Changyou Gao

List of Publications by Year in Descending Order

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	3D printing of a tough double-network hydrogel and its use as a scaffold to construct a tissue-like hydrogel composite.. *Journal of Materials Chemistry B*, **2022**,	7.3	3
457	Multifunctional elastomer cardiac patches for preventing left ventricle remodeling after myocardial infarction in vivo.. *Biomaterials*, **2022**, 282, 121382	15.6	4
456	A ROS-scavenging hydrogel loaded with bacterial quorum sensing inhibitor hyperbranched poly-L-lysine promotes the wound scar-free healing of infected skin in vivo. *Chemical Engineering Journal*, **2022**, 135130	14.7	3
455	Dexamethasone-loaded ROS-responsive poly(thioketal) nanoparticles suppress inflammation and oxidative stress of acute lung injury.. *Bioactive Materials*, **2022**, 14, 430-442	16.7	1
454	Supramolecular microgels/microgel scaffolds for tissue repair and regeneration **2022**, 1, 100006		1
453	Micropatterns and peptide gradient on the inner surface of a guidance conduit synergistically promotes nerve regeneration. *Bioactive Materials*, **2022**, 9, 134-146	16.7	6
452	Influence of enantiomeric polylysine grafted on gold nanorods on the uptake and inflammatory response of bone marrow-derived macrophages in vitro. *Journal of Biomedical Materials Research - Part A*, **2022**, 110, 143-155	5.4	1
451	Biomedical polymers: synthesis, properties, and applications.. *Science China Chemistry*, **2022**, 1-66	7.9	11
450	Preservation of cardiac functions post myocardial infarction in vivo by a phenylboric acid-grafted hyaluronic hydrogel with anti-oxidation and accelerated degradation under oxidative microenvironment. *Composites Part B: Engineering*, **2022**, 238, 109941	10	1
449	Implantable Thermal Therapeutic Device with Precise Temperature Control Enabled by Foldable Electronics and Heat-Insulating Pads. *Research*, **2022**, 2022, 1-11	7.8	
448	Promoting the healing of infected diabetic wound by an anti-bacterial and nano-enzyme-containing hydrogel with inflammation-suppressing, ROS-scavenging, oxygen and nitric oxide-generating properties. *Biomaterials*, **2022**, 121597	15.6	4
447	A hyaluronic acid/platelet-rich plasma hydrogel containing MnO2 nanozymes efficiently alleviates osteoarthritis in vivo. *Carbohydrate Polymers*, **2022**, 292, 119667	10.3	3
446	Mesenchymal stem cells encapsulated in a reactive oxygen species-scavenging and O2-generating injectable hydrogel for myocardial infarction treatment. *Chemical Engineering Journal*, **2021**, 133511	14.7	0
445	A tough synthetic hydrogel with excellent post-loading of drugs for promoting the healing of infected wounds in vivo.. *Materials Science and Engineering C*, **2021**, 112577	8.3	1
444	An injectable hydrogel dotted with dexamethasone acetate-encapsulated ROS-scavenging micelles for combinatorial therapy of osteoarthritis. *Materials Today Nano*, **2021**, 100164	9.7	5
443	Alleviating Oxidative Injury of Myocardial Infarction by a Fibrous Polyurethane Patch with Condensed ROS-Scavenging Backbone Units. *Advanced Healthcare Materials*, **2021**, e2101855	10.1	8
442	Inflammation-modulating nanoparticles for pneumonia therapy. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2021**, e1763	9.2	2

441	Dimethyl Itaconate-Loaded Nanofibers Rewrite Macrophage Polarization, Reduce Inflammation, and Enhance Repair of Myocardic Infarction. *Small*, **2021**, 17, e2006992	11	8
440	Large fuzzy biodegradable polyester microspheres with dopamine deposition enhance cell adhesion and bone regeneration in vivo. *Biomaterials*, **2021**, 272, 120783	15.6	7
439	Conotoxin loaded dextran microgel particles alleviate effects of spinal cord injury by inhibiting neuronal excitotoxicity. *Applied Materials Today*, **2021**, 23, 101064	6.6	3
438	Spatiotemporal Measurement of Osmotic Pressures by FRET Imaging. *Angewandte Chemie - International Edition*, **2021**, 60, 6488-6495	16.4	3
437	Covalent grafting of hyperbranched poly-L-lysine on Ti-based implants achieves dual functions of antibacteria and promoted osteointegration in vivo. *Biomaterials*, **2021**, 269, 120534	15.6	29
436	Bone tissue regeneration: The role of finely tuned pore architecture of bioactive scaffolds before clinical translation. *Bioactive Materials*, **2021**, 6, 1242-1254	16.7	23
435	Adaptable hydrogel with reversible linkages for regenerative medicine: Dynamic mechanical microenvironment for cells. *Bioactive Materials*, **2021**, 6, 1375-1387	16.7	40
434	Spatiotemporal Measurement of Osmotic Pressures by FRET Imaging. *Angewandte Chemie*, **2021**, 133, 6562-6569	3.6	0
433	formation of tetraphenylethylene nano-structures on microgels inside living cells reduction-responsive self-assembly. *Nanoscale*, **2021**, 13, 138-149	7.7	2
432	Reactive oxygen species-responsive and scavenging polyurethane nanoparticles for treatment of osteoarthritis in vivo. *Chemical Engineering Journal*, **2021**, 409, 128147	14.7	11
431	Artificial osteochondral interface of bioactive fibrous membranes mediating calcified cartilage reconstruction. *Journal of Materials Chemistry B*, **2021**, 9, 7782-7792	7.3	1
430	Grafting of CAG peptides and (polyethylene glycol) on unsaturated polyurethane films to promote selective adhesion and migration of urethral epithelial cells. *Journal of Materials Chemistry B*, **2021**, 9, 6201-6211	7.3	2
429	The Dynamic Inflammatory Tissue Microenvironment: Signality and Disease Therapy by Biomaterials. *Research*, **2021**, 2021, 4189516	7.8	11
428	Immunomodulatory biomaterials and their application in therapies for chronic inflammation-related diseases. *Acta Biomaterialia*, **2021**, 123, 1-30	10.8	15
427	Stimuli-Sensitive Nanotherapies for the Treatment of Osteoarthritis. *Macromolecular Bioscience*, **2021**, 21, e2100280	5.5	7
426	Research advances of biomaterials-based microenvironment-regulation therapies for repair and regeneration of spinal cord injury. *Biomedical Materials (Bristol)*, **2021**, 16,	3.5	4
425	A cell-free ROS-responsive hydrogel/oriented poly(lactide-co-glycolide) hybrid scaffold for reducing inflammation and restoring full-thickness cartilage defects. *Biomedical Materials (Bristol)*, **2021**, 16,	3.5	5
424	3DICE coding matrix multidirectional macro-architecture modulates cell organization, shape, and co-cultures endothelization network. *Biomaterials*, **2021**, 277, 121112	15.6	2

423	Fabrication of poly(PEGMA) surface with controllable thickness gradient and its mediation on the gradient adhesion of cells. *Journal of Applied Polymer Science*, **2021**, 138, 50463	2.9	1
422	Micropatterned Poly(D,L-Lactide-Co-Caprolactone) Conduits With KHI-Peptide and NGF Promote Peripheral Nerve Repair After Severe Traction Injury.. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 744230	5.8	0
421	A Reactive Oxygen Species Scavenging and O Generating Injectable Hydrogel for Myocardial Infarction Treatment In vivo. *Small*, **2020**, 16, e2005038	11	31
420	Adsorption of serum proteins on titania nanotubes and its role on regulating adhesion and migration of mesenchymal stem cells. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 2305-2318	5.4	5
419	Age-Related Regeneration of Osteochondral and Tibial Defects by a Fibrin-Based Construct. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 404	5.8	2
418	A tarsus construct of a novel branched polyethylene with good elasticity for eyelid reconstruction. *International Journal of Energy Production and Management*, **2020**, 7, 259-269	5.3	0
417	Enhanced regeneration of osteochondral defects by using an aggrecanase-1 responsively degradable and N-cadherin mimetic peptide-conjugated hydrogel loaded with BMSCs. *Biomaterials Science*, **2020**, 8, 2212-2226	7.4	10
416	Methylcobalamin-Loaded PLCL Conduits Facilitate the Peripheral Nerve Regeneration. *Macromolecular Bioscience*, **2020**, 20, e1900382	5.5	3
415	Surface-Anchored Graphene Oxide Nanosheets on Cell-Scale Micropatterned Poly(d,l-lactide--caprolactone) Conduits Promote Peripheral Nerve Regeneration. *ACS Applied Materials & Interfaces*, **2020**, 12, 7915-7930	9.5	28
414	Advanced Biomaterials and Processing Methods for Liver Regeneration: State-of-the-Art and Future Trends. *Advanced Healthcare Materials*, **2020**, 9, e1901435	10.1	21
413	The impact of size and surface ligand of gold nanorods on liver cancer accumulation and photothermal therapy in the second near-infrared window. *Journal of Colloid and Interface Science*, **2020**, 565, 186-196	9.3	24
412	Micro- and nanoparticles-based immunoregulation of macrophages for tissue repair and regeneration. *Colloids and Surfaces B: Biointerfaces*, **2020**, 192, 111075	6	13
411	Unsaturated polyurethane films grafted with enantiomeric polylysine promotes macrophage polarization to a M2 phenotype through PI3K/Akt1/mTOR axis. *Biomaterials*, **2020**, 246, 120012	15.6	28
410	Spheroids of Endothelial Cells and Vascular Smooth Muscle Cells Promote Cell Migration in Hyaluronic Acid and Fibrinogen Composite Hydrogels. *Research*, **2020**, 2020, 8970480	7.8	9
409	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
408	Influence of pore architectures of silk fibroin/collagen composite scaffolds on the regeneration of osteochondral defects in vivo. *Journal of Materials Chemistry B*, **2020**, 8, 391-405	7.3	30
407	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
406	A hydrogel adhesive fabricated from poly(ethylene glycol) diacrylate and poly(allylamine hydrochloride) with fast and spontaneous degradability and anti-bacterial property. *Polymer*, **2020**, 186, 122082	3.9	0

