Joakim Riikonen

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Mesoporous systems for poorly soluble drugs. International Journal of Pharmaceutics, 2013, 453, 181-197.	5.2	196
2	In vitro cytotoxicity of porous silicon microparticles: Effect of the particle concentration, surface chemistry and size. Acta Biomaterialia, 2010, 6, 2721-2731.	8.3	158
3	Failure of MTT as a Toxicity Testing Agent for Mesoporous Silicon Microparticles. Chemical Research in Toxicology, 2007, 20, 1913-1918.	3.3	129
4	In vivo delivery of a peptide, ghrelin antagonist, with mesoporous silicon microparticles. Journal of Controlled Release, 2009, 137, 166-170.	9.9	126
5	Surface chemistry and pore size affect carrier properties of mesoporous silicon microparticles. International Journal of Pharmaceutics, 2007, 343, 141-147.	5.2	97
6	Surface Chemistry, Reactivity, and Pore Structure of Porous Silicon Oxidized by Various Methods. Langmuir, 2012, 28, 10573-10583.	3.5	82
7	Effect of isotonic solutions and peptide adsorption on zeta potential of porous silicon nanoparticle drug delivery formulations. International Journal of Pharmaceutics, 2012, 431, 230-236.	5.2	82
8	Determination of the Physical State of Drug Molecules in Mesoporous Silicon with Different Surface Chemistries. Langmuir, 2009, 25, 6137-6142.	3.5	73
9	Development of Porous Silicon Nanocarriers for Parenteral Peptide Delivery. Molecular Pharmaceutics, 2013, 10, 353-359.	4.6	65
10	Novel Delivery Systems for Improving the Clinical Use of Peptides. Pharmacological Reviews, 2015, 67, 541-561.	16.0	62
11	Nanostructured porous silicon microparticles enable sustained peptide (Melanotan II) delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 77, 20-25.	4.3	61
12	Improved stability and biocompatibility of nanostructured silicon drug carrier for intravenous administration. Acta Biomaterialia, 2015, 13, 207-215.	8.3	60
13	Utilising thermoporometry to obtain new insights into nanostructured materials. Journal of Thermal Analysis and Calorimetry, 2011, 105, 811-821.	3.6	58
14	Mesoporous systems for poorly soluble drugs â€“ recent trends. International Journal of Pharmaceutics, 2018, 536, 178-186.	5.2	51
15	Utilising thermoporometry to obtain new insights into nanostructured materials. Journal of Thermal Analysis and Calorimetry, 2011, 105, 823-830.	3.6	41
16	Amine Surface Modifications and Fluorescent Labeling of Thermally Stabilized Mesoporous Silicon Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 22307-22314.	3.1	41
17	Systematic inÂvitro and inÂvivo study on porous silicon to improve the oral bioavailability of celecoxib. Biomaterials, 2015, 52, 44-55.	11.4	38
18	Cytotoxicity assessment of porous silicon microparticles for ocular drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 100, 1-8.	4.3	37

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19	Intraorally fast-dissolving particles of a poorly soluble drug: Preparation and in vitro characterization. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 71, 271-281.	4.3	31
20	Synthesis and characterization of Al2O3 nanoparticles by flame spray pyrolysis (FSP) â€” Role of Fe ions in the precursor. Powder Technology, 2016, 298, 42-49.	4.2	30
21	Recovery of uranium with bisphosphonate modified mesoporous silicon. Separation and Purification Technology, 2021, 272, 118913.	7.9	27
22	Improved production efficiency of mesoporous silicon nanoparticles by pulsed electrochemical etching. Powder Technology, 2016, 288, 360-365.	4.2	26
23	Controlled enlargement of pores by annealing of porous silicon. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1313-1317.	1.8	25
24	Atmospheric pressure chemical vapour synthesis of siliconâ€“carbon nanoceramics from hexamethyldisilane in high temperature aerosol reactor. Journal of Nanoparticle Research, 2011, 13, 4631-4645.	1.9	25
25	Perphenazine solid dispersions for orally fast-disintegrating tablets: physical stability and formulation. Drug Development and Industrial Pharmacy, 2010, 36, 601-613.	2.0	24
26	Endogenous Stable Radicals for Characterization of Thermally Carbonized Porous Silicon by Solid-State Dynamic Nuclear Polarization ¹³C NMR. Journal of Physical Chemistry C, 2015, 119, 19272-19278.	3.1	23
27	New approach for determining cartilage pore size distribution: NaCl-thermoporometry. Microporous and Mesoporous Materials, 2017, 241, 238-245.	4.4	23
28	Drug loading and characterization of porous silicon materials. , 2014, , 337-355.		21
29	Bisphosphonate modified mesoporous silicon for scandium adsorption. Microporous and Mesoporous Materials, 2020, 296, 109980.	4.4	21
30	Injected nanoparticles: The combination of experimental systems to assess cardiovascular adverse effects. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 87, 64-72.	4.3	17
31	Fast-dissolving sublingual solid dispersion and cyclodextrin complex increase the absorption of perphenazine in rabbits. Journal of Pharmacy and Pharmacology, 2010, 63, 19-25.	2.4	15
32	Freezing tolerance and low molecular weight cryoprotectants in an invasive parasitic fly, the deer ked (<i>Lipoptena cervi</i>). Journal of Experimental Zoology, 2012, 317A, 1-8.	1.2	15
33	Facile synthesis of biocompatible superparamagnetic mesoporous nanoparticles for imageable drug delivery. Microporous and Mesoporous Materials, 2014, 195, 2-8.	4.4	15
34	Films of Graphene Nanomaterials Formed by Ultrasonic Spraying of Their Stable Suspensions. Aerosol Science and Technology, 2015, 49, 45-56.	3.1	15
35	Low-Load Metal-Assisted Catalytic Etching Produces Scalable Porosity in Si Powders. ACS Applied Materials & Interfaces, 2020, 12, 48969-48981.	8.0	14
36	Cascading use of barley husk ash to produce silicon for composite anodes of Li-ion batteries. Materials Chemistry and Physics, 2020, 245, 122736.	4.0	14

