

# Jouni Tapio Hirvonen

## List of Publications by Year in descending order

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93  
papers

3,928  
citations

87888

38  
h-index

128289

60  
g-index

95  
all docs

95  
docs citations

95  
times ranked

5560  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Analysis of Porous Silicon Nanoparticles Functionalization by <sup>1</sup> H NMR. ACS Biomaterials Science and Engineering, 2022, 8, 4132-4139.	5.2	5
2	Neonatal Fc receptor-targeted lignin-encapsulated porous silicon nanoparticles for enhanced cellular interactions and insulin permeation across the intestinal epithelium. Bioactive Materials, 2022, 9, 299-315.	15.6	23
3	In Vitro Evaluation of the Therapeutic Effects of Dual-Drug Loaded Spermine-Acetalated Dextran Nanoparticles Coated with Tannic Acid for Cardiac Applications. Advanced Functional Materials, 2022, 32, 2109032.	14.9	13
4	Multifunctional Biomimetic Nanovaccines Based on Photothermal and Weak-Immunostimulatory Nanoparticulate Cores for the Immunotherapy of Solid Tumors. Advanced Materials, 2022, 34, e2108012.	21.0	25
5	High drug-loaded microspheres enabled by controlled in-droplet precipitation promote functional recovery after spinal cord injury. Nature Communications, 2022, 13, 1262.	12.8	39
6	Multifunctional Biomimetic Nanovaccines Based on Photothermal and Weak-Immunostimulatory Nanoparticulate Cores for the Immunotherapy of Solid Tumors (Adv. Mater. 9/2022). Advanced Materials, 2022, 34, .	21.0	0
7	Peptide-guided resiquimod-loaded lignin nanoparticles convert tumor-associated macrophages from M2 to M1 phenotype for enhanced chemotherapy. Acta Biomaterialia, 2021, 133, 231-243.	8.3	72
8	Intracellular Delivery of Budesonide and Polydopamine Co-Loaded in Endosomolytic Poly(butyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 from M1 to M2. Advanced Therapeutics, 2021, 4, 2000058.	3.2	13
9	A Hydrogen-Bonded Extracellular Matrix-Mimicking Bactericidal Hydrogel with Radical Scavenging and Hemostatic Function for pH-Responsive Wound Healing Acceleration. Advanced Healthcare Materials, 2021, 10, e2001122.	7.6	142
10	Investigation of silicon nanoparticles produced by centrifuge chemical vapor deposition for applications in therapy and diagnostics. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 158, 254-265.	4.3	13
11	Prospective Cancer Therapies Using Stimuli-Responsive DNA Nanostructures. Macromolecular Bioscience, 2021, 21, e2100272.	4.1	15
12	Engineered antibody-functionalized porous silicon nanoparticles for therapeutic targeting of pro-survival pathway in endogenous neuroblasts after stroke. Biomaterials, 2020, 227, 119556.	11.4	23
13	Dual-peptide functionalized acetalated dextran-based nanoparticles for sequential targeting of macrophages during myocardial infarction. Nanoscale, 2020, 12, 2350-2358.	5.6	42
14	Evaluation of the effects of nanoprecipitation process parameters on the size and morphology of poly(ethylene oxide)-block-polycaprolactone nanostructures. International Journal of Pharmaceutics, 2020, 590, 119900.	5.2	7
15	Nanosuspensions of a poorly soluble investigational molecule ODM-106: Impact of milling bead diameter and stabilizer concentration. International Journal of Pharmaceutics, 2020, 587, 119636.	5.2	22
16	Superfast and controllable microfluidic inking of anti-inflammatory melanin-like nanoparticles inspired by cephalopods. Materials Horizons, 2020, 7, 1573-1580.	12.2	16
17	Multifunctional 3D-Printed Patches for Long-Term Drug Release Therapies after Myocardial Infarction. Advanced Functional Materials, 2020, 30, 2003440.	14.9	53
18	Fabrication and Characterization of Drug-Loaded Conductive Poly(glycerol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (sebacate)/Nano Materials & Interfaces, 2020, 12, 6899-6909.	8.0	57

