019-45679-x>

Islam, Mohd Siblee et al. "Genetic similarity of biological samples to counter bio-hacking of DNA-sequencing functionality". *Scientific Reports*. 2019. 9(1). <https://doi.org/10.1038/s41598-019-44995-6>

Tiulpin, Aleksei et al. "Multimodal Machine Learning-based Knee Osteoarthritis Progression Prediction from Plain Radiographs and Clinical Data". *Scientific Reports*. 2019. 9(1). <https://doi.org/10.1038/s41598-019-56527-3>

Bainschab, Markus et al. "Aerosol gas exchange system (AGES) for nanoparticle sampling at elevated temperatures: Modeling and experimental characterization". *Scientific Reports*. 2019. 9(1). <https://doi.org/10.1038/s41598-019-53113-5>

Frankberg, Erkkka J. et al. "Highly ductile amorphous oxide at room temperature and high strain rate". *Science*. 2019, 366(6467). 864-869. <https://doi.org/10.1126/science.aav1254>

Kanerva, M. et al. "Automatization and stress analysis data of CoCr laser weld fatigue tests". *Data in Brief*. 2019. 26. <https://doi.org/10.1016/j.dib.2019.104374>

Allahham, MHD Saria et al. "DroneRF dataset: A dataset of drones for RF-based detection, classification and identification". *Data in Brief*. 2019. 26. <https://doi.org/10.1016/j.dib.2019.104313>

Railanmaa, Anna et al. "Non-toxic printed supercapacitors operating in sub-zero conditions". *Scientific Reports*. 2019. 9(1). <https://doi.org/10.1038/s41598-019-50570-w>

Lapre, Coraline et al. "Real-time characterization of spectral instabilities in a mode-locked fibre laser exhibiting soliton-similariton dynamics". *Scientific Reports*. 2019. 9(1). <https://doi.org/10.1038/s41598-019-50022-5>

Koskela, Olli et al. "Gaussian Light Model in Brightfield Optical Projection Tomography". *Scientific Reports*. 2019. 9(1). <https://doi.org/10.1038/s41598-019-50469-6>

Kim, Jiyeong et al. "Scaling and correlation properties of RR and QT intervals at the cellular level". *Scientific Reports*. 2019. 9(1). <https://doi.org/10.1038/s41598-019-40247-9>

Lehtipalo, Katrianne et al. "Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors". *Science Advances*. 2018. 4(12). <https://doi.org/10.1126/sciadv.aau5363>

Soltani, A. et al. "An Optical Method for the In-Vivo Characterization of the Biomechanical Response of the Right Ventricle". *Scientific Reports*. 2018. 8(1). <https://doi.org/10.1038/s41598-018-25223-z>

Tiulpin, Aleksei et al. "Automatic knee osteoarthritis diagnosis from plain radiographs: A deep learning-based approach". *Scientific Reports*. 2018. 8(1). <https://doi.org/10.1038/s41598-018-20132-7>

Mobarak, Edouard et al. "Glucosylceramide modifies the LPS-induced inflammatory response in macrophages and the orientation of the LPS/TLR4 complex in silico". *Scientific Reports*. 2018. 8(1). <https://doi.org/10.1038/s41598-018-31926-0>

Rashed, A. R. et al. "Highly-Sensitive Refractive Index Sensing by Near-infrared Metatronic Nanocircuits". *Scientific Reports*. 2018. 8(1). <https://doi.org/10.1038/s41598-018-29623-z>

Potapov, Ilya et al. "Information transfer in QT-RR dynamics: Application to QT-correction". *Scientific Reports*. 2018. 8(1). <https://doi.org/10.1038/s41598-018-33359-1>

Erasmus, E. P. et al. "In vitro Evaluation of Porous borosilicate, borophosphate and phosphate Bioactive Glasses Scaffolds fabricated using Foaming Agent for Bone Regeneration". *Scientific Reports*. 2018. 8(1). <https://doi.org/10.1038/s41598-018-22032-2>

Baltakys, Kstutis, Juho Kannianen, and Frank Emmert-Streib. "Multilayer Aggregation with Statistical Validation: Application to Investor Networks". *Scientific Reports*. 2018. 8(1). <https://doi.org/10.1038/s41598-018-26575-2>