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37	Stable surface functionalization of carbonized mesoporous silicon. Inorganic Chemistry Frontiers, 2020, 7, 631-641.	6.0	11
38	Controlling the Nature of Etched Si Nanostructures: High- versus Low-Load Metal-Assisted Catalytic Etching (MACE) of Si Powders. ACS Applied Materials & Interfaces, 2020, 12, 4787-4796.	8.0	11
39	A Novel Method of Quantifying the u-Shaped Pores in SBA-15. Journal of Physical Chemistry C, 2009, 113, 20349-20354.	3.1	10
40	In Vitro Dissolution Methods for Hydrophilic and Hydrophobic Porous Silicon Microparticles. Pharmaceutics, 2011, 3, 315-325.	4.5	10
41	Nanocarriers and the delivered drug: Effect interference due to intravenous administration. European Journal of Pharmaceutical Sciences, 2014, 63, 96-102.	4.0	10
42	Optimisation of thermoporometry measurements to evaluate mesoporous organic and carbon xero-, cryo- and aerogels. Thermochimica Acta, 2015, 621, 81-89.	2.7	10
43	The atomic local ordering of SBA-15 studied with pair distribution function analysis, and its relationship to porous structure and thermal stability. Acta Materialia, 2019, 175, 341-347.	7.9	10
44	Aerosol characterization and lung deposition of synthesized TiO2 nanoparticles for murine inhalation studies. Journal of Nanoparticle Research, 2011, 13, 2949-2961.	1.9	9
45	Biodegradation of inorganic drug delivery systems in subcutaneous conditions. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 122, 113-125.	4.3	9
46	Development of a highly controlled gas-phase nanoparticle generator for inhalation exposure studies. Human and Experimental Toxicology, 2009, 28, 413-419.	2.2	8
47	Low-temperature aerosol flow reactor method for preparation of surface stabilized pharmaceutical nanocarriers. Journal of Aerosol Science, 2011, 42, 645-656.	3.8	8
48	Inorganic mesoporous particles for controlled Î±-linolenic acid delivery to stimulate GLP-1 secretion in vitro. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 144, 132-138.	4.3	8
49	Synthesis of graphene-like carbon from agricultural side stream with magnesiothermic reduction coupled with atmospheric pressure induction annealing. Nano Express, 2020, 1, 010014.	2.4	7
50	Rapid synthesis of nanostructured porous silicon carbide from biogenic silica. Journal of the American Ceramic Society, 2021, 104, 766-775.	3.8	6
51	Biogenic nanoporous silicon carrier improves the efficacy of buparvaquone against resistant visceral leishmaniasis. PLoS Neglected Tropical Diseases, 2021, 15, e0009533.	3.0	5
52	Plant-based nanostructured silicon carbide modified with bisphosphonates for metal adsorption. Microporous and Mesoporous Materials, 2021, 324, 111294.	4.4	5
53	Colonic Delivery of Î±â€Linolenic Acid by an Advanced Nutrient Delivery System Prolongs Glucagonâ€Like Peptideâ€1 Secretion and Inhibits Food Intake in Mice. Molecular Nutrition and Food Research, 2022, 66, e2100978.	3.3	4
54	Functionalized nanoporous silicon for extraction of Sc from a leach solution. Hydrometallurgy, 2022, , 105866.	4.3	2

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55	Porous Silicon in Drug Delivery Applications. Springer Series in Materials Science, 2015, , 163-185.	0.6	0
56	Solvent Loading of Porous Silicon. , 2016, , 1-13.		0
57	Solvent Loading of Porous Silicon. , 2018, , 913-925.		0
58	Injection Metal-Assisted Catalytic Etching (MACE) of Si Powder: Discovery of Low-Load MACE and Pore Distribution Tunability Using Ag, Au, Pd, Pt and Cu Catalysts. ECS Meeting Abstracts, 2020, MA2020-02, 1219-1219.	0.0	0