

Ermei M MÃ¸kilÃ¸

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6367663/publications.pdf>

Version: 2024-02-01

176
papers

9,084
citations

22099

59
h-index

48187

88
g-index

178
all docs

178
docs citations

178
times ranked

10582
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocompatibility of Thermally Hydrocarbonized Porous Silicon Nanoparticles and their Biodistribution in Rats. <i>ACS Nano</i> , 2010, 4, 3023-3032.	7.3	316
2	Ethylene vinyl acetate (EVA) as a new drug carrier for 3D printed medical drug delivery devices. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 90, 53-63.	1.9	224
3	Three-Dimensional Printed PCL-Based Implantable Prototypes of Medical Devices for Controlled Drug Delivery. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 2665-2676.	1.6	197
4	Size, Stability, and Porosity of Mesoporous Nanoparticles Characterized with Light Scattering. <i>Nanoscale Research Letters</i> , 2017, 12, 74.	3.1	168
5	The mechanisms of surface chemistry effects of mesoporous silicon nanoparticles on immunotoxicity and biocompatibility. <i>Biomaterials</i> , 2013, 34, 7776-7789.	5.7	163
6	In vitro cytotoxicity of porous silicon microparticles: Effect of the particle concentration, surface chemistry and size. <i>Acta Biomaterialia</i> , 2010, 6, 2721-2731.	4.1	158
7	Drug permeation across intestinal epithelial cells using porous silicon nanoparticles. <i>Biomaterials</i> , 2011, 32, 2625-2633.	5.7	157
8	Porous silicon nanoparticles for nanomedicine: preparation and biomedical applications. <i>Nanomedicine</i> , 2014, 9, 535-554.	1.7	155
9	Intravenous Delivery of Hydrophobin-Functionalized Porous Silicon Nanoparticles: Stability, Plasma Protein Adsorption and Biodistribution. <i>Molecular Pharmaceutics</i> , 2012, 9, 654-663.	2.3	146
10	Drug Delivery Formulations of Ordered and Nonordered Mesoporous Silica: Comparison of Three Drug Loading Methods. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 3294-3306.	1.6	144
11	Multistaged Nanovaccines Based on Porous Silicon@Acetalated Dextran@Cancer Cell Membrane for Cancer Immunotherapy. <i>Advanced Materials</i> , 2017, 29, 1603239.	11.1	144
12	Co-delivery of a hydrophobic small molecule and a hydrophilic peptide by porous silicon nanoparticles. <i>Journal of Controlled Release</i> , 2013, 170, 268-278.	4.8	141
13	Multifunctional porous silicon nanoparticles for cancer theranostics. <i>Biomaterials</i> , 2015, 48, 108-118.	5.7	141
14	Fabrication of a Multifunctional Nano@Cin@Cmicro Drug Delivery Platform by Microfluidic Templated Encapsulation of Porous Silicon in Polymer Matrix. <i>Advanced Materials</i> , 2014, 26, 4497-4503.	11.1	138
15	Microfluidic assisted one-step fabrication of porous silicon@acetalated dextran nanocomposites for precisely controlled combination chemotherapy. <i>Biomaterials</i> , 2015, 39, 249-259.	5.7	133
16	The impact of nanoparticles on the mucosal translocation and transport of GLP-1 across the intestinal epithelium. <i>Biomaterials</i> , 2014, 35, 9199-9207.	5.7	127
17	The mucoadhesive and gastroretentive properties of hydrophobin-coated porous silicon nanoparticle oral drug delivery systems. <i>Biomaterials</i> , 2012, 33, 3353-3362.	5.7	125
18	Comparison of mesoporous silicon and non-ordered mesoporous silica materials as drug carriers for itraconazole. <i>International Journal of Pharmaceutics</i> , 2011, 414, 148-156.	2.6	124