- Prajapat, Mahendra Kumar and Andre S. Ribeiro. "Added value of autoregulation and multi-step kinetics of transcription initiation". *Royal Society Open Science*. 2018. 5(11). <https://doi.org/10.1098/rsos.181170>
- Warnau, Judith et al. "Redox-coupled quinone dynamics in the respiratory complex I". *Proceedings of the National Academy of Sciences of the United States of America*. 2018, 115(36). E8413-E8420. <https://doi.org/10.1073/pnas.1805468115>
- Keinänen, Pasi et al. "Optimized dispersion quality of aqueous carbon nanotube colloids as a function of sonochemical yield and surfactant/CNT ratio". *Heliyon*. 2018. 4(9). <https://doi.org/10.1016/j.heliyon.2018.e00787>
- Sartoneva, Reetta et al. "Porous poly-L-lactide-co-1-caprolactone scaffold: A novel biomaterial for vaginal tissue engineering". *Royal Society Open Science*. 2018. 5(8). <https://doi.org/10.1098/rsos.180811>
- Virkki, K. et al. "Comparison of electron injection and recombination on TiO₂ nanoparticles and ZnO nanorods photosensitized by phthalocyanine". *Royal Society Open Science*. 2018. 5(7). <https://doi.org/10.1098/rsos.180323>
- Narra, Nathaniel et al. "Ricci-flow based conformal mapping of the proximal femur to identify exercise loading effects". *Scientific Reports*. 2018. 8(1). <https://doi.org/10.1038/s41598-018-23248-y>
- Tomberg, Teemu et al. "Sub-parts-per-trillion level sensitivity in trace gas detection by cantilever-enhanced photo-acoustic spectroscopy". *Scientific Reports*. 2018. 8(1). <https://doi.org/10.1038/s41598-018-20087-9>
- Akola, J. and R. O. Jones. "Speeding up crystallization". *Science*. 2017, 358(6369). 1386. <https://doi.org/10.1126/science.aaq0476>
- Aho, Vesa et al. "Chromatin organization regulates viral egress dynamics". *Scientific Reports*. 2017. 7(1). <https://doi.org/10.1038/s41598-017-03630-y>
- Laudyn, Urszula A. et al. "Curved optical solitons subject to transverse acceleration in reorientational soft matter". *Scientific Reports*. 2017. 7(1). <https://doi.org/10.1038/s41598-017-12242-5>
- Erasmus, E. P. et al. "Effects of Sintering Temperature on Crystallization and Fabrication of Porous Bioactive Glass Scaffolds for Bone Regeneration". *Scientific Reports*. 2017. 7(1). <https://doi.org/10.1038/s41598-017-06337-2>
- Ruskamo, Salla et al. "Molecular mechanisms of Charcot-Marie-Tooth neuropathy linked to mutations in human myelin protein P2". *Scientific Reports*. 2017. 7(1). <https://doi.org/10.1038/s41598-017-06781-0>
- Kiranyaz, Serkan, Turker Ince, and Moncef Gabbouj. "Personalized Monitoring and Advance Warning System for Cardiac Arrhythmias". *Scientific Reports*. 2017. 7(1). <https://doi.org/10.1038/s41598-017-09544-z>
- Mäkelä, Jarno, Vinodh Kandavalli, and Andre S. Ribeiro. "Rate-limiting steps in transcription dictate sensitivity to variability in cellular components". *Scientific Reports*. 2017. 7(1). <https://doi.org/10.1038/s41598-017-11257-2>
- Fang, Yunnan et al. "Sensitivity enhancement of flexible gas sensors via conversion of inkjet-printed silver electrodes into porous gold counterparts". *Scientific Reports*. 2017. 7(1). <https://doi.org/10.1038/s41598-017-09174-5>
- Senju, Yosuke et al. "Mechanistic principles underlying regulation of the actin cytoskeleton by phosphoinositides". *Proceedings of the National Academy of Sciences of the United States of America*. 2017, 114(43). E8977-E8986. <https://doi.org/10.1073/pnas.1705032114>
- Rönkkö, Topi et al. "Traffic is a major source of atmospheric nanocluster aerosol". *Proceedings of the National Academy of Sciences of the United States of America*. 2017, 114(29). 7549-7554. <https://doi.org/10.1073/pnas.1700830114>

Katko, Tapio S. "Väitöstilaisuus yliopiston imagonluojana". *Tiedepolitiikka*. 2017, 42(1). 63-64.

