

- Zeng H, Lahikainen M, Liu L, Ahmed Z, Wani OM, Wang M et al. **Light-fuelled freestyle self-oscillators**. *Nature Communications*. 2019 Nov 7;10(1). 5057. <https://doi.org/10.1038/s41467-019-13077-6>
- Yi H, Albrecht M, Valkonen A, Rissanen K. **Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as  $\pi$ -acceptors for anions**. *New Journal of Chemistry*. 2015 Jan 1;39(1):746-749. <https://doi.org/10.1039/c4nj01654h>
- Wacharine I, Valkonen A, Rzaigui M, Smirani W. **Synthesis, crystal structure, spectral, dielectric characteristics and conduction mechanism of two novel carboxylates of 1-benzhydrylpiperazine**. *Monatshefte fur Chemie*. 2015;146(12):2007-2020. <https://doi.org/10.1007/s00706-015-1553-1>
- Vishtal A, Retulainen E. **Improving the extensibility, wet web and dry strength of paper by addition of agar**. *Nordic Pulp and Paper Research Journal*. 2014;29(3):434-443.
- Virtanen T, Penttilä PA, Maloney TC, Grönqvist S, Kamppuri T, Vehviläinen M et al. **Impact of mechanical and enzymatic pretreatments on softwood pulp fiber wall structure studied with NMR spectroscopy and X-ray scattering**. *Cellulose*. 2015 Jun;22(3):1565-1576. <https://doi.org/10.1007/s10570-015-0619-x>
- Vehviläinen M, Kamppuri T, Gronqvist S, Rissanen M, Maloney T, Honkanen M et al. **Dissolution of enzyme-treated cellulose using freezing thawing method and the properties of fibres regenerated from the solution**. *Cellulose*. 2015 Jun;22(3):1653-1674. <https://doi.org/10.1007/s10570-015-0632-0>
- Vartiainen J, Tuominen M, Nättinen K. **Bio-Hybrid Nanocomposite Coatings from Sonicated Chitosan and Nanoclay**. *Journal of Applied Polymer Science*. 2010;116(6):3638-3647. <https://doi.org/10.1002/app.31922>
- Vapaavuori J, Ras RHA, Kaivola M, Bazuin CG, Priimägi A. **From partial to complete optical erasure of azobenzene-polymer gratings: effect of molecular weight**. *Journal of Materials Chemistry C*. 2015;3(42):11011-11016. <https://doi.org/10.1039/C5TC01776A>
- Vaikuntam SR, Stöckelhuber KW, Subramani Bhagavatheswaran E, Wießner S, Scheler U, Saalwächter K et al. **Entrapped Styrene Butadiene Polymer Chains by Sol-Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures**. *Journal of Physical Chemistry B*. 2018 Feb 15;122(6):2010-2022. <https://doi.org/10.1021/acs.jpcc.7b11792>
- Tuominen M, Teisala H, Aromaa M, Stepien M, Mäkelä JM, Saarinen JJ et al. **Creation of superhydrophilic surfaces of paper and board**. *Journal of Adhesion Science and Technology*. 2014;28(8-9):864-879. <https://doi.org/10.1080/01694243.2012.697744>
- Tuominen M. **The name of the thesis: Surface Treatment in Extrusion Coating, Topic: The Influence of Corona and Flame Treatment on Sealability of Extrusion Coated Paper**. In Kärkkäinen S, editor, PaPSaT, International Doctoral Programme in Pulp and Paper Science and Technology in Finland, Yearbook 2010. 2010. p. 1-5
- Tuominen M, Ek M, Saloranta P, Toivakka M, Kuusipalo J. **The effect of flame treatment on surface properties and heat sealability of low-density polyethylene coating**. *Packaging Technology and Science*. 2013;26(4):201-214. <https://doi.org/10.1002/pts.1975>
- Tuominen M. **The name of the thesis: Atmospheric Plasma Treatment in Extrusion Coating, Topic: The Effect of Flame Treatment on the Sealability of Extrusion Coated Paper**. In Kärkkäinen S, editor, PaPSaT, International Doctoral Programme in Pulp and Paper Science and Technology in Finland, Yearbook 2011. Espoo: Aalto University School of science and technology. 2011. p. 1-5
- Tuominen M, Lahti J, Kuusipalo J. **Effects of flame and corona treatment on extrusion coated paper properties**. *TAPPI Journal*. 2011;10(10):29-36.

