Joakim Riikonen

List of Publications by Year
in descending order

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58 papers	1,993 citations	257450 24 h-index	254184 43 g-index
59 all docs	59 docs citations	59 times ranked	2563 citing authors

#	Article	IF	Citations
1	Functionalized nanoporous silicon for extraction of Sc from a leach solution. Hydrometallurgy, 2022, , 105866.	4.3	2
2	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
3	Rapid synthesis of nanostructured porous silicon carbide from biogenic silica. Journal of the American Ceramic Society, 2021, 104, 766-775.	3.8	6
4	Biogenic nanoporous silicon carrier improves the efficacy of buparvaquone against resistant visceral leishmaniasis. PLoS Neglected Tropical Diseases, 2021, 15, e0009533.	3.0	5
5	Plant-based nanostructured silicon carbide modified with bisphosphonates for metal adsorption. Microporous and Mesoporous Materials, 2021, 324, 111294.	4.4	5
6	Recovery of uranium with bisphosphonate modified mesoporous silicon. Separation and Purification Technology, 2021, 272, 118913.	7.9	27
7	Stable surface functionalization of carbonized mesoporous silicon. Inorganic Chemistry Frontiers, 2020, 7, 631-641.	6.0	11
8	Bisphosphonate modified mesoporous silicon for scandium adsorption. Microporous and Mesoporous Materials, 2020, 296, 109980.	4.4	21
9	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
10	Low-Load Metal-Assisted Catalytic Etching Produces Scalable Porosity in Si Powders. ACS Applied Materials & Interfaces, 2020, 12, 48969-48981.	8.0	14
11	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
12	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
13	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
14	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
15	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
16	Biodegradation of inorganic drug delivery systems in subcutaneous conditions. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 122, 113-125.	4.3	9
17	Mesoporous systems for poorly soluble drugs â€" recent trends. International Journal of Pharmaceutics, 2018, 536, 178-186.	5.2	51
18	Solvent Loading of Porous Silicon. , 2018, , 913-925.		0

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19	New approach for determining cartilage pore size distribution: NaCl-thermoporometry. Microporous and Mesoporous Materials, 2017, 241, 238-245.	4.4	23
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	Improved production efficiency of mesoporous silicon nanoparticles by pulsed electrochemical etching. Powder Technology, 2016, 288, 360-365.	4.2	26
22	Cytotoxicity assessment of porous silicon microparticles for ocular drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 100, 1-8.	4.3	37
23	Solvent Loading of Porous Silicon. , 2016, , 1-13.		0
24	Films of Graphene Nanomaterials Formed by Ultrasonic Spraying of Their Stable Suspensions. Aerosol Science and Technology, 2015, 49, 45-56.	3.1	15
25	Novel Delivery Systems for Improving the Clinical Use of Peptides. Pharmacological Reviews, 2015, 67, 541-561.	16.0	62
26	Optimisation of thermoporometry measurements to evaluate mesoporous organic and carbon xero-, cryo- and aerogels. Thermochimica Acta, 2015, 621, 81-89.	2.7	10
27	Systematic inÂvitro and inÂvivo study on porous silicon to improve the oral bioavailability of celecoxib. Biomaterials, 2015, 52, 44-55.	11.4	38
28	Porous Silicon in Drug Delivery Applications. Springer Series in Materials Science, 2015, , 163-185.	0.6	0
29	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
30	Improved stability and biocompatibility of nanostructured silicon drug carrier for intravenous administration. Acta Biomaterialia, 2015, 13, 207-215.	8.3	60
31	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
32	Facile synthesis of biocompatible superparamagnetic mesoporous nanoparticles for imageable drug delivery. Microporous and Mesoporous Materials, 2014, 195, 2-8.	4.4	15
33	Drug loading and characterization of porous silicon materials. , 2014, , 337-355.		21
34	Nanocarriers and the delivered drug: Effect interference due to intravenous administration. European Journal of Pharmaceutical Sciences, 2014, 63, 96-102.	4.0	10
35	Development of Porous Silicon Nanocarriers for Parenteral Peptide Delivery. Molecular Pharmaceutics, 2013, 10, 353-359.	4.6	65
36	Mesoporous systems for poorly soluble drugs. International Journal of Pharmaceutics, 2013, 453, 181-197.	5.2	196

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37	Amine Surface Modifications and Fluorescent Labeling of Thermally Stabilized Mesoporous Silicon Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 22307-22314.	3.1	41
38	Surface Chemistry, Reactivity, and Pore Structure of Porous Silicon Oxidized by Various Methods. Langmuir, 2012, 28, 10573-10583.	3.5	82
39	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
40	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
41	Nanostructured porous silicon microparticles enable sustained peptide (Melanotan II) delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 77, 20-25.	4.3	61
42	Low-temperature aerosol flow reactor method for preparation of surface stabilized pharmaceutical nanocarriers. Journal of Aerosol Science, 2011, 42, 645-656.	3.8	8
43	In Vitro Dissolution Methods for Hydrophilic and Hydrophobic Porous Silicon Microparticles. Pharmaceutics, 2011, 3, 315-325.	4.5	10
44	Utilising thermoporometry to obtain new insights into nanostructured materials. Journal of Thermal Analysis and Calorimetry, 2011, 105, 811-821.	3.6	58
45	Utilising thermoporometry to obtain new insights into nanostructured materials. Journal of Thermal Analysis and Calorimetry, 2011, 105, 823-830.	3.6	41
46	Aerosol characterization and lung deposition of synthesized TiO2 nanoparticles for murine inhalation studies. Journal of Nanoparticle Research, 2011, 13, 2949-2961.	1.9	9
47	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
48	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
49	Perphenazine solid dispersions for orally fast-disintegrating tablets: physical stability and formulation. Drug Development and Industrial Pharmacy, 2010, 36, 601-613.	2.0	24
50	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
51	Development of a highly controlled gas-phase nanoparticle generator for inhalation exposure studies. Human and Experimental Toxicology, 2009, 28, 413-419.	2.2	8
52	In vivo delivery of a peptide, ghrelin antagonist, with mesoporous silicon microparticles. Journal of Controlled Release, 2009, 137, 166-170.	9.9	126
53	Controlled enlargement of pores by annealing of porous silicon. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1313-1317.	1.8	25
54	A Novel Method of Quantifying the u-Shaped Pores in SBA-15. Journal of Physical Chemistry C, 2009, 113, 20349-20354.	3.1	10

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55	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
56	Determination of the Physical State of Drug Molecules in Mesoporous Silicon with Different Surface Chemistries. Langmuir, 2009, 25, 6137-6142.	3.5	73
57	Failure of MTT as a Toxicity Testing Agent for Mesoporous Silicon Microparticles. Chemical Research in Toxicology, 2007, 20, 1913-1918.	3.3	129
58	Surface chemistry and pore size affect carrier properties of mesoporous silicon microparticles. International Journal of Pharmaceutics, 2007, 343, 141-147.	5.2	97