

# Timo Johannes Laaksonen

## List of Publications by Citations

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95  
papers

5,259  
citations

39  
h-index

71  
g-index

102  
ext. papers

5,731  
ext. citations

7.5  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
95	Electrochemical resolution of 15 oxidation states for monolayer protected gold nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 6644-5	16.4	318
94	Biocompatibility of thermally hydrocarbonized porous silicon nanoparticles and their biodistribution in rats. <i>ACS Nano</i> , <b>2010</b> , 4, 3023-32	16.7	287
93	Gold nanoparticles enable selective light-induced contents release from liposomes. <i>Journal of Controlled Release</i> , <b>2007</b> , 122, 86-93	11.7	201
92	Nanofibrillar cellulose films for controlled drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2012</b> , 82, 308-15	5.7	182
91	Drug release from nanoparticles embedded in four different nanofibrillar cellulose aerogels. <i>European Journal of Pharmaceutical Sciences</i> , <b>2013</b> , 50, 69-77	5.1	181
90	Single exosome study reveals subpopulations distributed among cell lines with variability related to membrane content. <i>Journal of Extracellular Vesicles</i> , <b>2015</b> , 4, 28533	16.4	180
89	Nanosuspensions of poorly soluble drugs: preparation and development by wet milling. <i>International Journal of Pharmaceutics</i> , <b>2011</b> , 411, 215-22	6.5	155
88	Drug permeation across intestinal epithelial cells using porous silicon nanoparticles. <i>Biomaterials</i> , <b>2011</b> , 32, 2625-33	15.6	148
87	Interfacial engineering by proteins: exfoliation and functionalization of graphene by hydrophobins. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 4946-9	16.4	146
86	In vitro cytotoxicity of porous silicon microparticles: effect of the particle concentration, surface chemistry and size. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 2721-31	10.8	146
85	Intravenous delivery of hydrophobin-functionalized porous silicon nanoparticles: stability, plasma protein adsorption and biodistribution. <i>Molecular Pharmaceutics</i> , <b>2012</b> , 9, 654-63	5.6	131
84	Drug delivery formulations of ordered and nonordered mesoporous silica: comparison of three drug loading methods. <i>Journal of Pharmaceutical Sciences</i> , <b>2011</b> , 100, 3294-3306	3.9	126
83	Failure of MTT as a toxicity testing agent for mesoporous silicon microparticles. <i>Chemical Research in Toxicology</i> , <b>2007</b> , 20, 1913-8	4	123
82	Spray-dried nanofibrillar cellulose microparticles for sustained drug release. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 430, 47-55	6.5	120
81	Electrospray encapsulation of hydrophilic and hydrophobic drugs in poly(L-lactic acid) nanoparticles. <i>Small</i> , <b>2009</b> , 5, 1791-8	11	120
80	Immobilization of protein-coated drug nanoparticles in nanofibrillar cellulose matrices--enhanced stability and release. <i>Journal of Controlled Release</i> , <b>2011</b> , 156, 390-7	11.7	115
79	Multifunctional hydrophobin: toward functional coatings for drug nanoparticles. <i>ACS Nano</i> , <b>2010</b> , 4, 1750-8	16.7	114