Tuominen J, Näkki J, Pajukoski H, Nyyssönen T, Ristonen T, Peltola T et al. **High performance wear and corrosion resistant coatings by novel cladding techniques**. In Sudarshan TS, Vuoristo P, Koivuluoto H, editors, Surface Modification Technologies XXVIII: Proceedings of the 28th International Conference on Surface Modification Technologies. Valardocs. 2015. p. 105-117

Timonen J, Antikainen M, Das A, Sarlin E, Vuorinen J. **Towards material excellence: Evaluation of Tekes' programmes on materials**. Tekes, 2016. 61 p.

Temerov F, Pham K, Juuti P, Mäkelä JM, Grachova EV, Kumar S et al. **Silver-Decorated TiO<sub>2</sub> Inverse Opal Structure for Visible Light-Induced Photocatalytic Degradation of Organic Pollutants and Hydrogen Evolution**. ACS Applied Materials & Interfaces. 2020 Sep 16;12(37):41200-41210. <https://doi.org/10.1021/acsami.0c08624>

Teisala H, Tuominen M, Aromaa M, Stepien M, Mäkelä JM, Saarinen JJ et al. **High- and low-adhesive superhydrophobicity on the liquid flame spray-coated board and paper: structural effects on surface wetting and transition between the low- and high-adhesive states**. Colloid and Polymer Science. 2013;291(2):447-455. <https://doi.org/10.1007/s00396-012-2833-5>

Teisala H, Tuominen M, Aromaa M, Stepien M, Mäkelä JM, Saarinen JJ et al. **Nanostructures Increase Water Droplet Adhesion on Hierarchically Rough Superhydrophobic Surfaces**. Langmuir. 2012;28(6):3138-3145. <https://doi.org/10.1021/la203155d>

Teisala H, Tuominen M, Stepien M, Haapanen J, Mäkelä JM, Saarinen JJ et al. **Wettability conversion on the liquid flame spray generated superhydrophobic TiO<sub>2</sub> nanoparticle coating on paper and board by photocatalytic decomposition of spontaneously accumulated carbonaceous overlayer**. Cellulose. 2013;20(1):391-408. <https://doi.org/10.1007/s10570-012-9825-y>

Teisala H, Tuominen M, Kuusipalo J. **Adhesion Mechanism of Water Droplets on Hierarchically Rough Superhydrophobic Rose Petal Surface**. Journal of Nanomaterials. 2011;2011:1-6. 818707. <https://doi.org/10.1155/2011/818707>

Taddeo R, Kolppo K, Lepistö R. **Sustainable nutrients recovery and recycling by optimizing the chemical addition sequence for struvite precipitation from raw swine slurries**. Journal of Environmental Management. 2016 Sep 15;180:52-58. <https://doi.org/10.1016/j.jenvman.2016.05.009>

Stepien M, Saarinen JJ, Teisala H, Tuominen M, Aromaa M, Kuusipalo J et al. **Surface chemical analysis of photocatalytic wettability conversion of TiO<sub>2</sub> nanoparticle coating**. Surface and Coatings Technology. 2012;208:73-79. <https://doi.org/10.1016/j.surfcoat.2012.08.008>

Stepien M, Saarinen JJ, Teisala H, Tuominen M, Aromaa M, Kuusipalo J et al. **Surface chemical characterization of nanoparticle coated paperboard**. Applied Surface Science. 2012;258(7):3119-3125. <https://doi.org/10.1016/j.apsusc.2011.11.048>

Sriplai N, Mangayil R, Pammo A, Santala V, Tuukkanen S, Pinitsoontorn S. **Enhancing piezoelectric properties of bacterial cellulose films by incorporation of MnFe<sub>2</sub>O<sub>4</sub> nanoparticles**. Carbohydrate Polymers. 2019 Dec 10;231. <https://doi.org/10.1016/j.carbpol.2019.115730>

Solismaa S, Ismailov A, Karhu M, Sreenivasan H, Lehtonen M, Kinnunen P et al. **Valorization of Finnish mining tailings for use in the ceramics industry**. BULLETIN OF THE GEOLOGICAL SOCIETY OF FINLAND. 2018;90(1):33-54. <https://doi.org/10.17741/bgsf/90.1.002>