405	Morphological and constituent viral-mimicking self-assembled nanoparticles promote cellular uptake and improve cancer therapeutic efficiency in vivo. *Giant*, **2020**, 3, 100026	5.6	5
404	Antiviral Activity of Nanomaterials against Coronaviruses. *Macromolecular Bioscience*, **2020**, 20, e2000196	5.5	10
403	Dynamic Titania Nanotube Surface Achieves UV-Triggered Charge Reversal and Enhances Cell Differentiation. *ACS Applied Materials & Interfaces*, **2019**, 11, 36939-36948	9.5	8
402	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
401	Protrusion of nanospikes on cholesterol-containing microgels by reduction-responsive self-assembly in cell milieu and its influence on cell functions. *Materials Chemistry Frontiers*, **2019**, 3, 233-241	7.8	5
400	Construction of Microreactors for Cascade Reaction and Their Potential Applications as Antibacterial Agents. *ACS Applied Materials & Interfaces*, **2019**, 11, 6789-6795	9.5	21
399	Optimizing detergent concentration and processing time to balance the decellularization efficiency and properties of bioprosthetic heart valves. *Journal of Biomedical Materials Research - Part A*, **2019**, 107, 2235-2243	5.4	10
398	A biomimetic tarso-conjunctival biphasic scaffold for eyelid reconstruction in vivo. *Biomaterials Science*, **2019**, 7, 3373-3385	7.4	0
397	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
396	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
395	UV-Responsive Multilayers with Multiple Functions for Biofilm Destruction and Tissue Regeneration. *ACS Applied Materials & Interfaces*, **2019**, 11, 17283-17293	9.5	9
394	Nanodiamonds of Different Surface Chemistry Influence the Toxicity and Differentiation of Rat Bone Mesenchymal Stem Cells. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 5426-5434	1.3	7
393	ROS-Responsive Nanoparticles for Suppressing the Cytotoxicity and Immunogenicity Caused by PM2.5 Particulates. *Biomacromolecules*, **2019**, 20, 1777-1788	6.9	13
392	Yolk-porous shell biphasic bioceramic granules enhancing bone regeneration and repair beyond homogenous hybrid. *Materials Science and Engineering C*, **2019**, 100, 433-444	8.3	4
391	Defined Substrate by Aptamer Modification with the Balanced Properties of Selective Capture and Stemness Maintenance of Mesenchymal Stem Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 15170-15180	9.5	7
390	Simultaneous enhancement of vascularization and contact-active antibacterial activity in diopside-based ceramic orbital implants. *Materials Science and Engineering C*, **2019**, 105, 110036	8.3	6
389	Migration of endothelial cells and mesenchymal stem cells into hyaluronic acid hydrogels with different moduli under induction of pro-inflammatory macrophages. *Journal of Materials Chemistry B*, **2019**, 7, 5478-5489	7.3	20
388	Co-immobilization of CD133 antibodies, vascular endothelial growth factors, and REDV peptide promotes capture, proliferation, and differentiation of endothelial progenitor cells. *Acta Biomaterialia*, **2019**, 96, 137-148	10.8	21

387	Reactive oxygen species (ROS)-responsive biomaterials mediate tissue microenvironments and tissue regeneration. *Journal of Materials Chemistry B*, **2019**, 7, 5019-5037	7.3	96
386	Selective Adhesion and Directional Migration of Endothelial Cells Guided by Cys-Ala-Gly Peptide Density Gradient on Antifouling Polymer Brushes. *Macromolecular Bioscience*, **2019**, 19, e1900292	5.5	6
385	Migration of endothelial cells into photo-responsive hydrogels with tunable modulus under the presence of pro-inflammatory macrophages. *International Journal of Energy Production and Management*, **2019**, 6, 259-267	5.3	8
384	Near-Infrared-Triggered Dynamic Surface Topography for Sequential Modulation of Macrophage Phenotypes. *ACS Applied Materials & Interfaces*, **2019**, 11, 43689-43697	9.5	24
383	One-pot synthesis of poly(ethylene glycol) modified zeolitic imidazolate framework-8 nanoparticles: Size control, surface modification and drug encapsulation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 568, 224-230	5.1	21
382	Core-Shell Biphasic Microspheres with Tunable Density of Shell Micropores Providing Tailorable Bone Regeneration. *Tissue Engineering - Part A*, **2019**, 25, 588-602	3.9	8
381	Temperature-Gating Titania Nanotubes Regulate Migration of Endothelial Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 1254-1266	9.5	1
380	Enzyme-responsive multifunctional peptide coating of gold nanorods improves tumor targeting and photothermal therapy efficacy. *Acta Biomaterialia*, **2019**, 86, 363-372	10.8	37
379	Untangling the response of bone tumor cells and bone forming cells to matrix stiffness and adhesion ligand density by means of hydrogels. *Biomaterials*, **2019**, 188, 130-143	15.6	32
378	Regeneration of different types of tissues depends on the interplay of stem cells-laden constructs and microenvironments in vivo. *Materials Science and Engineering C*, **2019**, 94, 938-948	8.3	6
377	Polyrotaxane-based supramolecular theranostics. *Nature Communications*, **2018**, 9, 766	17.4	138
376	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
375	Influences of surface coating of PLGA nanoparticles on immune activation of macrophages. *Journal of Materials Chemistry B*, **2018**, 6, 2065-2077	7.3	14
374	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
373	Design and Applications of Cell-Selective Surfaces and Interfaces. *Biomacromolecules*, **2018**, 19, 1746-1763	6.9	23
372	Near-infrared light triggered photothermal and photodynamic therapy with an oxygen-shuttle endoperoxide of anthracene against tumor hypoxia. *Polymer Chemistry*, **2018**, 9, 2124-2133	4.9	23
371	Inflammatory activation of human serum albumin- or ovalbumin-modified chitosan particles to macrophages and their immune response in human whole blood. *Journal of Materials Chemistry B*, **2018**, 6, 3096-3106	7.3	5
370	A density gradient of VAPG peptides on a cell-resisting surface achieves selective adhesion and directional migration of smooth muscle cells over fibroblasts. *Acta Biomaterialia*, **2018**, 72, 70-81	10.8	16

