Maryam Tabrizian

List of Publications by Year in Descending Order

163 papers	8,141 citations	45 h-index	87 g-index
177 ext. papers	9,032 ext. citations	7.3 avg, IF	6.39 L-index

#	Paper	IF	Citations
163	Introducing an SPRi-based titration assay using aptamers for the detection of Legionella pneumophila. *Sensors and Actuators B: Chemical*, **2022**, 351, 130933	8.5	1
162	Design and development of Branched Poly(□aminoester) nanoparticles for Interleukin-10 gene delivery in a mouse model of atherosclerosis.. *Acta Biomaterialia*, **2022**,	10.8	1
161	Viscous Core Liposomes Increase siRNA Encapsulation and Provides Gene Inhibition When Slightly Positively Charged. *Pharmaceutics*, **2021**, 13,	6.4	2
160	VCAM-1-Targeted Gene Delivery Nanoparticles Localize to Inflamed Endothelial Cells and Atherosclerotic Plaques. *Advanced Therapeutics*, **2021**, 4, 2000196	4.9	4
159	A core-shell guanosine diphosphate crosslinked chitosan scaffold as a potential co-encapsulation platform. *Carbohydrate Polymers*, **2021**, 256, 117499	10.3	1
158	Rapid Formation of Multicellular Spheroids in Boundary-Driven Acoustic Microstreams. *Small*, **2021**, 17, e2101931	11	7
157	Facile engineering and interfacing of styrenic block copolymers devices for low-cost, multipurpose microfluidic applications. *Engineering Reports*, **2021**, 3, e12361	1.2	1
156	Electrohydrodynamic-Driven Micromixing for the Synthesis of Highly Monodisperse Nanoscale Liposomes. *ACS Applied Nano Materials*, **2020**, 3, 4000-4013	5.6	6
155	Hollow Microcapsules Through Layer-by-Layer Self-Assembly of Chitosan/Alginate on E. coli. *MRS Advances*, **2020**, 5, 2401-2407	0.7	1
154	Nanoparticle Synthesis Using an Electrohydrodynamic Micromixer **2020**,		1
153	Identification of two aptamers binding to Legionella pneumophila with high affinity and specificity. *Scientific Reports*, **2020**, 10, 9145	4.9	11
152	Osseointegrated membranes based on electro-spun TiO/hydroxyapatite/polyurethane for oral maxillofacial surgery. *Materials Science and Engineering C*, **2020**, 108, 110479	8.3	11
151	Low-Cost Graphene-Based Digital Microfluidic System. *Micromachines*, **2020**, 11,	3.3	1
150	In vitro and in vivo investigation of osteogenic properties of self-contained phosphate-releasing injectable purine-crosslinked chitosan-hydroxyapatite constructs. *Scientific Reports*, **2020**, 10, 11603	4.9	10
149	Functionalization of Contacted Carbon Nanotube Forests by Dip Coating for High-Performance Biocathodes. *ChemElectroChem*, **2020**, 7, 4685-4689	4.3	1
148	Phase-controlled field-effect micromixing using AC electroosmosis. *Microsystems and Nanoengineering*, **2020**, 6, 60	7.7	8
147	An ultra-rapid acoustic micromixer for synthesis of organic nanoparticles. *Lab on A Chip*, **2019**, 19, 3316-3325	7.2	48

146	Frequency hopping dielectrophoresis as a new approach for microscale particle and cell enrichment. *Sensors and Actuators B: Chemical*, **2019**, 286, 493-500	8.5	18
145	A QCM-D sensing strategy for investigating the real-time effects of oxidative stress on the viscoelastic properties of pre-osteoblast cells. *Sensors and Actuators B: Chemical*, **2019**, 293, 235-246	8.5	3
144	Preclinical safety study of a combined therapeutic bone wound dressing for osteoarticular regeneration. *Nature Communications*, **2019**, 10, 2156	17.4	18
143	Capacitive Detection of Insulin Antibody enhanced by AC Electrothermal mixing **2019**,		1
142	Gold nanoparticle amplification strategies for multiplex SPRi-based immunosensing of human pancreatic islet hormones. *Analyst, The*, **2019**, 144, 2541-2549	5	7
