Tapani Juhani Samuel Viitala

List of Publications by Year
in descending order

105 papers	4,204 citations	126858 33 h-index	123376 61 g-index
111 all docs	111 docs citations	111 times ranked	7306 citing authors

#	Article	IF	Citations
1	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.	8.6	23
2	Assembly of Bleomycin Saccharide-Decorated Spherical Nucleic Acids. Bioconjugate Chemistry, 2022, 33, 206-218.	1.8	5
3	Infrared and Raman spectroscopy for purity assessment of extracellular vesicles. European Journal of Pharmaceutical Sciences, 2022, 172, 106135.	1.9	8
4	A novel immunopeptidomic-based pipeline for the generation of personalized oncolytic cancer vaccines. ELife, 2022, 11, .	2.8	21
5	An oomycete NLP cytolysin forms transient small pores in lipid membranes. Science Advances, 2022, 8, eabj9406.	4.7	11
6	A novel cancer vaccine for melanoma based on an approved vaccine against measles, mumps, and rubella. Molecular Therapy - Oncolytics, 2022, 25, 137-145.	2.0	5
7	Diffusion and Protein Corona Formation of Lipid-Based Nanoparticles in the Vitreous Humor: Profiling and Pharmacokinetic Considerations. Molecular Pharmaceutics, 2021, 18, 699-713.	2.3	32
8	Effect of laminin, polylysine and cell medium components on the attachment of human hepatocellular carcinoma cells to cellulose nanofibrils analyzed by surface plasmon resonance. Journal of Colloid and Interface Science, 2021, 584, 310-319.	5.0	13
9	Biopharmaceutics of Topical Ophthalmic Suspensions: Importance of Viscosity and Particle Size in Ocular Absorption of Indomethacin. Pharmaceutics, 2021, 13, 452.	2.0	30
10	Characterization of a novel OX40 ligand and CD40 ligand-expressing oncolytic adenovirus used in the PeptiCRAd cancer vaccine platform. Molecular Therapy - Oncolytics, 2021, 20, 459-469.	2.0	27
11	Controlled Monofunctionalization of Molecular Spherical Nucleic Acids on a Buckminster Fullerene Core. Bioconjugate Chemistry, 2021, 32, 1130-1138.	1.8	9
12	Novel personalized cancer vaccine platform based on Bacillus Calmette-GuÃ¨rin. , 2021, 9, e002707.		12
13	In situanalysis of liposome hard and soft protein corona structure and composition in a single label-free workflow. Nanoscale, 2020, 12, 1728-1741.	2.8	46
14	Label-Free Analysis with Multiple Parameters Separates G Protein-Coupled Receptor Signaling Pathways. Analytical Chemistry, 2020, 92, 14509-14516.	3.2	2
15	Label-free characterization and real-time monitoring of cell uptake of extracellular vesicles. Biosensors and Bioelectronics, 2020, 168, 112510.	5.3	16
16	Light-Activated Liposomes Coated with Hyaluronic Acid as a Potential Drug Delivery System. Pharmaceutics, 2020, 12, 763.	2.0	29
17	Partitioning of Catechol Derivatives in Lipid Membranes: Implications for Substrate Specificity to Catechol-O-methyltransferase. ACS Chemical Neuroscience, 2020, 11, 969-978.	1.7	9
18	Extracellular vesicles provide a capsidâ€free vector for oncolytic adenoviral DNA delivery. Journal of Extracellular Vesicles, 2020, 9, 1747206.	5.5	27

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19	Assessment of recombinant protein production in E. coli with Time-Gated Surface Enhanced Raman Spectroscopy (TG-SERS). Scientific Reports, 2020, 10, 2472.	1.6	19
20	Step height standards based on self-assembly for 3D metrology of biological samples. Measurement Science and Technology, 2020, 31, 094008.	1.4	2