78	The mucoadhesive and gastroretentive properties of hydrophobin-coated porous silicon nanoparticle oral drug delivery systems. <i>Biomaterials</i> , <b>2012</b> , 33, 3353-62	15.6	112
77	Quantised charging of monolayer-protected nanoparticles. <i>Chemical Society Reviews</i> , <b>2008</b> , 37, 1836-46	58.5	104
76	Electrospraying, spray drying and related techniques for production and formulation of drug nanoparticles. <i>Expert Opinion on Drug Delivery</i> , <b>2010</b> , 7, 705-19	8	102
75	Stability and electrostatics of mercaptoundecanoic acid-capped gold nanoparticles with varying counterion size. <i>ChemPhysChem</i> , <b>2006</b> , 7, 2143-9	3.2	100
74	Light induced cytosolic drug delivery from liposomes with gold nanoparticles. <i>Journal of Controlled Release</i> , <b>2015</b> , 203, 85-98	11.7	96
73	High photostability and enhanced fluorescence of gold nanoclusters by silver doping. <i>Nanoscale</i> , <b>2012</b> , 4, 7624-31	7.7	95
72	Spray-dried cellulose nanofibers as novel tablet excipient. <i>AAPS PharmSciTech</i> , <b>2011</b> , 12, 1366-73	3.9	83
71	Indocyanine Green-Loaded Liposomes for Light-Triggered Drug Release. <i>Molecular Pharmaceutics</i> , <b>2016</b> , 13, 2095-107	5.6	82
70	Dissolution studies of poorly soluble drug nanosuspensions in non-sink conditions. <i>AAPS PharmSciTech</i> , <b>2013</b> , 14, 748-56	3.9	78
69	Brinzolamide nanocrystal formulations for ophthalmic delivery: reduction of elevated intraocular pressure in vivo. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 467, 34-41	6.5	78
68	Cytotoxicity study of ordered mesoporous silica MCM-41 and SBA-15 microparticles on Caco-2 cells. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2010</b> , 74, 483-94	5.7	76
67	Electrochemical reduction of oxygen on nanostructured gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>2008</b> , 612, 78-86	4.1	72
66	Oxygen reduction on gold nanoparticle/multi-walled carbon nanotubes modified glassy carbon electrodes in acid solution. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 1475-1480	5.1	72
65	Electrochemical reduction of oxygen on thin-film Pt electrodes in acid solutions. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 5873-5880	6.7	69
64	Functional hydrophobin-coating of thermally hydrocarbonized porous silicon microparticles. <i>Biomaterials</i> , <b>2011</b> , 32, 9089-99	15.6	64
63	Self-assembly of cellulose nanofibrils by genetically engineered fusion proteins. <i>Soft Matter</i> , <b>2011</b> , 7, 2402	3.6	63
62	Cellular interactions of surface modified nanoporous silicon particles. <i>Nanoscale</i> , <b>2012</b> , 4, 3184-92	7.7	59
61	Nanocrystal-based per-oral itraconazole delivery: superior in vitro dissolution enhancement versus Sporanox <sup>®</sup> is not realized in in vivo drug absorption. <i>Journal of Controlled Release</i> , <b>2014</b> , 180, 109-16	11.7	56

60	Nanofibrillar cellulose hydrogels and reconstructed hydrogels as matrices for controlled drug release. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 532, 269-280	6.5	56
59	Free amino acids and 5Tnucleotides in Finnish forest mushrooms. <i>Food Chemistry</i> , <b>2018</b> , 247, 23-28	8.5	48
58	Physicochemical stability of high indomethacin payload ordered mesoporous silica MCM-41 and SBA-15 microparticles. <i>International Journal of Pharmaceutics</i> , <b>2011</b> , 416, 242-51	6.5	44
57	Evaluation of drug interactions with nanofibrillar cellulose. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2013</b> , 85, 1238-44	5.7	43
56	Intact nanoparticulate indomethacin in fast-dissolving carrier particles by combined wet milling and aerosol flow reactor methods. <i>Pharmaceutical Research</i> , <b>2011</b> , 28, 2403-11	4.5	36
55	Real-time Raman based approach for identification of biofouling. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 230, 411-421	8.5	36
54	Fluorescence-suppressed time-resolved Raman spectroscopy of pharmaceuticals using complementary metal-oxide semiconductor (CMOS) single-photon avalanche diode (SPAD) detector. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 761-74	4.4	32
53	Inhibitory activity of the isoflavone biochanin A on intracellular bacteria of genus Chlamydia and initial development of a buccal formulation. <i>PLoS ONE</i> , <b>2014</b> , 9, e115115	3.7	31
52	Tablet preformulations of indomethacin-loaded mesoporous silicon microparticles. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 422, 125-31	6.5	30
51	Formation of stable Ag-nanoparticle aggregates induced by dithiol cross-linking. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 12954-8	3.4	29
50	Photothermally Triggered Lipid Bilayer Phase Transition and Drug Release from Gold Nanorod and Indocyanine Green Encapsulated Liposomes. <i>Langmuir</i> , <b>2016</b> , 32, 4554-63	4	28
49	Interaction studies between indomethacin nanocrystals and PEO/PPO copolymer stabilizers. <i>Pharmaceutical Research</i> , <b>2015</b> , 32, 628-39	4.5	27
48	Hydrophobin-nanofibrillated cellulose stabilized emulsions for encapsulation and release of BCS class II drugs. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 100, 238-248	5.1	26
47	Ion permeability of SAMs on nanoparticle surfaces. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 14341-6	16.4	26
46	The effect of surfactants on the dissolution behavior of amorphous formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2016</b> , 103, 13-22	5.7	24
45	Nanoparticle film charging--ion rectified or ion limited?. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 7732-3	16.4	24
44	Transdermal iontophoresis of flufenamic acid loaded PLGA nanoparticles. <i>European Journal of Pharmaceutical Sciences</i> , <b>2016</b> , 89, 154-62	5.1	24
43	Comparison of liposomal drug formulations for transdermal iontophoretic drug delivery. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 106, 294-301	5.1	20

