Changyou Gao

List of Publications by Citations

458 papers	18,559 citations	73 h-index	112 g-index
468 ext. papers	20,604 ext. citations	6.9 avg, IF	6.99 L-index

#	Paper	IF	Citations
458	Collagen/chitosan porous scaffolds with improved biostability for skin tissue engineering. *Biomaterials*, **2003**, 24, 4833-41	15.6	853
457	Surface modification and property analysis of biomedical polymers used for tissue engineering. *Colloids and Surfaces B: Biointerfaces*, **2007**, 60, 137-57	6	446
456	Surface modification of polycaprolactone membrane via aminolysis and biomacromolecule immobilization for promoting cytocompatibility of human endothelial cells. *Biomacromolecules*, **2002**, 3, 1312-9	6.9	395
455	Layer-by-layer assembly of microcapsules and their biomedical applications. *Chemical Society Reviews*, **2012**, 41, 6103-24	58.5	354
454	Cartilage tissue engineering PLLA scaffold with surface immobilized collagen and basic fibroblast growth factor. *Biomaterials*, **2005**, 26, 1253-9	15.6	278
453	Covalently crosslinked chitosan hydrogel: properties of in vitro degradation and chondrocyte encapsulation. *Acta Biomaterialia*, **2007**, 3, 23-31	10.8	189
452	Hollow chitosan-alginate multilayer microcapsules as drug delivery vehicle: doxorubicin loading and in vitro and in vivo studies. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2007**, 3, 63-74	6	189
451	Surface modification of polycaprolactone with poly(methacrylic acid) and gelatin covalent immobilization for promoting its cytocompatibility. *Biomaterials*, **2002**, 23, 4889-95	15.6	186
450	Stability and Mechanical Properties of Polyelectrolyte Capsules Obtained by Stepwise Assembly of Poly(styrenesulfonate sodium salt) and Poly(diallyldimethyl ammonium) Chloride onto Melamine Resin Particles. *Langmuir*, **2001**, 17, 3491-3495	4	180
449	Aligned PLLA nanofibrous scaffolds coated with graphene oxide for promoting neural cell growth. *Acta Biomaterialia*, **2016**, 37, 131-42	10.8	180
448	Antitumor Activity of a Unique Polymer That Incorporates a Fluorescent Self-Assembled Metallacycle. *Journal of the American Chemical Society*, **2017**, 139, 15940-15949	16.4	172
447	Endothelium regeneration on luminal surface of polyurethane vascular scaffold modified with diamine and covalently grafted with gelatin. *Biomaterials*, **2004**, 25, 423-30	15.6	172
446	Supramolecular Polymer-Based Nanomedicine: High Therapeutic Performance and Negligible Long-Term Immunotoxicity. *Journal of the American Chemical Society*, **2018**, 140, 8005-8019	16.4	168
445	Spontaneous deposition of water-soluble substances into microcapsules: phenomenon, mechanism, and application. *Angewandte Chemie - International Edition*, **2002**, 41, 3789-93	16.4	157
444	Sustained delivery of doxorubicin by porous CaCO3 and chitosan/alginate multilayers-coated CaCO3 microparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2010**, 353, 132-139	5.1	154
443	Multilayer microcapsules with tailored structures for bio-related applications. *Journal of Materials Chemistry*, **2008**, 18, 3799		153
442	Enhanced biological stability of collagen porous scaffolds by using amino acids as novel cross-linking bridges. *Biomaterials*, **2004**, 25, 2997-3004	15.6	153

441	The Decomposition Process of Melamine Formaldehyde Cores: The Key Step in the Fabrication of Ultrathin Polyelectrolyte Multilayer Capsules. *Macromolecular Materials and Engineering*, **2001**, 286, 355-361	3.9	153
440	Layer-by-layer assembly to modify poly(l-lactic acid) surface toward improving its cytocompatibility to human endothelial cells. *Biomacromolecules*, **2003**, 4, 446-52	6.9	151