141	Interfacial capacitance immunosensing using interdigitated electrodes: the effect of insulation/immobilization chemistry. *Physical Chemistry Chemical Physics*, **2019**, 21, 15787-15797	3.6	12
140	One-step fabrication of apatite-chitosan scaffold as a potential injectable construct for bone tissue engineering. *Carbohydrate Polymers*, **2019**, 203, 60-70	10.3	29
139	Multiplex Surface Plasmon Resonance Imaging-Based Biosensor for Human Pancreatic Islets Hormones Quantification. *Analytical Chemistry*, **2018**, 90, 3132-3139	7.8	25
138	The bioconjugation mechanism of purine cross-linkers affects microstructure and cell response to ultra rapidly gelling purine-chitosan sponges. *Journal of Materials Chemistry B*, **2018**, 6, 602-613	7.3	8
137	Characterization of Nanoscale Loaded Liposomes Produced by 2D Hydrodynamic Flow Focusing. *ACS Biomaterials Science and Engineering*, **2018**, 4, 502-513	5.5	15
136	The Multifaceted Uses and Therapeutic Advantages of Nanoparticles for Atherosclerosis Research. *Materials*, **2018**, 11,	3.5	19
135	IL-10 Gene Transfection in Primary Endothelial Cells via Linear and Branched Poly(□amino ester) Nanoparticles Attenuates Inflammation in Stimulated Macrophages.. *ACS Applied Bio Materials*, **2018**, 1, 917-927	4.1	5
134	Multilineage Constructs for Scaffold-Based Tissue Engineering: A Review of Tissue-Specific Challenges. *Advanced Healthcare Materials*, **2018**, 7, 1700734	10.1	17
133	Washless Method Enables Multilayer Coating of an Aggregation-Prone Nanoparticulate Drug Delivery System with Enhanced Yields, Colloidal Stability, and Scalability. *Macromolecular Bioscience* , **2017**, 17, 1600535	5.5	5
132	Real-time measurement of complex refractive indices with surface plasmon resonance. *Sensors and Actuators B: Chemical*, **2017**, 245, 747-752	8.5	9
131	Dielectric spectroscopy platform to measure MCF10A epithelial cell aggregation as a model for spheroidal cell cluster analysis. *Analyst, The*, **2017**, 142, 1601-1607	5	4
130	Monitoring of bacterial film formation and its breakdown with an angular-based surface plasmon resonance biosensor. *Analyst, The*, **2017**, 142, 2386-2394	5	10
129	Alternating current dielectrophoresis of biomacromolecules: The interplay of electrokinetic effects. *Sensors and Actuators B: Chemical*, **2017**, 252, 391-408	8.5	30

128	Efficient delivery of Noggin siRNA enhances osteoblastogenesis. *Heliyon*, **2017**, 3, e00450	3.6	10
127	Self-Assembled Nanostructures (SANs) **2017**, 391-409		2
126	Selective and High Dynamic Range Assay Format for Multiplex Detection of Pathogenic Pseudomonas aeruginosa, Salmonella typhimurium, and Legionella pneumophila RNAs Using Surface Plasmon Resonance Imaging. *Analytical Chemistry*, **2017**, 89, 7802-7807	7.8	38
125	Composite biopolymers for bone regeneration enhancement in bony defects. *Biomaterials Science*, **2016**, 4, 25-39	7.4	59
124	Magneto-aerotactic bacteria deliver drug-containing nanoliposomes to tumour hypoxic regions. *Nature Nanotechnology*, **2016**, 11, 941-947	28.7	561
123	PolyDOPA Mussel-Inspired Coating as a Means for Hydroxyapatite Entrapment on Polytetrafluoroethylene Surface for Application in Periodontal Diseases. *Macromolecular Bioscience* , **2016**, 16, 288-98	5.5	10
122	A review of digital microfluidics as portable platforms for lab-on a-chip applications. *Lab on A Chip*, **2016**, 16, 2376-96	7.2	254