Siljander S, Lehmonen J, Tanaka A, Ketoja J, Heikkilä P, Lahti J et al. **The effect of physical adhesion promotion treatments on interfacial adhesion in cellulose-epoxy composite**. In Proceedings of the 20th International Conference on Composite Materials. 2015

Sarlin EL, Lindgren M, Suihkonen RJ, Siljander SMK, Kakkonen MMS, Vuorinen JE. **High-temperature slurry erosion of vinylester matrix composites – The effect of test parameters**. Wear. 2015;328-329:488-497. <https://doi.org/10.1016/j.wear.2015.03.021>

Sarlin E, Rosling A, Mustakangas M, Laihonon P, Lindgren M, Vuorinen J. **Diffusion of acidic solution through rubber at high temperature and its effect on metal-rubber interface degradation.** In Proceedings of SAMPE Europe Conference. 2015

Saarimaa V, Kaleva A, Paunikallio T, Nikkanen J-P, Heinonen S, Levänen E et al. **Convenient extraction method for quantification of thin zinc patina layers.** Surface and Interface Analysis. 2018;50(5):564-570. <https://doi.org/10.1002/sia.6429>

Saarikoski E, Rissanen M, Seppälä J. **Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming.** Carbohydrate Polymers. 2015 Mar 30;119:62-70. <https://doi.org/10.1016/j.carbpol.2014.11.033>

Ramamoorthy SK, Skrifvars M, Rissanen M. **Effect of alkali and silane surface treatments on regenerated cellulose fibre type (Lyocell) intended for composites.** Cellulose. 2015;22(1):637-654. <https://doi.org/10.1007/s10570-014-0526-6>

Qvintus P, Kataja K, Heikkilä P, Salmela J, Lehmonen J, Ketoja J et al. **Design driven world of cellulose-from bulk to luxury?** In Fibre Value Chain Conference and Expo 2014: Pulp and Paper Bioenergy Bioproducts. Appita Inc. 2014. p. 67-74

Puranen J, Laakso J, Honkanen M, Heinonen S, Kymälähti M, Lugowski S et al. **High temperature oxidation tests for the high velocity solution precursor flame sprayed manganese-cobalt oxide spinel protective coatings on SOFC interconnector steel.** International Journal of Hydrogen Energy. 2015 May 18;40(18):6216-6227. <https://doi.org/10.1016/j.ijhydene.2015.02.129>

Peltola J, Kallio S, Honkanen M, Saarenrinne P. **Image based measurement of particle phase reynolds stresses in a laboratory scale circulating fluidized bed.** In 7th International Conference on Multiphase Flow ICMF2010, May 30 - June 4, 2010, Tampa, Florida. 2010. p. 1-9

Nikkanen J-P, Kaleva A, Saarimaa V, Honkanen M, Vuorinen T, Heinonen S et al. **Utilization of CO<sub>2</sub> in modification of galvanized steel surface.** 2018. Paper presented at The International Symposium on Inorganic and Environmental Materials 2018, Ghent, Belgium.

Mylläri V, Ruoko TP, Järvelä P. **The effects of UV irradiation to polyetheretherketone fibres: Characterization by different techniques.** Polymer Degradation and Stability. 2014;109:278-284. <https://doi.org/10.1016/j.polymdegradstab.2014.08.003>

Mayrhofer E, Janka L, Mayr WP, Norpoth J, Rodriguez Ripoll M, Gröschl M. **Cracking resistance of Cr<sub>3</sub>C<sub>2</sub>-NiCr and WC-Cr<sub>3</sub>C<sub>2</sub>-Ni thermally sprayed coatings under tensile bending stress.** Surface and Coatings Technology. 2015 Nov 15;281:169-175. <https://doi.org/10.1016/j.surfcoat.2015.09.002>

Markert F, Breedveld L, Lahti J, Vangeneugden D. **Development of sustainable paper coatings using nanoscale industrial.** In i-SUP 2010, Innovation for Sustainable Production, Conference 4, Materials for Sustainable Production, Bruges, Belgium, 18-21 April, 2010. 2010. p. 80-84