#	ARTICLE	IF	CITATIONS
19	Core/Shell Nanocomposites Produced by Superfast Sequential Microfluidic Nanoprecipitation. <i>Nano Letters</i> , 2017, 17, 606-614.	4.5	123
20	Versatile Cellulose-Based Carbon Aerogel for the Removal of Both Cationic and Anionic Metal Contaminants from Water. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25875-25883.	4.0	119
21	Meso- and microporous soft templated hydrothermal carbons for dye removal from water. <i>Green Chemistry</i> , 2016, 18, 1137-1146.	4.6	118
22	Diatom silica microparticles for sustained release and permeation enhancement following oral delivery of prednisone and mesalamine. <i>Biomaterials</i> , 2013, 34, 9210-9219.	5.7	116
23	Inhibition of Multidrug Resistance of Cancer Cells by Co-Delivery of DNA Nanostructures and Drugs Using Porous Silicon Nanoparticles@Giant Liposomes. <i>Advanced Functional Materials</i> , 2015, 25, 3330-3340.	7.8	114
24	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.	4.1	109
25	Amine Modification of Thermally Carbonized Porous Silicon with Silane Coupling Chemistry. <i>Langmuir</i> , 2012, 28, 14045-14054.	1.6	108
26	Amine-modified hyaluronic acid-functionalized porous silicon nanoparticles for targeting breast cancer tumors. <i>Nanoscale</i> , 2014, 6, 10377-10387.	2.8	108
27	Microfluidic Assembly of Monodisperse Multistage pH-Responsive Polymer/Porous Silicon Composites for Precisely Controlled Multi-Drug Delivery. <i>Small</i> , 2014, 10, 2029-2038.	5.2	105
28	Chitosan-modified porous silicon microparticles for enhanced permeability of insulin across intestinal cell monolayers. <i>Biomaterials</i> , 2014, 35, 7172-7179.	5.7	105
29	Acid mine drainage (AMD) treatment: Neutralization and toxic elements removal with unmodified and modified limestone. <i>Ecological Engineering</i> , 2015, 81, 30-40.	1.6	99
30	Microfluidic Assembly of a Multifunctional Tailorable Composite System Designed for Site Specific Combined Oral Delivery of Peptide Drugs. <i>ACS Nano</i> , 2015, 9, 8291-8302.	7.3	96
31	Copper-free azide-alkyne cycloaddition of targeting peptides to porous silicon nanoparticles for intracellular drug uptake. <i>Biomaterials</i> , 2014, 35, 1257-1266.	5.7	94
32	Thiolation and Cell-Penetrating Peptide Surface Functionalization of Porous Silicon Nanoparticles for Oral Delivery of Insulin. <i>Advanced Functional Materials</i> , 2016, 26, 3405-3416.	7.8	94
33	Development and optimization of methotrexate-loaded lipid-polymer hybrid nanoparticles for controlled drug delivery applications. <i>International Journal of Pharmaceutics</i> , 2017, 533, 156-168.	2.6	93
34	Photothermal-responsive nanosized hybrid polymersome as versatile therapeutics codelivery nanovehicle for effective tumor suppression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7744-7749.	3.3	85
35	Effect of isotonic solutions and peptide adsorption on zeta potential of porous silicon nanoparticle drug delivery formulations. <i>International Journal of Pharmaceutics</i> , 2012, 431, 230-236.	2.6	82
36	Adsorption behavior of hydrothermally treated municipal sludge & pulp and paper industry sludge. <i>Bioresource Technology</i> , 2013, 147, 71-76.	4.8	82

