

## ИМЕ И ПРЕЗИМЕ: Patrick Gane Aalto University Helsinki (име и презиме и универзитет)

### РАДОВИ У МЕЃУНАРОДНИМ ЧАСОПИСИМА

#### M21a међународни часописи изузетних вредности (16 радова)

1. **Gane P.A.C.**, Kettle J.P, Matthews G.P. and Ridgway C.J. (1996) Void Space Structure of Compressible Polymer Spheres and Consolidated Calcium Carbonate Paper-Coating Formulations. Ind. Eng. Chem. Res. 35, 1753-1764 (ISSN: 0888-5885; Engineering, Chemical (9/105) IF (1997) = 1,211)
2. Schölkopf J, **Gane P.A.C.**, Ridgway C.J. and Matthews G.P. (2000) Influence of Inertia on Liquid Absorption into Paper Coating Structures. Nordic Pulp and Paper Research Journal, Vol 15 No.5, pp422-430 (ISSN: 0283-2631; Materials Science, Paper & Wood (2/20) IF (2000) = 0,759)
3. Rousu S., **Gane P.A.C.**, Spielmann D.C. and Eklund D. (2000) Separation of Offset Ink Components during Absorption into Pigment Coating Structures. Nordic Pulp and Paper Research Journal, Vol 15 No.5/2000, pp527-553 (ISSN: 0283-2631; Materials Science, Paper & Wood (2/20) IF (2000) = 0,759)
4. Brandner B.D., Hansson P.M., Swerin A., Claesson P.M., Wåhländer M., Schoelkopf J. and **Gane P.A.C.** (2011) Solvent segregation and capillary evaporation at a superhydrophobic surface investigated by confocal Raman microscopy and force measurements. Soft Matter, 7, 1045–1052 (ISSN: 1744-683X; Polymer Science (7/79) IF (2011) = 4,390)
5. Ridgway C.J., and **Gane P.A.C.** (2012) Constructing NFC-pigment composite surface treatment for enhanced paper stiffness and surface properties. Cellulose, 19/2, 547-560 (ISSN: 0969-0239; Materials Science, Paper & Wood (1/22) IF (2012) = 3,476)
6. Tåg C-M., Rajala P., Toiviainen M., Juuti M. and **Gane P.A.C.** (2013) Combining simulation and on-line measurements to determine moisture transport dynamics throughout the heatset offset printing process. Applied Thermal Engineering, Vol. 50, Issue 1, 1021–1028 (ISSN: 1359-4311; Engineering, Mechanical (10/128) IF (2013) = 2,624)
7. Ridgway C.J. and Gane P.A.C. (2013) Size-selective absorption and adsorption in anionic pigmented porous coating structures: case study cationic starch polymer versus nanofibrillated cellulose. Cellulose, Vol. 20, 933-951 (ISSN: 0969-0239; Materials Science, Paper & Wood (1/21) IF (2013) = 3,033)
8. Dimic-Misic K., Puisto A., **Gane P.**, Nieminen K., Alava M., Paltakari J. and Maloney T., (2013) The role of MFC/NFC swelling in the rheological behavior and dewatering of high consistency furnishes. Cellulose, 20, 2847–2861 (ISSN: 0969-0239; Materials Science, Paper & Wood (1/21) IF (2013) = 3,033)
9. Dimic-Misic K., Maloney T., Liu G., **Gane P.** (2017) Micro nanofibrillated cellulose (MNFC) gel dewatering induced at ultralow-shear in presence of added colloiddally-unstable particles. Cellulose, 24, 1463–1481 (ISSN: 0969-0239; Materials Science, Paper & Wood (1/21) IF (2017) = 3,809)
10. Liu G., Maloney T., Dimic-Misic K., **Gane P.** (2017) Acid dissociation of surface bound water on cellulose nanofibrils in aqueous micro nanofibrillated cellulose (MNFC) gel revealed by adsorption of calcium carbonate nanoparticles under the application of ultralow shear. Cellulose 24, 3155–3178 (ISSN: 0969-0239; Materials Science, Paper & Wood (1/21) IF (2017) = 3,809)

11. Dimic-Misic K., Maloney T., **Gane P.** (2018) Effect of fibril length and surface charge on ultralow shear-induced structuring in micro and nanofibrillated cellulose aqueous suspensions. *Cellulose*, 25, 117–136 (ISSN: 0969-0239; Materials Science, Paper & Wood (1/21) IF (2017) = 3,809)