121	Microfluidic perfusion systems for secretion fingerprint analysis of pancreatic islets: applications, challenges and opportunities. *Lab on A Chip*, **2016**, 16, 409-31	7.2	34
120	A combinatorial approach towards achieving an injectable, self-contained, phosphate-releasing scaffold for promoting biomineralization in critical size bone defects. *Acta Biomaterialia*, **2016**, 29, 389-397	10.8	16
119	Expression of Concern: Nanodimensional and Nanocrystalline Apatites and Other Calcium Orthophosphates in Biomedical Engineering, Biology and Medicine. Materials 2009, 2, 1975-2045. *Materials*, **2016**, 9,	3.5	25
118	Investigation of the Viability, Adhesion, and Migration of Human Fibroblasts in a Hyaluronic Acid/Gelatin Microgel-Reinforced Composite Hydrogel for Vocal Fold Tissue Regeneration. *Advanced Healthcare Materials*, **2016**, 5, 255-65	10.1	25
117	Functionalized gold nanoparticles for surface plasmon resonance detection of legionella pneumophila 16s rRNA **2016**,		1
116	Poly(DL-lactide-co-ε-caprolactone) and poly(DL-lactide-co-glycolide) blends for biomedical application: Physical properties, cell compatibility, and in vitro degradation behavior. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2016**, 65, 741-750	3	6
115	Elaboration of a finite element model of pancreatic islet dielectric response to gap junction expression and insulin release. *Colloids and Surfaces B: Biointerfaces*, **2016**, 148, 474-480	6	1
114	Vocal Fold Tissue Regeneration: Investigation of the Viability, Adhesion, and Migration of Human Fibroblasts in a Hyaluronic Acid/Gelatin Microgel-Reinforced Composite Hydrogel for Vocal Fold Tissue Regeneration (Adv. Healthcare Mater. 2/2016). *Advanced Healthcare Materials*, **2016**, 5, 188-188	10.1	5
113	Small Players Ruling the Hard Game: siRNA in Bone Regeneration. *Journal of Bone and Mineral Research*, **2016**, 31, 475-87	6.3	14
112	SN-38 active loading in poly(lactic-co-glycolic acid) nanoparticles and assessment of their anticancer properties on COLO-205 human colon adenocarcinoma cells. *Journal of Microencapsulation*, **2015**, 32, 784-93	3.4	7
111	Dielectric spectroscopy for monitoring human pancreatic islet differentiation within cell-seeded scaffolds in a perfusion bioreactor system. *Analyst, The*, **2015**, 140, 6295-305	5	5

110	Rapid, one-step fabrication and loading of nanoscale 1,2-distearoyl-sn-glycero-3-phosphocholine liposomes in a simple, double flow-focusing microfluidic device. *Biomicrofluidics*, **2015**, 9, 046501	3.2	6
109	The potential roles of nanobiomaterials in distraction osteogenesis. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 1-18	6	27
108	Purine-crosslinked injectable chitosan sponges promote oligodendrocyte progenitor cells' attachment and differentiation. *Biomaterials Science*, **2015**, 3, 279-87	7.4	22
107	Microfluidic platform for assessing pancreatic islet functionality through dielectric spectroscopy. *Biomicrofluidics*, **2015**, 9, 044125	3.2	12
106	Motility imaging via optical coherence phase microscopy enables label-free monitoring of tissue growth and viability in 3D tissue-engineering scaffolds. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 641-5	4.4	12
105	Rapid and specific SPRi detection of L. pneumophila in complex environmental water samples. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 5541-5	4.4	23
104	Surface plasmon resonance biosensor as a tool for the measurement of complex refractive indices. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 6413-6	0.9	