Mangayil R, Rajala S, Pammo A, Sarlin E, Luo J, Santala V et al. **Engineering and Characterization of Bacterial Nanocellulose Films as Low Cost and Flexible Sensor Material.** ACS Applied Materials & Interfaces. 2017;9(22):19048-19056. <https://doi.org/10.1021/acsami.7b04927>

Mäkelä JM, Aromaa M, Teisala H, Tuominen M, Stepien M, Saarinen JJ et al. **Nanoparticle Deposition from Liquid Flame Spray onto Moving Roll-to-Roll Paperboard Material.** Aerosol Science and Technology. 2011;45(7):827-837. <https://doi.org/10.1080/02786826.2011.566292>

Mahtabani A, Rytöluoto I, He X, Saarimäki E, Lahti K, Paajanen M et al. **Solution Modified Fumed Silica and Its Effect on Charge Trapping Behavior of PP/POE/Silica Nanodielectrics.** In Proceedings of the 26th Nordic Insulation Symposium . NTNU, Norway: Nordic Insulation Symposium. 2019. p. 129-133. (Proceedings of the Nordic Insulation Symposium ).

<https://doi.org/10.5324/nordis.v0i26.3292>

Lindroos M, Laukkanen A, Cailletaud G, Kuokkala V-T. **On the effect of deformation twinning and microstructure to strain hardening of high manganese austenitic steel 3D microstructure aggregates at large strains.** International Journal of Solids and Structures. 2017;125:68-76. <https://doi.org/10.1016/j.ijsolstr.2017.07.015>

Levänen E, Singh A. **Titanium oxide based nanoparticles by laser ablation in supercritical carbon dioxide.** 2018. Paper presented at The 8th International Conference on Manipulation, Manufacturing and measurement on the Nanoscale, China.

Leppänen A. **Modeling Fume Particle Dynamics and Deposition with Alkali Metal Chemistry in Kraft Recovery Boilers.** Tampere: Tampere University of Technology, 2015. 63 p. (Tampere University of Technology. Publication).

Leppänen A, Tran H, Taipale R, Välimäki E, Oksanen A. **Numerical modeling of fine particle and deposit formation in a recovery boiler.** Fuel. 2014 Aug 1;129:45-53. <https://doi.org/10.1016/j.fuel.2014.03.046>

Leppänen A, Tran H, Välimäki E, Oksanen A. **Modelling fume deposit growth in recovery boilers: effect of flue gas and deposit temperature.** Journal of Science and Technology for Forest Products and Processes. 2014;4(1):50-57.

Leppänen A, Välimäki E, Oksanen A. **Simulation of ash-forming compounds in the kraft recovery boiler.** In 10th European Conference on Industrial Furnaces and Boilers. Porto, Portugal. 2015

Leppänen A, Välimäki E. **Improving Recovery Boiler Availability through Understanding Fume Behavior.** TAPPI Journal. 2016 Mar;15(3):187-193.

Lepcha A, Maccato C, Mettenböcker A, Andreu T, Mayrhofer L, Walter M et al. **Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance.** Journal of Physical Chemistry C. 2015 Aug 20;119(33):18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>

Leduc J, Gönüllü Y, Ruoko T-P, Fischer T, Mayrhofer L, Tkachenko NV et al. **Electronically Coupled Uranium and Iron Oxide Heterojunctions as Efficient Water Oxidation Catalysts.** Advanced Functional Materials. 2019 Oct 3. 1905005. <https://doi.org/10.1002/adfm.201905005>

Layek RK, Uddin ME, Kim NH, Tak Lau AK, Lee JH. **Noncovalent functionalization of reduced graphene oxide with pluronic F127 and its nanocomposites with gum arabic.** Composites Part B : Engineering. 2017 Nov 1;128:155-163. <https://doi.org/10.1016/j.compositesb.2017.07.010>

Larkomaa J, Niinimäki J, Honkanen M, Hanif M, Saarenrinne P. **Effect of fibre properties on flocculation and fractionation of cellulosic fibres in dry state.** Journal of Engineered Fibers and Fabrics. 2010;5(1):1-10.

