Chih-Chang Chu

List of Publications by Citations

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	Redox/pH dual stimuli-responsive biodegradable nanohydrogels with varying responses to dithiothreitol and glutathione for controlled drug release. *Biomaterials*, **2012**, 33, 6570-9	15.6	296
63	Synthesis and characterization of dextran-methacrylate hydrogels and structural study by SEM. *Journal of Biomedical Materials Research Part B*, **2000**, 49, 517-27		122
62	Synthesis and characterization of dextran-maleic acid based hydrogel. *Journal of Biomedical Materials Research Part B*, **1999**, 46, 160-70		85
61	Cationic Hybrid Hydrogels from Amino-Acid-Based Poly(ester amide): Fabrication, Characterization, and Biological Properties. *Advanced Functional Materials*, **2012**, 22, 3815-3823	15.6	82
60	Synthesis, characterization and biodegradation of functionalized amino acid-based poly(ester amide)s. *Biomaterials*, **2010**, 31, 3745-54	15.6	82
59	Fabrication and characterization of microgel-impregnated, thermosensitive PNIPAAm hydrogels. *Polymer*, **2005**, 46, 9664-9673	3.9	71
58	Synthesis and structural analysis of functionalized poly (?-caprolactone)-based three-arm star polymers. *Journal of Polymer Science Part A*, **2002**, 40, 1127-1141	2.5	70
57	Water insoluble cationic poly(ester amide)s: synthesis, characterization and applications. *Journal of Materials Chemistry B*, **2013**, 1, 353-360	7.3	68
56	Effect of the crosslinking level on the properties of temperature-sensitive poly(N-isopropylacrylamide) hydrogels. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 582-593	2.6	67
55	Biodegradable arginine-based poly(ether ester amide)s as a non-viral DNA delivery vector and their structure□unction study. *Journal of Materials Chemistry*, **2012**, 22, 18983		63
54	Formulation and characterization of chitosan-based hydrogel films having both temperature and pH sensitivity. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 1563-77	4.5	60
53	Thermoresponsive hydrogel with rapid response dynamics. *Journal of Materials Science: Materials in Medicine*, **2003**, 14, 451-5	4.5	60
52	Synthesis and characterization of biodegradable network hydrogels having both hydrophobic and hydrophilic components with controlled swelling behavior. *Journal of Polymer Science Part A*, **1999**, 37, 4554-4569	2.5	60
51	Block copolymer of poly(ester amide) and polyesters: synthesis, characterization, and in vitro cellular response. *Acta Biomaterialia*, **2012**, 8, 4314-23	10.8	51
50	Synthesis and characterization of biodegradable hydrophobic□ydrophilic hydrogel networks with a controlled swelling property. *Journal of Polymer Science Part A*, **2000**, 38, 2392-2404	2.5	47
49	Visible light induced dextran-methacrylate hydrogel formation using (□)-riboflavin vitamin B2 as a photoinitiator and L-arginine as a co-initiator. *Fibers and Polymers*, **2009**, 10, 14-20	2	44
48	Arginine-based poly(ester amide) nanoparticle platform: From structure-property relationship to nucleic acid delivery. *Acta Biomaterialia*, **2018**, 74, 180-191	10.8	41