439	Gelatin/chitosan/hyaluronan scaffold integrated with PLGA microspheres for cartilage tissue engineering. *Acta Biomaterialia*, **2009**, 5, 328-37	10.8	148
438	Swelling and shrinking of polyelectrolyte microcapsules in response to changes in temperature and ionic strength. *Chemistry - A European Journal*, **2003**, 9, 915-20	4.8	147
437	Poly(lactide-co-glycolide)/hydroxyapatite nanofibrous scaffolds fabricated by electrospinning for bone tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2011**, 22, 1873-84	4.5	146
436	Collagen-coated polylactide microspheres as chondrocyte microcarriers. *Biomaterials*, **2005**, 26, 6305-13	15.6	144
435	Polyrotaxane-based supramolecular theranostics. *Nature Communications*, **2018**, 9, 766	17.4	138
434	Immobilization of biomacromolecules onto aminolyzed poly(L-lactic acid) toward acceleration of endothelium regeneration. *Tissue Engineering*, **2004**, 10, 53-61		138
433	Preparation and properties of ionically cross-linked chitosan nanoparticles. *Polymers for Advanced Technologies*, **2009**, 20, 613-619	3.2	137
432	Layer by layer chitosan/alginate coatings on poly(lactide-co-glycolide) nanoparticles for antifouling protection and Folic acid binding to achieve selective cell targeting. *Journal of Colloid and Interface Science*, **2010**, 345, 241-7	9.3	131
431	Chitosan–hyaluronic acid hybrid film as a novel wound dressing: in vitro and in vivo studies. *Polymers for Advanced Technologies*, **2007**, 18, 869-875	3.2	129
430	The restoration of full-thickness cartilage defects with BMSCs and TGF-beta 1 loaded PLGA/fibrin gel constructs. *Biomaterials*, **2010**, 31, 8964-73	15.6	127
429	Manipulating the Properties of Polyelectrolyte Microcapsules by Glutaraldehyde Cross-Linking. *Chemistry of Materials*, **2005**, 17, 4610-4616	9.6	124
428	Biological hydrogel synthesized from hyaluronic acid, gelatin and chondroitin sulfate by click chemistry. *Acta Biomaterialia*, **2011**, 7, 1618-26	10.8	122
427	In vivo restoration of full-thickness cartilage defects by poly(lactide-co-glycolide) sponges filled with fibrin gel, bone marrow mesenchymal stem cells and DNA complexes. *Biomaterials*, **2010**, 31, 5953-65	15.6	121
426	A discrete organoplatinum(II) metallacage as a multimodality theranostic platform for cancer photochemotherapy. *Nature Communications*, **2018**, 9, 4335	17.4	118
425	Colloidal particles for cellular uptake and delivery. *Journal of Materials Chemistry*, **2009**, 19, 3108		117
424	Fabrication of thermoresponsive polymer gradients for study of cell adhesion and detachment. *Langmuir*, **2008**, 24, 13632-9	4	116

423	Charge-controlled permeability of polyelectrolyte microcapsules. *Journal of Physical Chemistry B*, **2005**, 109, 13159-65	3.4	116
422	The healing of full-thickness burns treated by using plasmid DNA encoding VEGF-165 activated collagen-chitosan dermal equivalents. *Biomaterials*, **2011**, 32, 1019-31	15.6	113
421	Smart Flexible Electronics-Integrated Wound Dressing for Real-Time Monitoring and On-Demand Treatment of Infected Wounds. *Advanced Science*, **2020**, 7, 1902673	13.6	112
420	Stable Weak Polyelectrolyte Microcapsules with pH-Responsive Permeability. *Macromolecules*, **2006**, 39, 335-340	5.5	111
419	Surface modification of poly(ethylene terephthalate) via hydrolysis and layer-by-layer assembly of chitosan and chondroitin sulfate to construct cytocompatible layer for human endothelial cells. *Colloids and Surfaces B: Biointerfaces*, **2005**, 46, 117-26	6	111
418	In vitro and in vivo degradability and cytocompatibility of poly(l-lactic acid) scaffold fabricated by a gelatin particle leaching method. *Acta Biomaterialia*, **2007**, 3, 531-40	10.8	110
