Snjezana Snow Stolnik

List of Publications by Year
in descending order

120 papers	8,694 citations	46984 47 h-index	42364 92 g-index
122 all docs	122 docs citations	122 times ranked	10978 citing authors

#	Article	IF	Citations
1	Investigating histidinylated highly branched poly(lysine) for siRNA delivery. Journal of Materials Chemistry B, 2022, 10, 236-246.	2.9	4
2	Application of In Vivo MRI Imaging to Track a Coated Capsule and Its Disintegration in the Gastrointestinal Tract in Human Volunteers. Pharmaceutics, 2022, 14, 270.	2.0	5
3	Enhanced permeation by amphiphilic surfactant is spatially heterogenous at membrane and cell level. Journal of Controlled Release, 2022, 345, 734-743.	4.8	5
4	A mechanoresponsive nano-sized carrier achieves intracellular release of drug on external ultrasound stimulus. RSC Advances, 2022, 12, 16561-16569.	1.7	3
5	<scp>3D</scp> hydrogels reveal medulloblastoma subgroup differences and identify extracellular matrix subtypes that predict patient outcome. Journal of Pathology, 2021, 253, 326-338.	2.1	6
6	Structural and binding characterization of the LacdiNAc-specific adhesin (LabA; HopD) exodomain from Helicobacter pylori. Current Research in Structural Biology, 2021, 3, 19-29.	1.1	4
7	Assessing Lymphatic Uptake of Lipids Using Magnetic Resonance Imaging: A Feasibility Study in Healthy Human Volunteers with Potential Application for Tracking Lymph Node Delivery of Drugs and Formulation Excipients. Pharmaceutics, 2021, 13, 1343.	2.0	0
8	Study on Significance of Receptor Targeting in Killing of Intracellular Bacteria with Membraneâ€Impermeable Antibiotics. Advanced Therapeutics, 2021, 4, 2100168.	1.6	8
9	Multi-component bioresponsive nanoparticles for synchronous delivery of docetaxel and TUBB3 siRNA to lung cancer cells. Nanoscale, 2021, 13, 11414-11426.	2.8	32
10	A simple and efficient method for polymer coating of iron oxide nanoparticles. Journal of Drug Delivery Science and Technology, 2020, 55, 101460.	1.4	14
11	Temperature-Responsive Methylcelluloseâ€“Hyaluronic Hydrogel as a 3D Cell Culture Matrix. Biomacromolecules, 2020, 21, 4737-4746.	2.6	19
12	Development of an In Vitro System to Study the Interactions of Aerosolized Drugs with Pulmonary Mucus. Pharmaceutics, 2020, 12, 145.	2.0	8
13	Use of Engineered Nanoparticles (ENPs) for the Study of High-Affinity IgE FcÎµRI Receptor Engagement and Rat Basophilic Leukemia (RBL) Cell Degranulation. Methods in Molecular Biology, 2020, 2163, 171-180.	0.4	0
14	Mechanistic insight into heterogeneity of trans-plasma membrane electron transport in cancer cell types. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 628-639.	0.5	11
15	Introduction of a C-terminal hexa-lysine tag increases thermal stability of the LacDiNac binding adhesin (LabA) exodomain from Helicobacter pylori. Protein Expression and Purification, 2019, 163, 105446.	0.6	7
16	Targeted PEG-poly(glutamic acid) complexes for inhalation protein delivery to the lung. Journal of Controlled Release, 2019, 316, 250-262.	4.8	23
17	In vitro investigation on the impact of airway mucus on drug dissolution and absorption at the air-epithelium interface in the lungs. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 141, 210-220.	2.0	36
18	Penetration and Uptake of Nanoparticles in 3D Tumor Spheroids. Bioconjugate Chemistry, 2019, 30, 1371-1384.	1.8	141