42	Coated particle assemblies for the concomitant pulmonary administration of budesonide and salbutamol sulphate. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 441, 248-54	6.5	20
41	Linking volatile and non-volatile compounds to sensory profiles and consumer liking of wild edible Nordic mushrooms. <i>Food Chemistry</i> , <b>2020</b> , 304, 125403	8.5	20
40	Solid formulations by a nanocrystal approach: critical process parameters regarding scale-ability of nanocrystals for tableting applications. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 485, 77-86	6.5	19
39	Unravelling the relationship between degree of disorder and the dissolution behavior of milled glibenclamide. <i>Molecular Pharmaceutics</i> , <b>2014</b> , 11, 234-42	5.6	19
38	Cellular automata model for drug release from binary matrix and reservoir polymeric devices. <i>Biomaterials</i> , <b>2009</b> , 30, 1978-87	15.6	19
37	Halogen-Bond-Assisted Photoluminescence Modulation in Carbazole-Based Emitter. <i>Scientific Reports</i> , <b>2018</b> , 8, 14431	4.9	19
36	Cellular automata model for swelling-controlled drug release. <i>International Journal of Pharmaceutics</i> , <b>2009</b> , 380, 25-32	6.5	18
35	Nanofibrillar cellulose-alginate hydrogel coated surgical sutures as cell-carrier systems. <i>PLoS ONE</i> , <b>2017</b> , 12, e0183487	3.7	18
34	Understanding Dissolution and Crystallization with Imaging: A Surface Point of View. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 5361-5373	5.6	17
33	Photoswitching electron transport properties of an azobenzene containing thiol-SAM. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 4898-901	3.6	16
32	Endothermic and Exothermic Energy Transfer Made Equally Efficient for Triplet-Triplet Annihilation Upconversion. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 318-324	6.4	16
31	Modulating sustained drug release from nanocellulose hydrogel by adjusting the inner geometry of implantable capsules. <i>Journal of Drug Delivery Science and Technology</i> , <b>2020</b> , 57, 101625	4.5	15
30	Ion Limited Charging of Nanoparticle Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 15637-15642	3.8	15
29	Multimodal Nonlinear Optical Imaging for Sensitive Detection of Multiple Pharmaceutical Solid-State Forms and Surface Transformations. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 11460-11467	7.8	14
28	Differential scanning calorimetry predicts the critical quality attributes of amorphous glibenclamide. <i>European Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 80, 74-81	5.1	14
27	Pectin and Mucin Enhance the Bioadhesion of Drug Loaded Nanofibrillated Cellulose Films. <i>Pharmaceutical Research</i> , <b>2018</b> , 35, 145	4.5	14
26	Fabrication of drug-loaded edible carrier substrates from nanosuspensions by flexographic printing. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 494, 603-610	6.5	13
25	Entangled and colloidally stable microcrystalline cellulose matrices in controlled drug release. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 548, 113-119	6.5	13

