Soo-Chang Song

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2080864/publications.pdf

Version: 2024-02-01

95 papers	4,162 citations	87843 38 h-index	123376 61 g-index
98 all docs	98 docs citations	98 times ranked	4449 citing authors

#	Article	IF	Citations
1	An injectable hydrogel enhances tissue repair after spinal cord injury by promoting extracellular matrix remodeling. Nature Communications, 2017, 8, 533.	5.8	189
2	A Thermosensitive Poly(organophosphazene) Gel. Macromolecules, 2002, 35, 3876-3879.	2.2	163
3	Thermosensitive/superparamagnetic iron oxide nanoparticle-loaded nanocapsule hydrogels for multiple cancer hyperthermia. Biomaterials, 2016, 106, 13-23.	5.7	137
4	Controlled release of doxorubicin from thermosensitive poly(organophosphazene) hydrogels. International Journal of Pharmaceutics, 2006, 319, 29-36.	2.6	128
5	Thermosensitive poly(organophosphazene)â€“paclitaxel conjugate gels for antitumor applications. Biomaterials, 2009, 30, 2349-2360.	5.7	125
6	A New Class of Biodegradable Thermosensitive Polymers. I. Synthesis and Characterization of Poly(organophosphazenes) with Methoxy-Poly(ethylene glycol) and Amino Acid Esters as Side Groups. Macromolecules, 1999, 32, 2188-2193.	2.2	120
7	A New Class of Biodegradable Thermosensitive Polymers. 2. Hydrolytic Properties and Salt Effect on the Lower Critical Solution Temperature of Poly(organophosphazenes) with Methoxypoly(ethylene) Tj ETQq1 1 0.784314 rg BT /Overlo	2.2	118
8	Doxorubicinâ€“polyphosphazene conjugate hydrogels for locally controlled delivery of cancer therapeutics. Biomaterials, 2009, 30, 4752-4762.	5.7	116
9	Synthesis and Characterization of Biodegradable Thermosensitive Poly(organophosphazene) Gels. Macromolecules, 2004, 37, 4533-4537.	2.2	115
10	Pharmacokinetics of doxorubicin after intratumoral injection using a thermosensitive hydrogel in tumor-bearing mice. Journal of Controlled Release, 2010, 142, 101-107.	4.8	115
11	Tuning physical properties and BMP-2 release rates of injectable hydrogel systems for an optimal bone regeneration effect. Biomaterials, 2017, 122, 91-104.	5.7	109
12	Multiple hyperthermia-mediated release of TRAIL/SPION nanocomplex from thermosensitive polymeric hydrogels for combination cancer therapy. Biomaterials, 2017, 132, 16-27.	5.7	104
13	Thermosensitive/magnetic poly(organophosphazene) hydrogel as a long-term magnetic resonance contrast platform. Biomaterials, 2012, 33, 218-224.	5.7	93
14	Sustained BMP-2 delivery and injectable bone regeneration using thermosensitive polymeric nanoparticle hydrogel bearing dual interactions with BMP-2. Journal of Controlled Release, 2015, 209, 67-76.	4.8	92
15	Thermosensitive poly(organophosphazene) hydrogels for a controlled drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2006, 63, 340-346.	2.0	91
16	The use of injectable, thermosensitive poly(organophosphazene)â€“RGD conjugates for the enhancement of mesenchymal stem cell osteogenic differentiation. Biomaterials, 2009, 30, 6295-6308.	5.7	87
17	Injectable Polyplex Hydrogel for Localized and Long-Term Delivery of siRNA. ACS Nano, 2012, 6, 5757-5766.	7.3	87
18	Sustained delivery of human growth hormone using a polyelectrolyte complex-loaded thermosensitive polyphosphazene hydrogel. Journal of Controlled Release, 2010, 147, 359-367.	4.8	79