#	ARTICLE	IF	CITATIONS
37	Drug-Loaded Multifunctional Nanoparticles Targeted to the Endocardial Layer of the Injured Heart Modulate Hypertrophic Signaling. <i>Small</i> , 2017, 13, 1701276.	5.2	82
38	Multifunctional Nanohybrid Based on Porous Silicon Nanoparticles, Gold Nanoparticles, and Acetalated Dextran for Liver Regeneration and Acute Liver Failure Theranostics. <i>Advanced Materials</i> , 2018, 30, e1703393.	11.1	80
39	Systematic Evaluation of Transferrin-Modified Porous Silicon Nanoparticles for Targeted Delivery of Doxorubicin to Glioblastoma. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33637-33649.	4.0	80
40	Mesoporous Silicon (PSi) for Sustained Peptide Delivery: Effect of PSi Microparticle Surface Chemistry on Peptide YY3-36 Release. <i>Pharmaceutical Research</i> , 2012, 29, 837-846.	1.7	79
41	Dual-drug delivery by porous silicon nanoparticles for improved cellular uptake, sustained release, and combination therapy. <i>Acta Biomaterialia</i> , 2015, 16, 206-214.	4.1	78
42	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.	5.7	77
43	Tumour homing peptide-functionalized porous silicon nanovectors for cancer therapy. <i>Biomaterials</i> , 2013, 34, 9134-9141.	5.7	76
44	Microfluidic assembly of multistage porous silicon-lipid vesicles for controlled drug release. <i>Lab on A Chip</i> , 2014, 14, 1083-1086.	3.1	75
45	Determination of the Physical State of Drug Molecules in Mesoporous Silicon with Different Surface Chemistries. <i>Langmuir</i> , 2009, 25, 6137-6142.	1.6	73
46	In vivo biocompatibility of porous silicon biomaterials for drug delivery to the heart. <i>Biomaterials</i> , 2014, 35, 8394-8405.	5.7	73
47	Gold Nanorods Conjugated Porous Silicon Nanoparticles Encapsulated in Calcium Alginate Nano Hydrogels Using Microemulsion Templates. <i>Nano Letters</i> , 2018, 18, 1448-1453.	4.5	73
48	Hierarchical structured and programmed vehicles deliver drugs locally to inflamed sites of intestine. <i>Biomaterials</i> , 2018, 185, 322-332.	5.7	73
49	Nanostructured Porous Silicon-Solid Lipid Nanocomposite: Towards Enhanced Cytocompatibility and Stability, Reduced Cellular Association, and Prolonged Drug Release. <i>Advanced Functional Materials</i> , 2013, 23, 1893-1902.	7.8	72
50	Surface chemistry dependent immunostimulative potential of porous silicon nanoplatfoms. <i>Biomaterials</i> , 2014, 35, 9224-9235.	5.7	72
51	In vitro and in vivo assessment of heart-homing porous silicon nanoparticles. <i>Biomaterials</i> , 2016, 94, 93-104.	5.7	72
52	Functional hydrophobin-coating of thermally hydrocarbonized porous silicon microparticles. <i>Biomaterials</i> , 2011, 32, 9089-9099.	5.7	71
53	Inhibition of Influenza A Virus Infection <i>in Vitro</i> by Saliphenylhalamide-Loaded Porous Silicon Nanoparticles. <i>ACS Nano</i> , 2013, 7, 6884-6893.	7.3	71
54	Physicochemical design of the morphology and ultrastructure of cellulose beads. <i>Carbohydrate Polymers</i> , 2013, 93, 291-299.	5.1	70