21	Real-Time Label-Free Targeting Assessment and in Vitro Characterization of Curcumin-Loaded Poly-lactic-co-glycolic Acid Nanoparticles for Oral Colon Targeting. ACS Omega, 2019, 4, 16878-16890.	1.6	18
22	ORP2 interacts with phosphoinositides and controls the subcellular distribution of cholesterol. Biochimie, 2019, 158, 90-101.	1.3	34
23	Interaction of lecithin:cholesterol acyltransferase with lipid surfaces and apolipoprotein A-I-derived peptides. Journal of Lipid Research, 2018, 59, 670-683.	2.0	16
24	Membrane bound COMT isoform is an interfacial enzyme: general mechanism and new drug design paradigm. Chemical Communications, 2018, 54, 3440-3443.	2.2	20
25	Spin coated chitin films for biosensors and its analysis are dependent on chitin-surface interactions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 539, 261-272.	2.3	19
26	High-Generation Amphiphilic Janus-Dendrimers as Stabilizing Agents for Drug Suspensions. Biomacromolecules, 2018, 19, 3983-3993.	2.6	11
27	Characterization of membraneâ€“foulant interactions with novel combination of Raman spectroscopy, surface plasmon resonance and molecular dynamics simulation. Separation and Purification Technology, 2018, 205, 263-272.	3.9	23
28	Personalized Cancer Vaccine Platform for Clinically Relevant Oncolytic Enveloped Viruses. Molecular Therapy, 2018, 26, 2315-2325.	3.7	41
29	pH-Controlled Liposomes for Enhanced Cell Penetration in Tumor Environment. ACS Applied Materials & Interfaces, 2018, 10, 17646-17661.	4.0	30
30	Comparison of timeâ€gated surfaceâ€enhanced raman spectroscopy (TGâ€SERS) and classical SERS based monitoring of Escherichia coli cultivation samples. Biotechnology Progress, 2018, 34, 1533-1542.	1.3	10
31	Biophysical Characterization of Supported Lipid Bilayers Using Parallel Dual-Wavelength Surface Plasmon Resonance and Quartz Crystal Microbalance Measurements. Langmuir, 2018, 34, 8081-8091.	1.6	32
32	3D label free bio-transfer standards. , 2018, , .		0
33	Stability optimization of microbial surface-enhanced Raman spectroscopy detection with immunomagnetic separation beads. Optical Engineering, 2017, 56, 037102.	0.5	8
34	Targeting Tumorâ€Associated Exosomes with Integrinâ€Binding Peptides. Advanced Biology, 2017, 1, 1600038.	3.0	33
35	Time-resolved SERS for characterizing extracellular vesicles. , 2017, , .		1
36	Round Robin test on bio-imaging transfer standard for 3D optical profilers. Proceedings of SPIE, 2017, , .	0.8	0

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37	Real-time fouling monitoring with Raman spectroscopy. Journal of Membrane Science, 2017, 525, 312-319.	4.1	45
38	Oligomerization Alters Binding Affinity between Amyloid Beta and a Modulator of Peptide Aggregation. Journal of Physical Chemistry C, 2017, 121, 23974-23987.	1.5	4
39	Biosensors: Targeting Tumorâ€Associated Exosomes with Integrinâ€Binding Peptides (Adv. Biosys. 5/2017). Advanced Biology, 2017, 1, .	3.0	0
40	Multi-parametric surface plasmon resonance platform for studying liposome-serum interactions and protein corona formation. Drug Delivery and Translational Research, 2017, 7, 228-240.	3.0	37
41	Feasibility Study of the Permeability and Uptake of Mesoporous Silica Nanoparticles across the Blood-Brain Barrier. PLoS ONE, 2016, 11, e0160705.	1.1	74
42	Raman spectroscopy of single extracellular vesicles reveals subpopulations with varying membrane content (Conference Presentation). , 2016, , .		0