#	Article	IF	Citations
19	Site-specific insulin conjugates with enhanced stability and extended action profile. Advanced Drug Delivery Reviews, 1999, 35, 289-306.	6.6	75
20	Dual ionic interaction system based on polyelectrolyte complex and ionic, injectable, and thermosensitive hydrogel for sustained release of human growth hormone. Biomaterials, 2013, 34, 1327-1336.	5.7	74
21	Long-term theranostic hydrogel system for solid tumors. Biomaterials, 2012, 33, 2251-2259.	5.7	72
22	Chemically crosslinkable thermosensitive polyphosphazene gels as injectable materials for biomedical applications. Biomaterials, 2009, 30, 6178-6192.	5.7	70
23	Thermosensitive Cyclotriphosphazenes. Journal of the American Chemical Society, 2000, 122, 8315-8316.	6.6	66
24	Glucose-Induced Release of Glycosylpoly(ethylene glycol) Insulin Bound to a Soluble Conjugate of Concanavalin A. Bioconjugate Chemistry, 1997, 8, 664-672.	1.8	62
25	Injectable delivery system of 2-methoxyestradiol for breast cancer therapy using biodegradable thermosensitive poly(organophosphazene) hydrogel. Journal of Drug Targeting, 2011, 19, 270-280.	2.1	55
26	MRI-monitored long-term therapeutic hydrogel system for brain tumors without surgical resection. Biomaterials, 2012, 33, 4836-4842.	5.7	53
27	Injectable, dual cross-linkable polyphosphazene blend hydrogels. Biomaterials, 2010, 31, 8107-8120.	5.7	52
28	Injectable and Biodegradable Poly(Organophosphazene) Gel Containing Silibinin: Its Physicochemical Properties and Anticancer Activity. Journal of Pharmaceutical Sciences, 2012, 101, 2382-2391.	1.6	49
29	Dual Cross-Linking Systems of Functionally Photo-Cross-Linkable and Thermoresponsive Polyphosphazene Hydrogels for Biomedical Applications. Biomacromolecules, 2010, 11, 1741-1753.	2.6	48
30	Cationic and thermosensitive protamine conjugated gels for enhancing sustained human growth hormone delivery. Biomaterials, 2010, 31, 1349-1359.	5.7	47
31	Carbohydrate-specifically polyethylene glycol-modified ricin A-chain with improved therapeutic potential. International Journal of Biochemistry and Cell Biology, 2005, 37, 1525-1533.	1.2	46
32	Fineâ€Tunable and Injectable 3D Hydrogel for Onâ€Demand Stem Cell Niche. Advanced Science, 2019, 6, 1900597.	5.6	46
33	Highly efficient gene transfer with degradable poly(ester amine) based on poly(ethylene glycol) diacrylate and polyethylenimine <i>in vitro</i> and <i>in vivo</i>. Journal of Gene Medicine, 2008, 10, 198-207.	1.4	44
34	Morphology of spheroidal hepatocytes within injectable, biodegradable, and thermosensitive poly(organophosphazene) hydrogel as cell delivery vehicle. Journal of Bioscience and Bioengineering, 2006, 101, 238-242.	1.1	43
35	Synthesis and antitumor activity of novel thermosensitive platinum(II)â€"cyclotriphosphazene conjugates. Journal of Controlled Release, 2003, 90, 303-311.	4.8	42
36	Effect of chitosan on the release of protein from thermosensitive poly(organophosphazene) hydrogels. International Journal of Pharmaceutics, 2008, 349, 188-195.	2.6	41

#	Article	IF	Citations
37	Injectable polymeric nanoparticle hydrogel system for long-term anti-inflammatory effect to treat osteoarthritis. Bioactive Materials, 2022, 7, 14-25.	8.6	41
38	Injectable poly(organophosphazene)â€"camptothecin conjugate hydrogels: Synthesis, characterization, and antitumor activities. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 81, 582-590.	2.0	40
39	A simple HPLC method for doxorubicin in plasma and tissues of nude mice. Archives of Pharmacal Research, 2009, 32, 605-611.	2.7	39
40	Targetable micelleplex hydrogel for long-term, effective, and systemic siRNA delivery. Biomaterials, 2014, 35, 7970-7977.	5.7	37
41	Temperature responsive chemical crosslinkable UV pretreated hydrogel for application to injectable tissue regeneration system via differentiations of encapsulated hMSCs. Biomaterials, 2017, 112, 248-256.	5.7	37
42	An injectable cell penetrable nano-polyplex hydrogel for localized siRNA delivery. Biomaterials, 2013, 34, 4493-4500.	5.7	36
43	Galactosylated chitosan-g-PEI/DNA complexes-loaded poly(organophosphazene) hydrogel as a hepatocyte targeting gene delivery system. Archives of Pharmacal Research, 2010, 33, 551-556.	2.7	34
44	Ion and pH Effect on the Lower Critical Solution Temperature Phase Behavior in Neutral and Acidic Poly(organophosphazene) Counterparts. Langmuir, 2009, 25, 2407-2418.	1.6	31
45	Novel Thermosensitive 5-Fluorouracilâˆ'Cyclotriphosphazene Conjugates:â€‰ Synthesis, Thermosensitivity, Degradability, and in Vitro Antitumor Activity. Bioconjugate Chemistry, 2005, 16, 1529-1535.	1.8	30
46	Enhancement of sustained and controlled protein release using polyelectrolyte complex-loaded injectable and thermosensitive hydrogel. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 76, 179-188.	2.0	30
47	The biological efficiency and bioavailability of human growth hormone delivered using injectable, ionic, thermosensitive poly(organophosphazene)-polyethylenimine conjugate hydrogels. Biomaterials, 2011, 32, 8271-8280.	5.7	29
48	Sustained Release of Exendin 4 Using Injectable and Ionic-Nano-Complex Forming Polymer Hydrogel System for Long-Term Treatment of Type 2 Diabetes Mellitus. ACS Applied Materials & Interfaces, 2019, 11, 15201-15211.	4.0	29
49	Injectable and biodegradable poly(organophosphazene) hydrogel as a delivery system of docetaxel for cancer treatment. Journal of Drug Targeting, 2013, 21, 564-573.	2.1	28
50	Chromatographic separation and mass spectrometric identification of positional isomers of polyethylene glycol-modified growth hormone-releasing factor (1-29). Journal of Chromatography A, 2004, 1061, 45-49.	1.8	27
51	In vitro and in vivo degradation behaviors of thermosensitive poly(organophosphazene) hydrogels. Polymer Degradation and Stability, 2010, 95, 935-944.	2.7	27
52	Injectable and thermosensitive poly(organophosphazene) hydrogels for a 5â€fluorouracil delivery. Journal of Applied Polymer Science, 2009, 113, 3831-3839.	1.3	25
53	Injectable and Quadruple-Functional Hydrogel as an Alternative to Intravenous Delivery for Enhanced Tumor Targeting. ACS Applied Materials & Interfaces, 2019, 11, 34634-34644.	4.0	25
54	Structural and Thermosensitive Properties of Cyclotriphosphazenes with Poly(ethylene glycol) and Amino Acid Esters as Side Groups. Macromolecules, 2001, 34, 7565-7569.	2.2	23