103	Rapid and multiplex detection of Legionella's RNA using digital microfluidics. *Lab on A Chip*, **2015**, 15, 1609-18	7.2	22
102	Microwave-assisted synthesis of surface-enhanced Raman scattering nanoprobes for cellular sensing. *Colloids and Surfaces B: Biointerfaces*, **2014**, 122, 617-622	6	7
101	2-Dioleoyl-sn-glycero-3-phosphocholine-based nanoliposomes as an effective delivery platform for 17β-estradiol. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 86, 369-75	5.7	10
100	Computer 3D controlled bacterial transports and aggregations of microbial adhered nano-components. *Journal of Micro-Bio Robotics*, **2014**, 9, 23-28	1.4	10
99	Sub-femtomole detection of 16s rRNA from Legionella pneumophila using surface plasmon resonance imaging. *Biosensors and Bioelectronics*, **2014**, 52, 129-35	11.8	44
98	Investigation of probiotic bacteria as dental caries and periodontal disease biotherapeutics. *Beneficial Microbes*, **2014**, 5, 447-60	4.9	22
97	Design and analysis of a spectro-angular surface plasmon resonance biosensor operating in the visible spectrum. *Review of Scientific Instruments*, **2014**, 85, 093107	1.7	20
96	Injectable chitosan-based scaffolds in regenerative medicine and their clinical translatability. *Advanced Healthcare Materials*, **2014**, 3, 1529-45	10.1	32
95	A Novel Injectable Chitosan Sponge Containing Brain Derived Neurotrophic Factor (BDNF) to Enhance Human Oligodendrocyte Progenitor Cells (OPC) Differentiation. *Materials Research Society Symposia Proceedings*, **2014**, 1621, 127-132		
94	Nanotubes and nanoparticles based 3D scaffolds for the construction of high performance Biosensors. *Materials Research Society Symposia Proceedings*, **2014**, 1700, 97-102		
93	Polyelectrolyte multilayer coating of 3D scaffolds enhances tissue growth and gene delivery: non-invasive and label-free assessment. *Advanced Healthcare Materials*, **2014**, 3, 572-80	10.1	20

92	Genipin-crosslinked chitosan/poly-L-lysine gels promote fibroblast adhesion and proliferation. *Carbohydrate Polymers*, **2014**, 108, 91-8	10.3	60
91	A miniaturized multipurpose platform for rapid, label-free, and simultaneous separation, patterning, and in vitro culture of primary and rare cells. *Advanced Healthcare Materials*, **2014**, 3, 253-60	10.1	17
90	Design of a universal biointerface for sensitive, selective, and multiplex detection of biomarkers using surface plasmon resonance imaging. *Analyst, The*, **2013**, 138, 6052-62	5	37
89	Substrate-mediated gene delivery from glycol-chitosan/hyaluronic acid polyelectrolyte multilayer films. *ACS Applied Materials & Interfaces*, **2013**, 5, 524-31	9.5	37
88	Separation of rare oligodendrocyte progenitor cells from brain using a high-throughput multilayer thermoplastic-based microfluidic device. *Biomaterials*, **2013**, 34, 5588-93	15.6	23
87	Rapid, guanosine 5'-diphosphate-induced, gelation of chitosan sponges as novel injectable scaffolds for soft tissue engineering and drug delivery applications. *Advanced Healthcare Materials*, **2013**, 2, 1126-30	10.1	20
86	Dielectric spectroscopy as a viable biosensing tool for cell and tissue characterization and analysis. *Biosensors and Bioelectronics*, **2013**, 49, 348-59	11.8	120
85	Platelet adhesion and human umbilical vein endothelial cell cytocompatibility of biodegradable segmented polyurethanes prepared with 4,4'-methylene bis(cyclohexyl isocyanate), poly(caprolactone) diol and butanediol or dithioerythritol as chain extenders. *Journal of*	2.9	7