12. Phiri J., Johansson L-S., **Gane P.**, Maloney T.C. (2018) A comparative study of mechanical, thermal and electrical properties of graphene-, graphene oxide- and reduced graphene oxide-doped microfibrillated cellulose nanocomposites. *Composites Part B: Engineering*, 147, 104-113 (ISSN: 1359-8368; Engineering, Multidisciplinary (3/86) IF (2017) = 4,920)
13. Phiri J., Johansson L-S., **Gane P.** and Maloney T.C. (2018) Co-exfoliation and fabrication of graphene based microfibrillated cellulose composites – mechanical and thermal stability and functional conductive properties. *Nanoscale*, 10(20), 9569-9582 (ISSN: 2040-3364; Materials Science, Multidisciplinary (23/275) IF (2016) = 7,367)
14. Schenker M., Schoelkopf J., **Gane P.**, Mangin P. (2018) Influence of shear rheometer measurement system selection on rheological properties of microfibrillated cellulose (MFC) suspensions. *Cellulose*, 25, 961–976 (ISSN: 0969-0239; Materials Science, Paper & Wood (1/21) IF (2017) = 3,809)
15. Afsahi G., Dimic-Misic K., **Gane P.**, Budtova T., Maloney T., Vuorinen T. (2018) The investigation of rheological and strength properties of NFC hydrogels and aerogels from hardwood pulp by short catalytic bleaching (Hcat ). *Cellulose*, 25, 1637–1655 (ISSN: 0969-0239; Materials Science, Paper & Wood (1/21) IF (2017) = 3,809)
16. Jutila E., Koivunen R., Kiiski I., Bollström R., Sikanen T., and **Gane P.** (2018) Microfluidic Lateral Flow Cytochrome P450 Assay on a Novel Printed Functionalized Calcium Carbonate-Based Platform for Rapid Screening of Human Xenobiotic Metabolism. *Adv. Funct. Mater.* 28, 1802793-1802803 (ISSN: 1616-301X; Chemistry, Multidisciplinary (11/171) IF (2017) = 13,325)

**M21 врхунски међународни часописи (80 радова)**

1. Boles M.O., Girven R.J. and **Gane P.A.C.** (1978) The structure of amoxycillin trihydrate (Amoxyl<sup>®</sup>) and a comparison with the structures of ampicillin. *Acta Cryst.* B34, 461-466 (ISSN: 2052-5206; Crystallography (6/26) IF (2015) = 2,892)
2. **Gane P.A.C.** and Boles M.O. (1979) The structure of the methyl ester of 5,5 - dimethyl - 2 -(2 - phenoxymethyl - 5 - oxo - 1,3 - oxazolin - 4 - ylidene) - 1, thiazolidine - 4 - carboxylic acid. *Acta Cryst.* B35, 2664-2667 (ISSN: 2052-5206; Crystallography (6/26) IF (2015) = 2,892)
3. **Gane P.A.C.**, Boles M.O. and Bird A.E. (1980) The structure of the sodium salt of carfecillin. *Acta Cryst.* B38, 929-931 (ISSN: 2052-5206; Crystallography (6/26) IF (2015) = 2,892)
4. **Gane P.A.C.**, Kathirgamanathan P. and Rosseinsky D.R. (1981) Conductive mixed-halide adducts of tetra-thiafulvalene obtained by electrocrystallisation. *JCS Chem Comm* 378-379 (ISSN: 1359-7345; Chemistry (current - Chemistry, ...) (9/111) IF (1997) = 3,200)
5. **Gane P.A.C.**, Leadbetter A.J., Tucker P.A., Gray G.W. and Tajbakhsh A.R. (1982) The phase behaviour of two thiol esters (12S5 and 14S5). *J. Chem Phys* 77 (12) Am Inst. Phys. 6215-6217 (ISSN: 0021-9606; Physics, Atomic, Molecular & Chemical (2/14) IF (1982) = 2,947)

6. **Gane P.A.C.** and Leadbetter A.J. (1983) Modulated crystal B phases and B to G transitions. J. Phys. C: 16 2059-2067 (ISSN: 0022-3719; Physics, Condensed Matter (6/24) IF (1983) = 2,712)
7. Ridgway C.J. and **Gane P.A.C.** (2002) Controlling the absorption dynamic of water-based ink into porous pigmented coating structures to enhance print performance. Nordic Pulp and Paper Research Journal, Vol 17 no. 2, pp119-129 (ISSN: 0283-2631; Materials Science, Paper & Wood (4/18) IF (2002) = 0,739)