Lahtinen K, Johansson P, Kääriäinen T, Cameron DC. **Adhesion of Extrusion-Coated Polymer Sealing Layers to a Fiber-Based Packaging Material with an Atomic Layer Deposited Aluminum Oxide Surface Coating.** Polymer Engineering and Science. 2012;52(9):1985-1990. <https://doi.org/10.1002/pen.23148>

Lahtinen K, Johansson P, Kääriäinen T, Maydannik P, Cameron D, Kuusipalo J. **Toward more controlled, nanoscale barrier layers in packaging.** Plastics Research Online. 2012;(17th August):1-3. <https://doi.org/10.2417/spepro.004237>

Lahtinen K, Maydannik P, Johansson P, Kääriäinen T, Cameron DC, Kuusipalo J. **Utilisation of continuous atomic layer deposition process for barrier enhancement of extrusion-coated paper.** Surface and Coatings Technology. 2011;205(15):3916-3922. <https://doi.org/10.1016/j.surfcoat.2011.02.009>

Lahti J, Eiroma K, Tenhunen T-M, Pykönen M, Toivakka M, Tuominen M. **Atmospheric Plasma Treatment of Plastic Packaging Film: Effects on Surface Properties and UV Inkjet Printability.** In 13th TAPPI European PLACE Conference, Bregenz, Austria, 30 May - 1 June, 2011. Norcross, GA: TAPPI. 2011. p. 1-31. (TAPPI European PLACE Conference).

Lahti J, Lavonen J. **Nanoscale surface processing of extrusion coated substrates and plastic films with atmospheric plasma activation and deposition.** In TAPPI PLACE Conference 2012, Helping Me Do My Job Better, Seattle, Washington, USA, 6-9 May 2012. TAPPI Press; Curran Associates, Inc. 2012. p. 588-600. (TAPPI PLACE Conference).

Lahti J, Eiroma K, Tenhunen T-M, Pykönen M, Toivakka M. **Influence of Atmospheric Plasma Treatment on Surface Properties and Inkjet Printability of Plastic Packaging Film.** In Enlund N, Lovrecek M, editors, *Advances in Printing and Media Technology*. 2010. p. 197-203

Lahti J, Lavonen J. **Nanoscale Surface Processing of Extrusion Coated Substrates and Plastic Films with Atmospheric Plasma Activation and Deposition.** In Vähä-Nissi M, editor, *Novel nanostructured polymeric materials for food packaging and beyond*, International COST Workshop, Espoo, Finland, September 15-16, 2011. VTT Symposium. Espoo: VTT. 2011. p. 29-30. (International COST Workshop).

Köliö A, Honkanen M, Lahdensivu J, Vippola M, Pentti M. **Corrosion products of carbonation induced corrosion in existing reinforced concrete facades.** *Cement and Concrete Research*. 2015 Dec;78:200-207.  
<https://doi.org/10.1016/j.cemconres.2015.07.009>

Köliö A, Honkanen M, Lahdensivu J. **Corrosion propagation phase studies on Finnish reinforced concrete facades.** In 1st International Symposium on Building Pathology: ISBP 2015. Porto: FEUP Edicoes (Faculdade de Engenharia da Universidade do Porto Edicoes). 2015

Koivuluoto H, Stenroos C, Ruohomaa R, Bolelli G, Lusvarghi L, Vuoristo P. **Research on icing behavior and ice adhesion testing of icephobic surfaces.** In 16th International Workshop on Atmospheric Icing of Structures, IWAIS 2015, June 28-July 3, 2015, Uppsala, Sweden. 2015. p. 183-188

Koivula HM, Jalkanen L, Saukkonen E, Ovaska S-S, Lahti J, Christophliemk H et al. **Machine-coated starch-based dispersion coatings prevent mineral oil migration from paperboard.** *Progress in Organic Coatings*. 2016;99:173-181.  
<https://doi.org/10.1016/j.porgcoat.2016.05.017>

Khan M, Koivisto J, Hukka T, Hokka M, Kellomäki M. **Composite Hydrogels Using Bioinspired Approach with in Situ Fast Gelation and Self-Healing Ability as Future Injectable Biomaterial.** *ACS Applied Materials & Interfaces*. 2018 Apr 11;10(14):11950-11960. <https://doi.org/10.1021/acsami.8b01351>