84	Enhanced MC3T3 preosteoblast viability and adhesion on polyelectrolyte multilayer films composed of glycol-modified chitosan and hyaluronic acid. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 518-26	5.4	14
83	Liposome technology for cardiovascular disease treatment and diagnosis. *Expert Opinion on Drug Delivery*, **2012**, 9, 249-65	8	31
82	Patterning multiplex protein microarrays in a single microfluidic channel. *Analytical Chemistry*, **2012**, 84, 1012-8	7.8	54
81	Dielectric spectroscopy for non-invasive monitoring of epithelial cell differentiation within three-dimensional scaffolds. *Physics in Medicine and Biology*, **2012**, 57, 5097-112	3.8	18
80	Oligodendrocyte-protection and remyelination post-spinal cord injuries: a review. *Progress in Neurobiology*, **2012**, 96, 322-39	10.9	76
79	Design and Development of Light-Sensitive Chitosan-Based Nanocarriers for Gene Delivery. *Advances in Science and Technology*, **2012**, 86, 75-80	0.1	1
78	Microfluidic designs and techniques using lab-on-a-chip devices for pathogen detection for point-of-care diagnostics. *Lab on A Chip*, **2012**, 12, 3249-66	7.2	333
77	Biocompatibility, Metals Ions, and Corrosion Products **2012**, 47-55		1
76	Nanostructured digital microfluidics for enhanced surface plasmon resonance imaging. *Biosensors and Bioelectronics*, **2011**, 26, 2053-9	11.8	64
75	Designed biointerface using near-infrared quantum dots for ultrasensitive surface plasmon resonance imaging biosensors. *Analytical Chemistry*, **2011**, 83, 5222-9	7.8	63

74	Long-term in vitro human pancreatic islet culture using three-dimensional microfabricated scaffolds. *Biomaterials*, **2011**, 32, 1536-42	15.6	89
73	Determination of surface-induced platelet activation by applying time-dependency dissipation factor versus frequency using quartz crystal microbalance with dissipation. *Journal of the Royal Society Interface*, **2011**, 8, 988-97	4.1	22
72	Two-dimensional and three-dimensional viability measurements of adult stem cells with optical coherence phase microscopy. *Journal of Biomedical Optics*, **2011**, 16, 086003	3.5	13
71	Advances in using chitosan-based nanoparticles for in vitro and in vivo drug and gene delivery. *Expert Opinion on Drug Delivery*, **2010**, 7, 1191-207	8	154
70	Adhesion based detection, sorting and enrichment of cells in microfluidic Lab-on-Chip devices. *Lab on A Chip*, **2010**, 10, 3043-53	7.2	128
69	Integration and detection of biochemical assays in digital microfluidic LOC devices. *Lab on A Chip*, **2010**, 10, 418-31	7.2	150
68	A hybrid rhOP-1 delivery system enhances new bone regeneration and consolidation in a rabbit model of distraction osteogenesis. *Growth Factors*, **2010**, 28, 44-55	1.6	23
67	Pancreatic islet culture and preservation strategies: advances, challenges, and future outlook. *Cell Transplantation*, **2010**, 19, 1523-35	4	49
66	Effect of chromium and cobalt ions on the expression of antioxidant enzymes in human U937 macrophage-like cells. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 419-25	5.4	5
65	Investigation of the binding of Cr(III) complexes to bovine and human serum proteins: a proteomic approach. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 214-22	5.4	34
64	The effect of extracellular matrix components on the preservation of human islet function in vitro. *Biomaterials*, **2010**, 31, 1676-82	15.6	114
63	Biocompatibility and safety of a hybrid core-shell nanoparticulate OP-1 delivery system intramuscularly administered in rats. *Biomaterials*, **2010**, 31, 2746-54	15.6	28