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19	Preparation and Characterization of Dentin Phosphoryl- $\alpha$ -Derived Peptide-Functionalized Lignin Nanoparticles for Enhanced Cellular Uptake. <i>Small</i> , 2019, 15, e1901427.	10.0	57
20	Pharmacy Practice and Education in Finland. <i>Pharmacy (Basel, Switzerland)</i> , 2019, 7, 21.	1.6	7
21	Drug nanocrystals – Versatile option for formulation of poorly soluble materials. <i>International Journal of Pharmaceutics</i> , 2018, 537, 73-83.	5.2	103
22	Nanomedicine: Bridging the Knowledge of Different Worlds to Understand the Big Picture of Cancer Nanomedicines (Adv. Healthcare Mater. 1/2018). <i>Advanced Healthcare Materials</i> , 2018, 7, 1870005.	7.6	5
23	Dual-Drug Delivery Using Dextran-Functionalized Nanoparticles Targeting Cardiac Fibroblasts for Cellular Reprogramming. <i>Advanced Functional Materials</i> , 2018, 28, 1705134.	14.9	60
24	Cardiac Actions of a Small Molecule Inhibitor Targeting GATA4-NKX2-5 Interaction. <i>Scientific Reports</i> , 2018, 8, 4611.	3.3	29
25	Bridging the Knowledge of Different Worlds to Understand the Big Picture of Cancer Nanomedicines. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700432.	7.6	30
26	Conductive vancomycin-loaded mesoporous silica polypyrrole-based scaffolds for bone regeneration. <i>International Journal of Pharmaceutics</i> , 2018, 536, 241-250.	5.2	65
27	Targeted Reinforcement of Macrophage Reprogramming Toward M2 Polarization by IL-4-Loaded Hyaluronic Acid Particles. <i>ACS Omega</i> , 2018, 3, 18444-18455.	3.5	28
28	High-Generation Amphiphilic Janus-Dendrimers as Stabilizing Agents for Drug Suspensions. <i>Biomacromolecules</i> , 2018, 19, 3983-3993.	5.4	11
29	Engineered Multifunctional Albumin-Decorated Porous Silicon Nanoparticles for FcRn Translocation of Insulin. <i>Small</i> , 2018, 14, e1800462.	10.0	53
30	Impact of Pore Size and Surface Chemistry of Porous Silicon Particles and Structure of Phospholipids on Their Interactions. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2308-2313.	5.2	21
31	Biomimetic Engineering Using Cancer Cell Membranes for Designing Compartmentalized Nanoreactors with Organelle-Like Functions. <i>Advanced Materials</i> , 2017, 29, 1605375.	21.0	54
32	Core/Shell Nanocomposites Produced by Superfast Sequential Microfluidic Nanoprecipitation. <i>Nano Letters</i> , 2017, 17, 606-614.	9.1	123
33	In Vitro evaluation of biodegradable lignin-based nanoparticles for drug delivery and enhanced antiproliferation effect in cancer cells. <i>Biomaterials</i> , 2017, 121, 97-108.	11.4	296
34	Intracellular responsive dual delivery by endosomolytic polyplexes carrying DNA anchored porous silicon nanoparticles. <i>Journal of Controlled Release</i> , 2017, 249, 111-122.	9.9	31
35	A Nano-in-Nano Vector: Merging the Best of Polymeric Nanoparticles and Drug Nanocrystals. <i>Advanced Functional Materials</i> , 2017, 27, 1604508.	14.9	42
36	Drug Delivery: A Nano-in-Nano Vector: Merging the Best of Polymeric Nanoparticles and Drug Nanocrystals (Adv. Funct. Mater. 9/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	14.9	1

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37	Surface modification of acetaminophen particles by atomic layer deposition. <i>International Journal of Pharmaceutics</i> , 2017, 525, 160-174.	5.2	40
38	A multifunctional nanocomplex for enhanced cell uptake, endosomal escape and improved cancer therapeutic effect. <i>Nanomedicine</i> , 2017, 12, 1401-1420.	3.3	15
39	A Versatile Carbonic Anhydrase IX Targeting Ligand-Functionalized Porous Silicon Nanoplatfom for Dual Hypoxia Cancer Therapy and Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 13976-13987.	8.0	44
40	Nanoreactors: Biomimetic Engineering Using Cancer Cell Membranes for Designing Compartmentalized Nanoreactors with Organelle-Like Functions ( <i>Adv. Mater.</i> 11/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
41	Preparation and biological evaluation of ethionamide-mesoporous silicon nanoparticles against <i>Mycobacterium tuberculosis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 403-405.	2.2	11
42	Quercetin-Based Modified Porous Silicon Nanoparticles for Enhanced Inhibition of Doxorubicin-Resistant Cancer Cells. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601009.	7.6	49
43	Functionalization of carboxylated lignin nanoparticles for targeted and pH-responsive delivery of anticancer drugs. <i>Nanomedicine</i> , 2017, 12, 2581-2596.	3.3	96
44	Multifunctional Nanotube-Mucoadhesive Poly(methyl vinyl ether-co-maleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td ( Delivery. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700629.	7.6	35
45	Drug-Loaded Multifunctional Nanoparticles Targeted to the Endocardial Layer of the Injured Heart Modulate Hypertrophic Signaling. <i>Small</i> , 2017, 13, 1701276.	10.0	82
46	Inside Cover Image, Volume 9, Issue 1. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017, 9, e1459.	6.1	0
47	Microfluidic assembly of a nano-in-micro dual drug delivery platform composed of halloysite nanotubes and a pH-responsive polymer for colon cancer therapy. <i>Acta Biomaterialia</i> , 2017, 48, 238-246.	8.3	109
48	Aerosolization, Drug Permeation and Cellular Interaction of Dry Powder Pulmonary Formulations of Corticosteroids with Hydroxypropyl- $\beta$ -Cyclodextrin as a Solubilizer. <i>Pharmaceutical Research</i> , 2017, 34, 25-35.	3.5	17
49	Delivery of therapeutics with nanoparticles: what's new in cancer immunotherapy?. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017, 9, e1421.	6.1	72
50	Ultrasonic Processing Technique as a Green Preparation Approach for Diacerein-Loaded Niosomes. <i>AAPS PharmSciTech</i> , 2017, 18, 1554-1563.	3.3	32
51	Microfluidics platform for glass capillaries and its application in droplet and nanoparticle fabrication. <i>International Journal of Pharmaceutics</i> , 2017, 516, 100-105.	5.2	47
52	Competence-Based Pharmacy Education in the University of Helsinki. <i>Pharmacy (Basel, Switzerland)</i> , 2017, 5, 29.	1.6	15
53	What is a Pharmacist: Opinions of Pharmacy Department Academics and Community Pharmacists on Competences Required for Pharmacy Practice. <i>Pharmacy (Basel, Switzerland)</i> , 2016, 4, 12.	1.6	13
54	Stabilizing Agents for Drug Nanocrystals: Effect on Bioavailability. <i>Pharmaceutics</i> , 2016, 8, 16.	4.5	161