Keipi T, Hankalin V, Nummelin J, Raiko R. **Techno-economic analysis of four concepts for thermal decomposition of methane: Reduction of CO<sub>2</sub> emissions in natural gas combustion.** *Energy Conversion and Management*. 2016;110:1-12.  
<https://doi.org/10.1016/j.enconman.2015.11.057>

Keipi T, Tolvanen KES, Tolvanen H, Kontinen J. **Thermo-catalytic decomposition of methane: The effect of reaction parameters on process design and the utilization possibilities of the produced carbon.** *Energy Conversion and Management*. 2016 Oct;126:923-934. <https://doi.org/10.1016/j.enconman.2016.08.060>

Keipi T, Li T, Løvås T, Tolvanen H, Kontinen J. **Methane thermal decomposition in regenerative heat exchanger reactor: Experimental and modeling study.** *Energy*. 2017 Sep 15;135:823-832. <https://doi.org/10.1016/j.energy.2017.06.176>

Keipi T, Tolvanen H, Kontinen J. **Economic analysis of hydrogen production by methane thermal decomposition: Comparison to competing technologies.** *Energy Conversion and Management*. 2018 Mar 1;159:264-273.  
<https://doi.org/10.1016/j.enconman.2017.12.063>

Kastinen T, da Silva Filho DA, Paunonen L, Linares M, Ribeiro Junior LA, Cramariuc O et al. **Electronic couplings and rates of excited state charge transfer processes at poly(thiophene-co-quinoxaline)-PC<sub>71</sub>BM interfaces: two- versus multi-state treatments.** *Physical Chemistry Chemical Physics*. 2019 Nov 1;21(46):25606-25625.  
<https://doi.org/10.1039/C9CP04837E>

Kärkkäinen M, Kolli T, Honkanen M, Heikkinen O, Huuhtanen M, Kallinen K et al. **The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts-Part I: Activity Measurements, Elementary and Surface Analyses.** Topics in Catalysis. 2015 Oct;58(14):961-970. <https://doi.org/10.1007/s11244-015-0464-z>

Kamppuri T, Vehviläinen M, Backfolk K, Heiskanen I. **Characterization of endoglucanase rich Trichoderma reesei cellulase mixtures and their effect on alkaline solubility of dissolving pulp.** Cellulose. 2016 Dec;23(6):3901–3911. <https://doi.org/10.1007/s10570-016-1055-2>

Kääriäinen TO, Maydannik P, Cameron DC, Lahtinen K, Johansson P, Kuusipalo J. **Atomic layer deposition on polymer based flexible packaging materials: Growth characteristics and diffusion barrier properties.** Thin Solid Films. 2011;519(10):3146-3154. <https://doi.org/10.1016/j.tsf.2010.12.171>

Johansson K, Christophliemk H, Johansson C, Jönsson LJ, Järnström L. **The effects of coating structure and water-holding capacity on the oxygen-scavenging capacity of enzymes embedded in the coating layer.** In 12th TAPPI Advanced Coating Fundamentals Symposium Proceedings, September 10-12, 2012, Atlanta, USA. TAPPI. 2012. p. 57-69. (TAPPI Advanced Coating Fundamentals Symposium).

Johansson K, Christophliemk H, Jönsson LJ, Järnström L. **Effect of Pigment Volume Concentration and Drying Aspects on the Enzyme Activity of Clay Coatings.** In 11th Advanced Coating Fundamentals Symposium Proceedings, The Latest Advances in Coating Research and Development, 11-13 October 2010, Munich, Germany. USA: TAPPI Press. 2010. p. 129-143. (TAPPI Advanced Coating Fundamentals Symposium).

Johansson P, Lahtinen K, Kuusipalo J, Kääriäinen T, Maydannik P, Cameron D. **Atomic layer deposition process for barrier applications of flexible packaging.** In TAPPI 2010 PLACE Conference, April 18-21, 2010, Albuquerque NM, USA. 2010. p. 1-12

Järvinen H, Honkanen M, Oja O, Järvenpää M, Peura P. **Microstructure-property relationships of novel ultra-high strength press hardening steels.** Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science. 2019;50(2):816-836. <https://doi.org/10.1007/s11661-018-4967-7>