369	Near-infrared light triggered photothermal therapy and enhanced photodynamic therapy with a tumor-targeting hydrogen peroxide shuttle. *Journal of Materials Chemistry B*, **2018**, 6, 3145-3155	7.3	26
368	Micropatterned poly(d,l-lactide-co-caprolactone) films entrapped with gelatin for promoting the alignment and directional migration of Schwann cells. *Journal of Materials Chemistry B*, **2018**, 6, 1226-1237	7.3	13
367	Preparation of photo-responsive poly(ethylene glycol) microparticles and their influence on cell viability. *Journal of Colloid and Interface Science*, **2018**, 514, 182-189	9.3	6
366	Stromal cell-derived factor-1□encapsulated albumin/heparin nanoparticles for induced stem cell migration and intervertebral disc regeneration in vivo. *Acta Biomaterialia*, **2018**, 72, 217-227	10.8	24
365	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
364	Macrophages of Different Phenotypes Influence the Migration of BMSCs in PLGA Scaffolds with Different Pore Size. *Biotechnology Journal*, **2018**, 13, 1700297	5.6	7
363	Regeneration of the Osteochondral Defect by a Wollastonite and Macroporous Fibrin Biphasic Scaffold. *ACS Biomaterials Science and Engineering*, **2018**, 4, 1942-1953	5.5	19
362	Regeneration of osteochondral defects in vivo by a cell-free cylindrical poly(lactide-co-glycolide) scaffold with a radially oriented microstructure. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e1647-e1661	4.4	21
361	Mediating the invasion of smooth muscle cells into a cell-responsive hydrogel under the existence of immune cells. *Biomaterials*, **2018**, 180, 193-205	15.6	32
360	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
359	Low-melt bioactive glass-reinforced 3D printing akermanite porous cages with highly improved mechanical properties for lumbar spinal fusion. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 1149-1162	4.4	7
358	Fabrication of UV responsive micelles-containing multilayers and their influence on cell adhesion. *Science China Chemistry*, **2018**, 61, 54-63	7.9	7
357	Selective capture of mesenchymal stem cells over fibroblasts and immune cells on E7-modified collagen substrates under flow circumstances. *Journal of Materials Chemistry B*, **2018**, 6, 165-173	7.3	6
356	Biodegradable Anisotropic Microparticles for Stepwise Cell Adhesion and Preparation of Janus Cell Microparticles. *ACS Applied Materials & Interfaces*, **2018**, 10, 36776-36785	9.5	14
355	A discrete organoplatinum(II) metallacage as a multimodality theranostic platform for cancer photochemotherapy. *Nature Communications*, **2018**, 9, 4335	17.4	118
354	Nonstoichiometric wollastonite bioceramic scaffolds with core-shell pore struts and adjustable mechanical and biodegradable properties. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 88, 140-149	4.1	11
353	Micropatterned biodegradable polyesters clicked with CQAASIKVAV promote cell alignment, directional migration, and neurite outgrowth. *Acta Biomaterialia*, **2018**, 74, 143-155	10.8	26
352	Doxorubicin-conjugated pH-responsive gold nanorods for combined photothermal therapy and chemotherapy of cancer. *Bioactive Materials*, **2018**, 3, 347-354	16.7	47

351	Regulating the migration of smooth muscle cells by a vertically distributed poly(2-hydroxyethyl methacrylate) gradient on polymer brushes covalently immobilized with RGD peptides. *Acta Biomaterialia*, **2018**, 75, 75-92	10.8	25
350	A novel therapy strategy for bile duct repair using tissue engineering technique: PCL/PLGA bilayered scaffold with hMSCs. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 966-976	4.4	22
349	Dual Responsive Surfaces Based on Host–Guest Interaction for Dynamic Mediation of Cell–Substrate Interaction and Cell Migration. *Advanced Materials Interfaces*, **2017**, 4, 1500865	4.6	17
348	Synthesis of E7 peptide-modified biodegradable polyester with the improving affinity to mesenchymal stem cells. *Materials Science and Engineering C*, **2017**, 73, 562-568	8.3	12
347	Nicotine hydrogen tartrate loaded chitosan nanoparticles: Formulation, characterization and in vitro delivery from dry powder inhaler formulation. *European Journal of Pharmaceutics and Biopharmaceutics*, **2017**, 113, 118-131	5.7	15
346	Buildup of hyperbranched polymer/alginate multilayers and their influence on protein adsorption and platelet adhesion. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	6
345	Non-covalent assembly of poly(allylamine hydrochloride)/triethylamine microcapsules with ionic strength-responsiveness and auto-fluorescence. *Journal of Colloid and Interface Science*, **2017**, 496, 228-234	8.3	6
344	A bioactive hyaluronic acid–based hydrogel cross-linked by Diels–Alder reaction for promoting neurite outgrowth of PC12 cells. *Journal of Bioactive and Compatible Polymers*, **2017**, 32, 382-396	2	9
343	Cytotoxicity of gold nanoparticles with different structures and surface-anchored chiral polymers. *Acta Biomaterialia*, **2017**, 53, 610-618	10.8	42
342	Amino acid-modified chitosan nanoparticles for Cu chelation to suppress CuO nanoparticle cytotoxicity. *Journal of Materials Chemistry B*, **2017**, 5, 3521-3530	7.3	13
341	Application of melatonin-loaded poly(N-isopropylacrylamide) hydrogel particles to reduce the toxicity of airborne pollutes to RAW264.7 cells. *Journal of Colloid and Interface Science*, **2017**, 490, 181-189	8.3	15
340	Fabrication of polyurethane microcapsules with different shapes and their influence on cellular internalization. *Colloids and Surfaces B: Biointerfaces*, **2017**, 158, 675-681	6	8
339	Induced migration of endothelial cells into 3D scaffolds by chemoattractants secreted by pro-inflammatory macrophages. *International Journal of Energy Production and Management*, **2017**, 4, 139-148	5.3	15
338	Poly(l-lactide) melt spun fiber-aligned scaffolds coated with collagen or chitosan for guiding the directional migration of osteoblasts in vitro. *Journal of Materials Chemistry B*, **2017**, 5, 5176-5188	7.3	20
337	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
336	Controlling the selective and directional migration of hepatocytes by a complementary density gradient of glycosylated hyperbranched polymers and poly(ethylene glycol) molecules. *Acta Biomaterialia*, **2017**, 56, 161-170	10.8	17
335	Influences of size and surface coating of gold nanoparticles on inflammatory activation of macrophages. *Colloids and Surfaces B: Biointerfaces*, **2017**, 160, 372-380	6	27
334	assembly of fibrinogen/hyaluronic acid hydrogel via knob-hole interaction for 3D cellular engineering. *Bioactive Materials*, **2017**, 2, 253-259	16.7	12

333	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
332	Self-assembled composite microparticles with surface protrudent porphyrin nanoparticles enhance cellular uptake and photodynamic therapy. *Materials Horizons*, **2017**, 4, 1135-1144	14.4	13
331	Phototriggered N-Generating Submicron Particles for Selective Killing of Cancer Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 44369-44376	9.5	4
330	Photo-Decomposable Sub-Micrometer Albumin Particles Cross-Linked by ortho-Nitrobenzyl Derivatives. *Macromolecular Chemistry and Physics*, **2017**, 218, 1700413	2.6	4
329	A photo-cleavable polyprodrug-loaded wound dressing with UV-responsive antibacterial property. *Journal of Materials Chemistry B*, **2017**, 5, 8975-8982	7.3	31
328	Influence of protein adsorption on the cellular uptake of AuNPs conjugated with chiral oligomers. *Materials Chemistry Frontiers*, **2017**, 1, 542-549	7.8	8
327	Gene-activated matrix/bone marrow-derived mesenchymal stem cells constructs regenerate sweat glands-like structure in vivo. *Scientific Reports*, **2017**, 7, 17630	4.9	10
326	A biomimetic collagen/heparin multi-layered porous hydroxyapatite orbital implant for in vivo vascularization studies on the chicken chorioallantoic membrane. *Graefe's Archive for Clinical and Experimental Ophthalmology*, **2016**, 254, 83-9	3.8	10
325	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
324	Cell-Free HA-MA/PLGA Scaffolds with Radially Oriented Pores for In Situ Inductive Regeneration of Full Thickness Cartilage Defects. *Macromolecular Bioscience*, **2016**, 16, 1632-1642	5.5	22
323	Rational Design and Fabrication of Porous Calcium-Magnesium Silicate Constructs That Enhance Angiogenesis and Improve Orbital Implantation. *ACS Biomaterials Science and Engineering*, **2016**, 2, 1519-1527	5.5	16
322	FeO/BSA particles induce osteogenic differentiation of mesenchymal stem cells under static magnetic field. *Acta Biomaterialia*, **2016**, 46, 141-150	10.8	43
321	Gold nanoparticles with surface-anchored chiral poly(acryloyl-L(D)-valine) induce differential response on mesenchymal stem cell osteogenesis. *Nano Research*, **2016**, 9, 3683-3694	10	34
320	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
319	Influence of titanium dioxide nanorods with different surface chemistry on the differentiation of rat bone marrow mesenchymal stem cells. *Journal of Materials Chemistry B*, **2016**, 4, 6955-6966	7.3	12
318	Surface-anchored poly(acryloyl-L(D)-valine) with enhanced chirality-selective effect on cellular uptake of gold nanoparticles. *Scientific Reports*, **2016**, 6, 31595	4.9	31
317	In vivo vascularization of MSC-loaded porous hydroxyapatite constructs coated with VEGF-functionalized collagen/heparin multilayers. *Scientific Reports*, **2016**, 6, 19871	4.9	26
316	Enhanced Cellular Uptake of Bowl-like Microcapsules. *ACS Applied Materials & Interfaces*, **2016**, 8, 11210-4	9.5	32