#	Article	IF	Citations
55	The antitumor effect of a thermosensitive polymeric hydrogel containing paclitaxel in a peritoneal carcinomatosis model. Investigational New Drugs, 2012, 30, 1-7.	1.2	23
56	Controlling the Thermosensitive Gelation Properties of Poly(organophosphazenes) by Blending. Macromolecular Rapid Communications, 2005, 26, 1615-1618.	2.0	22
57	Injectable Ternary Nanocomplex Hydrogel for Long-Term Chemical Drug/Gene Dual Delivery. ACS Macro Letters, 2016, 5, 297-300.	2.3	22
58	3D hydrogel stem cell niche controlled by host-guest interaction affects stem cell fate and survival rate. Biomaterials, 2019, 218, 119338.	5.7	22
59	A thermo-sensitive poly(organophosphazene) hydrogel used as an extracellular matrix for artificial pancreas. Journal of Biomaterials Science, Polymer Edition, 2005, 16, 1421-1431.	1.9	21
60	Synthesis and Antitumor Activity of Polyphosphazene/Methoxy-Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (glycol)/(Dia	1.3	20
61	A new synthetic hypoglycaemic polysaccharide. Biochemical and Biophysical Research Communications, 1992, 188, 16-19.	1.0	19
62	Hydrolysis-improved thermosensitive polyorganophosphazenes with Î±-amino-Ï‰-methoxy-poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 1	1.6	19
63	Effect of Inorganic and Organic Salts on the Thermogelling Behavior of Poly(organophosphazenes). Macromolecular Chemistry and Physics, 2006, 207, 412-418.	1.1	19
64	Synthesis and hydrolytic properties of polyphosphazene/(diamine)platinum/saccharide conjugates. Journal of Controlled Release, 1998, 55, 161-170.	4.8	18
65	Injectable poly(organophosphazene) hydrogel system for effective paclitaxel and doxorubicin combination therapy. Journal of Drug Targeting, 2014, 22, 761-767.	2.1	18
66	Thermosensitive and hydrolysis-sensitive poly(organophosphazenes). Polymer International, 2002, 51, 658-660.	1.6	17
67	Suppression of in vivo tumor growth by using a biodegradable thermosensitive hydrogel polymer containing chemotherapeutic agent. Investigational New Drugs, 2010, 28, 284-290.	1.2	17
68	New approach for vertical bone regeneration using <i>in situ</i> gelling and sustained BMPâ€2 releasing poly(phosphazene) hydrogel system on periâ€implant site with critical defect in a canine model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 751-759.	1.6	17
69	Structural Properties of Silver(I) and Mercury(II) Complexes ofd-Lactobionate:Â Self-Assembled Coordination Polymers. Inorganic Chemistry, 1998, 37, 5764-5768.	1.9	16
70	Synthesis and characterization of biodegradable thermosensitive neutral and acidic poly(organophosphazene) gels bearing carboxylic acid group. Journal of Polymer Research, 2011, 18, 701-713.	1.2	16
71	Dual-functional hydrogel system for spinal cord regeneration with sustained release of arylsulfatase B alleviates fibrotic microenvironment and promotes axonal regeneration. Biomaterials, 2022, 284, 121526.	5.7	16
72	Rapid Photocrosslinkable Thermoresponsive Injectable Polyphosphazene Hydrogels. Macromolecular Rapid Communications, 2010, 31, 2133-2139.	2.0	15