24	Ion-exchange and iontophoresis-controlled delivery of apomorphine. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2013</b> , 83, 477-84	5.7	13
23	Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy. <i>Pharmaceutical Research</i> , <b>2017</b> , 34, 957-970	4.5	12
22	Surface Stabilization and Dissolution Rate Improvement of Amorphous Compacts with Thin Polymer Coatings: Can We Have It All?. <i>Molecular Pharmaceutics</i> , <b>2020</b> , 17, 1248-1260	5.6	12
21	Controlled transdermal delivery of leuprorelin by pulsed iontophoresis and ion-exchange fiber. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2014</b> , 88, 594-601	5.7	10
20	Crystallization Kinetics of an Amorphous Pharmaceutical Compound Using Fluorescence-Lifetime-Imaging Microscopy. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 1964-1971	5.6	8
19	Expanding excitation wavelengths for azobenzene photoswitching into the near-infrared range endothermic triplet energy transfer. <i>Chemical Science</i> , <b>2021</b> , 12, 7504-7509	9.4	8
18	Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more. <i>Chemical Communications</i> , <b>2018</b> , 54, 14029-14032	5.8	8
17	Effects of nanofibrillated cellulose hydrogels on adipose tissue extract and hepatocellular carcinoma cell spheroids in freeze-drying. <i>Cryobiology</i> , <b>2019</b> , 91, 137-145	2.7	7
16	Critical Sensitizer Quality Attributes for Efficient Triplet-Triplet Annihilation Upconversion with Low Power Density Thresholds. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 22865-22872	3.8	6
15	Feasibility of polyamines and cyclic carbonate terminated prepolymers in polyurethane/polyhydroxyurethane synthesis. <i>Materials Today Communications</i> , <b>2020</b> , 23, 100863	2.5	6
14	Hydrolytic stability of polyurethane/polyhydroxyurethane hybrid adhesives. <i>International Journal of Adhesion and Adhesives</i> , <b>2021</b> , 110, 102950	3.4	6
13	Taste compound - Nanocellulose interaction assessment by fluorescence indicator displacement assay. <i>Food Chemistry</i> , <b>2020</b> , 318, 126511	8.5	5
12	96-Well Plate Surface Tension Measurements for Fast Determination of Drug Solubility. <i>Letters in Drug Design and Discovery</i> , <b>2008</b> , 5, 471-476	0.8	5
11	Charge transfer at an electrified liquid-liquid interface immobilised in fibre. <i>Journal of Electroanalytical Chemistry</i> , <b>2005</b> , 575, 75-80	4.1	3
10	Deciphering Multiple Critical Parameters of Polymeric Self-Assembly by Fluorescence Spectroscopy of a Single Molecular Rotor BODIPY-C12. <i>Macromolecules</i> , <b>2021</b> , 54, 655-664	5.5	3
9	Modeling solid-state transformations occurring in dissolution testing. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 447, 218-23	6.5	2
8	Angiogenic Effects and Crosstalk of Adipose-Derived Mesenchymal Stem/Stromal Cells and Their Extracellular Vesicles with Endothelial Cells. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
7	Microfluidic oxygen tolerability screening of nanocarriers for triplet fusion photon upconversion.. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 4871-4877	7.1	1

6	Azobenzene Photoswitching with Near-Infrared Light Mediated by Molecular Oxygen. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 12568-12573	3-4	1
5	Spectroscopic Methods in Solid-state Characterization <b>2021</b> , 27-95		1
4	Triplet-triplet annihilation photon-upconversion in hydrophilic media with biorelevant cholesteryl triplet energy acceptors. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 418, 113412	4-7	1
3	Stabilization of natural and synthetic indigo on nanocellulose network - Towards bioactive materials and facile dyeing processes. <i>Journal of Cleaner Production</i> , <b>2021</b> , 328, 129615	10-3	0
2	Comparing the taste-modifying properties of nanocellulose and carboxymethyl cellulose. <i>Journal of Food Science</i> , <b>2021</b> , 86, 1928-1935	3-4	0
1	Drug diffusivities in nanofibrillar cellulose hydrogel by combined time-resolved Raman and fluorescence spectroscopy. <i>Journal of Controlled Release</i> , <b>2021</b> , 334, 367-375	11-7	0