43	Real-time Raman based approach for identification of biofouling. Sensors and Actuators B: Chemical, 2016, 230, 411-421.	4.0	38
44	Photothermally Triggered Lipid Bilayer Phase Transition and Drug Release from Gold Nanorod and Indocyanine Green Encapsulated Liposomes. Langmuir, 2016, 32, 4554-4563.	1.6	31
45	Indocyanine Green-Loaded Liposomes for Light-Triggered Drug Release. Molecular Pharmaceutics, 2016, 13, 2095-2107.	2.3	102
46	Realâ€Time Labelâ€Free Monitoring of Nanoparticle Cell Uptake. Small, 2016, 12, 6289-6300.	5.2	26
47	Surface Plasmon Resonance Imaging Microscopy of Liposomes and Liposome-Encapsulated Gold Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 25958-25966.	1.5	21
48	Novel cationic polyelectrolyte coatings for capillary electrophoresis. Electrophoresis, 2016, 37, 363-371.	1.3	7
49	Detection of Listeria innocua on roll-to-roll produced SERS substrates with gold nanoparticles. RSC Advances, 2016, 6, 62981-62989.	1.7	23
50	Factorial design formulation optimization and inÂvitro characterization of curcumin-loaded PLGA nanoparticles for colon delivery. Journal of Drug Delivery Science and Technology, 2016, 32, 10-20.	1.4	85
51	Fluorescence-suppressed time-resolved Raman spectroscopy of pharmaceuticals using complementary metal-oxide semiconductor (CMOS) single-photon avalanche diode (SPAD) detector. Analytical and Bioanalytical Chemistry, 2016, 408, 761-774.	1.9	40
52	Printed biotin-functionalised polythiophene films as biorecognition layers in the development of paper-based biosensors. Applied Surface Science, 2016, 364, 477-483.	3.1	7
53	Rational design of liposomal drug delivery systems, a review: Combined experimental and computational studies of lipid membranes, liposomes and their PEGylation. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2334-2352.	1.4	146
54	Oncolytic adenoviruses coated with MHC-I tumor epitopes increase the antitumor immunity and efficacy against melanoma. OncoImmunology, 2016, 5, e1105429.	2.1	70

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55	Enhancement of Bioavailability and Pharmacodynamic Effects of Thymoquinone Via Nanostructured Lipid Carrier (NLC) Formulation. AAPS PharmSciTech, 2016, 17, 663-672.	1.5	91
56	220. Evaluation of the Efficacy of a New Oncolytic Vaccine Platform in Humanized Mice. Molecular Therapy, 2015, 23, S86-S87.	3.7	0
57	Single exosome study reveals subpopulations distributed among cell lines with variability related to membrane content. Journal of Extracellular Vesicles, 2015, 4, 28533.	5.5	240
58	Detection of Phase Transition in Photosensitive Liposomes by Advanced QCM. Journal of Physical Chemistry C, 2015, 119, 21395-21403.	1.5	14
59	Light induced cytosolic drug delivery from liposomes with gold nanoparticles. Journal of Controlled Release, 2015, 203, 85-98.	4.8	113
60	Microvesicle- and exosome-mediated drug delivery enhances the cytotoxicity of Paclitaxel in autologous prostate cancer cells. Journal of Controlled Release, 2015, 220, 727-737.	4.8	465
61	Ionic liquids affect the adsorption of liposomes onto cationic polyelectrolyte coated silica evidenced by quartz crystal microbalance. Colloids and Surfaces B: Biointerfaces, 2015, 136, 496-505.	2.5	13
62	Interaction Studies Between Indomethacin Nanocrystals and PEO/PPO Copolymer Stabilizers. Pharmaceutical Research, 2015, 32, 628-639.	1.7	38