#	ARTICLE	IF	CITATIONS
55	¹⁸ F-Labeled Modified Porous Silicon Particles for Investigation of Drug Delivery Carrier Distribution in Vivo with Positron Emission Tomography. <i>Molecular Pharmaceutics</i> , 2011, 8, 1799-1806.	2.3	65
56	Conductive vancomycin-loaded mesoporous silica polypyrrole-based scaffolds for bone regeneration. <i>International Journal of Pharmaceutics</i> , 2018, 536, 241-250.	2.6	65
57	Cellular interactions of surface modified nanoporous silicon particles. <i>Nanoscale</i> , 2012, 4, 3184.	2.8	63
58	Augmented cellular trafficking and endosomal escape of porous silicon nanoparticles via zwitterionic bilayer polymer surface engineering. <i>Biomaterials</i> , 2014, 35, 7488-7500.	5.7	61
59	Optical gas sensing properties of thermally hydrocarbonized porous silicon Bragg reflectors. <i>Optics Express</i> , 2009, 17, 5446.	1.7	60
60	On-Chip Self-Assembly of a Smart Hybrid Nanocomposite for Antitumoral Applications. <i>Advanced Functional Materials</i> , 2015, 25, 1488-1497.	7.8	60
61	Fabrication and Characterization of Drug-Loaded Conductive Poly(glycerol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (see back Materials & Interfaces, 2020, 12, 6899-6909.	4.0	57
62	Cyclodextrin-Modified Porous Silicon Nanoparticles for Efficient Sustained Drug Delivery and Proliferation Inhibition of Breast Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23197-23204.	4.0	55
63	Gold Nanorods, DNA Origami, and Porous Silicon Nanoparticle-Functionalized Biocompatible Double Emulsion for Versatile Targeted Therapeutics and Antibody Combination Therapy. <i>Advanced Materials</i> , 2016, 28, 10195-10203.	11.1	55
64	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.	1.1	54
65	A prospective cancer chemo-immunotherapy approach mediated by synergistic CD326 targeted porous silicon nanovectors. <i>Nano Research</i> , 2015, 8, 1505-1521.	5.8	54
66	Biomimetic Engineering Using Cancer Cell Membranes for Designing Compartmentalized Nanoreactors with Organelle-Like Functions. <i>Advanced Materials</i> , 2017, 29, 1605375.	11.1	54
67	Robust shape-retaining nanocellulose-based aerogels decorated with silver nanoparticles for fast continuous catalytic discoloration of organic dyes. <i>Separation and Purification Technology</i> , 2020, 242, 116523.	3.9	54
68	Engineered Multifunctional Albumin-Decorated Porous Silicon Nanoparticles for FcRn Translocation of Insulin. <i>Small</i> , 2018, 14, e1800462.	5.2	53
69	Receptor-Mediated Surface Charge Inversion Platform Based on Porous Silicon Nanoparticles for Efficient Cancer Cell Recognition and Combination Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10034-10046.	4.0	51
70	Cellular Internalization-Induced Aggregation of Porous Silicon Nanoparticles for Ultrasound Imaging and Protein-Mediated Protection of Stem Cells. <i>Small</i> , 2019, 15, e1804332.	5.2	51
71	Production of magnesium hydroxide from magnesium silicate for the purpose of CO2 mineralization â€“ Part 2: Mg extraction modeling and application to different Mg silicate rocks. <i>Minerals Engineering</i> , 2012, 30, 87-94.	1.8	50
72	Pretargeted PET Imaging of <i>trans</i> -Cyclooctene-Modified Porous Silicon Nanoparticles. <i>ACS Omega</i> , 2017, 2, 62-69.	1.6	50

#	ARTICLE	IF	CITATIONS
73	Quercetinâ€Based Modified Porous Silicon Nanoparticles for Enhanced Inhibition of Doxorubicinâ€Resistant Cancer Cells. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601009.	3.9	49
74	Industrial products and wastes as adsorbents for sulphate and chloride removal from synthetic alkaline solution and mine process water. <i>Chemical Engineering Journal</i> , 2015, 259, 364-371.	6.6	48
75	Thermally Carbonized Porous Silicon and Its Recent Applications. <i>Advanced Materials</i> , 2018, 30, e1703819.	11.1	48
76	Microfluidic Nanoassembly of Bioengineered Chitosan-Modified FcRn-Targeted Porous Silicon Nanoparticles @ Hypromellose Acetate Succinate for Oral Delivery of Antidiabetic Peptides. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44354-44367.	4.0	47
77	Close-loop dynamic nanohybrids on collagen-ark with <i>in situ</i> gelling transformation capability for biomimetic stage-specific diabetic wound healing. <i>Materials Horizons</i> , 2019, 6, 385-393.	6.4	46
78	Microfluidic Templated Mesoporous Siliconâ€Solid Lipid Microcomposites for Sustained Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12127-12134.	4.0	45
79	Nitric oxide-releasing porous silicon nanoparticles. <i>Nanoscale Research Letters</i> , 2014, 9, 333.	3.1	45
80	Antibacterial properties of nitric oxide-releasing porous silicon nanoparticles. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2051-2058.	2.9	45
81	Fabrication, characterization and evaluation of bacterial cellulose-based capsule shells for oral drug delivery. <i>Cellulose</i> , 2017, 24, 1445-1454.	2.4	45
82	Polydopamine Nanoparticles Prepared Using Redox-Active Transition Metals. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2513-2524.	1.2	45
83	Oral hypoglycaemic effect of GLP-1 and DPP4 inhibitor based nanocomposites in a diabetic animal model. <i>Journal of Controlled Release</i> , 2016, 232, 113-119.	4.8	44
84	A Versatile Carbonic Anhydrase IX Targeting Ligand-Functionalized Porous Silicon Nanoplatform for Dual Hypoxia Cancer Therapy and Imaging. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13976-13987.	4.0	44
85	Bioengineered Porous Silicon Nanoparticles@Macrophages Cell Membrane as Composite Platforms for Rheumatoid Arthritis. <i>Advanced Functional Materials</i> , 2018, 28, 1801355.	7.8	44
86	Poly(methyl vinyl etherâ€maleic acid)â€Functionalized Porous Silicon Nanoparticles for Enhanced Stability and Cellular Internalization. <i>Macromolecular Rapid Communications</i> , 2014, 35, 624-629.	2.0	42
87	Studies on Chemical Modification of Porous Siliconâ€Based Gradedâ€Index Optical Microcavities for Improved Stability Under Alkaline Conditions. <i>Advanced Functional Materials</i> , 2012, 22, 3890-3898.	7.8	41
88	Effect of Water on a Hydrophobic Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , 2022, 126, 513-527.	1.2	41
89	New times, new trends for ethionamide: In vitro evaluation of drug-loaded thermally carbonized porous silicon microparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 81, 314-323.	2.0	37
90	Integrated on-chip energy storage using passivated nanoporous-silicon electrochemical capacitors. <i>Nano Energy</i> , 2016, 25, 68-79.	8.2	37