315	Influence of Albumin Configuration by the Chiral Polymer-Grafted Gold Nanoparticles. *Langmuir*, **2016**, 32, 5608-16	4	17
314	Dual-responsive colloidal microcapsules based on host-guest interaction on solid templates. *Journal of Colloid and Interface Science*, **2016**, 475, 196-202	9.3	7
313	Cell-free macro-porous fibrin scaffolds for in situ inductive regeneration of full-thickness cartilage defects. *Journal of Materials Chemistry B*, **2016**, 4, 4410-4419	7.3	26
312	Citrate-capped iron oxide nanoparticles impair the osteogenic differentiation potential of rat mesenchymal stem cells. *Journal of Materials Chemistry B*, **2016**, 4, 245-256	7.3	20
311	Design and evaluation of multifunctional antibacterial ion-doped dicalcium silicate cements favorable for root canal sealing. *RSC Advances*, **2016**, 6, 19707-19715	3.7	6
310	Polyamine/salt-assembled microspheres coated with hyaluronic acid for targeting and pH sensing. *Colloids and Surfaces B: Biointerfaces*, **2016**, 142, 223-229	6	9
309	Photo-responsive polyethyleneimine microcapsules cross-linked by ortho-nitrobenzyl derivatives. *Journal of Colloid and Interface Science*, **2016**, 463, 22-8	9.3	15
308	Functionalized Nanomaterials **2016**, 123-150		
307	Synthesis of Chiral Oligomer-Grafted Biodegradable Polyurethanes and Their Chiral-Dependent Influence on Bone Marrow Stem Cell Behaviors. *Macromolecular Rapid Communications*, **2016**, 37, 1331-6	4.8	12
306	In vivo stability of protein coatings on poly lactic co glycolic nanoparticles. *MRS Advances*, **2016**, 1, 3767-3773	3.7	2
305	Preparation of complementary glycosylated hyperbranched polymer/poly(ethylene glycol) brushes and their selective interactions with hepatocytes. *Colloids and Surfaces B: Biointerfaces*, **2016**, 145, 309-318	6	5
304	Cellular uptake of poly(allylamine hydrochloride) microcapsules with different deformability and its influence on cell functions. *Journal of Colloid and Interface Science*, **2016**, 465, 149-57	9.3	13
303	Aligned PLLA nanofibrous scaffolds coated with graphene oxide for promoting neural cell growth. *Acta Biomaterialia*, **2016**, 37, 131-42	10.8	180
302	Suppressing the cytotoxicity of CuO nanoparticles by uptake of curcumin/BSA particles. *Nanoscale*, **2016**, 8, 9572-82	7.7	24
301	Genotoxicity of Copper Oxide Nanoparticles with Different Surface Chemistry on Rat Bone Marrow Mesenchymal Stem Cells. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 5489-97	1.3	10
300	Encapsulation of a photosensitizer into cell membrane capsules for photodynamic therapy. *RSC Advances*, **2016**, 6, 37212-37220	3.7	19
299	Recent advances in interactions of designed nanoparticles and cells with respect to cellular uptake, intracellular fate, degradation and cytotoxicity. *Nanotechnology*, **2016**, 27, 412002	3.4	25
298	An Introduction to Scaffolds, Biomaterial Surfaces, and Stem Cells **2016**, 1-37		

297	Skin Regeneration **2016**, 289-313		
296	Multilayer Microcapsules with Tailored Structures and Properties as Delivery Carriers for Drugs and Growth Factors **2016**, 75-99		1
295	Gradient Biomaterials and Their Impact on Cell Migration **2016**, 151-185		
294	Cartilage Regeneration **2016**, 255-287		1
293	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
292	Role of adsorbed proteins on hydroxyapatite-coated titanium in osteoblast adhesion and osteogenic differentiation. *Science Bulletin*, **2015**, 60, 691-700	10.6	14
291	Protein adsorption and cellular uptake of AuNPs capped with alkyl acids of different length. *RSC Advances*, **2015**, 5, 22792-22801	3.7	11
290	Shape Transformation of Light-Responsive Pyrene-Containing Micelles and Their Influence on Cytoviability. *Biomacromolecules*, **2015**, 16, 2276-81	6.9	27
289	Preparation of novel porphyrin nanomaterials based on the pH-responsive shape evolution of porphyrin microspheres. *Langmuir*, **2015**, 31, 4330-40	4	15
288	Preparation of gelatin density gradient on poly(ε-caprolactone) membrane and its influence on adhesion and migration of endothelial cells. *Journal of Colloid and Interface Science*, **2015**, 451, 177-83	9.3	21
287	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
286	Bioactive and Spatially Organized LbL Films **2015**, 79-102		1
285	Influence of bovine serum albumin coated poly(lactic-co-glycolic acid) particles on differentiation of mesenchymal stem cells. *RSC Advances*, **2015**, 5, 40924-40931	3.7	25
284	Combinational effect of matrix elasticity and alendronate density on differentiation of rat mesenchymal stem cells. *Acta Biomaterialia*, **2015**, 19, 76-84	10.8	46
283	Synthesis and characterization of biodegradable polyurethanes with unsaturated carbon bonds based on poly(propylene fumarate). *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	13
282	Monitoring the intracellular transformation process of surface-cleavable PLGA particles containing disulfide bonds by fluorescence resonance energy transfer. *Journal of Materials Chemistry B*, **2015**, 3, 8865-8873	7.3	9
281	A primary study of poly(propylene fumarate)-2-hydroxyethyl methacrylate copolymer scaffolds for tarsal plate repair and reconstruction in rabbit eyelids. *Journal of Materials Chemistry B*, **2015**, 3, 4052-4062	7.3	16
280	Biomaterials for in situ tissue regeneration: development and perspectives. *Journal of Materials Chemistry B*, **2015**, 3, 8921-8938	7.3	62

279	Preparation of elastic polyurethane microcapsules using CaCO3 microparticles as templates for hydrophobic substances loading. *RSC Advances*, **2015**, 5, 5775-5780	3.7	10
278	Bioengineering Skin Constructs **2015**, 703-719		1
277	Adsorption of fibronectin on salt-etched polyelectrolyte multilayers and its roles in mediating the adhesion and migration of vascular smooth muscle cells. *Macromolecular Bioscience*, **2015**, 15, 241-52	5.5	13
276	Recent advances in cell imaging and cytotoxicity of intracellular stimuli-responsive nanomaterials. *Science Bulletin*, **2015**, 60, 1973-1979	10.6	24
275	Bioactive glass-reinforced bioceramic ink writing scaffolds: sintering, microstructure and mechanical behavior. *Biofabrication*, **2015**, 7, 035010	10.5	46
274	The correlation between fibronectin adsorption and attachment of vascular cells on heparinized polycaprolactone membrane. *Journal of Colloid and Interface Science*, **2015**, 448, 231-7	9.3	16
273	Fabrication of Pyrene and Tetraphenylethylene Nanostructures by a Hydrolysis-Assisted Co-Assembly. *Chinese Journal of Chemistry*, **2015**, 33, 207-212	4.9	
272	Uptake of cerium oxide nanoparticles and its influence on functions of mouse leukemic monocyte macrophages. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	5
271	Polyelectrolyte Multilayer Patterns Created by Capillary Force and Their Impact on Cell Migration. *Chinese Journal of Chemistry*, **2014**, 32, 66-72	4.9	8
270	A quantitative study of the intracellular concentration of graphene/noble metal nanoparticle composites and their cytotoxicity. *Nanoscale*, **2014**, 6, 8535-42	7.7	58
269	Synthesis of poly(ester-carbonate) with a pendant acetylcholine analog for promoting neurite growth. *Acta Biomaterialia*, **2014**, 10, 4127-35	10.8	6
268	Nanoparticle/Polymer assembled microcapsules with pH sensing property. *Macromolecular Bioscience*, **2014**, 14, 1495-504	5.5	9
267	Poly(lactide-co-glycolide)/fibrin gel construct as a 3D model to evaluate gene therapy of cartilage in vivo. *Molecular Pharmaceutics*, **2014**, 11, 2062-70	5.6	18
266	Complementary density gradient of Poly(hydroxyethyl methacrylate) and YIGSR selectively guides migration of endotheliocytes. *Biomacromolecules*, **2014**, 15, 2256-64	6.9	45
265	Preparation of TAT peptide-modified poly(N-isopropylacrylamide) microgel particles and their cellular uptake, intracellular distribution, and influence on cytoviability in response to temperature change. *Journal of Colloid and Interface Science*, **2014**, 434, 122-9	9.3	22
264	Uptake, Biological Fate, and Toxicity of Metal Oxide Nanoparticles. *Particle and Particle Systems Characterization*, **2014**, 31, 24-35	3.1	36
263	Design of gene-activated matrix for the repair of skin and cartilage. *Polymer Journal*, **2014**, 46, 476-482	2.7	19
262	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