8. Ridgway C.J., Shoelkopf J. and **Gane P.A.C.**, (2003) A new method for measuring the liquid permeability of coated and uncoated papers and boards. Nordic Pulp and Paper Research Journal Vol 18, no. 4, pp 377-381 (ISSN: 0283-2631; Materials Science, Paper & Wood (3/18) IF (2003) = 0,683)
9. Ridgway C.J. and **Gane P.A.C.** (2003) Bulk density measurement and coating porosity calculation for coated paper samples. Nordic Pulp and Paper Research Journal, Vol. 18, No. 1, pp24-31 (ISSN: 0283-2631; Materials Science, Paper & Wood (3/18) IF (2003) = 0,683)
10. Rousu S., **Gane P.A.C.** and Eklund D.E. (2005) Print quality and the distribution of offset ink constituents in paper coatings. Tappi Journal 4, No. 7, pp9-15 (ISSN: 0734-1415; Materials Science, Paper & Wood (3/18) IF (2005) = 0, 946) **listed amongst outstanding papers for 2005 in Tappi Journal (Awarded best coating paper in Tappi J 2006).**
11. Laudone G.M., Matthews G.P. and **Gane P.A.C.** (2004) Observation of Shrinkage during Evaporative Drying of Water-Based Paper Coatings. Industrial and Engineering Chemistry Research (ACS), Vol. 43, No. 3, pp 712 - 719 (ISSN: 0888-5885; Engineering, Chemical (17/116) IF (2004) = 1,424)
12. **Gane P.A.C.**, Ridgway C.J., Lehtinen E., Valiullin R., Furó I., Schoelkopf J., Paulapuro H., and Daicic J. (2004) Comparison of NMR Cryoporometry, Mercury Intrusion Porosimetry, and DSC Thermoporosimetry in Characterizing Pore Size Distributions of Compressed Finely Ground Calcium Carbonate Structures. Ind. Eng. Chem. Res., 43 (24), 7920 -7927 (ISSN: 0888-5885; Engineering, Chemical (17/116) IF (2004) = 1,424)
13. Guéra N., Schoelkopf J., **Gane P.A.C.** and Rauatmaa I. (2005) Comparing Colloidal Pitch Adsorption on Different Talcs. Nordic Pulp and Paper Journal Vol. 20, no. 2, pp156-163 (ISSN: 0283-2631; Materials Science, Paper & Wood (2/19) IF (2004) = 1,024)
14. Laudone G.M., Matthews G.P., **Gane P.A.C.**, Ridgway C. J. and Schoelkopf J. (2005) Estimation of the effective particle sizes within a paper coating layer using a void network model. Chemical Engineering Science, Vol 60/23 pp 6795-6802 (ISSN: 0009-2509; Engineering, Chemical (24/116) IF (2008) = 1,884)
15. Laudone G.M., Matthews G.P. and **Gane P.A.C.** (2006) Effect of latex volumetric concentration on viscosity, void structure and effective particle size distribution in a pigmented coating layer. Industrial and Engineering Chemistry Research 45, 1918-1923 (ISSN: 0888-5885; Engineering, Chemical (23/110) IF (2006) = 1,518)
16. **Gane P.A.C.**, Ridgway C.J., Schoelkopf J., and Bousfield D.W. (2007) Heat Transfer through Calcium Carbonate-Based Coating Structures: Observation and Model for a Thermal Fusing Process, Journal of Pulp and Paper Science, Vol. 33, No. 2, 60-70 (ISSN: 0826 6220; Materials Science, Paper & Wood (2/18) IF (2007) = 0,833)

17. Lattaud K., Vilminot S., Hirlimann C., Parnat H., Schoelkopf J. and **Gane P.A.C.** (2006) Index of refraction enhancement of calcite particles coated with zinc carbonate. *Solid State Sciences* 8, 1222-1228 (ISSN: 1293-2558; Physics, Condensed Matter (17/58) IF (2006) = 1,752)
18. Wallqvist V., Claesson P.M., Swerin A., Schoelkopf J. and **Gane P.A.C.** (2007) Interaction forces between talc and pitch probed by AFM. *Langmuir*, 23 (8), 4248 -4256 (ISSN: 0743-7463; Chemistry, Physical (21/110) IF (2007) = 4,009)
19. Ridgway C.J. and **Gane P.A.C.** (2007) Effect of Latex and Pigment Volume Concentrations on Suspension and Consolidated Particle Packing and Coating Strength. *Journal of Pulp and Paper Science*, Vol. 33, No. 2, pp71-78 (ISSN: 0826 6220; Materials Science, Paper & Wood (2/18) IF (2007) = 0,833)