417	Chitosan-mediated synthesis of gold nanoparticles on patterned poly(dimethylsiloxane) surfaces. *Biomacromolecules*, **2006**, 7, 1203-9	6.9	108
416	Preformed microcapsules for loading and sustained release of ciprofloxacin hydrochloride. *Journal of Controlled Release*, **2005**, 104, 193-202	11.7	107
415	Chondrocyte behaviors on poly-L-lactic acid (PLLA) membranes containing hydroxyl, amide or carboxyl groups. *Biomaterials*, **2003**, 24, 3725-30	15.6	106
414	Chitosan modified poly(L-lactide) microspheres as cell microcarriers for cartilage tissue engineering. *Colloids and Surfaces B: Biointerfaces*, **2008**, 66, 218-25	6	105
413	Gradient biomaterials and their influences on cell migration. *Interface Focus*, **2012**, 2, 337-55	3.9	103
412	The gene transfection efficiency of thermoresponsive N,N,N-trimethyl chitosan chloride-g-poly(N-isopropylacrylamide) copolymer. *Biomaterials*, **2007**, 28, 4488-500	15.6	102
411	Multilayer microcapsules as anti-cancer drug delivery vehicle: deposition, Sustained release, and in vitro bioactivity. *Macromolecular Bioscience*, **2005**, 5, 1209-19	5.5	101
410	Chitosan-Based Biomaterials for Tissue Repair and Regeneration. *Advances in Polymer Science*, **2011**, 81-127	1.3	98
409	Reactive oxygen species (ROS)-responsive biomaterials mediate tissue microenvironments and tissue regeneration. *Journal of Materials Chemistry B*, **2019**, 7, 5019-5037	7.3	96
408	Influence of silica particle internalization on adhesion and migration of human dermal fibroblasts. *Biomaterials*, **2010**, 31, 8465-74	15.6	95
407	Immobilization of natural macromolecules on poly-L-lactic acid membrane surface in order to improve its cytocompatibility. *Journal of Biomedical Materials Research Part B*, **2002**, 63, 838-47		94
406	Fabrication of a Targeted Drug Delivery System from a Pillar[5]arene-Based Supramolecular Diblock Copolymeric Amphiphile for Effective Cancer Therapy. *Advanced Functional Materials*, **2016**, 26, 8999-9008	15.6	91

405	Facile fabrication of the glutaraldehyde cross-linked collagen/chitosan porous scaffold for skin tissue engineering. *Materials Science and Engineering C*, **2012**, 32, 2361-2366	8.3	91
404	Aminolysis-based surface modification of polyesters for biomedical applications. *RSC Advances*, **2013**, 3, 2509-2519	3.7	91
403	Paraffin spheres as porogen to fabricate poly(L-lactic acid) scaffolds with improved cytocompatibility for cartilage tissue engineering. *Journal of Biomedical Materials Research Part B*, **2003**, 67, 610-7		91
402	Surface Modified with a Host Defense Peptide-Mimicking Peptide Polymer Kills Bacteria on Contact with High Efficacy. *ACS Applied Materials & Interfaces*, **2018**, 10, 15395-15400	9.5	90
401	Stepwise Assembly of the Same Polyelectrolytes Using Host Guest Interaction To Obtain Microcapsules with Multiresponsive Properties. *Chemistry of Materials*, **2008**, 20, 4194-4199	9.6	90
400	Protein immobilization on the surface of poly-L-lactic acid films for improvement of cellular interactions. *European Polymer Journal*, **2002**, 38, 2279-2284	5.2	88
399	3D PLGA scaffolds improve differentiation and function of bone marrow mesenchymal stem cell-derived hepatocytes. *Stem Cells and Development*, **2010**, 19, 1427-36	4.4	85
398	Single Polyelectrolyte Microcapsules Fabricated By Glutaraldehyde-Mediated Covalent Layer-By-Layer Assembly. *Macromolecular Rapid Communications*, **2006**, 27, 2078-2083	4.8	83
397	Uptake of hydrogel particles with different stiffness and its influence on HepG2 cell functions. *Soft Matter*, **2012**, 8, 9235	3.6	82