62	Rigorous Coupled-Wave Analysis of Surface Plasmon Enhancement from Patterned Immobilization on Nanogratings. *Journal of Sensors*, **2009**, 2009, 1-7	2	6
61	Imaging and organelle distribution of fluorescent InGaP/ZnS nanoparticles in glial cells. *Nanomedicine*, **2009**, 4, 747-61	5.6	15
60	Modulating the release kinetics through the control of the permeability of the layer-by-layer assembly: a review. *Expert Opinion on Drug Delivery*, **2009**, 6, 585-97	8	29
59	Titanium crystal orientation as a tool for the improved and regulated cell attachment. *Journal of Biomedical Materials Research - Part A*, **2009**, 91, 656-62	5.4	16
58	Modulated release of OP-1 and enhanced preosteoblast differentiation using a core-shell nanoparticulate system. *Journal of Biomedical Materials Research - Part A*, **2009**, 91, 919-28	5.4	26
57	Factors influencing the transfection efficiency of ultra low molecular weight chitosan/hyaluronic acid nanoparticles. *Biomaterials*, **2009**, 30, 2625-31	15.6	92

56	Delivery of recombinant bone morphogenetic proteins for bone regeneration and repair. Part A: Current challenges in BMP delivery. *Biotechnology Letters*, **2009**, 31, 1817-24	3	183
55	Delivery of recombinant bone morphogenetic proteins for bone regeneration and repair. Part B: Delivery systems for BMPs in orthopaedic and craniofacial tissue engineering. *Biotechnology Letters* , **2009**, 31, 1825-35	3	129
54	Effect of genipin cross-linking on the cellular adhesion properties of layer-by-layer assembled polyelectrolyte films. *Biomaterials*, **2009**, 30, 4463-70	15.6	94
53	The molecular structure of complexes formed by chromium or cobalt ions in simulated physiological fluids. *Biomaterials*, **2009**, 30, 460-7	15.6	9
52	Biochip functionalization using electrowetting-on-dielectric digital microfluidics for surface plasmon resonance imaging detection of DNA hybridization. *Biosensors and Bioelectronics*, **2009**, 24, 2218-24	11.8	114
51	Enhanced SPR response from patterned immobilization of surface bioreceptors on nano-gratings. *Biosensors and Bioelectronics*, **2009**, 24, 3043-8	11.8	54
50	Silencing red blood cell recognition toward Anti-A antibody by means of polyelectrolyte layer-by-layer assembly in a two-dimensional model system. *Langmuir*, **2009**, 25, 14071-8	4	24
49	Two-dimensional droplet-based surface plasmon resonance imaging using electrowetting-on-dielectric microfluidics. *Lab on A Chip*, **2009**, 9, 473-5	7.2	66
48	Nanoimprinted plastic substrates for enhanced surface plasmon resonance imaging detection. *Optics Express*, **2009**, 17, 20386-92	3.3	20
47	Electrochemical Behavior of (001), (100) and (110) Ti Single Crystals under Simulated Body Fluid Condition. *Ceramic Transactions*, **2008**, 442-450	0.1	
46	A novel OP-1 delivery system for the potential acceleration of regenerate formation and consolidation in distraction osteogenesis. *Bone*, **2008**, 43, S51	4.7	3
45	Cell line-dependent internalization pathways and intracellular trafficking determine transfection efficiency of nanoparticle vectors. *European Journal of Pharmaceutics and Biopharmaceutics*, **2008**, 68, 676-87	5.7	185
44	Quantifying blood platelet morphological changes by dissipation factor monitoring in multilayer shells. *Langmuir*, **2008**, 24, 3294-9	4	17
43	Quantification of low-picomolar concentrations of TNF-alpha in serum using the dual-network microfluidic ELISA platform. *Analytical Chemistry*, **2008**, 80, 5160-7	7.8	39