20. **Gane P.A.C.**, Ridgway C.J. and Barceló E. (2006) Analysis of pore structure enables improved tablet delivery systems. *Powder Technology* 169, 77-83 (ISSN: 0032-5910; Engineering, Chemical (26/116) IF (2008) = 1,766)
21. **Gane P.A.C.** and Ridgway C.J. (2009) Moisture pickup in Calcium Carbonate Coating Structures: role of surface and pore structure geometry. *Nordic Pulp and Paper Research Journal*, Vol. 24, No. 3, 298-308 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/20) IF (2009) = 0,854)
22. Benecke F., Gantenbein D., Schoelkopf J., **Gane P.A.C.** and Gliese T. (2009) Organic contaminants in recycled paper: a model study of the adsorbent properties of talc for idealised component suspensions. *Nordic Pulp and Paper Research Journal* Vol. 24, No. 2, 219-224 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/20) IF (2009) = 0,854)
23. Gantenbein D., Schoelkopf J., Hunziker P., Matthews G.P. and **Gane P.A.C.** (2009) Efficiency of colloidal pitch adsorption onto phyllosilicates: comparing talc, chlorite and pyrophyllite. *Nordic Pulp and Paper Research Journal* Vol. 24 No. 4, 448-458 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/20) IF (2009) = 0,854)
24. Wallqvist V., Claesson P., Swerin A., Schoelkopf J. and **Gane P.A.C.** (2009) Influence of wetting and dispersing agents on the interaction between talc and hydrophobic particles. *Langmuir*, 25 (12), 6909–6915 (ISSN: 0743-7463; Chemistry, Physical (26/121) IF (2009) = 3,898)
25. Wallqvist V., Claesson P.M., Swerin A., Östlund C., Schoelkopf J. and **Gane P.A.C.** (2009) Influence of surface topography on adhesive and long-range capillary forces between hydrophobic surfaces in water. *Langmuir*, 25 (16), 9197–9207 (ISSN: 0743-7463; Chemistry, Physical (26/121) IF (2009) = 3,898)
26. Gerstner P. and **Gane P.A.C.** (2010) Fusing of electrophotographic toner on thermally engineered coated paper. *Nord. Pulp Paper Res. J.* 25(1),100-106 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/20) IF (2009) = 0,854)
27. Kamal Alm H., Ström G., Karlström K., Schoelkopf J. and **Gane P.A.C.** (2010), Effect of excess dispersant on surface properties and liquid interactions with calcium carbonate-containing coatings. *Nordic Pulp and Paper Research Journal* Vol. 25, No. 1, 82-92 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/20) IF (2009) = 0,854)
28. Kettle J.P., Lamminmäki T. and **Gane P.A.C.** (2010) A review of modified surfaces for high speed inkjet coating. *Surface & Coatings Technology* 204, 2103–2109 (ISSN: 0257-8972; Materials Science, Coatings & Films (2/18) IF (2010) = 2,141)

29. Tåg C-M., Juuti M., Koivunen K. and **Gane P.A.C.** (2010) Dynamic water transport in a pigmented porous coating medium: novel study of droplet absorption and evaporation by near infra-red probe spectroscopy. *Industrial and Engineering Chemistry Research*, 49, 4181–4189 (ISSN: 0888-5885; Engineering, Chemical (29/135) IF (2010) = 2,072)
30. Lamminmäki T., Kettle J.P., Puukko P., Ketoja J. and **Gane P.A.C.** (2010) The role of binder type in determining inkjet print quality. *Nordic Pulp and Paper Research Journal*, vol. 25, no. 3, 380-390 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/20) IF (2009) = 0,854)
31. Gantenbein D., Schoelkopf J, **Gane P.A.C.** and Matthews G.P. (2010) Influence of pH on the adsorption efficiency of talc for dissolved and colloidal substances in a thermo-mechanical pulp filtrate. *Nordic Pulp and Paper Research Journal*, Vol 25 no. 3, 288-299 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/20) IF (2009) = 0,854)