396	Microstructure and mechanical properties of poly(L-lactide) scaffolds fabricated by gelatin particle leaching method. *Journal of Applied Polymer Science*, **2005**, 98, 1373-1379	2.9	82
395	Reconstruction of rat calvarial defects with human mesenchymal stem cells and osteoblast-like cells in poly-lactic-co-glycolic acid scaffolds. *European Cells and Materials*, **2010**, 20, 109-20	4.3	82
394	Bovine serum albumin nanoparticles modified with multilayers and aptamers for pH-responsive and targeted anti-cancer drug delivery. *Journal of Materials Chemistry*, **2012**, 22, 6053		80
393	Gelatin hydrogel prepared by photo-initiated polymerization and loaded with TGF-beta1 for cartilage tissue engineering. *Macromolecular Bioscience*, **2009**, 9, 1194-201	5.5	78
392	Enhanced angiogenesis of gene-activated dermal equivalent for treatment of full thickness incisional wounds in a porcine model. *Biomaterials*, **2010**, 31, 7308-20	15.6	78
391	Endothelial cell functions in vitro cultured on poly(L-lactic acid) membranes modified with different methods. *Journal of Biomedical Materials Research Part B*, **2004**, 69, 436-43		75
390	Surface engineering of poly(DL-lactic acid) by entrapment of alginate-amino acid derivatives for promotion of chondrogenesis. *Biomaterials*, **2002**, 23, 3141-8	15.6	75
389	Layer-by-layer assembly of chondroitin sulfate and collagen on aminolyzed poly(L-lactic acid) porous scaffolds to enhance their chondrogenesis. *Acta Biomaterialia*, **2007**, 3, 677-85	10.8	74
388	The roles of knitted mesh-reinforced collagen-chitosan hybrid scaffold in the one-step repair of full-thickness skin defects in rats. *Acta Biomaterialia*, **2013**, 9, 7822-32	10.8	73

387	Hydrogel-filled polylactide porous scaffolds for cartilage tissue engineering. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2007**, 82, 192-204	3.5	73
386	Fabrication and physical and biological properties of fibrin gel derived from human plasma. *Biomedical Materials (Bristol)*, **2008**, 3, 015001	3.5	73
385	Controlling the migration behaviors of vascular smooth muscle cells by methoxy poly(ethylene glycol) brushes of different molecular weight and density. *Biomaterials*, **2012**, 33, 810-20	15.6	72
384	Enhanced angiogenesis of porous collagen scaffolds by incorporation of TMC/DNA complexes encoding vascular endothelial growth factor. *Acta Biomaterialia*, **2009**, 5, 2983-94	10.8	69
383	Collagen-coated polylactide microcarriers/chitosan hydrogel composite: injectable scaffold for cartilage regeneration. *Journal of Biomedical Materials Research - Part A*, **2008**, 85, 628-37	5.4	69
382	Impact of Antifouling PEG Layer on the Performance of Functional Peptides in Regulating Cell Behaviors. *Journal of the American Chemical Society*, **2019**, 141, 16772-16780	16.4	68
381	Fabrication of red-blood-cell-like polyelectrolyte microcapsules and their deformation and recovery behavior through a microcapillary. *Advanced Materials*, **2013**, 25, 5814-8	24	68
380	Spontaneous deposition of horseradish peroxidase into polyelectrolyte multilayer capsules to improve its activity and stability. *Chemical Communications*, **2002**, 1928-9	5.8	66
379	Bioactive thin film of acidic fibroblast growth factor fabricated by layer-by-layer assembly. *Bioconjugate Chemistry*, **2005**, 16, 1316-22	6.3	65
378	Polyelectrolyte microcapsules templated on poly(styrene sulfonate)-doped CaCO3 particles for loading and sustained release of daunorubicin and doxorubicin. *European Polymer Journal*, **2006**, 42, 3341-3351	5.2	65
377	Electrospinning of chitosan nanofibers: The favorable effect of metal ions. *Carbohydrate Polymers*, **2011**, 84, 239-246	10.3	63