#	ARTICLE	IF	CITATIONS
91	Electro-optical porous silicon gas sensor with enhanced selectivity. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 100-104.	4.0	36
92	Biohybrid Vaccines for Improved Treatment of Aggressive Melanoma with Checkpoint Inhibitor. <i>ACS Nano</i> , 2019, 13, 6477-6490.	7.3	36
93	Transferrin-targeted porous silicon nanoparticles reduce glioblastoma cell migration across tight extracellular space. <i>Scientific Reports</i> , 2020, 10, 2320.	1.6	36
94	Small interfering RNA delivery by polyethylenimine-functionalised porous silicon nanoparticles. <i>Biomaterials Science</i> , 2015, 3, 1555-1565.	2.6	35
95	Functionalization of Alkyne-Terminated Thermally Hydrocarbonized Porous Silicon Nanoparticles With Targeting Peptides and Antifouling Polymers: Effect on the Human Plasma Protein Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2006-2015.	4.0	33
96	Delivery of Flightless I siRNA from Porous Silicon Nanoparticles Improves Wound Healing in Mice. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 2339-2346.	2.6	33
97	Platelet Lysate-Modified Porous Silicon Microparticles for Enhanced Cell Proliferation in Wound Healing Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 988-996.	4.0	33
98	Electrostatic Interaction on Loading of Therapeutic Peptide GLP-1 into Porous Silicon Nanoparticles. <i>Langmuir</i> , 2015, 31, 1722-1729.	1.6	32
99	Tablet preformulations of indomethacin-loaded mesoporous silicon microparticles. <i>International Journal of Pharmaceutics</i> , 2012, 422, 125-131.	2.6	31
100	Intracellular responsive dual delivery by endosomolytic polyplexes carrying DNA anchored porous silicon nanoparticles. <i>Journal of Controlled Release</i> , 2017, 249, 111-122.	4.8	31
101	Coating Nanoparticles with Plant-Produced Transferrin-Hydrophobin Fusion Protein Enhances Their Uptake in Cancer Cells. <i>Bioconjugate Chemistry</i> , 2017, 28, 1639-1648.	1.8	31
102	Confinement Effects on Drugs in Thermally Hydrocarbonized Porous Silicon. <i>Langmuir</i> , 2014, 30, 2196-2205.	1.6	30
103	Porous silicon micro- and nanoparticles for printed humidity sensors. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	29
104	Cardiac Actions of a Small Molecule Inhibitor Targeting GATA4-NKX2-5 Interaction. <i>Scientific Reports</i> , 2018, 8, 4611.	1.6	29
105	<i>In Vivo</i> Evaluation of Porous Silicon and Porous Silicon Solid Lipid Nanocomposites for Passive Targeting and Imaging. <i>Molecular Pharmaceutics</i> , 2014, 11, 2876-2886.	2.3	27
106	Interactions between graphene sheets and ionic molecules used for the shear-assisted exfoliation of natural graphite. <i>Carbon</i> , 2014, 68, 195-209.	5.4	26
107	Controlled enlargement of pores by annealing of porous silicon. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1313-1317.	0.8	25
108	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.	2.0	25