63	Enhanced protein adsorption and patterning on nanostructured latex-coated paper. Colloids and Surfaces B: Biointerfaces, 2014, 118, 261-269.	2.5	13
64	Control of the Morphology of Lipid Layers by Substrate Surface Chemistry. Langmuir, 2014, 30, 2799-2809.	1.6	29
65	An impedimetric study of DNA hybridization on paper-supported inkjet-printed gold electrodes. Nanotechnology, 2014, 25, 094009.	1.3	30
66	Cholesterol level affects surface charge of lipid membranes in saline solution. Scientific Reports, 2014, 4, 5005.	1.6	157
67	Application of Paper-Supported Printed Gold Electrodes for Impedimetric Immunosensor Development. Biosensors, 2013, 3, 1-17.	2.3	34
68	Silymarin loaded liposomes for hepatic targeting: In vitro evaluation and HepG2 drug uptake. European Journal of Pharmaceutical Sciences, 2013, 50, 161-171.	1.9	73
69	Non-labeled monitoring of targeted liposome interactions with a model receptor surface: Effect of flow rate and water content. European Journal of Pharmaceutical Sciences, 2013, 50, 492-501.	1.9	9
70	Characterizing Ultrathin and Thick Organic Layers by Surface Plasmon Resonance Three-Wavelength and Waveguide Mode Analysis. Langmuir, 2013, 29, 8561-8571.	1.6	58
71	Label-Enhanced Surface Plasmon Resonance: A New Concept for Improved Performance in Optical Biosensor Analysis. Sensors, 2013, 13, 15348-15363.	2.1	33
72	Printing technologies in fabrication of drug delivery systems. Expert Opinion on Drug Delivery, 2013, 10, 1711-1723.	2.4	101

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73	Elucidating the Signal Responses of Multi-Parametric Surface Plasmon Resonance Living Cell Sensing: A Comparison between Optical Modeling and Drugâ€“MDCKII Cell Interaction Measurements. PLoS ONE, 2013, 8, e72192.	1.1	33
74	Fluid dynamics modeling for synchronizing surface plasmon resonance and quartz crystal microbalance as tools for biomolecular and targeted drug delivery studies. Journal of Colloid and Interface Science, 2012, 378, 251-259.	5.0	18
75	Covalent binding of phospholipid vesicles on fused silica capillaries for electrochromatography. Soft Matter, 2011, 7, 6041.	1.2	16
76	Inkjet printing of drug substances and use of porous substratesâ€towards individualized dosing. Journal of Pharmaceutical Sciences, 2011, 100, 3386-3395.	1.6	179
77	An impedance QCM study on the partitioning of bioactive compounds in supported phospholipid bilayers. Colloids and Surfaces B: Biointerfaces, 2011, 86, 298-304.	2.5	21
78	Molecular-level interactions of an azopolymer and poly(dodecylmethacrylate) in mixed Langmuir and Langmuirâ€“Blodgett films for optical storage. Journal of Colloid and Interface Science, 2010, 346, 87-95.	5.0	14
79	Surface plasmon resonance instrument as a refractometer for liquids and ultrathin films. Sensors and Actuators B: Chemical, 2010, 149, 212-220.	4.0	83
80	Molecular Organization of the Tear Film Lipid Layer. Biophysical Journal, 2010, 98, 488a.	0.2	0
81	Molecular Organization of the Tear Fluid Lipid Layer. Biophysical Journal, 2010, 99, 2559-2567.	0.2	67
82	Cobalt Nanoparticle Langmuirâ^'Schaefer Films on Ethylene Glycol Subphase. Langmuir, 2010, 26, 13937-13943.	1.6	18
83	Action of an Antiparasitic Peptide Active against African Sleeping Sickness in Biomembrane Models. Biophysical Journal, 2010, 98, 627a.	0.2	0