261	Fabrication of biconcave discoidal silica capsules and their uptake behavior by smooth muscle cells. *Journal of Colloid and Interface Science*, **2014**, 426, 124-30	9.3	5
260	Comparison studies of the in vivo treatment of full-thickness excisional wounds and burns by an artificial bilayer dermal equivalent and J-1 acellular dermal matrix. *Wound Repair and Regeneration*, **2014**, 22, 390-8	3.6	17
259	Decomposition and transformation of pyrene-derivative micelles at intracellular milieu and their influence on cytoviability. *Macromolecular Bioscience*, **2014**, 14, 1748-54	5.5	8
258	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
257	Adsorption of plasma proteins and fibronectin on poly(hydroxylethyl methacrylate) brushes of different thickness and their relationship with adhesion and migration of vascular smooth muscle cells. *International Journal of Energy Production and Management*, **2014**, 1, 17-25	5.3	24
256	Influence of surface coatings of poly(d,l-lactide-co-glycolide) particles on HepG2 cell behavior and particle fate. *Biointerphases*, **2014**, 9, 031015	1.8	
255	Synthesis of functionalized poly(ester carbonate) with laminin-derived peptide for promoting neurite outgrowth of PC12 cells. *Macromolecular Bioscience*, **2014**, 14, 1429-36	5.5	18
254	Influence of the molecular weight of poly(lactide-co-glycolide) on the in vivo cartilage repair by a construct of poly(lactide-co-glycolide)/fibrin gel/mesenchymal stem cells/transforming growth factor-β1. *Tissue Engineering - Part A*, **2014**, 20, 1-11	3.9	13
253	Immobilization of enzymes on 2-hydroxyethyl methacrylate and glycidyl methacrylate copolymer brushes. *Chemistry - an Asian Journal*, **2014**, 9, 2132-9	4.5	16
252	Enhanced bioactivity of transform growth factor-β1 from sulfated chitosan microspheres for in vitro chondrogenesis of mesenchymal stem cells. *Pure and Applied Chemistry*, **2014**, 86, 1885-1895	2.1	3
251	Biotin-triggered release and transfection of DNA complexes immobilized on a substrate via biotin–avidin interaction. *Journal of Bioactive and Compatible Polymers*, **2014**, 29, 221-234	2	4
250	The interaction between β1 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
249	A density gradient of basic fibroblast growth factor guides directional migration of vascular smooth muscle cells. *Colloids and Surfaces B: Biointerfaces*, **2014**, 117, 290-5	6	16
248	Fabrication of triple-labeled polyelectrolyte microcapsules for localized ratiometric pH sensing. *Journal of Colloid and Interface Science*, **2014**, 416, 252-7	9.3	24
247	Zeolite molecular sieve 5A acts as a reinforcing filler, altering the morphological, mechanical, and thermal properties of chitosan. *Journal of Materials Science*, **2013**, 48, 3926-3935	4.3	11
246	Lipid layer engineering of poly(lactide-co-glycolide) nanoparticles to control their uptake and intracellular co-localisation. *Journal of Materials Chemistry B*, **2013**, 1, 2252-2259	7.3	8
245	Molecular interactions of different size AuNP-COOH nanoparticles with human fibrinogen. *Nanoscale*, **2013**, 5, 8130-7	7.7	45
244	Influence of structure and properties of colloidal biomaterials on cellular uptake and cell functions. *Biomaterials Science*, **2013**, 1, 896-911	7.4	59

243	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
242	Preparation of polycaprolactone microspheres-aggregated scaffold with ultra big pores and fuzzy sphere surface by a one-step phase separation method. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 3219-27	5.4	5
241	Study of the selective uptake progress of aptamer-modified PLGA particles by liver cells. *Macromolecular Bioscience*, **2013**, 13, 1413-21	5.5	16
240	Biomimetic preparation of trace element-codoped calcium phosphate for promoting osteoporotic bone defect repair. *Journal of Materials Chemistry B*, **2013**, 1, 1316-1325	7.3	13
239	Polycaprolactone scaffolds or anisotropic particles: The initial solution temperature dependence in a gelatin particle-leaching method. *Polymer*, **2013**, 54, 277-283	3.9	7
238	Modulating the nanorods protrusion from poly(allylamine hydrochloride)-g-pyrene microcapsules by 1-pyrenesulfonic acid sodium salt. *Journal of Colloid and Interface Science*, **2013**, 405, 10-6	9.3	2
237	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
236	Aminolysis-based surface modification of polyesters for biomedical applications. *RSC Advances*, **2013**, 3, 2509-2519	3.7	91
235	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
234	Unidirectional migration of single smooth muscle cells under the synergetic effects of gradient swelling cue and parallel groove patterns. *Colloids and Surfaces B: Biointerfaces*, **2013**, 111, 1-6	6	22
233	Directional cell migration through cell-cell interaction on polyelectrolyte multilayers with swelling gradients. *Biomaterials*, **2013**, 34, 975-84	15.6	55
232	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
231	Biological identity of nanomaterials: Opportunities and challenges. *Science China Chemistry*, **2013**, 56, 1533-1541	7.9	22
230	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
229	Conjugation of basic fibroblast growth factor on a heparin gradient for regulating the migration of different types of cells. *Bioconjugate Chemistry*, **2013**, 24, 1302-13	6.3	14
228	Uptake of cerium oxide nanoparticles and their influences on functions of A549 cells. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 204-15	1.3	16
227	Effect of N/P ratios on physicochemical stability, cellular association, and gene silencing efficiency for trimethyl chitosan/small interfering RNA complexes. *Journal of Bioactive and Compatible Polymers*, **2013**, 28, 590-604	2	1
226	Directional migration of vascular smooth muscle cells guided by synergetic surface gradient and chemical pattern of poly(ethylene glycol) brushes. *Journal of Bioactive and Compatible Polymers*, **2013**, 28, 605-620	2	9

225	Fabrication of poly(lactide-co-glycolide) scaffold filled with fibrin gel, mesenchymal stem cells, and poly(ethylene oxide)-b-poly(L-lysine)/TGF-β1 plasmid DNA complexes for cartilage restoration in vivo. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 3097-108	5.4	20
224	RNAi functionalized scaffold for scarless skin regeneration. *Organogenesis*, **2013**, 9, 76-8	1.7	10
223	Functionalized Nanomaterials **2013**, 581-609		
222	Shell modulation by tailoring substituents in chitosan for LbL-assembled microcapsules. *Journal of Colloid and Interface Science*, **2012**, 372, 40-4	9.3	9
221	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
220	Fabrication of chitosan single-component microcapsules with a micrometer-thick and layered wall structure by stepwise core-mediated precipitation. *Macromolecular Rapid Communications*, **2012**, 33, 326-31	4.8	8
219	Restoration of rat calvarial defects by poly(lactide-co-glycolide)/hydroxyapatite scaffolds loaded with bone mesenchymal stem cells and DNA complexes. *Science Bulletin*, **2012**, 57, 435-444		7
218	One-step controlled precipitation to fabricate glucose-responsive microcapsules. *Colloid and Polymer Science*, **2012**, 290, 233-240	2.4	5
217	Influence of surface coating of PLGA particles on the internalization and functions of human endothelial cells. *Biomacromolecules*, **2012**, 13, 3272-82	6.9	53
216	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
215	Repeated protrusion of fluorescent pyrene nanorods on the surface of crosslinked poly(allylamine hydrochloride) microcapsules. *RSC Advances*, **2012**, 2, 11354	3.7	7
214	In situ fabrication of pyrene derivative nanorods inside polyelectrolytes microcapsules with tunable fluorescent properties. *Journal of Materials Chemistry*, **2012**, 22, 2855		13
213	Shape deformation and recovery of multilayer microcapsules after being squeezed through a microchannel. *Langmuir*, **2012**, 28, 5010-6	4	44
212	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
211	Gradient biomaterials and their influences on cell migration. *Interface Focus*, **2012**, 2, 337-55	3.9	103
210	Preparation and structure evolution of bowknot-like calcium carbonate particles in the presence of poly(sodium 4-styrene sulfate). *Journal of Colloid and Interface Science*, **2012**, 385, 274-81	9.3	10
209	Cellular uptake of covalent poly(allylamine hydrochloride) microcapsules and its influences on cell functions. *Macromolecular Bioscience*, **2012**, 12, 1534-45	5.5	31
208	Encapsulation of photosensitizer into multilayer microcapsules by combination of spontaneous deposition and heat-induced shrinkage for photodynamic therapy. *Macromolecular Bioscience*, **2012**, 12, 1436-42	5.5	15

