

# Jyrki M Mäkelä

## List of Publications by Year in descending order

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33  
papers

748  
citations

566801

15  
h-index

525886

27  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast Processing of Hierarchical Nanotexture for a Transparent Superamphiphobic Coating with Extremely Low Roll-Off Angle and High Impalement Pressure. <i>Advanced Materials</i> , 2018, 30, e1706529.	11.1	117
2	Comparison of mobility equivalent diameter with Kelvin-Thomson diameter using ion mobility data. <i>Journal of Chemical Physics</i> , 1996, 105, 1562-1571.	1.2	65
3	Achieving a slippery, liquid-infused porous surface with anti-icing properties by direct deposition of flame synthesized aerosol nanoparticles on a thermally fragile substrate. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	57
4	Icephobicity of Slippery Liquid Infused Porous Surfaces under Multiple Freeze-Thaw and Ice Accretion-Detachment Cycles. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800828.	1.9	57
5	Nanoparticle Deposition from Liquid Flame Spray onto Moving Roll-to-Roll Paperboard Material. <i>Aerosol Science and Technology</i> , 2011, 45, 827-837.	1.5	49
6	Titania and titania-silver nanoparticle deposits made by Liquid Flame Spray and their functionality as photocatalyst for organic- and biofilm removal. <i>Catalysis Letters</i> , 2006, 111, 127-132.	1.4	44
7	Wetting hysteresis induced by temperature changes: Supercooled water on hydrophobic surfaces. <i>Journal of Colloid and Interface Science</i> , 2016, 468, 21-33.	5.0	40
8	Size-selected agglomerates of SnO <sub>2</sub> nanoparticles as gas sensors. <i>Journal of Applied Physics</i> , 2009, 106, 084316.	1.1	39
9	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. <i>Cellulose</i> , 2013, 20, 391-408.	2.4	31
10	Comparison of Three Particle Number Concentration Calibration Standards Through Calibration of a Single CPC in a Wide Particle Size Range. <i>Aerosol Science and Technology</i> , 2012, 46, 1163-1173.	1.5	27
11	On-Line Characterization of Morphology and Water Adsorption on Fumed Silica Nanoparticles. <i>Aerosol Science and Technology</i> , 2011, 45, 1441-1447.	1.5	26
12	Antimicrobial characterization of silver nanoparticle-coated surfaces by "touch test" method. <i>Nanotechnology, Science and Applications</i> , 2017, Volume 10, 137-145.	4.6	26
13	Long-term corrosion protection by a thin nano-composite coating. <i>Applied Surface Science</i> , 2015, 357, 2333-2342.	3.1	21
14	Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	19
15	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. <i>Colloid and Polymer Science</i> , 2013, 291, 447-455.	1.0	15
16	Second-harmonic response of multilayer nanocomposites of silver-decorated nanoparticles and silica. <i>Scientific Reports</i> , 2014, 4, 5745.	1.6	13
17	Aerosol analysis of residual and nanoparticle fractions from spray pyrolysis of poorly volatile precursors. <i>AIChE Journal</i> , 2017, 63, 881-892.	1.8	13
18	Study of the PM Gas-Phase Filter Artifact Using a Setup for Mixing Diesel-Like Soot and Hydrocarbons. <i>Aerosol Science and Technology</i> , 2012, 46, 1045-1052.	1.5	12

#	ARTICLE	IF	CITATIONS
19	Review on Liquid Flame Spray in paper converting: Multifunctional superhydrophobic nanoparticle coatings. Nordic Pulp and Paper Research Journal, 2014, 29, 747-759.	0.3	11
20	Synthesis of Pd-Alumina and Pd-Lanthana Suspension for Catalytic Applications by One-step Liquid Flame Spray. Catalysis Letters, 2007, 119, 172-178.	1.4	10
21	Preparation of ZrO <sub>2</sub> fine particles by CVD process: Thermal decomposition of zirconium tert-butoxide vapor. Journal of Materials Science, 2004, 39, 4923-4929.	1.7	8
22	Surface-Enhanced Impulsive Coherent Vibrational Spectroscopy. Scientific Reports, 2016, 6, 36471.	1.6	8
23	Ordered multilayer silica-metal nanocomposites for second-order nonlinear optics. Applied Physics Letters, 2013, 103, 251907.	1.5	6
24	Surface-enhanced Raman scattering active substrates by liquid flame spray deposited and inkjet printed silver nanoparticles. Optical Review, 2014, 21, 339-344.	1.2	5
25	Real-time effective density monitor (DENSMO) for aerosol nanoparticle production. Aerosol Science and Technology, 2016, 50, 487-496.	1.5	5
26	Planar fluidic channels on TiO <sub>2</sub> nanoparticle coated paperboard. Nordic Pulp and Paper Research Journal, 2016, 31, 232-238.	0.3	4
27	Characteristics of nFOG, an aerosol-based wet thin film coating technique. Journal of Coatings Technology Research, 2018, 15, 623-632.	1.2	4
28	Switchable water absorption of paper via liquid flame spray nanoparticle coating. Cellulose, 2014, 21, 2033-2043.	2.4	3
29	Coating of Silica and Titania Aerosol Nanoparticles by Silver Vapor Condensation. Aerosol Science and Technology, 2015, 49, 767-776.	1.5	3
30	Comparison of different coating techniques on the properties of FucoPol films. International Journal of Biological Macromolecules, 2017, 103, 268-274.	3.6	2
31	Roll-to-roll manufacturing of disposable surface-enhanced Raman scattering (SERS) sensors on paper based substrates. Nordic Pulp and Paper Research Journal, 2017, 32, 222-228.	0.3	2
32	Characterization of flame coated nanoparticle surfaces with antibacterial properties and the heat-induced embedding in thermoplastic-coated paper. SN Applied Sciences, 2019, 1, 1.	1.5	2
33	Paperboard as a substrate for biocompatible slippery liquid-infused porous surfaces. Nordic Pulp and Paper Research Journal, 2020, 35, 479-489.	0.3	2