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19	Investigating the intracellular effects of hyperbranched polycationâ€“DNA complexes on lung cancer cells using LC-MS-based metabolite profiling. Molecular Omics, 2019, 15, 77-87.	1.4	9
20	Poly(triazolyl methacrylate) glycopolymers as potential targeted unimolecular nanocarriers. Nanoscale, 2019, 11, 21155-21166.	2.8	11
21	Mammalianâ€Cellâ€Driven Polymerisation of Pyrrole. ChemBioChem, 2019, 20, 1008-1013.	1.3	18
22	Exposure to a Nonionic Surfactant Induces a Response Akin to Heat-Shock Apoptosis in Intestinal Epithelial Cells: Implications for Excipients Safety. Molecular Pharmaceutics, 2019, 16, 618-631.	2.3	15
23	Pathways of cellular internalisation of liposomes delivered siRNA and effects on siRNA engagement with target mRNA and silencing in cancer cells. Scientific Reports, 2018, 8, 3748.	1.6	44
24	Water-soluble substituted chitosan derivatives as technology platform for inhalation delivery of siRNA. Drug Delivery, 2018, 25, 644-653.	2.5	29
25	Synthetic glycopolymers as modulators of protein aggregation: influences of chemical composition, topology and concentration. Journal of Materials Chemistry B, 2018, 6, 1044-1054.	2.9	13
26	Electrochemical System for the Study of Trans-Plasma Membrane Electron Transport in Whole Eukaryotic Cells. Analytical Chemistry, 2018, 90, 2780-2786.	3.2	9
27	Dry-powder formulations of non-covalent protein complexes with linear or miktoarm copolymers for pulmonary delivery. International Journal of Pharmaceutics, 2018, 540, 78-88.	2.6	16
28	Enhanced uptake in 2D- and 3D- lung cancer cell models of redox responsive PEGylated nanoparticles with sensitivity to reducing extra- and intracellular environments. Journal of Controlled Release, 2018, 277, 126-141.	4.8	54
29	Structural variations in hyperbranched polymers prepared via thermal polycondensation of lysine and histidine and their effects on DNA delivery. Journal of Interdisciplinary Nanomedicine, 2018, 3, 38-54.	3.6	11
30	Rapid formulation of redox-responsive oligo-Î²-aminoester polyplexes with siRNAviajet printing. Journal of Materials Chemistry B, 2018, 6, 6550-6558.	2.9	6
31	New Perspectives on Iron Uptake in Eukaryotes. Frontiers in Molecular Biosciences, 2018, 5, 97.	1.6	20
32	Recent advances in oral delivery of biologics: nanomedicine and physical modes of delivery. Expert Opinion on Drug Delivery, 2018, 15, 759-770.	2.4	54
33	Synthesis, Structureâ€“Activity Relationships and In Vitro Toxicity Profile of Lactose-Based Fatty Acid Monoesters as Possible Drug Permeability Enhancers. Pharmaceutics, 2018, 10, 81.	2.0	27
34	Effect of polymer topology on non-covalent polymerâ€“protein complexation: miktoarm versus linear mPEG-poly(glutamic acid) copolymers. Polymer Chemistry, 2017, 8, 2210-2220.	1.9	19
35	Insight into the relationship between the cell culture model, cell trafficking and siRNA silencing efficiency. Biochemical and Biophysical Research Communications, 2016, 477, 260-265.	1.0	12
36	Cationic Liposome-Mediated Delivery of siRNA in Lung Cancer. , 2016, , .		0

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37	Nose-to-Brain Delivery: Investigation of the Transport of Nanoparticles with Different Surface Characteristics and Sizes in Excised Porcine Olfactory Epithelium. Molecular Pharmaceutics, 2015, 12, 2755-2766.	2.3	124
38	Improved expression and purification of the Helicobacter pylori adhesin BabA through the incorporation of a hexa-lysine tag. Protein Expression and Purification, 2015, 106, 25-30.	0.6	20
39	Mechanism of Mucosal Permeability Enhancement of CriticalSorbÂ® (SolutolÂ® HS15) Investigated In Vitro in Cell Cultures. Pharmaceutical Research, 2015, 32, 516-527.	1.7	51
40	Live Imaging of Cellular Internalization of Single Colloidal Particle by Combined Label-Free and Fluorescence Total Internal Reflection Microscopy. Molecular Pharmaceutics, 2015, 12, 3862-3870.	2.3	13
41	Structural basis of Lewis ^b antigen binding by the Helicobacter pylori adhesin BabA. Science Advances, 2015, 1, e1500315.	4.7	58
42	Basement membrane influences intestinal epithelial cell growth and presents a barrier to the movement of macromolecules. Experimental Cell Research, 2014, 323, 218-231.	1.2	68
43	Mechanisms of Nanoparticle Internalization and Transport Across an Intestinal Epithelial Cell Model: Effect of Size and Surface Charge. Molecular Pharmaceutics, 2014, 11, 4363-4373.	2.3	308
44	PEGylated nanomedicines: recent progress and remaining concerns. Expert Opinion on Drug Delivery, 2014, 11, 139-154.	2.4	102
45	Suitability of polymer materials for production of pulmonary microparticles using a PGSS supercritical fluid technique: Preparation of microparticles using PEG, fatty acids and physical or chemicals blends of PEG and fatty acids. International Journal of Pharmaceutics, 2013, 441, 580-588.	2.6	20
46	Epithelial Toxicity of Alkylglycoside Surfactants. Journal of Pharmaceutical Sciences, 2013, 102, 114-125.	1.6	16
47	Uptake and transport of B 12 -conjugated nanoparticles in airway epithelium. Journal of Controlled Release, 2013, 172, 374-381.	4.8	36
48	Nanoparticle Transport in Epithelial Cells: Pathway Switching Through Bioconjugation. Small, 2013, 9, 3282-3294.	5.2	50
49	Suitability of polymer materials for production of pulmonary microparticles using a PGSS supercritical fluid technique: Thermodynamic behaviour of fatty acids, PEGs and PEG-fatty acids. International Journal of Pharmaceutics, 2012, 438, 225-231.	2.6	9
50	Ligand density and clustering effects on endocytosis of folate modified nanoparticles. RSC Advances, 2012, 2, 3025.	1.7	54
51	Evaluation of calcium depletion as a strategy for enhancement of mucosal absorption of macromolecules. Biochemical and Biophysical Research Communications, 2012, 418, 128-133.	1.0	6
52	Long circulating microparticulate drug carriers. Advanced Drug Delivery Reviews, 2012, 64, 290-301.	6.6	75
53	Aggregation promotes cell viability, proliferation, and differentiation in anin vitromodel of injection cell therapy. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, e61-e73.	1.3	26
54	Absorption-promoting effects of chitosan in airway and intestinal cell lines: A comparative study. International Journal of Pharmaceutics, 2012, 430, 151-160.	2.6	63