207	Responsive polyelectrolyte multilayers assembled at high ionic strength with an unusual collapse at low ionic strength. *Macromolecular Rapid Communications*, **2012**, 33, 1964-9	4.8	21
206	Phenomenon and mechanism of capsule shrinking in alkaline solution containing calcium ions. *Journal of Physical Chemistry B*, **2012**, 116, 13561-7	3.4	9
205	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
204	Uptake of hydrogel particles with different stiffness and its influence on HepG2 cell functions. *Soft Matter*, **2012**, 8, 9235	3.6	82
203	In-depth study on aminolysis of poly(e-caprolactone): Back to the fundamentals. *Science China Chemistry*, **2012**, 55, 2419-2427	7.9	31
202	Preparation and cellular uptake of PLGA particles loaded with lamivudine. *Science Bulletin*, **2012**, 57, 3985-3993		17
201	Hepatogenic engineering from human bone marrow mesenchymal stem cells in porous polylactic glycolic acid scaffolds under perfusion culture. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, 29-39	4.4	10
200	Decomposition-assembly of tetraphenylethylene nanoparticles with uniform size and aggregation-induced emission property. *Macromolecular Rapid Communications*, **2012**, 33, 1584-9	4.8	18
199	Fabrication of poly(lactide-co-glycolide) scaffold embedded spatially with hydroxyapatite particles on pore walls for bone tissue engineering. *Polymers for Advanced Technologies*, **2012**, 23, 1446-1453	3.2	18
198	Enhancement of osteogenesis by poly(lactide-co-glycolide) sponges loaded with surface-embedded hydroxyapatite particles and rhBMP-2. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2012**, 100, 1103-13	3.5	9
197	Mineralization of Collagen-Coated Electrospun Poly(lactide-co-glycolide) Nanofibrous Mesh to Enhance Growth and Differentiation of Osteoblasts and Bone Marrow Mesenchymal Stem Cells. *Advanced Engineering Materials*, **2012**, 14, B123-B137	3.5	13
196	Layer-by-layer assembly of microcapsules and their biomedical applications. *Chemical Society Reviews*, **2012**, 41, 6103-24	58.5	354
195	Polycaprolactone scaffold modified with galactosylated chitosan for hepatocyte culture. *Macromolecular Research*, **2012**, 20, 283-291	1.9	19
194	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
193	Stability of polyelectrolyte multilayer micropatterns in response to post-treatments. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 396, 299-304	5.1	17
192	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
191	Influences of surface chemistry and swelling of salt-treated polyelectrolyte multilayers on migration of smooth muscle cells. *Journal of the Royal Society Interface*, **2012**, 9, 3455-68	4.1	30
190	On the structure alteration of crosslinkable gelatin coupled with methacrylic acid and its hydrogel. *E-Polymers*, **2012**, 12,	2.7	1

189	REPARATION OF SULFONATED CHITOSAN AND ITS ABILITY TO PROTECT bFGF ACTIVITES. *Acta Polymerica Sinica*, **2012**, 012, 418-426		5
188	Molecular-engineered polymeric microcapsules assembled from Concanavalin A and glycogen with specific responses to carbohydrates. *Soft Matter*, **2011**, 7, 5805	3.6	49
187	Chitosan-Based Biomaterials for Tissue Repair and Regeneration. *Advances in Polymer Science*, **2011**, 81-127	1.3	98
186	Extracellular signal-regulated kinase1/2 activated by fluid shear stress promotes osteogenic differentiation of human bone marrow-derived mesenchymal stem cells through novel signaling pathways. *International Journal of Biochemistry and Cell Biology*, **2011**, 43, 1591-601	5.6	28
185	Nanotubes protruding from poly(allylamine hydrochloride)-graft-pyrene microcapsules. *ACS Nano*, **2011**, 5, 3930-6	16.7	37
184	Polymeric Biomaterials for Tissue Engineering Applications 2011. *International Journal of Polymer Science*, **2011**, 2011, 1-2	2.4	17
183	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
182	Chemically cross-linked chitosan hydrogel loaded with gelatin for chondrocyte encapsulation. *Biotechnology Journal*, **2011**, 6, 1388-96	5.6	16
181	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
180	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
179	Electrospinning of chitosan nanofibers: The favorable effect of metal ions. *Carbohydrate Polymers*, **2011**, 84, 239-246	10.3	63
178	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
177	Surface-grafted block copolymer brushes with continuous composition gradients of poly(poly(ethylene glycol)-monomethacrylate) and poly(N-isopropylacrylamide). *Science China Chemistry*, **2011**, 54, 334-342	7.9	14
176	Influence of folate conjugation on the cellular uptake degree of poly(allylamine hydrochloride) microcapsules. *Journal of Applied Polymer Science*, **2011**, 121, 3710-3716	2.9	6
175	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
174	Preparation and redox-controlled reversible response of ferrocene-modified poly(allylamine hydrochloride) microcapsules. *Langmuir*, **2011**, 27, 1286-91	4	37
173	Core–Shell Poly(allyamine hydrochloride)-Pyrene Nanorods Decorated with Gold Nanoparticles. *Chemistry of Materials*, **2011**, 23, 4741-4747	9.6	27
172	Hybrid calcium phosphate coatings with the addition of trace elements and polyaspartic acid by a low-thermal process. *Biomedical Materials (Bristol)*, **2011**, 6, 035002	3.5	9

171	Biological hydrogel synthesized from hyaluronic acid, gelatin and chondroitin sulfate by click chemistry. *Acta Biomaterialia*, **2011**, 7, 1618-26	10.8	122
170	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
169	Influence of assembly pH on compression and Ag nanoparticle synthesis of polyelectrolyte multilayers. *Journal of Colloid and Interface Science*, **2011**, 355, 368-73	9.3	19
168	Functionalized Nanomaterials **2011**, 493-521		
167	Polymeric Biomaterials for Tissue Engineering Applications. *International Journal of Polymer Science* , **2010**, 2010, 1-2	2.4	4
166	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
165	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
164	Facile Synthesis of Octacalcium Phosphate Nanobelts: Growth Mechanism and Surface Adsorption Properties. *Journal of Physical Chemistry C*, **2010**, 114, 6265-6271	3.8	31
163	Proliferation and osteogenesis of immortalized bone marrow-derived mesenchymal stem cells in porous polylactic glycolic acid scaffolds under perfusion culture. *Journal of Biomedical Materials Research - Part A*, **2010**, 92, 817-29	5.4	23
162	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
161	Preparation and characterization of trace elements-multidoped injectable biomimetic materials for minimally invasive treatment of osteoporotic bone trauma. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 1170-81	5.4	15
160	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
159	Force-Free Patterning of Polyelectrolyte Multilayers under Solvent Assistance. *Macromolecular Materials and Engineering*, **2010**, 295, 716-725	3.9	4
158	Micelles-encapsulated microcapsules for sequential loading of hydrophobic and water-soluble drugs. *Macromolecular Rapid Communications*, **2010**, 31, 1015-9	4.8	39
157	Fabrication of diverse microcapsule arrays of high density and good stability. *Macromolecular Rapid Communications*, **2010**, 31, 1065-70	4.8	6
156	The design of biodegradable microcarriers for induced cell aggregation. *Macromolecular Bioscience*, **2010**, 10, 156-63	5.5	41
155	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
154	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

153	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
152	Influence of silica particle internalization on adhesion and migration of human dermal fibroblasts. *Biomaterials*, **2010**, 31, 8465-74	15.6	95
151	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
150	Tat peptide mediated cellular uptake of SiO2 submicron particles. *Colloids and Surfaces B: Biointerfaces*, **2010**, 75, 432-40	6	29
149	Fabrication of cellular polycaprolactone films for cell culture. *Colloids and Surfaces B: Biointerfaces*, **2010**, 76, 38-43	6	8
148	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
147	A composite scaffold of PLGA microspheres/fibrin gel for cartilage tissue engineering: fabrication, physical properties, and cell responsiveness. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 88, 240-9	3.5	23
146	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
145	Spontaneous Deposition of FITC-Labeled Dextran into Covalently Assembled (PGMA/PAH)4 Microcapsules. *Macromolecular Chemistry and Physics*, **2009**, 210, 1387-1393	2.6	9
144	Poly(allylamine)-graft-poly(N-isopropylacrylamide)/Poly(styrene sulfonate) Sodium Salt Multilayers: Buildup, Wettability, and Mechanical Properties. *Macromolecular Chemistry and Physics*, **2009**, 210, 2022-2028	2.6	5
143	Polyphosphazene Microcapsules Fabricated through Covalent Assembly. *Macromolecular Rapid Communications*, **2009**, 30, 448-52	4.8	13
142	Polyelectrolyte coated PLGA nanoparticles: templation and release behavior. *Macromolecular Bioscience*, **2009**, 9, 326-35	5.5	48
141	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
140	Gelatin/chitosan/hyaluronan scaffold integrated with PLGA microspheres for cartilage tissue engineering. *Acta Biomaterialia*, **2009**, 5, 328-37	10.8	148
139	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
138	Solvent-assisted polymer micro-molding. *Science Bulletin*, **2009**, 54, 2193-2204		9
137	Covalently immobilized gelatin gradients within three-dimensional porous scaffolds. *Science Bulletin*, **2009**, 54, 3174-3180		20
136	Preparation and properties of ionically cross-linked chitosan nanoparticles. *Polymers for Advanced Technologies*, **2009**, 20, 613-619	3.2	137