32. Tåg C-M., Toiviainen M, Juuti M. and **Gane P.A.C.** (2010) Dynamic analysis of temporal moisture profiles in heatset printing studied with near infra-red probe spectroscopy. *Meas. Sci. Technol.* Vol. 21, No. 10, 105602 (11pp) doi:10.1088/0957-0233/21/10/105602 (ISSN: 0957-0233; Engineering, Multidisciplinary (20/87) IF (2010) = 1,353)
33. Ridgway C.J, Schoelkopf J. and **Gane P.A.C.** (2011) Response to isopropanol or ionic/non-ionic surfactant in the competitive imbibition of water and alkane into calcium carbonate coating structures. *Nordic Pulp and Paper Research Journal*, Vol 26 no.1, 151-159 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/20) IF (2009) = 0,854)
34. Gribble C.M., Matthews G.P., Laudone G.M., Turner A., Ridgway C.J., Schoelkopf J. and **Gane P.A.C.** (2011) Porometry, porosimetry, image analysis and void network modelling in the study of the pore-level properties of filters. *Chemical Engineering Science*, vol. 66, Issue: 16, 3701-3709 (ISSN: 0009-2509; Engineering, Chemical (26/133) IF (2011) = 2,431)
35. Tåg C-M, Toiviainen M., Juuti M., Ridgway C., and **Gane P.A.C.** (2011) Online Detection of Moisture in Heatset Printing: the Role of Substrate Structure during Liquid Transfer. *Industrial and Engineering Chemistry Research*, 50 (8), 4446–4457 (ISSN: 0888-5885; Engineering, Chemical (30/133) IF (2011) = 2,237)
36. Hansson P.M., Skedung L., Claesson P.M., Swerin A., Schoelkopf J., **Gane P.A.C.**, Rutland M.W. and Thormann E. (2011) Robust hydrophobic surfaces displaying different surface roughness scales while maintaining the same wettability. *Langmuir*, 27 (13), 8153–8159 (ISSN: 0743-7463; Chemistry, Physical (28/134) IF (2011) = 4,186)
37. Gribble C.M., Matthews G.P., Turner A., Gantenbein D., Schoelkopf J. and **Gane P.A.C.** (2011) Equilibrium coefficients for the adsorption of colloidal stickies onto mineral suspension particulates to improve paper recycling. *Nordic Pulp and Paper Research Journal*, 26(4) 421-427 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/20) IF (2009) = 0,854)
38. Lamminmäki T., Kettle J., Rautkoski H., Kokko A. and **Gane P.** (2011) Limitations of Current Formulations when Decreasing the Coating Layer Thickness of Papers for Inkjet Printing. *Ind. Eng. Chem. Res.* 50, 7251–7263 (ISSN: 0888-5885; Engineering, Chemical (30/133) IF (2011) = 2,237)
39. Gantenbein D., Schoelkopf J., Matthews G.P. and **Gane P.A.C.** (2012) The development of hydrophobised ground calcium carbonate particles for the effective adsorption of dissolved and colloidal substances (DCS) from thermo mechanical pulp (TMP) filtrates. *Nordic Pulp and Paper Research Journal* vol 27 no.1, 93-103 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/22)

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	51. Silfsten P., Dutta R., Pääkkönen P., Tåg C-M., <b>Gane P.A.C.</b> and Peiponen K-E. (2012) Surface roughness and gloss study of prints: application of specular reflection at near infrared. <i>Meas. Sci. Technol.</i> 23 125202 (8pp) (ISSN: 0957-0233; Engineering, Multidisciplinary (21/90) IF (2012) = 1,435)
	52. Hansson P.M., Hormozan Y., Brandner B.D., Linnros J., Claesson P.M., Swerin A., Schoelkopf J., <b>Gane P.A.C.</b> , Thormann E. (2013) Hydrophobic pore array surfaces: wetting and interaction forces in water/ethanol mixtures. <i>Journal of Colloid and Interface Science</i> 396, 278–286 (ISSN: 0021-9797; Chemistry, Physical (38/136) IF (2013) = 3,552)