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55	PEGylated chitosan derivatives: Synthesis, characterizations and pharmaceutical applications. Progress in Polymer Science, 2012, 37, 659-685.	11.8	204
56	Fc-mediated transport of nanoparticles across airway epithelial cell layers. Journal of Controlled Release, 2012, 158, 479-486.	4.8	41
57	Barrier characteristics of epithelial cultures modelling the airway and intestinal mucosa: A comparison. Biochemical and Biophysical Research Communications, 2011, 415, 579-585.	1.0	33
58	The involvement of microtubules and actin filaments in the intracellular transport of non-viral gene delivery system. Journal of Drug Targeting, 2011, 19, 56-66.	2.1	9
59	Modular Construction of Multifunctional Bioresponsive Cell-Targeted Nanoparticles for Gene Delivery. Bioconjugate Chemistry, 2011, 22, 156-168.	1.8	49
60	Surface Characterisation of Bioadhesive PLGA/Chitosan Microparticles Produced by Supercritical Fluid Technology. Pharmaceutical Research, 2011, 28, 1668-1682.	1.7	34
61	Interleukin-4-Inducing Principle from Schistosoma mansoni Eggs Contains a Functional C-Terminal Nuclear Localization Signal Necessary for Nuclear Translocation in Mammalian Cells but Not for Its Uptake. Infection and Immunity, 2011, 79, 1779-1788.	1.0	30
62	Stem cells: The therapeutic role in the treatment of diabetes mellitus. Biotechnology and Genetic Engineering Reviews, 2010, 27, 285-304.	2.4	0
63	Tight junction modulation by chitosan nanoparticles: Comparison with chitosan solution. International Journal of Pharmaceutics, 2010, 400, 183-193.	2.6	197
64	Effect of PEGylation on the Toxicity and Permeability Enhancement of Chitosan. Biomacromolecules, 2010, 11, 2854-2865.	2.6	92
65	Formulations for delivery of therapeutic proteins. Biotechnology Letters, 2009, 31, 1-11.	1.1	49
66	Nanoparticles for direct nose-to-brain delivery of drugs. International Journal of Pharmaceutics, 2009, 379, 146-157.	2.6	593
67	Alginate encapsulation technology supports embryonic stem cells differentiation into insulin-producing cells. Journal of Biotechnology, 2009, 144, 304-312.	1.9	125
68	Effect of physicochemical properties on intranasal nanoparticle transit into murine olfactory epithelium. Journal of Drug Targeting, 2009, 17, 543-552.	2.1	105
69	Folate conjugated phosphorylcholine-based polycations for specific targeting in nucleic acids delivery. Journal of Drug Targeting, 2009, 17, 512-523.	2.1	19
70	Total internal reflection microscopy for live imaging of cellular uptake of subâ€micron nonâ€fluorescent particles. Journal of Microscopy, 2008, 231, 168-179.	0.8	32
71	Surface Modification of Microspheres with Steric Stabilizing and Cationic Polymers for Gene Delivery. Langmuir, 2008, 24, 7138-7146.	1.6	30
72	Macroporous surface modified microparticles. Soft Matter, 2008, 4, 1597.	1.2	9