376	Enhanced biomacromolecule encapsulation by swelling and shrinking procedures. *ChemPhysChem*, **2004**, 5, 116-20	3.2	63
375	Surface modification of poly-L-lactide by photografting of hydrophilic polymers towards improving its hydrophilicity. *Journal of Applied Polymer Science*, **2002**, 85, 2163-2171	2.9	63
374	Biomaterials for in situ tissue regeneration: development and perspectives. *Journal of Materials Chemistry B*, **2015**, 3, 8921-8938	7.3	62
373	Realizing a Record Photothermal Conversion Efficiency of Spiky Gold Nanoparticles in the Second Near-Infrared Window by Structure-Based Rational Design. *Chemistry of Materials*, **2018**, 30, 2709-2718	9.6	62
372	Preparation of porous polylactide microspheres by emulsion-solvent evaporation based on solution induced phase separation. *Polymers for Advanced Technologies*, **2005**, 16, 622-627	3.2	62
371	Gradient immobilization of a cell adhesion RGD peptide on thermal responsive surface for regulating cell adhesion and detachment. *Colloids and Surfaces B: Biointerfaces*, **2011**, 85, 12-8	6	61
370	Toxicity of ZnO nanoparticles to macrophages due to cell uptake and intracellular release of zinc ions. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 5688-96	1.3	60

369	Thermal dehydration treatment and glutaraldehyde cross-linking to increase the biostability of collagen-chitosan porous scaffolds used as dermal equivalent. *Journal of Biomaterials Science, Polymer Edition*, **2003**, 14, 861-74	3.5	60
368	Influence of structure and properties of colloidal biomaterials on cellular uptake and cell functions. *Biomaterials Science*, **2013**, 1, 896-911	7.4	59
367	RGD modified PLGA/gelatin microspheres as microcarriers for chondrocyte delivery. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 91, 228-38	3.5	59
366	A quantitative study of the intracellular concentration of graphene/noble metal nanoparticle composites and their cytotoxicity. *Nanoscale*, **2014**, 6, 8535-42	7.7	58
365	Specially elaborated thermally induced phase separation to fabricate poly(L-lactic acid) scaffolds with ultra large pores and good interconnectivity. *Journal of Applied Polymer Science*, **2006**, 101, 3336-3342	2.9	58
364	Applications of knitted mesh fabrication techniques to scaffolds for tissue engineering and regenerative medicine. *Journal of the Mechanical Behavior of Biomedical Materials*, **2011**, 4, 922-32	4.1	57
363	pH-responsive protein microcapsules fabricated via glutaraldehyde mediated covalent layer-by-layer assembly. *Colloid and Polymer Science*, **2008**, 286, 1103-1109	2.4	57
362	A complementary density gradient of zwitterionic polymer brushes and NCAM peptides for selectively controlling directional migration of Schwann cells. *Biomaterials*, **2015**, 56, 58-67	15.6	56
361	N,N,N-Trimethylchitosan chloride as a gene vector: synthesis and application. *Macromolecular Bioscience*, **2007**, 7, 855-63	5.5	56
360	A collagen scaffold loaded with human umbilical cord-derived mesenchymal stem cells facilitates endometrial regeneration and restores fertility. *Acta Biomaterialia*, **2019**, 92, 160-171	10.8	55
359	Directional cell migration through cell-cell interaction on polyelectrolyte multilayers with swelling gradients. *Biomaterials*, **2013**, 34, 975-84	15.6	55
358	Surface engineered Poly(lactide-co-glycolide) nanoparticles for intracellular delivery: uptake and cytotoxicity--a confocal raman microscopic study. *Biomacromolecules*, **2010**, 11, 2993-9	6.9	55
357	Gelatin/chitosan/hyaluronan ternary complex scaffold containing basic fibroblast growth factor for cartilage tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 1961-8	4.5	55