	53. Ridgway C.J. and <b>Gane P.A.C.</b> (2013) Taking a fresh look at optical crowding of TiO <sub>2</sub> : the role of nanocarbonate as synergistic optical extender. <i>J. Phys. D: Appl. Phys.</i> 46 415302 (14pp) (ISSN: 0022-3727; Physics, Applied (30/136) IF (2013) = 2,521)
	54. Ridgway C.J., Weihs J., Grossmann O., Hunziker P. and <b>Gane P.A.C.</b> (2013) Designing nanotechnology coatings for replacement of fibrous white top liner. <i>Nordic Pulp and Paper Research Journal</i> , Vol 28, no 4, 560-572 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/22) IF (2012) = 1,071)
	55. Tåg C-M., <b>Gane P.A.C.</b> (2013) Transport of immiscible vapour pressure contrasting liquids in multiple nip impressions: application to heatset offset printing of paper. <i>Ind. Eng. Chem. Res.</i> , 52 (44), 15602–15612 (ISSN: 0888-5885; Engineering, Chemical (36/133) IF(2013) = 2,235)
	56. Andersson L., Ridgway C.J. and <b>Gane P.A.C.</b> (2013) Defining the mechanism of sizepress starch penetration in filled unsized fibrous products - a traditional technology revisited. <i>Nordic Pulp and Paper Research Journal</i> , Vol. 28, No. 4, 547-559 (ISSN: 0283-2631; Materials Science, Paper & Wood (6/22) IF (2012) = 1,071)
	57. Dimic-Misic K., <b>Gane P.A.C.</b> , Paltakari J. (2013) Micro- and Nanofibrillated Cellulose as a Rheology Modifier Additive in CMC-Containing Pigment-Coating Formulations. <i>Ind. Eng. Chem. Res.</i> , 52 (45), 16066–16083 (ISSN: 0888-5885; Engineering, Chemical (36/133) IF (2013) = 2,235)
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РЕЗУЛТАТИ У РАЗВОЈУ ОБРАЗОВНО- НАУЧНЕ ОБЛАСТИ	<p>У својој каријери професор Gane је био активан у широком спектру истраживачких области укључујући: структуру кристала, посебно структуру и физичка својства антибиотика (Research Assistant, University of Plymouth, 1976-1979); течне кристале (Research Fellow at the University of Exeter, 1979-1981); примену минерала као адитива у производњи папира, као и бојама за штампу и наслојавање папира; превлаке и лепкове, и функционалне пуниоце у индустрији пластичних материјала (Head of Paper Coating Research, English China Clays, UK, 1981-1994 и на садашњој позицији у Omya International AG, Switzerland, 1995 - ). У последње време његова истраживања су фокусирана на интеракцију течности и топлоте са комплексним порозним медијима, укључујући нано-феномене у области штампања, екологије и композитних материјала.</p> <p>У току свог рада у ECC International у одељењу за R&amp;D/Technical Service, напредовао је од <i>Research Scientist</i> у 1981 до <i>Leader of Paper Science and Technology</i> 1992. године. Овај период његовог рада карактерише интеграција фундаменталних истраживања у области наслојавања папира, развоја различитих превлака и метода за њихово наношење са концептом потпуне услуге за кориснике. Преласком 1995. године у OMYA Plüss-Staufe AG, Швајцарска, на позицију Vice President of Research and Development, као природни наставак својих ранијих истраживања у области папира, започиње истраживања у области пигмената за папир, од производње и модификовања минералних система до развоја нових области и техника њихове примене. У свом раду показује велику иновативност тако да су многа техничка решења и развијене формулације заштићена патентним регистрованим широм света (професор Gane је проналазач на 286 корпоративних патената). Фундаментална истраживања механизма наслојавања папира применом ножа и ваљака резултовала су патентом (Gane EP 0198622 B1) који је и комерцијализован (Valmet (Metso) Opticoat и the Mitsubishi-Beloit BA1500), а предавање професора Gane-а 1992. године на ову тему одржано на Tappi Coating Conference, Orlando USA, награђено је као најбоље предавање. Изузетан успех самих истраживања, праћен пословним успехом компаније, као и његова нова позиција Head of Global R&amp;D у новооснованом огранку компаније, Omya Development AG, омогућили су му годишњи буџет за истраживања од 4,5 милиона евра.</p>