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73	Ultra-Resolution Imaging of a Self-Assembling Biomolecular System Using Robust Carbon Nanotube AFM Probes. Langmuir, 2007, 23, 3906-3911.	1.6	16
74	Synthesis of a novel PEG-block-poly(aspartic acid-stat-phenylalanine) copolymer shows potential for formation of a micellar drug carrier. International Journal of Pharmaceutics, 2005, 297, 242-253.	2.6	45
75	The assessment of hookworm calreticulin as a potential vaccine for necatoriasis. Parasite Immunology, 2005, 27, 139-146.	0.7	28
76	Differences in the adsorption behaviour of poly(ethylene oxide) copolymers onto model polystyrene nanoparticles assessed by isothermal titration microcalorimetry correspond to the biological differences. Journal of Drug Targeting, 2005, 13, 449-458.	2.1	4
77	Investigation of the interaction between peanut agglutinin and synthetic glycopolymeric multivalent ligands. Organic and Biomolecular Chemistry, 2005, 3, 1476.	1.5	86
78	Structural Study of DNA Condensation Induced by Novel Phosphorylcholine-Based Copolymers for Gene Delivery and Relevance to DNA Protection. Langmuir, 2005, 21, 3591-3598.	1.6	86
79	The effect of poly(ethylene glycol) molecular architecture on cellular interaction and uptake of DNA complexes. Journal of Controlled Release, 2004, 97, 143-156.	4.8	118
80	Phosphorylcholineâ€“polycation diblock copolymers as synthetic vectors for gene delivery. Journal of Controlled Release, 2004, 100, 293-312.	4.8	103
81	Characterisation of poly(lactic acid):poly(ethyleneoxide) (PLA:PEG) nanoparticles using the self-consistent theory modelling approach. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 212, 57-64.	2.3	8
82	Thermodynamic Analysis of Polycationâ^'DNA Interaction Applying Titration Microcalorimetry. Langmuir, 2003, 19, 9387-9394.	1.6	48
83	Coreâ^'Shell Structure of PLAâ^'PEG Nanoparticles Used for Drug Delivery. Langmuir, 2003, 19, 8428-8435.	1.6	135
84	Effect of Polymer Ionization on the Interaction with DNA in Nonviral Gene Delivery Systems. Biomacromolecules, 2003, 4, 683-690.	2.6	123
85	The Macrostopper Route:Â A New Synthesis Concept Leading Exclusively to Diblock Copolymers with Enhanced DNA Condensation Potential. Macromolecules, 2002, 35, 9854-9856.	2.2	21
86	Use of Viscoelastic Measurements for Investigating Interparticle Interactions in Dispersions of Micellar-like Poly(lactic acid)â^'Poly(ethylene glycol) Nanoparticles. Langmuir, 2002, 18, 7663-7668.	1.6	7
87	Star-Shaped Poly(ethylene glycol)-block-polyethylenimine Copolymers Enhance DNA Condensation of Low Molecular Weight Polyethylenimines. Biomacromolecules, 2002, 3, 926-936.	2.6	139
88	Polyethylenimine-graft-Poly(ethylene glycol) Copolymers:Â Influence of Copolymer Block Structure on DNA Complexation and Biological Activities as Gene Delivery System. Bioconjugate Chemistry, 2002, 13, 845-854.	1.8	516
89	Poly(lactic acid)â^'Poly(ethylene oxide) (PLAâ^'PEG) Nanoparticles:Â NMR Studies of the Central Solidlike PLA Core and the Liquid PEG Corona. Langmuir, 2002, 18, 3669-3675.	1.6	181
90	Development of multicomponent DNA delivery systems based upon poly(amidoamine)â€“PEG co-polymers. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2002, 1576, 269-286.	2.4	26