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55	How Do European Pharmacy Students Rank Competences for Practice?. Pharmacy (Basel, Switzerland), 2016, 4, 8.	1.6	4
56	A Study on How Industrial Pharmacists Rank Competences for Pharmacy Practice: A Case for Industrial Pharmacy Specialization. Pharmacy (Basel, Switzerland), 2016, 4, 13.	1.6	5
57	Hospital and Community Pharmacists' Perceptions of Which Competences Are Important for Their Practice. Pharmacy (Basel, Switzerland), 2016, 4, 21.	1.6	14
58	The Second Round of the PHAR-QA Survey of Competences for Pharmacy Practice. Pharmacy (Basel, Switzerland), 2016, 4, 17.	1.6	17
59	pH-Switch Nanoprecipitation of Polymeric Nanoparticles for Multimodal Cancer Targeting and Intracellular Triggered Delivery of Doxorubicin. Advanced Healthcare Materials, 2016, 5, 1904-1916.	7.6	44
60	Thiolation and Cell-Penetrating Peptide Surface Functionalization of Porous Silicon Nanoparticles for Oral Delivery of Insulin. Advanced Functional Materials, 2016, 26, 3405-3416.	14.9	94
61	Drug Delivery: Thiolation and Cell-Penetrating Peptide Surface Functionalization of Porous Silicon Nanoparticles for Oral Delivery of Insulin (Adv. Funct. Mater. 20/2016). Advanced Functional Materials, 2016, 26, 3374-3374.	14.9	5
62	Drug permeation and cellular interaction of amino acid-coated drug combination powders for pulmonary delivery. International Journal of Pharmaceutics, 2016, 504, 89-97.	5.2	13
63	Oral hypoglycaemic effect of GLP-1 and DPP4 inhibitor based nanocomposites in a diabetic animal model. Journal of Controlled Release, 2016, 232, 113-119.	9.9	44
64	Dual chitosan/albumin-coated alginate/dextran sulfate nanoparticles for enhanced oral delivery of insulin. Journal of Controlled Release, 2016, 232, 29-41.	9.9	168
65	Targeted Cancer Therapy: pH-Switch Nanoprecipitation of Polymeric Nanoparticles for Multimodal Cancer Targeting and Intracellular Triggered Delivery of Doxorubicin (Adv. Healthcare Mater. 15/2016). Advanced Healthcare Materials, 2016, 5, 1834-1834.	7.6	3
66	Influence of Surface Chemistry on Ibuprofen Adsorption and Confinement in Mesoporous Silicon Microparticles. Langmuir, 2016, 32, 13020-13029.	3.5	25
67	Microparticles to enhance delivery of drugs and growth factors into wound sites. Therapeutic Delivery, 2016, 7, 711-732.	2.2	13
68	Platelet Lysate-Modified Porous Silicon Microparticles for Enhanced Cell Proliferation in Wound Healing Applications. ACS Applied Materials & Interfaces, 2016, 8, 988-996.	8.0	33
69	Self-Assembly of Amphiphilic Janus Dendrimers into Mechanically Robust Supramolecular Hydrogels for Sustained Drug Release. Chemistry - A European Journal, 2015, 21, 14433-14439.	3.3	43
70	The PHAR-QA Project: Competency Framework for Pharmacy Practice – First Steps, the Results of the European Network Delphi Round 1. Pharmacy (Basel, Switzerland), 2015, 3, 307-329.	1.6	15
71	Does the Subject Content of the Pharmacy Degree Course Influence the Community Pharmacists' Views on Competencies for Practice?. Pharmacy (Basel, Switzerland), 2015, 3, 137-153.	1.6	8
72	On-Chip Self-Assembly of a Smart Hybrid Nanocomposite for Antitumoral Applications. Advanced Functional Materials, 2015, 25, 1488-1497.	14.9	60