	<p>Каснија истраживања порозних структура, квашљивости површине и притабилности била су усмерена на развој пигмената и формулација за наслојавање папира и мастила за штампу, како за конвенционалну и без воденог медијума офсет штампу, тако и за гравуру и флексографију уз примену како растварача тако и воде. Добијени резултати омогућили су развој пигмената за ink jet, non-impact и coldset offset штампу, а за презентовање резултата на Tappi Coating Conference у Мајамију 2007 добио је награду.</p> <p>Истраживања у области нанотехнологија и микробиологије у сарадњи са University of Warwick, England, довела су до развоја и примене јединствене инструментације за бактериолошку анализу белих пигмената и минералног муља у реалном времену, која користе индустрије папира, фармацеутских производа, пречишћавања воде, боја и прехранбених производа и даље.</p> <p>Под његовим руководством компанија Omya је често пласирана међу топ 20 најиновативнијих компанија у Швајцарској (Швајцарска се сматра водећом земљом у свету по питању R&amp;D и иновација) – нпр. 2016 #18 и 2017 #19.</p> <p><b>Награде:</b> Своју прву Tappi награду (Division Technical Award), праћену Engelhard Medallion-ом, добио је 1997. godine od Tappi Coating and Graphic Arts Division за изузетна достигнућа која су унапредила индустрију целулозе и папира, а 2013. године изабран је за Tappi Fellow-a. Добитник је двоструке шведске Кемпе награде (Swedish Kempe Prize) за своје корпоративно (2010. године) и индустријско истраживање (2011. године) у области интеракција течности и порозних структура, која се сматрају фундаменталним за развој брзих инк-џет штампарских медија. Награду CPhI 2015 – за најиновативнију технологију у области помоћних средстава и активних фармацеутских састојака (excipients and active pharmaceutical ingredients (APIs)). Од 2016. године Honorary Faculty member на University of Swansea, UK, а од 2017. године и почасни доктор наука на University of Plymouth.</p> <p>Професор Gane је током досадашњег рада радио као рецензент националних/интернационалних пројеката за следеће организације/фондације:</p> <ul style="list-style-type: none"> <li>- Appointed Reviewer for Phase I Project Funding Call, Slovenian Research Agency, 2013.</li> <li>- Project reviewer for STW, Project Funding Authority for The Netherlands, 2015</li> <li>- Matera Tekes review</li> <li>- Knowledge Foundation project review</li> <li>- Centre of Excellence application Shaanxi Province, Xi'an University of Technology, China</li> </ul>
<b>ЦИТИРАНОСТ НАУЧНИХ РЕЗУЛТАТА</b>	<p>На основу базе података SCOPUS, на дан 27.11.2018, радови професора Gane-а су цитирани 1487 пута у научној литератури, без самоцитата свих коаутора. Вредност <i>h</i> индекса је 19.</p>

МЕЂУНАРОДНА РЕПУТАЦИЈА	ГОСТ УРЕДНИК МЕЂУНАРОДНОГ ЧАСОПИСА	