Honkanen M, Eloranta H, Saarenrinne P. **Digital imaging measurement of dense multiphase flows in industrial processes.** Flow Measurement and Instrumentation. 2010;21(1):25-32. <https://doi.org/10.1016/j.flowmeasinst.2009.11.001>

Honkanen M, Jung J, Kuo CJ, Peles Y, Amitay M. **Two-phase PIV/PTV measurement of bubbly flow across pin fins in a micro-channel.** In 7th International Conference on Multiphase Flow ICMF2010, May 30 - June 4, 2010, Tampa, Florida. 2010. p. 1-9

Honkanen M, Kärkkäinen M, Heikkinen O, Kallinen K, Kolli T, Huuhtanen M et al. **The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts-Part II: Characterization of Structural Changes by Transmission Electron Microscopy.** Topics in Catalysis. 2015 Oct;58(14):971-976. <https://doi.org/10.1007/s11244-015-0465-y>

Hiltunen A, Lahtonen K, Saari J, Ojanperä A, Sarlin E, Wondraczek H et al. **Tailored Fabrication of Transferable and Hollow Weblike Titanium Dioxide Structures.** ChemPhysChem. 2017;18:64-71. <https://doi.org/10.1002/cphc.201600930>

Higashino T, Yamada T, Yamamoto M, Furube A, Tkachenko NV, Miura T et al. **Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer.** Angewandte Chemie (International Edition). 2016;55(2):629-633. <https://doi.org/10.1002/anie.201509067>

Heinonen S, Kannisto M, Nikkanen J-P, Huttunen-Saarivirta E, Karp M, Levänen E. **Photocatalytic and antibacterial properties of ZnO films with different surface topographies on stainless steel substrate.** Thin Solid Films. 2016 Oct 1;616:842-849. <https://doi.org/10.1016/j.tsf.2016.10.002>

He X, Benniston AC, Lemmetyinen H, Tkachenko NV. **Charge Shift/Recombination and Triplet Formation in a Closely-Spaced Molecular Dyad based on a Borondipyrromethene (Bodipy) and an Expanded Acridinium Cation.**

ChemPhotoChem. 2018 Mar;2(3):277-282. <https://doi.org/10.1002/cptc.201700184>

Harra J, Juuti P, Haapanen J, Sorvali M, Roumeli E, Honkanen M et al. **Coating of Silica and Titania Aerosol Nanoparticles by Silver Vapor Condensation.** Aerosol Science and Technology. 2015 Sep 2;49(9):767-776.

<https://doi.org/10.1080/02786826.2015.1072263>

Haapanen J, Aromaa M, Teisala H, Tuominen M, Stepien M, Saarinen JJ et al. **Two-component aerosol nanoparticle coating for paperboard on roll-to-roll process.** In EAC-2012 Granada, European Aerosol Conference, 2-7 Sept 2012, Granada, Spain. EAA, AECTA. 2012. p. 1-1. (European Aerosol Conference EAC).

Grönqvist S, Treimanis A, Kamppuri T, Maloney T, Skute M, Grinfelds U et al. **The effect of the outermost fibre layers on solubility of dissolving grade pulp.** Cellulose. 2015;22(6):3955-3965. <https://doi.org/10.1007/s10570-015-0709-9>

Grönqvist S, Kamppuri T, Maloney T, Vehviläinen M, Liitiä T, Suurnäkki A. **Enhanced pre-treatment of cellulose pulp prior to dissolution into NaOH/ZnO.** Cellulose. 2015 Dec;22(6):3981-3990. <https://doi.org/10.1007/s10570-015-0742-8>

Gonzalez JA, Tarao H, Korpinen L. **The Effect of ELF electric fields on Implantable Cardioverter Defibrillators (ICD).** In The Bioelectromagnetics Society 34th Annual Meeting, June 17, 2012 - June 22, 2012, Brisbane, Australia. The Bioelectromagnetics Society. 2012. p. 104-106. (The Bioelectromagnetics Society Annual Meeting).

Frankberg EJ, George L, Efimov A, Honkanen M, Pessi J, Levänen E. **Measuring synthesis yield in graphene oxide synthesis by modified hummers method.** Fullerenes Nanotubes and Carbon Nanostructures. 2015 Sep 2;23(9):755-759. <https://doi.org/10.1080/1536383X.2014.993754>

Eregowda T. **Anaerobic treatment and resource recovery from methanol rich waste gases and wastewaters.** Tampere University, 2019. 211 p. (Tampere University Dissertations).