47	3D Printed Organ Models with Physical Properties of Tissue and Integrated Sensors. *Advanced Materials Technologies*, **2018**, 3, 1700235	6.8	41
46	A novel family of biodegradable hybrid hydrogels from arginine-based poly(ester amide) and hyaluronic acid precursors. *Soft Matter*, **2013**, 9, 3965	3.6	40
45	Functionalized multiarm poly(?-caprolactone)s: Synthesis, structure analysis, and network formation. *Journal of Applied Polymer Science*, **2002**, 86, 2296-2306	2.9	39
44	Effect of the molecular weight of polyethylene glycol (PEG) on the properties of chitosan-PEG-poly(N-isopropylacrylamide) hydrogels. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 2865-72	4.5	38
43	Synthesis of temperature sensitive PNIPAAm cryogels in organic solvent with improved properties. *Journal of Materials Chemistry*, **2003**, 13, 2457		37
42	Biodegradable functional poly(ester amide)s with pendant hydroxyl functional groups: synthesis, characterization, fabrication and in vitro cellular response. *Acta Biomaterialia*, **2011**, 7, 1504-15	10.8	36
41	Biodegradable dextran-polylactide hydrogel network and its controlled release of albumin. *Journal of Biomedical Materials Research Part B*, **2001**, 54, 1-11		36
40	Synthesis and characterization of ionic charged water soluble arginine-based poly(ester amide). *Journal of Materials Science: Materials in Medicine*, **2011**, 22, 469-79	4.5	35
39	Synthesis and characterization of functionalized water soluble cationic poly(ester amide)s. *Journal of Polymer Science Part A*, **2010**, 48, 3758-3766	2.5	34
38	Novel Biodegradable and Thermosensitive Dex-AI/PNIPAAm Hydrogel. *Macromolecular Bioscience*, **2003**, 3, 87-91	5.5	34
37	Synthesis and characterization of biodegradable poly(L-aspartic acid-co-PEG). *Journal of Polymer Science Part A*, **1998**, 36, 2949-2959	2.5	32
36	Arginine-based polyester amide/polysaccharide hydrogels and their biological response. *Acta Biomaterialia*, **2014**, 10, 2482-94	10.8	31
35	Synthesis and characterization of partially biodegradable and thermosensitive hydrogel. *Journal of Materials Science: Materials in Medicine*, **2004**, 15, 865-75	4.5	28
34	Inclusion complex from cyclodextrin-grafted hyaluronic acid and pseudo protein as biodegradable nano-delivery vehicle for gambogic acid. *Acta Biomaterialia*, **2017**, 62, 234-245	10.8	26
33	Using hydrophobic additive as pore-forming agent to prepare macroporous PNIPAAm hydrogels. *Journal of Polymer Science Part A*, **2005**, 43, 5490-5497	2.5	24
32	Biodegradable amino acid-based poly(ester amine) with tunable immunomodulating properties and their in vitro and in vivo wound healing studies in diabetic ratsWounds. *Acta Biomaterialia*, **2019**, 84, 114-132	10.8	22
31	Development of Inherently Antibacterial, Biodegradable, and Biologically Active Chitosan/Pseudo-Protein Hybrid Hydrogels as Biofunctional Wound Dressings. *ACS Applied Materials & Interfaces*, **2021**, 13, 14688-14699	9.5	21
30	Synthesis and properties of the semi-interpenetrating polymer network□ke, thermosensitive poly(N-isopropylacrylamide) hydrogel. *Journal of Applied Polymer Science*, **2003**, 89, 1935-1941	2.9	20