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73	A prospective cancer chemo-immunotherapy approach mediated by synergistic CD326 targeted porous silicon nanovectors. <i>Nano Research</i> , 2015, 8, 1505-1521.	10.4	54
74	Systematic inÂvitro and inÂvivo study on porous silicon to improve the oral bioavailability of celecoxib. <i>Biomaterials</i> , 2015, 52, 44-55.	11.4	38
75	Drug Delivery: OnâChip SelfâAssembly of a Smart Hybrid Nanocomposite for Antitumoral Applications (Adv. Funct. Mater. 10/2015). <i>Advanced Functional Materials</i> , 2015, 25, 1612-1612.	14.9	2
76	Multistage pH-responsive mucoadhesive nanocarriers prepared by aerosol flow reactor technology: A controlled dual protein-drug delivery system. <i>Biomaterials</i> , 2015, 68, 9-20.	11.4	77
77	Solid formulations by a nanocrystal approach: Critical process parameters regarding scale-ability of nanocrystals for tableting applications. <i>International Journal of Pharmaceutics</i> , 2015, 485, 77-86.	5.2	24
78	Cyclodextrin-Modified Porous Silicon Nanoparticles for Efficient Sustained Drug Delivery and Proliferation Inhibition of Breast Cancer Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23197-23204.	8.0	55
79	Microfluidic assisted one-step fabrication of porous silicon@acetalated dextran nanocomposites for precisely controlled combination chemotherapy. <i>Biomaterials</i> , 2015, 39, 249-259.	11.4	133
80	Inhibitory Activity of the Isoflavone Biochanin A on Intracellular Bacteria of Genus Chlamydia and Initial Development of a Buccal Formulation. <i>PLoS ONE</i> , 2014, 9, e115115.	2.5	54
81	Systems for Quality Assurance in Pharmacy Education and Training in the European Union. <i>Pharmacy (Basel, Switzerland)</i> , 2014, 2, 17-26.	1.6	6
82	The Production of a Framework of Competences for Pharmacy Practice in the European Union. <i>Pharmacy (Basel, Switzerland)</i> , 2014, 2, 161-174.	1.6	6
83	In vitro assessment of biopolymer-modified porous silicon microparticles for wound healing applications. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 635-642.	4.3	25
84	Brinzolamide nanocrystal formulations for ophthalmic delivery: Reduction of elevated intraocular pressure in vivo. <i>International Journal of Pharmaceutics</i> , 2014, 467, 34-41.	5.2	99
85	Nanocrystal-based per-oral itraconazole delivery: Superior in vitro dissolution enhancement versus SporanoxÂ® is not realized in in vivo drug absorption. <i>Journal of Controlled Release</i> , 2014, 180, 109-116.	9.9	63
86	Controlled transdermal delivery of leuprorelin by pulsed iontophoresis and ion-exchange fiber. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 594-601.	4.3	14
87	Mesoporous Materials and Nanocrystals for Enhancing the Dissolution Behavior of Poorly Water-soluble Drugs. <i>Current Pharmaceutical Biotechnology</i> , 2014, 14, 926-938.	1.6	24
88	Nanostructured Porous SiliconâSolid Lipid Nanocomposite: Towards Enhanced Cytocompatibility and Stability, Reduced Cellular Association, and Prolonged Drug Release. <i>Advanced Functional Materials</i> , 2013, 23, 1893-1902.	14.9	72
89	Nanostructured porous silicon in preclinical imaging: Moving from bench to bedside. <i>Journal of Materials Research</i> , 2013, 28, 152-164.	2.6	54
90	A Description of the European Pharmacy Education and Training Quality Assurance Project. <i>Pharmacy (Basel, Switzerland)</i> , 2013, 1, 3-7.	1.6	4

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91	The Significance of Practical Training in Linking Theoretical Studies with Practice. Higher Education, 2006, 51, 439-464.	4.4	61
92	Pharmacy Mentors' Views of Practical Training. Research in Science Education, 2005, 35, 323-345.	2.3	10
93	Topical Iontophoretic Delivery. American Journal of Drug Delivery, 2005, 3, 67-81.	0.6	8