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91	Influence of polymer architecture on the structure of complexes formed by PEGâ€“tertiary amine methacrylate copolymers and phosphorothioate oligonucleotide. Journal of Controlled Release, 2002, 81, 185-199.	4.8	62
92	Physicochemical Evaluation of Nanoparticles Assembled from Poly(lactic acid)â^'Poly(ethylene glycol) (PLAâ^'PEG) Block Copolymers as Drug Delivery Vehicles. Langmuir, 2001, 17, 3168-3174.	1.6	268
93	The effect of surface coverage and conformation of poly(ethylene oxide) (PEO) chains of poloxamer 407 on the biological fate of model colloidal drug carriers. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1514, 261-279.	1.4	125
94	Polylactide-poly(ethylene Glycol) Micellar-like Particles as Potential Drug Carriers: Production, Colloidal Properties and Biological Performance. Journal of Drug Targeting, 2001, 9, 361-378.	2.1	76
95	Microscopic Investigations into PEGâ^'Cationic Polymer-Induced DNA Condensation. Langmuir, 2001, 17, 3185-3193.	1.6	65
96	Self-consistent field modelling of poly(lactic acid)â€“poly(ethylene glycol) particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 179, 79-91.	2.3	17
97	Copolymers of amine methacrylate with poly(ethylene glycol) as vectors for gene therapy. Journal of Controlled Release, 2001, 73, 359-380.	4.8	125
98	Drugâ€“polyionic block copolymer interactions for micelle formation: physicochemical characterisation. Journal of Controlled Release, 2001, 75, 249-258.	4.8	41
99	Defining the drug incorporation properties of PLAâ€“PEG nanoparticles. International Journal of Pharmaceutics, 2000, 199, 95-110.	2.6	197
100	Polymer chemical structure is a key determinant of physicochemical and colloidal properties of polymerâ€“DNA complexes for gene delivery. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2000, 1517, 1-18.	2.4	77
101	Hydrogen bonding and electrostatic interaction contributions to the interaction of a cationic drug with polyaspartic acid. Pharmaceutical Research, 2000, 17, 871-877.	1.7	45
102	A High Resolution Atomic Force Microscopy Study of Poly(lactic acid-co-ethylene glycol). Polymer Journal, 2000, 32, 444-446.	1.3	1
103	Observation of DNA-polymer condensate formation in real time at a molecular level. FEBS Letters, 2000, 480, 106-112.	1.3	80
104	Application of Novel Biomaterials in Colloidal Drug Delivery Systems. MRS Bulletin, 1999, 24, 49-56.	1.7	11
105	Colloidal stability and drug incorporation aspects of micellar-like PLAâ€“PEG nanoparticles. Colloids and Surfaces B: Biointerfaces, 1999, 16, 147-159.	2.5	190
106	Complex formation between the anionic polymer (PAA) and a cationic drug (procaine HCl): characterization by microcalorimetric studies. Pharmaceutical Research, 1999, 16, 1125-1131.	1.7	23
107	PLGA nanoparticles prepared by nanoprecipitation: drug loading and release studies of a water soluble drug. Journal of Controlled Release, 1999, 57, 171-185.	4.8	868
108	Modification of the copolymers poloxamer 407 and poloxamine 908 can affect the physical and biological properties of surface modified nanospheres. Pharmaceutical Research, 1998, 15, 318-324.	1.7	23

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109	In Vitro Displacement by Rat Serum of Adsorbed Radiolabeled Poloxamer and Poloxamine Copolymers from Model and Biodegradable Nanospheres. Journal of Pharmaceutical Sciences, 1998, 87, 1242-1248.	1.6	53
110	The immune response to a model antigen associated with PLG microparticles prepared using different surfactants. Vaccine, 1997, 15, 1888-1897.	1.7	23
111	Adsorption behaviour and conformation of selected poly(ethylene oxide) copolymers on the surface of a model colloidal drug carrier. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 122, 151-159.	2.3	28
112	Long circulating biodegradable poly(phosphazene) nanoparticles surface modified with poly(phosphazene)-poly(ethylene oxide) copolymer. Biomaterials, 1997, 18, 1147-1152.	5.7	58
113	Poly(organo phosphazene) nanoparticles surface modified with poly(ethylene oxide). , 1996, 52, 89-95.		18
114	Polymers in drug delivery. Current Opinion in Colloid and Interface Science, 1996, 1, 660-666.	3.4	49
115	Nanospheres prepared from poly(?-malic acid) benzyl ester copolymers: evidence for their in vitro degradation. Journal of Materials Science: Materials in Medicine, 1996, 7, 161-166.	1.7	5
116	The colloidal properties of surfactant-free biodegradable nanospheres from poly(Î²-malic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (a and Engineering Aspects, 1995, 97, 235-245.	2.3	75
117	Long circulating microparticulate drug carriers. Advanced Drug Delivery Reviews, 1995, 16, 195-214.	6.6	624
118	The preparation of sub-200 nm biodegradable colloidal particles from poly(Î²-malic acid-co-benzyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Journal of Controlled Release, 1994, 30, 57-67.	4.8	46
119	Surface modification of poly(lactide-co-glycolide) nanospheres by biodegradable poly(lactide)-poly(ethylene glycol) copolymers. Pharmaceutical Research, 1994, 11, 1800-1808.	1.7	265
120	Microencapsulated monosialoganglioside GM1: Physical properties andin vivoeffects. Journal of Microencapsulation, 1989, 6, 35-42.	1.2	19