Valkonen, Mira et al. "Analysis of spatial heterogeneity in normal epithelium and preneoplastic alterations in mouse prostate tumor models". *Scientific Reports*. 2017. 7. <https://doi.org/10.1038/srep44831>

Rissanen, Joonas et al. "Infiltrated bunch of solitons in Bi-doped frequency-shifted feedback fibre laser operated at 1450 nm". *Scientific Reports*. 2017. 7. <https://doi.org/10.1038/srep44194>

Du, Juan et al. "Surface-Enhanced Impulsive Coherent Vibrational Spectroscopy". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep36471>

Ropo, M., V. Blum and C. Baldauf. "Trends for isolated amino acids and dipeptides: Conformation, divalent ion binding, and remarkable similarity of binding to calcium and lead". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep35772>

Postila, Pekka A. et al. "Atomistic determinants of co-enzyme Q reduction at the Q_i-site of the cytochrome bc₁ complex". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep33607>

Jääskeläinen, Iiro P. et al. "Brain hemodynamic activity during viewing and re-viewing of comedy movies explained by experienced humor". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep27741>

Faggiani, Rémi et al. "Lower bound for the spatial extent of localized modes in photonic-crystal waveguides with small random imperfections". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep27037>

Noronen, Teppo et al. "1700 nm dispersion managed mode-locked bismuth fiber laser". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep24876>

Wiklund, Petri et al. "Insulin resistance is associated with altered amino acid metabolism and adipose tissue dysfunction in normoglycemic women". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep24540>

Curtze, Sven C. et al. "Step down Vascular Calcification Analysis using State-of-the-Art Nanoanalysis Techniques". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep23285>

Laudyn, Urszula A. et al. "Quasi two-dimensional astigmatic solitons in soft chiral metastructures". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep22923>

Tuukkanen, Sampo et al. "Behaviour of one-step spray-coated carbon nanotube supercapacitor in ambient light harvester circuit with printed organic solar cell and electrochromic display". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep22967>

Astola, Helena and Ioan Tabus. "On the linear programming bound for linear Lee codes". *SpringerPlus*. 2016, 5(1). 1-13. <https://doi.org/10.1186/s40064-016-1863-8>

Sand, Johan et al. "Optical detection of radon decay in air". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep21532>

Godec, Aljaz and Ralf Metzler. "First passage time distribution in heterogeneity controlled kinetics: Going beyond the mean first passage time". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep20349>

Guixà-González, Ramon et al. "Membrane omega-3 fatty acids modulate the oligomerisation kinetics of adenosine A_{2A} and dopamine D₂ receptors". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep19839>

Postila, Pekka A., Ilpo Vattulainen and Tomasz Róg. "Selective effect of cell membrane on synaptic neurotransmission". *Scientific Reports*. 2016. 6. <https://doi.org/10.1038/srep19345>

Larjo, Antti and Harri Lähdesmäki. "Using multi-step proposal distribution for improved MCMC convergence in Bayesian network structure learning". *Eurasip Journal on Bioinformatics and Systems Biology*. 2015. 2015(1). <https://doi.org/10.1186/s13637-015-0024-7>

Pulkkinen, Otto and Ralf Metzler. "Variance-corrected Michaelis-Menten equation predicts transient rates of single-enzyme reactions and response times in bacterial gene-regulation". *Scientific Reports*. 2015. 5. <https://doi.org/10.1038/srep17820>

Pessi, Tanja et al. "Interleukin-6 and microRNA profiles induced by oral bacteria in human atheroma derived and healthy smooth muscle cells". *SpringerPlus*. 2015. 4(1). <https://doi.org/10.1186/s40064-015-0993-8>

Honkela, Antti et al. "Genome-wide modeling of transcription kinetics reveals patterns of RNA production delays". *Proceedings of the National Academy of Sciences of the United States of America*. 2015, 112(42). 13115-13120. <https://doi.org/10.1073/pnas.1420404112>

Mikhailova, Alexandra et al. "Comparative proteomics reveals human pluripotent stem cell-derived limbal epithelial stem cells are similar to native ocular surface epithelial cells". *Scientific Reports*. 2015. 5. <https://doi.org/10.1038/srep14684>

Sharma, Vivek et al. "Redox-induced activation of the proton pump in the respiratory complex I". *Proceedings of the National Academy of Sciences of the United States of America*. 2015, 112(37). 11571-11576. <https://doi.org/10.1073/pnas.1503761112>

Sariola, Veikko et al. "Segmented molecular design of self-healing proteinaceous materials". *Scientific Reports*. 2015. 5. <https://doi.org/10.1038/srep13482>

Rasappa, Sozaraj et al. "A Highly Efficient Sensor Platform Using Simply Manufactured Nanodot Patterned Substrates". *Scientific Reports*. 2015. 5. <https://doi.org/10.1038/srep13270>

Lukovic, Dunja et al. "Human iPSC derived disease model of MERTK-associated retinitis pigmentosa". *Scientific Reports*. 2015. 5. <https://doi.org/10.1038/srep12910>

Mathis, Amaury et al. "Caustics and rogue waves in an optical sea". *Scientific Reports*. 2015. 5. <https://doi.org/10.1038/srep12822>

Bauer, Maximilian et al. "Real sequence effects on the search dynamics of transcription factors on DNA". *Scientific Reports*. 2015. 5. <https://doi.org/10.1038/srep10072>