#	ARTICLE	IF	CITATIONS
109	Influence of Surface Chemistry on Ibuprofen Adsorption and Confinement in Mesoporous Silicon Microparticles. <i>Langmuir</i> , 2016, 32, 13020-13029.	1.6	25
110	Modified and unmodified low-cost iron-containing solid wastes as adsorbents for efficient removal of As(III) and As(V) from mine water. <i>Journal of Cleaner Production</i> , 2016, 133, 1095-1104.	4.6	25
111	Regenerative Electroless Etching of Silicon. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 624-627.	7.2	25
112	Multifunctional Biomimetic Nanovaccines Based on Photothermal and Weak Immunostimulatory Nanoparticulate Cores for the Immunotherapy of Solid Tumors. <i>Advanced Materials</i> , 2022, 34, e2108012.	11.1	25
113	Engineered antibody-functionalized porous silicon nanoparticles for therapeutic targeting of pro-survival pathway in endogenous neuroblasts after stroke. <i>Biomaterials</i> , 2020, 227, 119556.	5.7	23
114	Neonatal Fc receptor-targeted lignin-encapsulated porous silicon nanoparticles for enhanced cellular interactions and insulin permeation across the intestinal epithelium. <i>Bioactive Materials</i> , 2022, 9, 299-315.	8.6	23
115	Fabrication of Porous Silicon Based Humidity Sensing Elements on Paper. <i>Journal of Sensors</i> , 2015, 2015, 1-10.	0.6	21
116	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.	2.6	21
117	Thermally promoted addition of undecylenic acid on thermally hydrocarbonized porous silicon optical reflectors. <i>Nanoscale Research Letters</i> , 2012, 7, 311.	3.1	20
118	Use of carbonate rocks for flue gas desulfurization: Reactive dissolution of limestone particles. <i>Applied Energy</i> , 2012, 90, 175-181.	5.1	20
119	Selective Optical Response of Hydrolytically Stable Stratified Si Rugate Mirrors to Liquid Infiltration. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2884-2892.	4.0	18
120	Gas Sensor using Anodic TiO ₂ Thin Film for Monitoring Hydrogen. <i>Procedia Engineering</i> , 2012, 47, 791-794.	1.2	17
121	A study of monitoring hydrogen using mesoporous TiO ₂ synthesized by anodization. <i>Sensors and Actuators B: Chemical</i> , 2013, 189, 246-250.	4.0	16
122	Optimization of a Wet Flue Gas Desulfurization Scrubber through Mathematical Modeling of Limestone Dissolution Experiments. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9783-9797.	1.8	15
123	A multifunctional nanocomplex for enhanced cell uptake, endosomal escape and improved cancer therapeutic effect. <i>Nanomedicine</i> , 2017, 12, 1401-1420.	1.7	15
124	Stencil Printing – A Novel Manufacturing Platform for Orodispersible Discs. <i>Pharmaceutics</i> , 2020, 12, 33.	2.0	13
125	Investigation of silicon nanoparticles produced by centrifuge chemical vapor deposition for applications in therapy and diagnostics. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 158, 254-265.	2.0	13
126	Lignocellulosic Nanocrystals from Sawmill Waste as Biotemplates for Free-Surfactant Synthesis of Photocatalytically Active Porous Silica. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19547-19560.	4.0	13