84	The interaction of an antiparasitic peptide active against African Sleeping Sickness with cell membrane models. Colloids and Surfaces B: Biointerfaces, 2009, 74, 504-510.	2.5	35
85	Cholesterol Mediates Chitosan Activity on Phospholipid Monolayers and Langmuirâ^'Blodgett Films. Langmuir, 2009, 25, 10051-10061.	1.6	60
86	Immobilization of Alcohol Dehydrogenase in Phospholipid Langmuirâ^'Blodgett Films To Detect Ethanol. Langmuir, 2009, 25, 3057-3061.	1.6	36
87	Characterization of phosphatidylcholine/polyethylene glycolâ€lipid aggregates and their use as coatings and carriers in capillary electrophoresis. Electrophoresis, 2008, 29, 852-862.	1.3	20
88	Interactions of fusidic acid and elongation factor G with lipid membranes. Analytical Biochemistry, 2008, 374, 133-142.	1.1	19
89	Enhanced activity of horseradish peroxidase in Langmuirâ€“Blodgett films of phospholipids. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2291-2297.	1.4	78
90	Chitosan as a Removing Agent of Î²-Lactoglobulin from Membrane Models. Langmuir, 2008, 24, 4150-4156.	1.6	42

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91	Interfacial Approach to Polyaromatic Hydrocarbon Toxicity: Phosphoglyceride and Cholesterol Monolayer Response to Phenantrene, Anthracene, Pyrene, Chrysene, and Benzo[a]pyrene. Journal of Physical Chemistry B, 2008, 112, 13518-13531.	1.2	24
92	Wax Deposition Investigations with Thermal Gradient Quartz Crystal Microbalance. , 2008, , 567-584.		1
93	Compression Isotherms and Morphological Characteristics of Pure and Mixed Langmuir Monolayers of C80Isoprenoid Tetraacids and a C18Monoacid. Journal of Dispersion Science and Technology, 2007, 28, 95-106.	1.3	20
94	Structure of Anionic Phospholipid Coatings on Silica by Dissipative Quartz Crystal Microbalance. Langmuir, 2007, 23, 609-618.	1.6	74
95	Construction of Viscoelastic Biocompatible Films via the Layer-by-Layer Assembly of Hyaluronan and Phosphorylcholine-Modified Chitosan. Biomacromolecules, 2007, 8, 3169-3176.	2.6	51
96	Optical Properties of Thermally Responsive Amphiphilic Gold Nanoparticles Protected with Polymers. Langmuir, 2006, 22, 794-801.	1.6	71
97	Amphiphilic Gold Nanoparticles Grafted with Poly(N-isopropylacrylamide) and Polystyrene. Macromolecules, 2005, 38, 2918-2926.	2.2	152
98	INTERFACIAL AND MATERIALS ASPECTS OF THE IMMOBILIZATION OF BIOMOLECULES ONTO SOLID SURFACES. , 2001, , 1-31.		12
99	Protein Immobilization to a Partially Cross-Linked Organic Monolayer. Langmuir, 2000, 16, 4953-4961.	1.6	48
100	Polymerization of Modified Diacetylenes in Langmuir Films. Langmuir, 2000, 16, 3337-3344.	1.6	29
101	Highly efficient immobilisation of antibody fragments to functionalised lipid monolayers. Biochimica Et Biophysica Acta - Biomembranes, 1999, 1421, 39-52.	1.4	37
102	UV-Induced Reaction Kinetics of Dilinoleoylphosphatidylethanolamine Monolayers. Biophysical Journal, 1999, 76, 2803-2813.	0.2	16
103	Atomic Force Microscopy of Langmuir-Blodgett Films Polymerized as a Floating Monolayer. ACS Symposium Series, 1998, , 231-249.	0.5	3
104	Synthesis and Langmuir Film Formation of N-(Îµ-Maleimidocaproyl)(dilinoleoylphosphatidyl)ethanolamine. Langmuir, 1998, 14, 1272-1277.	1.6	8
105	Spectroscopy, polymerization kinetics and topography of linoleic acid Langmuir and Langmuirâ€“Blodgett films. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 3185-3190.	1.7	9