42	Biomimetic hemocompatible coatings through immobilization of hyaluronan derivatives on metal surfaces. *Langmuir*, **2008**, 24, 11834-41	4	29
41	EFFECTS OF CRYSTAL SIZE AND ORIENTATION OF SUBSTRATES ON CELL ADHESION: IMPLICATION FOR MEDICAL IMPLANTS. *International Journal of Modern Physics B*, **2008**, 22, 3069-3081	1.1	9
40	Review of stent coating strategies: clinical insights. *Materials Science and Technology*, **2008**, 24, 1127-1143	1.5	30
39	The influence of isocyanurate content on the bioperformance of hydrocarbon-based polyurethanes. *Journal of Biomaterials Science, Polymer Edition*, **2008**, 19, 525-40	3.5	3

38	Modulating the Release Kinetics of Paclitaxel from Membrane-Covered Stents Using Different Loading Strategies. *Materials*, **2008**, 1, 25-43	3.5	4
37	Protein release kinetics for core-shell hybrid nanoparticles based on the layer-by-layer assembly of alginate and chitosan on liposomes. *Biomaterials*, **2008**, 29, 1207-15	15.6	221
36	Fabrication and characterization of patterned immobilization of quantum dots on metallic nano-gratings. *Biosensors and Bioelectronics*, **2008**, 24, 976-81	11.8	17
35	Nondestructive online in vitro monitoring of pre-osteoblast cell proliferation within microporous polymer scaffolds. *IEEE Transactions on Nanobioscience*, **2007**, 6, 249-58	3.4	7
34	InGaP@ZnS-Enriched Chitosan Nanoparticles: A Versatile Fluorescent Probe for Deep-Tissue Imaging. *Advanced Functional Materials*, **2007**, 17, 3724-3730	15.6	38
33	Nanostructuring of a Titanium Material by High-Pressure Torsion Improves Pre-Osteoblast Attachment. *Advanced Materials*, **2007**, 19, 1069-1073	24	106
32	Towards integrated and sensitive surface plasmon resonance biosensors: a review of recent progress. *Biosensors and Bioelectronics*, **2007**, 23, 151-60	11.8	596
31	Cellular and molecular interactions between MC3T3-E1 pre-osteoblasts and nanostructured titanium produced by high-pressure torsion. *Biomaterials*, **2007**, 28, 3887-95	15.6	162
30	Enhanced surface plasmon resonance imaging detection of DNA hybridization on periodic gold nanoposts. *Optics Letters*, **2007**, 32, 3092-4	3	75
29	Microfluidic ELISA on non-passivated PDMS chip using magnetic bead transfer inside dual networks of channels. *Lab on A Chip*, **2007**, 7, 1546-52	7.2	56
28	Effects of alginate inclusion on the vector properties of chitosan-based nanoparticles. *Journal of Controlled Release*, **2006**, 115, 354-61	11.7	119
27	Immunohistochemical localization of bone morphogenetic protein-signaling Smads during long-bone distraction osteogenesis. *Journal of Histochemistry and Cytochemistry*, **2006**, 54, 407-15	3.4	34
26	Early injection of OP-1 during distraction osteogenesis accelerates new bone formation in rabbits. *Growth Factors*, **2006**, 24, 172-83	1.6	28
25	Biorecognition through layer-by-layer polyelectrolyte assembly: in-situ hybridization on living cells. *Biomacromolecules*, **2006**, 7, 2742-50	6.9	101
24	Enzymatically-generated fluorescent detection in micro-channels with internal magnetic mixing for the development of parallel microfluidic ELISA. *Lab on A Chip*, **2006**, 6, 555-60	7.2	96
23	Effect of cobalt and chromium ions on human MG-63 osteoblasts in vitro: morphology, cytotoxicity, and oxidative stress. *Biomaterials*, **2006**, 27, 3351-60	15.6	116
22	The significance of crystallographic texture of titanium alloy substrates on pre-osteoblast responses. *Biomaterials*, **2006**, 27, 3532-9	15.6	43