135	Fabrication and properties of injectable tricalcium phosphate particles/fibrin gel composite scaffolds for bone tissue engineering. *Materials Science and Engineering C*, **2009**, 29, 836-842	8.3	15
134	Fabrication of fluorescent microparticles by doping water-soluble CdTe nanocrystals into calcium carbonate for monitoring intracellular uptake. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 336, 115-122	5.1	14
133	Fabrication of complex microcapsules containing poly(allylamine)-g-poly(N-isopropylacrylamide) and their thermal responsivity. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 349, 55-60	5.1	9
132	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
131	Fabrication of microcapsule arrays on chemically patterned surfaces via covalent linking. *Journal of Zhejiang University: Science A*, **2009**, 10, 114-120	2.1	4
130	Colloidal particles for cellular uptake and delivery. *Journal of Materials Chemistry*, **2009**, 19, 3108		117
129	Influence of salt on assembly and compression of PDADMAC/PSSMA polyelectrolyte multilayers. *Physical Chemistry Chemical Physics*, **2009**, 11, 11577-86	3.6	40
128	Octacalcium phosphate microscopic superstructure self-assembly and evolution by dual-mediating combination. *CrystEngComm*, **2009**, 11, 1585	3.3	10
127	POLYELECTROLYTE MICROCAPSULES FABRICATED VIA in situ COACERVATION THE INFLUENCE OF DOPED POLYELECTROLYTE AMOUNT IN THE TEMPLATES ON THEIR STRUCTURES AND PROPERTIES. *Acta Polymerica Sinica*, **2009**, 009, 437-444		3
126	EFFECT OF CELLULAR UPTAKE OF SiO2 PARTICLES ON ADHESION AND MIGRATION OF HepG2 CELLS. *Acta Polymerica Sinica*, **2009**, 009, 815-822		5
125	Fabrication of bovine serum albumin microcapsules by desolvation and destroyable cross-linking. *Journal of Materials Chemistry*, **2008**, 18, 1153		38
124	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
123	Enhanced angiogenesis in porous collagen-chitosan scaffolds loaded with angiogenin. *Tissue Engineering - Part A*, **2008**, 14, 1775-85	3.9	54
122	Multilayer microcapsules with tailored structures for bio-related applications. *Journal of Materials Chemistry*, **2008**, 18, 3799		153
121	Influence of drying time of polyelectrolyte multilayers on the compression-induced pattern formation. *Langmuir*, **2008**, 24, 13925-33	4	13
120	Fabrication of thermoresponsive polymer gradients for study of cell adhesion and detachment. *Langmuir*, **2008**, 24, 13632-9	4	116
119	Assembly of polymeric micelles into hollow microcapsules with extraordinary stability against extreme pH conditions. *Langmuir*, **2008**, 24, 7810-6	4	27
118	Poly(lactic acid) scaffold fabricated by gelatin particle leaching has good biocompatibility for chondrogenesis. *Journal of Biomaterials Science, Polymer Edition*, **2008**, 19, 207-21	3.5	31

117	Progress in fabricating arrays of soft spherical vessels on mesoscale with spatial control. *Science Bulletin*, **2008**, 53, 3477-3490	10.6	5
116	Manipulating the properties of coacervated polyelectrolyte microcapsules by chemical crosslinking. *Colloid and Polymer Science*, **2008**, 286, 951-957	2.4	20
115	pH-responsive protein microcapsules fabricated via glutaraldehyde mediated covalent layer-by-layer assembly. *Colloid and Polymer Science*, **2008**, 286, 1103-1109	2.4	57
114	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
113	Fabrication and properties of mineralized collagen-chitosan/hydroxyapatite scaffolds. *Polymers for Advanced Technologies*, **2008**, 19, 1590	3.2	21
112	Biomimetic modification of chitosan with covalently grafted lactose and blended heparin for improvement of in vitro cellular interaction. *Polymers for Advanced Technologies*, **2008**, 19, 15-23	3.2	29
111	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
110	In Situ Coacervated Microcapsules with Filled Polyelectrolytes and Charge-Controlled Permeation for Dye Molecules. *Macromolecular Chemistry and Physics*, **2008**, 209, 957-966	2.6	5
109	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
108	Photoinitiating polymerization to prepare biocompatible chitosan hydrogels. *Journal of Applied Polymer Science*, **2008**, 110, 1059-1067	2.9	28
107	Preparation and properties of an injectable scaffold of poly(lactic-co-glycolic acid) microparticles/chitosan hydrogel. *Journal of the Mechanical Behavior of Biomedical Materials*, **2008**, 1, 352-9	4.1	35
106	Influence of assembling pH on the stability of poly(L-glutamic acid) and poly(L-lysine) multilayers against urea treatment. *Colloids and Surfaces B: Biointerfaces*, **2008**, 62, 250-7	6	25
105	Chitosan modified poly(L-lactide) microspheres as cell microcarriers for cartilage tissue engineering. *Colloids and Surfaces B: Biointerfaces*, **2008**, 66, 218-25	6	105
104	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
103	Fabrication and physical and biological properties of fibrin gel derived from human plasma. *Biomedical Materials (Bristol)*, **2008**, 3, 015001	3.5	73
102	Template Polymerization to Fabricate Hydrogen-Bonded Poly(acrylic acid)/Poly(vinylpyrrolidone) Hollow Microcapsules with a pH-Mediated Swelling□Deswelling Property. *Chemistry of Materials*, **2007**, 19, 4648-4657	9.6	31
101	Stepwise interfacial self-assembly of nanoparticles via specific DNA pairing. *Physical Chemistry Chemical Physics*, **2007**, 9, 6313-8	3.6	44
100	Chitosan nanoparticles for loading of toothpaste actives and adhesion on tooth analogs. *Journal of Applied Polymer Science*, **2007**, 106, 4248-4256	2.9	40

99	Layer-by-layer assembly of biomacromolecules on poly(ethylene terephthalate) films and fiber fabrics to promote endothelial cell growth. *Journal of Biomedical Materials Research - Part A*, **2007**, 81, 692-704	5.4	16
98	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
97	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
96	Rings of Hydrogel Fabricated by a Micro-Transfer Technique. *Macromolecular Rapid Communications* , **2007**, 28, 567-571	4.8	10
95	N,N,N-Trimethylchitosan chloride as a gene vector: synthesis and application. *Macromolecular Bioscience*, **2007**, 7, 855-63	5.5	56
94	Selective removal of particle cores to fabricate manganese carbonate hollow spheres and composite microcapsules. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 295, 233-238	5.1	27
93	Surface modification and property analysis of biomedical polymers used for tissue engineering. *Colloids and Surfaces B: Biointerfaces*, **2007**, 60, 137-57	6	446
92	Covalently crosslinked chitosan hydrogel: properties of in vitro degradation and chondrocyte encapsulation. *Acta Biomaterialia*, **2007**, 3, 23-31	10.8	189
91	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
90	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
89	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
88	The influence of polycaprolactone coating on the internalization and cytotoxicity of gold nanoparticles. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2007**, 3, 215-23	6	26
87	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
86	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
85	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
84	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
83	A facile pathway to fabricate microcapsules by in situ polyelectrolyte coacervation on poly(styrene sulfonate)-doped CaCO3 particles. *Journal of Materials Chemistry*, **2007**, 17, 670-676		33
82	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

81	Biologically driven assembly of polyelectrolyte microcapsule patterns to fabricate microreactor arrays. *Angewandte Chemie - International Edition*, **2006**, 45, 1560-3	16.4	34
80	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
79	Compression-inhibited pore formation of polyelectrolyte multilayers containing weak polyanions: a scanning force microscopy study. *ChemPhysChem*, **2006**, 7, 590-6	3.2	9
78	Single Polyelectrolyte Microcapsules Fabricated By Glutaraldehyde-Mediated Covalent Layer-By-Layer Assembly. *Macromolecular Rapid Communications*, **2006**, 27, 2078-2083	4.8	83
77	Biologically Driven Assembly of Polyelectrolyte Microcapsule Patterns To Fabricate Microreactor Arrays. *Angewandte Chemie*, **2006**, 118, 1590-1593	3.6	4
76	Growth and metabolism of human hepatocytes on biomodified collagen poly(lactic-co-glycolic acid) three-dimensional scaffold. *ASAIO Journal*, **2006**, 52, 321-7	3.6	27
75	Assembly of multilayer microcapsules on CacO3 particles from biocompatible polysaccharides. *Journal of Biomaterials Science, Polymer Edition*, **2006**, 17, 997-1014	3.5	48
74	Stable Weak Polyelectrolyte Microcapsules with pH-Responsive Permeability. *Macromolecules*, **2006**, 39, 335-340	5.5	111
73	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
72	Chitosan-mediated synthesis of gold nanoparticles on patterned poly(dimethylsiloxane) surfaces. *Biomacromolecules*, **2006**, 7, 1203-9	6.9	108
71	Crosslinked polysaccharide nanocapsules: preparation and drug release properties. *Acta Biomaterialia*, **2006**, 2, 9-18	10.8	20
70	Thermosensitive poly(allylamine)-g-poly(N-isopropylacrylamide) copolymers: Salt-tuned phase separation, particle formation and their applicability on curved surface. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 272, 203-210	5.1	17
69	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
68	Two-dimensional chemically tunable patterns with cellular structures fabricated via thermal pressing method. *Thin Solid Films*, **2006**, 500, 180-185	2.2	4
67	Polylactide hollow spheres fabricated by interfacial polymerization in an oil-in-water emulsion system. *Colloid and Polymer Science*, **2006**, 284, 513-519	2.4	25
66	Loading and release behaviors of compressed polyelectrolyte multilayers for small dye molecules. *Journal of Physical Chemistry B*, **2005**, 109, 4887-92	3.4	15
65	Bioactive thin film of acidic fibroblast growth factor fabricated by layer-by-layer assembly. *Bioconjugate Chemistry*, **2005**, 16, 1316-22	6.3	65
64	Manipulating the Properties of Polyelectrolyte Microcapsules by Glutaraldehyde Cross-Linking. *Chemistry of Materials*, **2005**, 17, 4610-4616	9.6	124