Reverey, Julia F. et al. "Superdiffusion dominates intracellular particle motion in the supercrowded cytoplasm of pathogenic *Acanthamoeba castellanii*". *Scientific Reports*. 2015. 5. <https://doi.org/10.1038/srep11690>

Toenger, Shanti et al. "Emergent rogue wave structures and statistics in spontaneous modulation instability". *Scientific Reports*. 2015. 5. <https://doi.org/10.1038/srep10380>

Gundem, Gunes et al. "The evolutionary history of lethal metastatic prostate cancer". *Nature*. 2015, 520(7547). 353-357. <https://doi.org/10.1038/nature14347>

Kaszuba, Karol et al. "N-Glycosylation as determinant of epidermal growth factor receptor conformation in membranes". *Proceedings of the National Academy of Sciences of the United States of America*. 2015, 112(14). 4334-4339. <https://doi.org/10.1073/pnas.1503262112>

- Turner, Kristen M. et al. "Genomically amplified Akt3 activates DNA repair pathway and promotes glioma progression". *Proceedings of the National Academy of Sciences of the United States of America*. 2015, 112(11). 3421-3426. <https://doi.org/10.1073/pnas.1414573112>
- Sharma, V. et al. "Proton-coupled electron transfer and the role of water molecules in proton pumping by cytochrome c oxidase". *Proceedings of the National Academy of Sciences of the United States of America*. 2015, 112(7). 2040-2045. <https://doi.org/10.1073/pnas.1409543112>
- Tubio, Jose M.C. et al. "Extensive transduction of nonrepetitive DNA mediated by L1 retrotransposition in cancer genomes". *Science*. 2014. 345(6196). <https://doi.org/10.1126/science.1251343>
- Akamatsu, Norihisa et al. "Facile strain analysis of largely bending films by a surface-labelled grating method". *Scientific Reports*. 2014. 4. <https://doi.org/10.1038/srep05377>
- Fan, Yue Mei et al. "Upstream Transcription Factor 1 (USF1) allelic variants regulate lipoprotein metabolism in women and USF1 expression in atherosclerotic plaque". *Scientific Reports*. 2014. 4. <https://doi.org/10.1038/srep04650>
- Margvelashvili, Ann et al. "Tooth wear and dentoalveolar remodeling are key factors of morphological variation in the Dmanisi mandibles". *Proceedings of the National Academy of Sciences of the United States of America*. 2013, 110(43). 17278-17283. <https://doi.org/10.1073/pnas.1316052110>
- Paci, Michelangelo, Loris Nanni and Stefano Severi. "An ensemble of classifiers based on different texture descriptors for texture classification". *Journal of King Saud University - Science*. 2013, 25(3). 235-244. <https://doi.org/10.1016/j.jksus.2012.12.001>
- Zhang, TongGang G. et al. "Active optical clock based on four-level quantum system". *Chinese Science Bulletin*. 2013, 58(17). 2033-2038. <https://doi.org/10.1007/s11434-013-5877-0>
- Li, Jing et al. "Transient formation of water-conducting states in membrane transporters". *Proceedings of the National Academy of Sciences of the United States of America*. 2013, 110(19). 7696-7701. <https://doi.org/10.1073/pnas.1218986110>
- Haider, Shozeb et al. "Structure-phenotype correlations of human CYP21A2 mutations in congenital adrenal hyperplasia". *Proceedings of the National Academy of Sciences of the United States of America*. 2013, 110(7). 2605-2610. <https://doi.org/10.1073/pnas.1221133110>
- Eriksson, Urszula Kosinska et al. "Subangstrom resolution x-ray structure details aquaporin-water interactions". *Science*. 2013, 340(6138). 1346-1349. <https://doi.org/10.1126/science.1234306>
- Kalimeri, Maria et al. "Entropy analysis of word-length series of natural language texts: Effects of text language and genre". *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*. 2012. 22(9). <https://doi.org/10.1142/S0218127412502239>
- Levin, Elena J. et al. "Structure and permeation mechanism of a mammalian urea transporter". *Proceedings of the National Academy of Sciences of the United States of America*. 2012, 109(28). 11194-11199. <https://doi.org/10.1073/pnas.1207362109>
- Emmert-Streib, Frank et al. "A Bayesian analysis of the chromosome architecture of human disorders by integrating reductionist data". *Scientific Reports*. 2012. 2. <https://doi.org/10.1038/srep00513>
- Jungwirth, Pavel. "Physical chemistry: Water's wafer-thin surface". *Nature*. 2011, 474(7350). 168-169. <https://doi.org/10.1038/474168a>

