

Chih-Chang Chu

List of Publications by Year in descending order

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64
papers

2,624
citations

136885

32
h-index

189801

50
g-index

64
all docs

64
docs citations

64
times ranked

3368
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox/pH dual stimuli-responsive biodegradable nanohydrogels with varying responses to dithiothreitol and glutathione for controlled drug release. <i>Biomaterials</i> , 2012, 33, 6570-6579.	5.7	332
2	Synthesis and characterization of dextran-methacrylate hydrogels and structural study by SEM. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 49, 517-527.	3.0	139
3	Synthesis and characterization of dextran-maleic acid based hydrogel. <i>Journal of Biomedical Materials Research Part B</i> , 1999, 46, 160-170.	3.0	93
4	Synthesis, characterization and biodegradation of functionalized amino acid-based poly(ester amide)s. <i>Biomaterials</i> , 2010, 31, 3745-3754.	5.7	90
5	Cationic Hybrid Hydrogels from Amino Acid-Based Poly(ester amide): Fabrication, Characterization, and Biological Properties. <i>Advanced Functional Materials</i> , 2012, 22, 3815-3823.	7.8	90
6	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.	4.0	79
7	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.	2.4	78
8	Fabrication and characterization of microgel-impregnated, thermosensitive PNIPAAm hydrogels. <i>Polymer</i> , 2005, 46, 9664-9673.	1.8	75
9	Water insoluble cationic poly(ester amide)s: synthesis, characterization and applications. <i>Journal of Materials Chemistry B</i> , 2013, 1, 353-360.	2.9	74
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	71
11	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.	6.7	71
12	Thermoresponsive hydrogel with rapid response dynamics. <i>Journal of Materials Science: Materials in Medicine</i> , 2003, 14, 451-455.	1.7	70
13	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	64
14	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, 1563-1577.	1.7	64
15	Visible light induced dextran-methacrylate hydrogel formation using (λ)-riboflavin vitamin B2 as a photoinitiator and L-arginine as a co-initiator. <i>Fibers and Polymers</i> , 2009, 10, 14-20.	1.1	62
16	Arginine-based poly(ester amide) nanoparticle platform: From structure-property relationship to nucleic acid delivery. <i>Acta Biomaterialia</i> , 2018, 74, 180-191.	4.1	61
17	Block copolymer of poly(ester amide) and polyesters: Synthesis, characterization, and in vitro cellular response. <i>Acta Biomaterialia</i> , 2012, 8, 4314-4323.	4.1	60
18	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	51

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19	3D Printed Organ Models with Physical Properties of Tissue and Integrated Sensors. <i>Advanced Materials Technologies</i> , 2018, 3, 1700235.	3.0	50
20	A novel family of biodegradable hybrid hydrogels from arginine-based poly(ester amide) and hyaluronic acid precursors. <i>Soft Matter</i> , 2013, 9, 3965.	1.2	46
21	Functionalized multiarm poly(ϵ -caprolactone)s: Synthesis, structure analysis, and network formation. <i>Journal of Applied Polymer Science</i> , 2002, 86, 2296-2306.	1.3	42
22	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, 2865-2872.	1.7	42
23	Synthesis and characterization of ionic charged water soluble arginine-based poly(ester amide). <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 469-479.	1.7	42
24	Synthesis of temperature sensitive PNIPAAm cryogels in organic solvent with improved properties. <i>Journal of Materials Chemistry</i> , 2003, 13, 2457.	6.7	40
25	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	39
26	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, 1504-1515.	4.1	39
27	Arginine-based polyester amide/polysaccharide hydrogels and their biological response. <i>Acta Biomaterialia</i> , 2014, 10, 2482-2494.	4.1	39
28	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.	4.1	39
29	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.	3.0	38
30	Novel Biodegradable and Thermosensitive Dex- <i>Al</i> /PNIPAAm Hydrogel. <i>Macromolecular Bioscience</i> , 2003, 3, 87-91.	2.1	34
31	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.	4.1	34
32	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
33	Synthesis and characterization of partially biodegradable and thermosensitive hydrogel. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 865-875.	1.7	30
34	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.	2.5	27
35	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	26
36	Development of an arginine-based cationic hydrogel platform: Synthesis, characterization and biomedical applications. <i>Acta Biomaterialia</i> , 2014, 10, 3098-3107.	4.1	25

