

Chih-Chang Chu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

2,222
citations

29
h-index

45
g-index

64
ext. papers

2,422
ext. citations

5.6
avg, IF

5.17
L-index

#	Paper	IF	Citations
64	Development of Inherently Antibacterial, Biodegradable, and Biologically Active Chitosan/Pseudo-Protein Hybrid Hydrogels as Biofunctional Wound Dressings. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14688-14699	9.5	21
63	Development of ROS-responsive amino acid-based poly(ester amide) nanoparticle for anticancer drug delivery. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 , 109, 524-537	5.4	7
62	Targeted Chinese Medicine Delivery by A New Family of Biodegradable Pseudo-Protein Nanoparticles for Treating Triple-Negative Breast Cancer: and Study. <i>Frontiers in Oncology</i> , 2020 , 10, 600298	5.3	1
61	A light-facilitated drug delivery system from a pseudo-protein/hyaluronic acid nanocomplex with improved anti-tumor effects. <i>Nanoscale</i> , 2019 , 11, 9987-10003	7.7	11
60	Self-assembly of amino acid-based random copolymers for antibacterial application and infection treatment as nanocarriers. <i>Journal of Colloid and Interface Science</i> , 2019 , 540, 634-646	9.3	15
59	Biodegradable amino acid-based poly(ester amine) with tunable immunomodulating properties and their in vitro and in vivo wound healing studies in diabetic rats/wounds. <i>Acta Biomaterialia</i> , 2019 , 84, 114-132	10.8	22
58	Bioprinting: 3D Printed Organ Models with Physical Properties of Tissue and Integrated Sensors (Adv. Mater. Technol. 3/2018). <i>Advanced Materials Technologies</i> , 2018 , 3, 1870010	6.8	
57	Enhanced MHC-I antigen presentation from the delivery of ovalbumin by light-facilitated biodegradable poly(ester amide)s nanoparticles. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1930-1942	7.3	13
56	Arginine-based poly(ester amide) nanoparticle platform: From structure-property relationship to nucleic acid delivery. <i>Acta Biomaterialia</i> , 2018 , 74, 180-191	10.8	41
55	3D Printed Organ Models with Physical Properties of Tissue and Integrated Sensors. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700235	6.8	41
54	Biodegradable nanocomplex from hyaluronic acid and arginine based poly(ester amide)s as the delivery vehicles for improved photodynamic therapy of multidrug resistant tumor cells: An in vitro study of the performance of chlorin e6 photosensitizer. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 1487-1499	5.4	12
53	Inclusion complex from cyclodextrin-grafted hyaluronic acid and pseudo protein as biodegradable nano-delivery vehicle for gambogic acid. <i>Acta Biomaterialia</i> , 2017 , 62, 234-245	10.8	26
52	Arginine-leucine based poly (ester urea urethane) coating for Mg-Zn-Y-Nd alloy in cardiovascular stent applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 159, 78-88	6	13
51	Folate-decorated arginine-based poly(ester urea urethane) nanoparticles as carriers for gambogic acid and effect on cancer cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 475-490	5.4	16
50	A Novel Pseudo-Protein-Based Biodegradable Nanomicellar Platform for the Delivery of Anticancer Drugs. <i>Small</i> , 2017 , 13, 1601491	11	5
49	Sutures 2017 , 1514-1529		
48	Development of an arginine-based cationic hydrogel platform: Synthesis, characterization and biomedical applications. <i>Acta Biomaterialia</i> , 2014 , 10, 3098-107	10.8	19

47	Arginine-based polyester amide/polysaccharide hydrogels and their biological response. <i>Acta Biomaterialia</i> , 2014 , 10, 2482-94	10.8	31
46	Anti-tumor effect of novel cationic biomaterials in prostate cancer. <i>Anticancer Research</i> , 2014 , 34, 3981-2.3		10
45	Water insoluble cationic poly(ester amide)s: synthesis, characterization and applications. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 353-360	7.3	68
44	Dual stimuli responsive glycidyl methacrylate chitosan-quaternary ammonium hybrid hydrogel and its bovine serum albumin release. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 3736-3745	2.9	18
43	A novel family of biodegradable hybrid hydrogels from arginine-based poly(ester amide) and hyaluronic acid precursors. <i>Soft Matter</i> , 2013 , 9, 3965	3.6	40
42	Dual functions of polyvinyl alcohol (PVA): fabricating particles and electrospinning nanofibers applied in controlled drug release. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	4
41	A new family of functional biodegradable arginine-based polyester urea urethanes: Synthesis, characterization and biodegradation. <i>Polymer</i> , 2013 , 54, 4112-4125	3.9	15
40	Redox/pH dual stimuli-responsive biodegradable nanohydrogels with varying responses to dithiothreitol and glutathione for controlled drug release. <i>Biomaterials</i> , 2012 , 33, 6570-9	15.6	296
39	Biodegradable arginine-based poly(ether ester amide)s as a non-viral DNA delivery vector and their structure-function study. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18983		63
38	Block copolymer of poly(ester amide) and polyesters: synthesis, characterization, and in vitro cellular response. <i>Acta Biomaterialia</i> , 2012 , 8, 4314-23	10.8	51
37	Cationic Hybrid Hydrogels from Amino-Acid-Based Poly(ester amide): Fabrication, Characterization, and Biological Properties. <i>Advanced Functional Materials</i> , 2012 , 22, 3815-3823	15.6	82
36	Synthesis and characterization of ionic charged water soluble arginine-based poly(ester amide). <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 469-79	4.5	35
35	Biodegradable nanospheres self-assembled from complementary hydrophilic dextran macromers. <i>Carbohydrate Polymers</i> , 2011 , 86, 910-916	10.3	5
34	New Unsaturated Biodegradable Poly(ester amide)s Composed of Fumaric Acid, L-leucine and α -Alkylene Diols. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2011 , 48, 544-555	2.2	8
33	Biodegradable functional poly(ester amide)s with pendant hydroxyl functional groups: synthesis, characterization, fabrication and in vitro cellular response. <i>Acta Biomaterialia</i> , 2011 , 7, 1504-15	10.8	36
32	Synthesis, characterization and biodegradation of functionalized amino acid-based poly(ester amide)s. <i>Biomaterials</i> , 2010 , 31, 3745-54	15.6	82
31	Synthesis and characterization of functionalized water soluble cationic poly(ester amide)s. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 3758-3766	2.5	34
30	Visible light induced dextran-methacrylate hydrogel formation using Riboflavin vitamin B2 as a photoinitiator and L-arginine as a co-initiator. <i>Fibers and Polymers</i> , 2009 , 10, 14-20	2	44