356	Ibuprofen-loaded nanoparticles prepared by a co-precipitation method and their release properties. *International Journal of Pharmaceutics*, **2005**, 304, 220-30	6.5	55
355	A correlation study of protein adsorption and cell behaviors on substrates with different densities of PEG chains. *Colloids and Surfaces B: Biointerfaces*, **2014**, 122, 134-142	6	54
354	Enhanced angiogenesis in porous collagen-chitosan scaffolds loaded with angiogenin. *Tissue Engineering - Part A*, **2008**, 14, 1775-85	3.9	54
353	Influence of surface coating of PLGA particles on the internalization and functions of human endothelial cells. *Biomacromolecules*, **2012**, 13, 3272-82	6.9	53
352	RNAi functionalized collagen-chitosan/silicone membrane bilayer dermal equivalent for full-thickness skin regeneration with inhibited scarring. *Biomaterials*, **2013**, 34, 2038-48	15.6	53

351	Fabrication and characterization of poly(L-lactide-co-glycolide) knitted mesh-reinforced collagen-chitosan hybrid scaffolds for dermal tissue engineering. *Journal of the Mechanical Behavior of Biomedical Materials*, **2012**, 8, 204-15	4.1	52
350	Preparation of an Arg-Glu-Asp-Val Peptide Density Gradient on Hyaluronic Acid-Coated Poly(ε-caprolactone) Film and Its Influence on the Selective Adhesion and Directional Migration of Endothelial Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 29280-29288	9.5	52
349	Directional migration of vascular smooth muscle cells guided by a molecule weight gradient of poly(2-hydroxyethyl methacrylate) brushes. *Langmuir*, **2013**, 29, 6386-95	4	51
348	Modulating the structure and properties of poly(sodium 4-styrenesulfonate)/poly(diallyldimethylammonium chloride) multilayers with concentrated salt solutions. *Langmuir*, **2012**, 28, 193-9	4	50
347	Covalently crosslinked chitosan hydrogel formed at neutral pH and body temperature. *Journal of Biomedical Materials Research - Part A*, **2006**, 79, 913-22	5.4	50
346	Melamine Formaldehyde Core Decomposition as the Key Step Controlling Capsule Integrity: Optimizing the Polyelectrolyte Capsule Fabrication. *Macromolecular Chemistry and Physics*, **2002**, 203, 953	2.6	50
345	Molecular-engineered polymeric microcapsules assembled from Concanavalin A and glycogen with specific responses to carbohydrates. *Soft Matter*, **2011**, 7, 5805	3.6	49
344	Study on syntheses and properties of 2,2?-mercaptoethylsulfide dimethacrylate transparent homo- and copolymer resins having high refractive index. *Journal of Applied Polymer Science*, **2000**, 75, 1474-1479	2.9	49
343	Simultaneous mechanical property and biodegradation improvement of wollastonite bioceramic through magnesium dilute doping. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 54, 60-71	4.1	48
342	Polyelectrolyte coated PLGA nanoparticles: templation and release behavior. *Macromolecular Bioscience*, **2009**, 9, 326-35	5.5	48
341	Poly(ethyleneimine) microcapsules: glutaraldehyde-mediated assembly and the influence of molecular weight on their properties. *Polymers for Advanced Technologies*, **2008**, 19, 817-823	3.2	48
340	Assembly of multilayer microcapsules on CacO3 particles from biocompatible polysaccharides. *Journal of Biomaterials Science, Polymer Edition*, **2006**, 17, 997-1014	3.5	48
339	Thermosensitive poly(allylamine)-g-poly(N-isopropylacrylamide): synthesis, phase separation and particle formation. *Polymer*, **2005**, 46, 4088-4097	3.9	48
338	Morphology transformation of self-assembled organic nanomaterials in aqueous solution induced by stimuli-triggered chemical structure changes. *Journal of Materials Chemistry A*, **2017**, 5, 16059-16104	13	47