#	ARTICLE	IF	CITATIONS
127	(Invited) Thermal Carbonization of Porous Silicon: The Current Status and Recent Applications. ECS Transactions, 2015, 69, 167-176.	0.3	12
128	Active diffusion of nanoparticles of maternal origin within the embryonic brain. Nanomedicine, 2016, 11, 2471-2481.	1.7	12
129	Excitation effects and luminescence stability in porous SiO ₂ :C layers. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1015-1021.	0.8	11
130	Revisiting the dissolution kinetics of limestone - experimental analysis and modeling. Journal of Chemical Technology and Biotechnology, 2016, 91, 1517-1531.	1.6	11
131	The impact of porous silicon nanoparticles on human cytochrome P450 metabolism in human liver microsomes in vitro. European Journal of Pharmaceutical Sciences, 2017, 104, 124-132.	1.9	11
132	Preparation and biological evaluation of ethionamide-mesoporous silicon nanoparticles against Mycobacterium tuberculosis. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 403-405.	1.0	11
133	Porous Silicon as a Platform for Radiation Theranostics Together with a Novel RIB-Based Radiolanthanoid. Contrast Media and Molecular Imaging, 2019, 2019, 1-9.	0.4	11
134	Synaptic and Fast Switching Memristance in Porous Silicon-Based Structures. Nanomaterials, 2019, 9, 825.	1.9	11
135	Influence of Cell Membrane Wrapping on the Cell~Porous Silicon Nanoparticle Interactions. Advanced Healthcare Materials, 2020, 9, e2000529.	3.9	11
136	Tandem~Mass~Tag Based Proteomic Analysis Facilitates Analyzing Critical Factors of Porous Silicon Nanoparticles in Determining Their Biological Responses under Diseased Condition. Advanced Science, 2020, 7, 2001129.	5.6	11
137	Citral-to-Menthol Transformations in a Continuous Reactor over Ni/Mesoporous Aluminosilicate Extrudates Containing a Sepiolite Clay Binder. Organic Process Research and Development, 2022, 26, 387-403.	1.3	11
138	Hybrid red blood cell membrane coated porous silicon nanoparticles functionalized with cancer antigen induce depletion of T cells. RSC Advances, 2020, 10, 35198-35205.	1.7	10
139	Ferromagnetism induced in ZnO nanorods by morphology changes under a nitrogen~carbon atmosphere. RSC Advances, 2013, 3, 12945.	1.7	9
140	Preparation and in vivo evaluation of red blood cell membrane coated porous silicon nanoparticles implanted with ¹⁵⁵ Tb. Nuclear Medicine and Biology, 2020, 84-85, 102-110.	0.3	9
141	Effectiveness of porous silicon nanoparticle treatment at inhibiting the migration of a heterogeneous glioma cell population. Journal of Nanobiotechnology, 2021, 19, 60.	4.2	9
142	Control of the nanosized defect network in superconducting thin films by target grain size. Scientific Reports, 2021, 11, 6010.	1.6	9
143	The correlation between the interference colour and growth procedure of anodic titanium dioxide nanotube arrays. Coloration Technology, 2014, 130, 1-7.	0.7	8
144	Hierarchical Nanostructuring of Porous Silicon with Electrochemical and Regenerative Electroless Etching. ACS Nano, 2019, 13, 13056-13064.	7.3	8