	ПРЕДСЕДАВАО МЕЂУНАРОДНИМ НАУЧНИМ КОНФЕРЕНЦИЈАМА	<ul style="list-style-type: none"> <li>- Scientific Programme Committee member of the annual Conference of the International Association of Research Organizations for the Information, Media and Graphic Arts Industries (iarigai), од 2014.</li> <li>- Chairman of the technical programme Committee of the annual Conference of the International Association of research Organizations for the Information, Media and Graphic Arts Industries (iarigai), од 2015.</li> <li>- Scientific Programme Committee of the triennial Paper and Coating Chemistry Symposium</li> <li>- Strategic and Technical Programme Committees member of the PulPaper Conference, од 2014.</li> </ul>
	ЧЛАНСТВО У УРЕЂИВАЧКИМ ОДБОРИМА МЕЂУНАРОДНИХ НАУЧНИХ ЧАСОПИСА	<ul style="list-style-type: none"> <li>- Scientific Advisory Board of the Nordic Pulp and Paper Research Journal</li> <li>- Scientific Advisory Board of the Journal of Print and Media Technology Research (iarigai)</li> </ul>
	АУТОР МЕЂУНАРОДНЕ МОНОГРАФИЈЕ	<p><b>Монографска студија/поглавље у књизи М11, или раду тематском зборнику водећег међународног значаја (М13)</b></p> <ol style="list-style-type: none"> <li>1. Schwarzentruher P. and <b>Gane P.A.C.</b> (2002) Application of Microbicides for the Storage Protection of Mineral Dispersions. pp. 251-262, in: Ed. Paulus W., Directory of Microbicides for the Protection of Materials and Processes: Dordrecht: Kluwer Academic Publishers (ISBN 1-4020-2817-2)</li> <li>2. Laudone G.M., Matthews G.P., <b>Gane P.A.C.</b> (2003) Indirect measurement of shrinkage forces acting during the drying of a paper coating layer. pp. 1-22, In: Ed. K.L. Mittal, Contact Angle, Wettability and Adhesion, Vol 3, CRC Press (ISBN 9789067643917)</li> <li>3. <b>Gane P.A.C.</b> and Ridgway C.J.R. (2009), Coating layer measurement and analysis techniques. pp.398-430, In book: Ed. J. Paltakari, Pigment coating and surface sizing of paper, Edition: 2 April 2009, Chapter: 12, Publisher: Paper Engineers' Association/Paperi ja Puu Oy</li> <li>4. <b>Gane P.A.C.</b>, Paltakari J. (2009) Development trends and future outlook. p. 597-604, in: Book 11, Pigment coating and surface sizing. "Engineers' Association/Paperi", P. &amp; Oy, P. (eds.). Jyväskylä</li> <li>5. <b>Gane P. A. C.</b> (2009) Dynamics of printed droplets nanosurface technology development. in: Clarke, A. (ed.). Dynamics of Printed Droplets II, Institute of Physics, London</li> <li>6. <b>Gane P. A. C.</b> (2009) Ground Calcium Carbonate. pp. 24-117, in: Paltakari, J. (ed.). Pigment Coating. 2. ed. ed. Finland: Fapet Oy, p. Vol. 11, Chapter 5,</li> <li>7. Subramanian R., Hiltunen E. and <b>Gane P.A.C.</b> (2011), Potential Use of Micro- and Nanofibrillated Cellulose Composites Exemplified by Paper. In book: Eds. Kalia S.; Kaith B. S.; Kaur I., "Cellulose Fibers: Bio- and Nano-Polymer Composites: Green Chemistry and Technology", Chapter 5 Part II "Cellulosic Fiber Reinforced Polymer Composites and Nanocomposites", Springer Verlag, 1st Edition, 750 p., ISBN: 978-3-642-17369-1.</li> <li>8. Liu G., Zhang X., Zhang M., <b>Gane P.</b> (2017) Revealing the components at work in classical liquid imbibition models Inertial, bosanquet and viscous lucas-washburn applied to printing. in Lecture Notes in Electrical Engineering (Springer-Verlag) ISBN: 978-981-10-3529-6; ISSN: 1876-1100</li> </ol>

<b>НАПОМЕНА</b>	<p>Професор Gane је члан управног одбора (Board member) the International Association of Research Organizations for the Information, Media and Graphic Arts Industries (iarigai).</p> <p>Од 2016. године Професор Gane је Honorary Faculty member на University of Swansea, UK, а од 2017. године и почасни доктор наука на University of Plymouth.</p> <p>Професор Gane је проналазач на 286 корпоративних патената.</p>
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