63	Charge-controlled permeability of polyelectrolyte microcapsules. *Journal of Physical Chemistry B*, **2005**, 109, 13159-65	3.4	116
62	Ibuprofen-loaded nanoparticles prepared by a co-precipitation method and their release properties. *International Journal of Pharmaceutics*, **2005**, 304, 220-30	6.5	55
61	Collagen-coated polylactide microspheres as chondrocyte microcarriers. *Biomaterials*, **2005**, 26, 6305-13	15.6	144
60	Surface wettability of compressed polyelectrolyte multilayers. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2005**, 259, 1-5	5.1	12
59	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
58	Poly(ethylene glycol) micro-patterns as environmentally sensitive template for selective or non-selective adsorption. *Colloids and Surfaces B: Biointerfaces*, **2005**, 46, 169-74	6	9
57	Preformed microcapsules for loading and sustained release of ciprofloxacin hydrochloride. *Journal of Controlled Release*, **2005**, 104, 193-202	11.7	107
56	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
55	Printing biomacromolecules on a bovine serum albumin precursor layer. *Macromolecular Bioscience*, **2005**, 5, 767-74	5.5	7
54	Multilayer microcapsules as anti-cancer drug delivery vehicle: deposition, Sustained release, and in vitro bioactivity. *Macromolecular Bioscience*, **2005**, 5, 1209-19	5.5	101
53	Multilayer Capsules with Cell-like Topology: Fabrication and Spontaneous Loading of Various Substances in Aqueous and Ethanol Solutions. *Macromolecular Chemistry and Physics*, **2005**, 206, 1784-1790	2.6	11
52	Robust Poly(allylamine)-graft-poly(N-isopropylacrylamide) Particles Prepared by Physical Crosslinking with Poly(styrene sulfonate). *Macromolecular Rapid Communications*, **2005**, 26, 1657-1663	4.8	4
51	Cartilage tissue engineering PLLA scaffold with surface immobilized collagen and basic fibroblast growth factor. *Biomaterials*, **2005**, 26, 1253-9	15.6	278
50	Thermosensitive poly(allylamine)-g-poly(N-isopropylacrylamide): synthesis, phase separation and particle formation. *Polymer*, **2005**, 46, 4088-4097	3.9	48
49	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
48	Collagen/chitosan-silicone membrane bilayer scaffold as a dermal equivalent. *Polymers for Advanced Technologies*, **2005**, 16, 789-794	3.2	31
47	Stable microcapsules assembled stepwise from weak polyelectrolytes followed by thermal crosslinking. *Polymers for Advanced Technologies*, **2005**, 16, 827-833	3.2	39
46	Controlling Biostability of Collagen Films for Fibroblast Cytocompatibility. *Journal of Bioactive and Compatible Polymers*, **2004**, 19, 353-365	2	9

45	Promoting the cytocompatibility of polyurethane scaffolds via surface photo-grafting polymerization of acrylamide. *Journal of Materials Science: Materials in Medicine*, **2004**, 15, 283-9	4.5	20
44	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
43	Enhanced biomacromolecule encapsulation by swelling and shrinking procedures. *ChemPhysChem*, **2004**, 5, 116-20	3.2	63
42	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
41	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
40	Incorporation of Carbon Nanotubes into Hollow Microcapsules Using a Removable Template Assembly. *Macromolecular Rapid Communications*, **2004**, 25, 2014-2018	4.8	12
39	Enhanced biological stability of collagen porous scaffolds by using amino acids as novel cross-linking bridges. *Biomaterials*, **2004**, 25, 2997-3004	15.6	153
38	Co-patterning chitosan and bovine serum albumin on an aldehyde-enriched glass substrate by microcontact printing. *Thin Solid Films*, **2004**, 460, 286-290	2.2	9
37	A novel process for inking the stamp with biomacromolecule solution used in reactive microcontact printing. *Colloids and Surfaces B: Biointerfaces*, **2004**, 36, 177-80	6	10
36	Irreversible Compression of Polyelectrolyte Multilayers. *Macromolecules*, **2004**, 37, 8836-8839	5.5	25
35	Micropatterning Biomacromolecules on Aldehyde-Enriched Polyester Surfaces by a Microtransfer Technique. *Chemistry of Materials*, **2004**, 16, 1319-1322	9.6	9
34	Physical-co-Chemical Multicomponent Micropatterns on Polymer Surfaces by Thermal Pressing Method. *Chemistry of Materials*, **2004**, 16, 4859-4863	9.6	3
33	Immobilization of biomacromolecules onto aminolyzed poly(L-lactic acid) toward acceleration of endothelium regeneration. *Tissue Engineering*, **2004**, 10, 53-61		138
32	Engineering porous polyurethane scaffolds by photografting polymerization of methacrylic acid for improved endothelial cell compatibility. *Journal of Biomedical Materials Research - Part A*, **2003**, 67, 1367-73	5.4	28
31	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
30	Surface Immobilization of Bioactive Molecules on Polyurethane for Promotion of Cytocompatibility to Human Endothelial Cells. *Macromolecular Bioscience*, **2003**, 3, 157-162	5.5	22
29	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
28	Chondrocyte behaviors on poly-L-lactic acid (PLLA) membranes containing hydroxyl, amide or carboxyl groups. *Biomaterials*, **2003**, 24, 3725-30	15.6	106

27	Collagen/chitosan porous scaffolds with improved biostability for skin tissue engineering. *Biomaterials*, **2003**, 24, 4833-41	15.6	853
26	Fabrication of porous collagen/chitosan scaffolds with controlling microstructure for dermal equivalent. *Polymers for Advanced Technologies*, **2003**, 14, 373-379	3.2	37
25	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
24	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
23	Photografting of poly(hydroxylethyl acrylate) onto porous polyurethane scaffolds to improve their endothelial cell compatibility. *Journal of Biomaterials Science, Polymer Edition*, **2003**, 14, 937-50	3.5	22
22	Surface modification of poly-L-lactic acid (PLLA) membrane by grafting acrylamide: an effective way to improve cytocompatibility for chondrocytes. *Journal of Biomaterials Science, Polymer Edition*, **2003**, 14, 13-25	3.5	33
21	Spontaneous Deposition of Water-Soluble Substances into Microcapsules: Phenomenon, Mechanism, and Application. *Angewandte Chemie*, **2002**, 114, 3943-3947	3.6	29
20	Spontaneous deposition of water-soluble substances into microcapsules: phenomenon, mechanism, and application. *Angewandte Chemie - International Edition*, **2002**, 41, 3789-93	16.4	157
19	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
18	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
17	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
16	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
15	Surface modification of polycaprolactone with poly(methacrylic acid) and gelatin covalent immobilization for promoting its cytocompatibility. *Biomaterials*, **2002**, 23, 4889-95	15.6	186
14	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
13	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
12	Spontaneous deposition of horseradish peroxidase into polyelectrolyte multilayer capsules to improve its activity and stability. *Chemical Communications*, **2002**, 1928-9	5.8	66
11	Construction of cell-compatible layer and culture of human umbilical vascular endothelial cells on porous polystyrene membranes. *Journal of Applied Polymer Science*, **2001**, 81, 3523-3529	2.9	13
10	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	3.8	153

9	Surface modification of polyurethane for promotion of cell adhesion and growth 1: surface photo-grafting with N,N-dimethylaminoethyl methacrylate and cytocompatibility of the modified surface. *Journal of Materials Science: Materials in Medicine*, **2001**, 12, 447-52	4.5	18
8	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
7	The Decomposition Process of Melamine Formaldehyde Cores: The Key Step in the Fabrication of Ultrathin Polyelectrolyte Multilayer Capsules **2001**, 286, 355		7
6	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
5	Functionalizing of polyurethane surfaces by photografting with hydrophilic monomers. *Journal of Applied Polymer Science*, **2000**, 77, 2505-2512	2.9	41
4	Preparation of functional poly(ether□urethane) for immobilization of human living cells 1. Surface graft polymerization of poly(ether□urethane) with 2-(dimethylamino)ethyl methacrylate and quaternization of grafted membrane. *European Polymer Journal*, **2000**, 36, 2707-2713	5.2	25
3	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
2	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
1	Taking chiral polymers toward immune regulation. *Journal of Polymer Science*,	2.4	