#	ARTICLE	IF	CITATIONS
145	One-step method for measuring the effect of humidity on powder resistivity. Journal of Electrostatics, 2013, 71, 159-164.	1.0	7
146	Influence of relative humidity on the electrostatic charging of lactose powder mixed with salbutamol sulphate. Journal of Electrostatics, 2017, 88, 201-206.	1.0	7
147	Controlled Shape and Nucleation Switching of Interfacially Polymerizable Nanoassemblies by Methyl Substitution. Chemistry of Materials, 2015, 27, 8170-8178.	3.2	6
148	Multistage signal-interactive nanoparticles improve tumor targeting through efficient nanoparticle-cell communications. Cell Reports, 2021, 35, 109131.	2.9	6
149	Insights into the Evaporation Kinetics of Indomethacin Solutions. Chemical Engineering and Technology, 2013, 36, 1300-1306.	0.9	5
150	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.	7.8	5
151	Sequential Antifouling Surface for Efficient Modulation of the Nanoparticle-Cell Interactions in Protein-Rich Environments. Advanced Therapeutics, 2018, 1, 1800013.	1.6	5
152	Quantitative Analysis of Porous Silicon Nanoparticles Functionalization by ¹ H NMR. ACS Biomaterials Science and Engineering, 2022, 8, 4132-4139.	2.6	5
153	Regenerative Electroless Etching of Silicon. Angewandte Chemie, 2017, 129, 639-642.	1.6	4
154	Nanohybrids: Multifunctional Nanohybrid Based on Porous Silicon Nanoparticles, Gold Nanoparticles, and Acetalated Dextran for Liver Regeneration and Acute Liver Failure Theranostics (Adv. Mater. 24/2018). Advanced Materials, 2018, 30, 1870168.	11.1	4
155	Influence of the specific surface area and silver crystallite size of mesoporous Ag/SrTiO ₃ on the selectivity enhancement of ethylene oxide production. Journal of Chemical Technology and Biotechnology, 2019, 94, 3839-3849.	1.6	4
156	Red- and green-emitting nano-clay materials doped with Eu ³⁺ and/or Tb ³⁺ . Luminescence, 2019, 34, 23-38.	1.5	4
157	Colonic Delivery of ω -Linolenic Acid by an Advanced Nutrient Delivery System Prolongs Glucagon-Like Peptide-1 Secretion and Inhibits Food Intake in Mice. Molecular Nutrition and Food Research, 2022, 66, e2100978.	1.5	4
158	Thermal stabilization of porous silicon for biomedical applications. , 2014, , 21-34.		3
159	Synthesis and Features of Luminescent Bromo- and Iodohectorite Nanoclay Materials. Applied Sciences (Switzerland), 2017, 7, 1243.	1.3	3
160	Hierarchical Porous Silicon and Porous Silicon Nanowires Produced with Regenerative Electroless Etching (ReEtching) and Metal Assisted Catalytic Etching (MACE). ECS Transactions, 2018, 86, 65-70.	0.3	3
161	Integrated on-chip energy storage using porous-silicon electrochemical capacitors. , 2014, , .		2
162	Drug Delivery: On-Chip Self-Assembly of a Smart Hybrid Nanocomposite for Antitumoral Applications (Adv. Funct. Mater. 10/2015). Advanced Functional Materials, 2015, 25, 1612-1612.	7.8	2

#	ARTICLE	IF	CITATIONS
163	Automatic methodologies to perform loading and release assays of anticancer drugs from mesoporous silicon nanoparticles. <i>Talanta</i> , 2019, 196, 277-283.	2.9	2
164	Kraft lignin-derived carbon sheets produced by molten salt-assisted thermal treatment – Graphitization behavior of the sheet structures. <i>Diamond and Related Materials</i> , 2022, 127, 109146.	1.8	2
165	Simulating the change in shape factor for solid particles used in flue gas desulfurization and reacting in stirred batch systems. A mathematical model.. <i>Computer Aided Chemical Engineering</i> , 2009, , 821-826.	0.3	1
166	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, .	11.1	1
167	Effect of dehydration pathway on the surface properties of molecular crystals. <i>CrystEngComm</i> , 2021, 23, 5788-5794.	1.3	1
168	Porous Silicon Nanoparticles. , 2013, , 235-275.		1
169	Functionalization of Thermally Carbonized Porous Silicon Optical Multilayer Structures for Sensing Applications. <i>ECS Transactions</i> , 2013, 58, 63-70.	0.3	0
170	Drug Delivery: Gold Nanorods, DNA Origami, and Porous Silicon Nanoparticle-functionalized Biocompatible Double Emulsion for Versatile Targeted Therapeutics and Antibody Combination Therapy (<i>Adv. Mater.</i> 46/2016). <i>Advanced Materials</i> , 2016, 28, 10194-10194.	11.1	0
171	Nanovaccines: Multistaged Nanovaccines Based on Porous Silicon@Acetalated Dextran@Cancer Cell Membrane for Cancer Immunotherapy (<i>Adv. Mater.</i> 7/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	0
172	Regenerative Electroless Etching of Silicon. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
173	Hierarchical Porous Silicon and Porous Silicon Nanowires Produced with Regenerative Electroless Etching (ReEtching) and Metal Assisted Catalytic Etching (MACE). <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
174	Thermal stabilization of porous silicon. , 2021, , 3-26.		0
175	Multifunctional Biomimetic Nanovaccines Based on Photothermal and Weak-Immunostimulatory Nanoparticulate Cores for the Immunotherapy of Solid Tumors (<i>Adv. Mater.</i> 9/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	0
176	Folic acid-mesoporous silicon nanoparticles enhance the anticancer activity of the p73-activating small molecule LEM2. <i>International Journal of Pharmaceutics</i> , 2022, 624, 121959.	2.6	0