337	Doxorubicin-conjugated pH-responsive gold nanorods for combined photothermal therapy and chemotherapy of cancer. *Bioactive Materials*, **2018**, 3, 347-354	16.7	47
336	Combinational effect of matrix elasticity and alendronate density on differentiation of rat mesenchymal stem cells. *Acta Biomaterialia*, **2015**, 19, 76-84	10.8	46
335	Supramolecular Hybrid Material Constructed from Graphene Oxide and Pillar[6]arene-Based Host-Guest Complex as a Ultrasound and Photoacoustic Signals Nanoamplifier. *Materials Horizons*, **2018**, 5, 429-435	14.4	46
334	Bioactive glass-reinforced bioceramic ink writing scaffolds: sintering, microstructure and mechanical behavior. *Biofabrication*, **2015**, 7, 035010	10.5	46

333	Complementary density gradient of Poly(hydroxyethyl methacrylate) and YIGSR selectively guides migration of endotheliocytes. *Biomacromolecules*, **2014**, 15, 2256-64	6.9	45
332	Molecular interactions of different size AuNP-COOH nanoparticles with human fibrinogen. *Nanoscale*, **2013**, 5, 8130-7	7.7	45
331	Incorporation of basic fibroblast growth factor by a layer-by-layer assembly technique to produce bioactive substrates. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2007**, 83, 285-92	3.5	45
330	Equilibrium distribution of permeants in polyelectrolyte microcapsules filled with negatively charged polyelectrolyte: the influence of ionic strength and solvent polarity. *Journal of Physical Chemistry B*, **2006**, 110, 12905-9	3.4	45
329	Shape deformation and recovery of multilayer microcapsules after being squeezed through a microchannel. *Langmuir*, **2012**, 28, 5010-6	4	44
328	Stepwise interfacial self-assembly of nanoparticles via specific DNA pairing. *Physical Chemistry Chemical Physics*, **2007**, 9, 6313-8	3.6	44
327	Enhanced peroxidase-like activity of Fe@PCN-224 nanoparticles and their applications for detection of H2O2and glucose. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 577, 456-463	5.1	43
326	FeO/BSA particles induce osteogenic differentiation of mesenchymal stem cells under static magnetic field. *Acta Biomaterialia*, **2016**, 46, 141-150	10.8	43
325	Control over the gradient differentiation of rat BMSCs on a PCL membrane with surface-immobilized alendronate gradient. *Biomacromolecules*, **2013**, 14, 342-9	6.9	43
324	Cytotoxicity of gold nanoparticles with different structures and surface-anchored chiral polymers. *Acta Biomaterialia*, **2017**, 53, 610-618	10.8	42
323	Different effects of intermittent and continuous fluid shear stresses on osteogenic differentiation of human mesenchymal stem cells. *Biomechanics and Modeling in Mechanobiology*, **2012**, 11, 391-401	3.8	41
322	The design of biodegradable microcarriers for induced cell aggregation. *Macromolecular Bioscience*, **2010**, 10, 156-63	5.5	41
321	Functionalizing of polyurethane surfaces by photografting with hydrophilic monomers. *Journal of Applied Polymer Science*, **2000**, 77, 2505-2512	2.9	41
320	Influences of acid-treated multiwalled carbon nanotubes on fibroblasts: proliferation, adhesion, migration, and wound healing. *Annals of Biomedical Engineering*, **2011**, 39, 414-26	4.7	40
319	High efficient loading and controlled release of low-molecular-weight drugs by combination of spontaneous deposition and heat-induced shrinkage of multilayer capsules. *Soft Matter*, **2011**, 7, 8258	3.6	40
318	Influence of salt on assembly and compression of PDADMAC/PSSMA polyelectrolyte multilayers. *Physical Chemistry Chemical Physics*, **2009**, 11, 11577-86	3.6	40
317	Chitosan nanoparticles for loading of toothpaste actives and adhesion on tooth analogs. *Journal of Applied Polymer Science*, **2007**, 106, 4248-4256	2.9	40