#	Article	IF	Citations
73	Design of Polyphosphazene Hydrogels with Improved Structural Properties by Use of Starâ€Shaped Multithiol Crosslinkers. Macromolecular Bioscience, 2011, 11, 689-699.	2.1	15
74	The distribution and retention of paclitaxel and doxorubicin in multicellular layer cultures. Oncology Reports, 2012, 27, 995-1002.	1.2	15
75	Novel Reaction Route Including Enzymic Reaction For A Synthesis Of A Branched Polysaccharide. Journal of Carbohydrate Chemistry, 1992, 11, 1027-1037.	0.4	14
76	Intratumoral delivery of paclitaxel using a thermosensitive hydrogel in human tumor xenografts. Archives of Pharmacal Research, 2013, 36, 94-101.	2.7	14
77	Solvent effect on the lower critical solution temperature of biodegradable thermosensitive poly(organophosphazenes). Polymer Bulletin, 2000, 45, 389-396.	1.7	11
78	Thermosensitive amphiphilic polyphosphazenes and their interaction with ionic surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 330, 184-192.	2.3	11
79	Controlling the degradation rate of thermoresponsive photo-cross-linked poly(organophosphazene) hydrogels with compositions of depsipeptide and PEG chain lengths. Polymer Degradation and Stability, 2011, 96, 1261-1270.	2.7	11
80	Improvement of anti-cancer drug efficacy via thermosensitive hydrogel in peritoneal carcinomatosis in gastric cancer. Oncotarget, 2017, 8, 108848-108858.	0.8	10
81	Long-term anti-inflammatory effects of injectable celecoxib nanoparticle hydrogels for Achilles tendon regeneration. Acta Biomaterialia, 2022, 144, 183-194.	4.1	10
82	A novel polymeric conjugate carrying two different anticancer drugs. Polymer International, 1999, 48, 627-629.	1.6	9
83	A thermosensitive poly(organophosphazene) hydrogel for injectable tissue-engineering applications. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 1181-1193.	1.9	8
84	Polymer structureâ€dependent ion interaction studied by amphiphilic nonionic poly(organophosphazenes). Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 2022-2034.	2.4	8
85	Thermothickening modification of the poly(ethylene glycol) and amino acid ester grafted polyphosphazenes by monomethyl end-capped poly(ethylene glycol) addition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 333, 82-90.	2.3	8
86	Cyclotriphosphazene-Pt-DACH Conjugates with Dipeptide Spacers for Drug Delivery Systems. Journal of Bioactive and Compatible Polymers, 2010, 25, 274-291.	0.8	8
87	Development of an Injectable Dopamineâ€conjugated Poly(organophophazene) Hydrogel for Hemostasis. Bulletin of the Korean Chemical Society, 2016, 37, 372-377.	1.0	8
88	Repair of Cranial Bone Defects Using rhBMP2 and Submicron Particle of Biphasic Calcium Phosphate Ceramics with Through-Hole. BioMed Research International, 2015, 2015, 1-9.	0.9	7
89	Attempt to Control Sequence of Branched Polysaccharide with Enzymatic Hydrolysis and/or Copolymerization. Polymer Journal, 1993, 25, 373-378.	1.3	6
90	Efficacy of an Injectable Thermosensitive Gel on Postoperative Adhesion in Rat Model. [Chapchi] Journal Taehan Oekwa Hakhoe, 2010, 79, 239.	1.1	5

#	Article	IF	Citations
91	Synthesis and characterization of thermosensitive poly(organophosphazene) gels with an amino functional group. Journal of Applied Polymer Science, 2011, 120, 998-1005.	1.3	5
92	Bone Generation Following Repeated Administration of Recombinant Bone Morphogenetic Protein 2. Tissue Engineering and Regenerative Medicine, 2021, 18, 155-164.	1.6	5
93	Thermoresponsive and suspension forming cyclotriphosphazene conjugate for delivery vehicle of antitumor drug camptothecin. Journal of Drug Delivery Science and Technology, 2021, 64, 102049.	1.4	3
94	Determination of the Specific Interaction between Sulfonylurea Incorporated Polymer and Rat Islets. Journal of Biochemistry, 2002, 131, 359-364.	0.9	2
95	Gel Filtration Fractionation of Cellulase from Trichoderma viride and Its Application to the Synthesis of the Branched Polysaccharide. Polymer Journal, 1994, 26, 387-391.	1.3	1