Diao F, Liang W, Tian F, Wang Y, Vivo P, Efimov A et al. **Preferential Attachments of Organic Dyes onto {101} Facets of TiO<sub>2</sub> Nanoparticles.** Journal of Physical Chemistry C. 2015 Apr 23;119(16):8960-8965.

<https://doi.org/10.1021/acs.jpcc.5b01369>

Carver SM, Nelson MC, Yu Z, Tuovinen OH. **Fermentative metabolism of an anaerobic, thermophilic consortium on plant polymers and commercial paper samples.** Biomass & Bioenergy. 2015 Apr 1;75:11-22.

<https://doi.org/10.1016/j.biombioe.2015.02.005>

Bollström R, Tuominen M, Määttänen A, Peltonen J, Toivakka M. **Top layer coatability on barrier coatings.** In TAPPI's PaperCon 2011, May 1-4, 2011, Covington, KY, USA. Paper 360 - Special PaperCon Edition. Norcross, GA: TAPPI. 2011. p. 1-11. (TAPPI International Conference Papercon).

Bollström R, Tuominen M, Määttänen A, Peltonen J, Toivakka M. **Top layer coatability on barrier coatings.** Progress in Organic Coatings. 2012;73(1):26-32. <https://doi.org/10.1016/j.porgcoat.2011.08.015>

Beyeh NK, Valkonen A, Bhowmik S, Pan F, Rissanen K. **N-Alkyl ammonium resorcinarene salts: multivalent halogen-bonded deep-cavity cavitands.** Organic chemistry frontiers. 2015;2(4):340-345. <https://doi.org/10.1039/c4qo00326h>

Assoah B, Veiros LF, R. Candeias N. **Pinacol-Derived Chlorohydrosilane in Metal-Free Reductive Amination for the Preparation of Tertiary Alkylphenolmethyl Amines.** Organic Letters. 2019 Feb 15;21(5):1402-1406.

<https://doi.org/10.1021/acs.orglett.9b00121>

Aromaa M, Haapanen J, Teisala H, Tuominen M, Kuusipalo J, Stepien M et al. **Deposition of flame synthesised nanoparticles on paperboard surface.** In NOSA & FAAR 2011, Nordic Aerosol Symposium, November 9-11, 2011, Tampere, Finland. Tampere: Nordic Society for Aerosol Research. 2011. p. 17-17. (Nordic Aerosol Symposium NOSA & FAAR).

Aromaa M, Haapanen J, Teisala H, Tuominen M, Kuusipalo J, Stepien M et al. **Flame deposition of superhydrophobic and superhydrophilic nanoparticle coating on paperboard materials.** In Nanotechnology 2012: Advanced Materials, CNTs, Particles, Films and Composites - 2012 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2012, Santa Clara, CA, USA, 18-21 June 2012. Nano Science and Technology Institute NSTI. 2012. p. 365-367. (Nanotechnology Conference and Expo Nanotech).

Aromaa M, Arffman A, Suhonen H, Haapanen J, Keskinen J, Honkanen M et al. **Atmospheric synthesis of superhydrophobic TiO<sub>2</sub> nanoparticle deposits in a single step using Liquid Flame Spray.** Journal of Aerosol Science. 2012;52:57-68. <https://doi.org/10.1016/j.jaerosci.2012.04.009>

Ali-Löyty H, Valden M, Hannula M, Eilert A, Ogasawara H, Nilsson A. **Chemical Dissolution of Pt(111) During Potential Cycling Under Negative pH Conditions Studied by Operando X-ray Photoelectron Spectroscopy.** Journal of Physical Chemistry C. 2019 Sep 25;123(41):25128-25134. <https://doi.org/10.1021/acs.jpcc.9b05201>

Aghaee M, Maydannik PS, Johansson P, Kuusipalo J, Creatore M, Homola T et al. **Low temperature temporal and spatial atomic layer deposition of TiO<sub>2</sub> films.** Journal of Vacuum Science & Technology A. 2015 Jul;33(4). 041512. <https://doi.org/10.1116/1.4922588>