316	Biodegradability and cell-mediated contraction of porous collagen scaffolds: the effect of lysine as a novel crosslinking bridge. *Journal of Biomedical Materials Research Part B*, **2004**, 71, 334-42		40

315	Surface Texture of Poly(styrenesulfonate sodium salt) and Poly(diallyldimethylammonium chloride) Micron-Sized Multilayer Capsules:A Scanning Force and Confocal Microscopy Study. *Journal of Physical Chemistry B*, **2000**, 104, 7144-7149	3.4	40
314	Adaptable hydrogel with reversible linkages for regenerative medicine: Dynamic mechanical microenvironment for cells. *Bioactive Materials*, **2021**, 6, 1375-1387	16.7	40
313	Micelles-encapsulated microcapsules for sequential loading of hydrophobic and water-soluble drugs. *Macromolecular Rapid Communications*, **2010**, 31, 1015-9	4.8	39
312	Stable microcapsules assembled stepwise from weak polyelectrolytes followed by thermal crosslinking. *Polymers for Advanced Technologies*, **2005**, 16, 827-833	3.2	39
311	Surface photo-grafting of polyurethane with 2-hydroxyethyl acrylate for promotion of human endothelial cell adhesion and growth. *Journal of Biomaterials Science, Polymer Edition*, **2000**, 11, 523-36	3.5	39
310	ROS-responsive polyurethane fibrous patches loaded with methylprednisolone (MP) for restoring structures and functions of infarcted myocardium in vivo. *Biomaterials*, **2020**, 232, 119726	15.6	39
309	Fabrication of bovine serum albumin microcapsules by desolvation and destroyable cross-linking. *Journal of Materials Chemistry*, **2008**, 18, 1153		38
308	Nanotubes protruding from poly(allylamine hydrochloride)-graft-pyrene microcapsules. *ACS Nano*, **2011**, 5, 3930-6	16.7	37
307	Preparation and redox-controlled reversible response of ferrocene-modified poly(allylamine hydrochloride) microcapsules. *Langmuir*, **2011**, 27, 1286-91	4	37
306	In vitro and in vivo biological performance of collagen-chitosan/silicone membrane bilayer dermal equivalent. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 2185-91	4.5	37
305	Fabrication of porous collagen/chitosan scaffolds with controlling microstructure for dermal equivalent. *Polymers for Advanced Technologies*, **2003**, 14, 373-379	3.2	37
304	Enzyme-responsive multifunctional peptide coating of gold nanorods improves tumor targeting and photothermal therapy efficacy. *Acta Biomaterialia*, **2019**, 86, 363-372	10.8	37
303	Uptake, Biological Fate, and Toxicity of Metal Oxide Nanoparticles. *Particle and Particle Systems Characterization*, **2014**, 31, 24-35	3.1	36
302	The interaction between 1 integrins and ERK1/2 in osteogenic differentiation of human mesenchymal stem cells under fluid shear stress modelled by a perfusion system. *Journal of Tissue Engineering and Regenerative Medicine*, **2014**, 8, 85-96	4.4	36
301	Layered microcapsules for daunorubicin loading and release as well as in vitro and in vivo studies. *Polymers for Advanced Technologies*, **2008**, 19, 36-46	3.2	36
300	Microscale control over collagen gradient on poly(L-lactide) membrane surface for manipulating chondrocyte distribution. *Colloids and Surfaces B: Biointerfaces*, **2008**, 67, 210-5	6	36
299	A polylactide/fibrin gel composite scaffold for cartilage tissue engineering: fabrication and an in vitro evaluation. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 135-43	4.5	35
298	Folic Acid Modified Poly(lactide-co-glycolide) Nanoparticles, Layer-by-Layer Surface Engineered for Targeted Delivery. *Macromolecular Chemistry and Physics*, **2010**, 211, 404-411	2.6	35

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