29	Synthesis and chemical structural analysis of nitroxyl-radical-incorporated poly(acrylic acid/lactide/?-caprolactone) copolymers. *Journal of Polymer Science Part A*, **2001**, 39, 4214-4226	2.5	20
28	Development of an arginine-based cationic hydrogel platform: Synthesis, characterization and biomedical applications. *Acta Biomaterialia*, **2014**, 10, 3098-107	10.8	19
27	Dual stimuli responsive glycidyl methacrylate chitosan-quaternary ammonium hybrid hydrogel and its bovine serum albumin release. *Journal of Applied Polymer Science*, **2013**, 130, 3736-3745	2.9	18
26	Folate-decorated arginine-based poly(ester urea urethane) nanoparticles as carriers for gambogic acid and effect on cancer cells. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 475-490	5.4	16
25	A new family of functional biodegradable arginine-based polyester urea urethanes: Synthesis, chracterization and biodegradation. *Polymer*, **2013**, 54, 4112-4125	3.9	15
24	Self-assembly of amino acid-based random copolymers for antibacterial application and infection treatment as nanocarriers. *Journal of Colloid and Interface Science*, **2019**, 540, 634-646	9.3	15
23	Molecular design of biologically active biodegradable polymers for biomedical applications. *Macromolecular Symposia*, **1998**, 130, 71-80	0.8	14
22	Enhanced MHC-I antigen presentation from the delivery of ovalbumin by light-facilitated biodegradable poly(ester amide)s nanoparticles. *Journal of Materials Chemistry B*, **2018**, 6, 1930-1942	7.3	13
21	Arginine-leucine based poly (ester urea urethane) coating for Mg-Zn-Y-Nd alloy in cardiovascular stent applications. *Colloids and Surfaces B: Biointerfaces*, **2017**, 159, 78-88	6	13
20	Dynamics studies on thermoresponsive poly(N-isopropylacrylamide) hydrogel in tetrahydrofuran/water mixtures. *Colloid and Polymer Science*, **2004**, 282, 589-595	2.4	13
19	A responsive poly(N-isopropylacrylamide)/poly(ethylene glycol) diacrylate hydrogel microsphere. *Colloid and Polymer Science*, **2004**, 282, 1415-1420	2.4	13
18	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. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 1487-1499	5.4	12
17	Inulin polysaccharide having pendant amino acids: Synthesis and characterization. *Journal of Applied Polymer Science*, **1998**, 70, 953-963	2.9	12
16	A light-facilitated drug delivery system from a pseudo-protein/hyaluronic acid nanocomplex with improved anti-tumor effects. *Nanoscale*, **2019**, 11, 9987-10003	7.7	11
15	Influence of polyelectrolyte on the thermosensitive property of PNIPAAm-based copolymer hydrogels. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 1771-9	4.5	11
14	Anti-tumor effect of novel cationic biomaterials in prostate cancer. *Anticancer Research*, **2014**, 34, 3981-9	2.3	10
13	New Unsaturated Biodegradable Poly(ester amide)s Composed of Fumaric Acid, L-leucine and ⌗Alkylene Diols. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2011**, 48, 544-555	2.2	8
12	Temperature-sensitive poly(N-isopropylacrylamide)/poly(ethylene glycol) diacrylate hydrogel microspheres. *American Journal of Drug Delivery*, **2005**, 3, 55-65		8

11	Development of ROS-responsive amino acid-based poly(ester amide) nanoparticle for anticancer drug delivery. *Journal of Biomedical Materials Research - Part A*, **2021**, 109, 524-537	5.4	7
10	Functionalized three-arm poly(□caprolactone) maleic acid microspheres for controlled protein release. *American Journal of Drug Delivery*, **2005**, 3, 253-267		6
9	A Novel Pseudo-Protein-Based Biodegradable Nanomicellar Platform for the Delivery of Anticancer Drugs. *Small*, **2017**, 13, 1601491	11	5
8	Biodegradable nanospheres self-assembled from complementary hydrophilic dextran macromers. *Carbohydrate Polymers*, **2011**, 86, 910-916	10.3	5
7	Cationic poly(VCL-AETA) hydrogels and ovalbumin (OVA) release in vitro. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 3593-601	4.5	5
6	Fabrication of Poly(lactic acid) Diacrylate Nanospheres with Double Bonds. *Macromolecular Rapid Communications*, **2005**, 26, 840-844	4.8	5
5	Dual functions of polyvinyl alcohol (PVA): fabricating particles and electrospinning nanofibers applied in controlled drug release. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	4
4	Targeted Chinese Medicine Delivery by A New Family of Biodegradable Pseudo-Protein Nanoparticles for Treating Triple-Negative Breast Cancer: and Study. *Frontiers in Oncology*, **2020**, 10, 600298	5.3	1
3	Bioprinting: 3D Printed Organ Models with Physical Properties of Tissue and Integrated Sensors (Adv. Mater. Technol. 3/2018). *Advanced Materials Technologies*, **2018**, 3, 1870010	6.8	
2	Transfection of Vascular Smooth Muscle Cells with Novel Biodegradable Arginine Based Poly(ester-amide)s. *FASEB Journal*, **2008**, 22, 1056.1	0.9	
1	Sutures **2017**, 1514-1529		