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37	Synthesis and properties of the semi-interpenetrating polymer network-like, thermosensitive poly(N-isopropylacrylamide) hydrogel. Journal of Applied Polymer Science, 2003, 89, 1935-1941.	1.3	22
38	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.	2.1	22
39	Synthesis and chemical structural analysis of nitroxyl-radical-incorporated poly(acrylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 06	2.5	21
40	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.	1.3	20
41	A new family of functional biodegradable arginine-based polyester urea urethanes: Synthesis, characterization and biodegradation. Polymer, 2013, 54, 4112-4125.	1.8	20
42	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.	5.0	20
43	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.	2.1	20
44	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.	2.9	19
45	Molecular design of biologically active biodegradable polymers for biomedical applications. Macromolecular Symposia, 1998, 130, 71-80.	0.4	16
46	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 <i>in vitro</i> study of the performance of chlorin e6 photosensitizer. Journal of Biomedical Materials Research - Part A, 2017, 105, 1487-1499.	2.1	16
47	A light-facilitated drug delivery system from a pseudo-protein/hyaluronic acid nanocomplex with improved anti-tumor effects. Nanoscale, 2019, 11, 9987-10003.	2.8	16
48	A responsive poly(N-isopropylacrylamide)/poly(ethylene glycol) diacrylate hydrogel microsphere. Colloid and Polymer Science, 2004, 282, 1415-1420.	1.0	14
49	Dynamics studies on thermoresponsive poly(N-isopropylacrylamide) hydrogel in tetrahydrofuran/water mixtures. Colloid and Polymer Science, 2004, 282, 589-595.	1.0	13
50	Influence of polyelectrolyte on the thermosensitive property of PNIPAAm-based copolymer hydrogels. Journal of Materials Science: Materials in Medicine, 2007, 18, 1771-1779.	1.7	13
51	Inulin polysaccharide having pendant amino acids: Synthesis and characterization. Journal of Applied Polymer Science, 1998, 70, 953-963.	1.3	12
52	Anti-tumor effect of novel cationic biomaterials in prostate cancer. Anticancer Research, 2014, 34, 3981-9.	0.5	11
53	Temperature-Sensitive Poly(N-Isopropylacrylamide)/Poly(Ethylene Glycol) Diacrylate Hydrogel Microspheres. American Journal of Drug Delivery, 2005, 3, 55-65.	0.6	10
54	New Unsaturated Biodegradable Poly(ester amide)s Composed of Fumaric Acid, L-leucine and α -Alkylene Diols. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 544-555.	1.2	8

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55	A Novel Pseudo-Protein-Based Biodegradable Nanomicellar Platform for the Delivery of Anticancer Drugs. <i>Small</i> , 2017, 13, 1601491.	5.2	7
56	Targeted Chinese Medicine Delivery by A New Family of Biodegradable Pseudo-Protein Nanoparticles for Treating Triple-Negative Breast Cancer: In Vitro and In Vivo Study. <i>Frontiers in Oncology</i> , 2020, 10, 600298.	1.3	7
57	Fabrication of Poly(lactic acid) Diacrylate Nanospheres with Double Bonds. <i>Macromolecular Rapid Communications</i> , 2005, 26, 840-844.	2.0	6
58	Functionalized Three-Arm Poly(ϵ -Caprolactone) Maleic Acid Microspheres for Controlled Protein Release. <i>American Journal of Drug Delivery</i> , 2005, 3, 253-267.	0.6	6
59	Cationic poly(VCL ϵ -AETA) hydrogels and ovalbumin (OVA) release in vitro. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 3593-3601.	1.7	6
60	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.	0.8	6
61	Biodegradable nanospheres self-assembled from complementary hydrophilic dextran macromers. <i>Carbohydrate Polymers</i> , 2011, 86, 910-916.	5.1	5
62	Bioprinting: 3D Printed Organ Models with Physical Properties of Tissue and Integrated Sensors (Adv.) <i>Tj ETQq0 0 0,rgBT /Overlock 10 T</i>	3.8	0
63	Transfection of Vascular Smooth Muscle Cells with Novel Biodegradable Arginine Based Poly(ester ϵ amide)s. <i>FASEB Journal</i> , 2008, 22, 1056.1.	0.2	0
64	Sutures. , 2017, , 1514-1529.		0