29	Effect of the molecular weight of polyethylene glycol (PEG) on the properties of chitosan-PEG-poly(N-isopropylacrylamide) hydrogels. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 2865-72	4.5	38
28	Cationic poly(VCL-AETA) hydrogels and ovalbumin (OVA) release in vitro. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 3593-601	4.5	5
27	Transfection of Vascular Smooth Muscle Cells with Novel Biodegradable Arginine Based Poly(ester-amide)s. <i>FASEB Journal</i> , 2008 , 22, 1056.1	0.9	
26	Formulation and characterization of chitosan-based hydrogel films having both temperature and pH sensitivity. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1563-77	4.5	60
25	Influence of polyelectrolyte on the thermosensitive property of PNIPAAm-based copolymer hydrogels. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1771-9	4.5	11
24	Functionalized three-arm poly(ϵ -caprolactone) maleic acid microspheres for controlled protein release. <i>American Journal of Drug Delivery</i> , 2005 , 3, 253-267		6
23	Temperature-sensitive poly(N-isopropylacrylamide)/poly(ethylene glycol) diacrylate hydrogel microspheres. <i>American Journal of Drug Delivery</i> , 2005 , 3, 55-65		8
22	Fabrication of Poly(lactic acid) Diacrylate Nanospheres with Double Bonds. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 840-844	4.8	5
21	Fabrication and characterization of microgel-impregnated, thermosensitive PNIPAAm hydrogels. <i>Polymer</i> , 2005 , 46, 9664-9673	3.9	71
20	Using hydrophobic additive as pore-forming agent to prepare macroporous PNIPAAm hydrogels. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 5490-5497	2.5	24
19	Synthesis and characterization of partially biodegradable and thermosensitive hydrogel. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 865-75	4.5	28
18	Dynamics studies on thermoresponsive poly(N-isopropylacrylamide) hydrogel in tetrahydrofuran/water mixtures. <i>Colloid and Polymer Science</i> , 2004 , 282, 589-595	2.4	13
17	A responsive poly(N-isopropylacrylamide)/poly(ethylene glycol) diacrylate hydrogel microsphere. <i>Colloid and Polymer Science</i> , 2004 , 282, 1415-1420	2.4	13
16	Thermoresponsive hydrogel with rapid response dynamics. <i>Journal of Materials Science: Materials in Medicine</i> , 2003 , 14, 451-5	4.5	60
15	Novel Biodegradable and Thermosensitive Dex-AI/PNIPAAm Hydrogel. <i>Macromolecular Bioscience</i> , 2003 , 3, 87-91	5.5	34
14	Synthesis and properties of the semi-interpenetrating polymer network-like, thermosensitive poly(N-isopropylacrylamide) hydrogel. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 1935-1941	2.9	20
13	Effect of the crosslinking level on the properties of temperature-sensitive poly(N-isopropylacrylamide) hydrogels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 582-593	2.6	67
12	Synthesis of temperature sensitive PNIPAAm cryogels in organic solvent with improved properties. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2457		37

11	Functionalized multiarm poly(ϵ -caprolactone)s: Synthesis, structure analysis, and network formation. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 2296-2306	2.9	39
10	Synthesis and structural analysis of functionalized poly (ϵ -caprolactone)-based three-arm star polymers. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 1127-1141	2.5	70
9	Synthesis and chemical structural analysis of nitroxyl-radical-incorporated poly(acrylic acid/lactide/ ϵ -caprolactone) copolymers. <i>Journal of Polymer Science Part A</i> , 2001 , 39, 4214-4226	2.5	20
8	Biodegradable dextran-poly(lactide) hydrogel network and its controlled release of albumin. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 54, 1-11		36
7	Synthesis and characterization of dextran-methacrylate hydrogels and structural study by SEM. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 49, 517-27		122
6	Synthesis and characterization of biodegradable hydrophobic/hydrophilic hydrogel networks with a controlled swelling property. <i>Journal of Polymer Science Part A</i> , 2000 , 38, 2392-2404	2.5	47
5	Synthesis and characterization of dextran-maleic acid based hydrogel. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 46, 160-70		85
4	Synthesis and characterization of biodegradable network hydrogels having both hydrophobic and hydrophilic components with controlled swelling behavior. <i>Journal of Polymer Science Part A</i> , 1999 , 37, 4554-4569	2.5	60
3	Synthesis and characterization of biodegradable poly(L-aspartic acid-co-PEG). <i>Journal of Polymer Science Part A</i> , 1998 , 36, 2949-2959	2.5	32
2	Inulin polysaccharide having pendant amino acids: Synthesis and characterization. <i>Journal of Applied Polymer Science</i> , 1998 , 70, 953-963	2.9	12
1	Molecular design of biologically active biodegradable polymers for biomedical applications. <i>Macromolecular Symposia</i> , 1998 , 130, 71-80	0.8	14