21	In vitro thrombogenicity investigation of new water-dispersible polyurethane anionomers bearing carboxylate groups. *Journal of Biomaterials Science, Polymer Edition*, **2005**, 16, 335-51	3.5	19

20	Delivery platform for hydrophobic drugs: prodrug approach combined with self-assembled multilayers. *Journal of the American Chemical Society*, **2005**, 127, 1626-7	16.4	185
19	Effect of experimental parameters on the formation of alginate-chitosan nanoparticles and evaluation of their potential application as DNA carrier. *Journal of Biomaterials Science, Polymer Edition*, **2005**, 16, 43-56	3.5	166
18	Three-dimensional growth of differentiating MC3T3-E1 pre-osteoblasts on porous titanium scaffolds. *Biomaterials*, **2005**, 26, 7319-28	15.6	117
17	Real-time QCM-D immunoassay through oriented antibody immobilization using cross-linked hydrogel biointerfaces. *Langmuir*, **2005**, 21, 5966-73	4	42
16	Biodegradable membrane-covered stent from chitosan-based polymers. *Journal of Biomedical Materials Research - Part A*, **2005**, 75, 556-66	5.4	42
15	Magnetic Resonance Signal-Enhancing Self-Assembled Coating for Endovascular Devices. *Advanced Materials*, **2005**, 17, 826-830	24	15
14	Adhesion Kinetics of MC3T3-E1 Pre-Osteoblasts to Osteoconductive Porous Titanium Scaffolds. *Materials Research Society Symposia Proceedings*, **2004**, 823, W12.9.1		
13	Toward resolving the challenges of sepsis diagnosis. *Clinical Chemistry*, **2004**, 50, 1301-14	5.5	144
12	Radionuclides-hyaluronan-conjugate thromboresistant coatings to prevent in-stent restenosis. *Biomaterials*, **2004**, 25, 3895-905	15.6	29
11	Hemocompatibilty of new ionic polyurethanes: influence of carboxylic group insertion modes. *Biomaterials*, **2004**, 25, 3473-83	15.6	55
10	Complex permittivity measurement as a new noninvasive tool for monitoring in vitro tissue engineering and cell signature through the detection of cell proliferation, differentiation, and pretissue formation. *IEEE Transactions on Nanobioscience*, **2004**, 3, 243-50	3.4	22
9	Towards on-line monitoring of cell growth in microporous scaffolds: Utilization and interpretation of complex permittivity measurements. *Biotechnology and Bioengineering*, **2003**, 84, 343-50	4.9	22
8	Nanocoatings onto arteries via layer-by-layer deposition: toward the in vivo repair of damaged blood vessels. *Journal of the American Chemical Society*, **2003**, 125, 7494-5	16.4	172
7	Bioactive coatings of endovascular stents based on polyelectrolyte multilayers. *Biomacromolecules*, **2003**, 4, 1564-71	6.9	280
6	Monitoring of stem cell proliferation and differentiation using a permittivity-responsive biointerface. *Materials Research Society Symposia Proceedings*, **2003**, 773, 7121		1
5	Effect of experimental parameters on the in vitro release kinetics of transforming growth factor beta1 from coral particles. *Journal of Biomedical Materials Research Part B*, **2002**, 59, 403-10		17
4	Nitinol versus stainless steel stents: acute thrombogenicity study in an ex vivo porcine model. *Biomaterials*, **2002**, 23, 2997-3005	15.6	114
3	In vitro and in vivo biocompatibility of chitosan-xanthan polyionic complex. *Journal of Biomedical Materials Research Part B*, **2000**, 51, 107-16		108

2	Study of biodegradation behavior of chitosan-xanthan microspheres in simulated physiological media. *Journal of Biomedical Materials Research Part B*, **2000**, 53, 592-9	79
1	Plasma-based sterilization: Effect on surface and bulk properties and hydrolytic stability of reprocessed polyurethane electrophysiology catheters **2000**, 52, 774	1