Citation Report
List of articles citing

Tissue engineering

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#	Paper	IF	Citations
2226	3D scaffold fabrication by mask projection excimer laser stereolithography. **2014**, 4, 2032		
2225	Introducing materiomics. 1-12		
2224	Bioassay development. 67-84		
2223	A versatile technique for patterning biomolecules onto glass coverslips. **1993**, 50, 385-97		120
2222	Tissue engineering.		3
2221	Commentary on Cell Transplantation in Liver-Directed Gene Therapy. **1993**, 2, 409-410		7
2220	Osteoblast Adhesion on Biodegradable Polymer Substrates. **1993**, 331, 121		
2219	Stabilizing Fiber-Based Cell Delivery Devices by Physically Bonding Adjacent Fibers. **1993**, 331, 47		1
2218	The Role of Hepatotrophic Stimulation in Heterotopic Hepatocyte Transplantation. **1993**, 331, 59		
2217	Future development of cell therapy in Japan. **1994**, 3 Suppl 1, S5		
2216	The development of three-dimensional in vitro human tissue models. **1994**, 13, 853-9		12
2215	Electrically conducting polymers can noninvasively control the shape and growth of mammalian cells. **1994**, 91, 3201-4		448
2214	Safety and toxicity of catheter gene delivery to the pulmonary vasculature in a patient with metastatic melanoma. **1994**, 5, 1089-94		104
2213	Genetically modified skin to treat disease: potential and limitations. **1994**, 103, 76S-84S		54
2212	Mechanism of lactide polymerization in the presence of stannous octoate: The effect of hydroxy and carboxylic acid substances. **1994**, 32, 2965-2970		160
2211	Osteoblast function on synthetic biodegradable polymers. **1994**, 28, 1445-53		206
2210	Prospects for application of biotechnology-derived biomaterials. **1994**, 56, 210-24		7

2209	Bone tissue engineering: the role of interstitial fluid flow. **1994**, 43, 573-81	224
2208	Mini-review: Islet transplantation to create a bioartificial pancreas. **1994**, 43, 673-7	57
2207	The in vitro growth of a three-dimensional human dermal replacement using a single-pass perfusion system. **1994**, 43, 740-6	16
2206	Collagen fabrics as biomaterials. **1994**, 43, 781-91	155
2205	Spatial distribution of mammalian cells dictated by material surface chemistry. **1994**, 43, 792-800	91
2204	Design of nasoseptal cartilage replacements synthesized from biodegradable polymers and chondrocytes. **1994**, 15, 774-8	161
2203	Preparation and characterization of poly(l-lactic acid) foams. **1994**, 35, 1068-1077	1015
2202	Biodegradable polymer scaffolds for tissue engineering. **1994**, 12, 689-93	770
2201	Cell-binding peptides conjugated to poly(ethylene glycol) promote neural cell aggregation. **1994**, 12, 797-801	42
2200	Temporomandibular joint disc replacement made by tissue-engineered growth of cartilage. **1994**, 52, 1172-7; discussion 1177-8	108
2199	Transport Phenomena in Tumors. **1994**, 19, 129-200	19
2198	Pore morphology effects on the fibrovascular tissue growth in porous polymer substrates. **1994**, 3, 339-43	267
2197	Design and fabrication of biodegradable polymer devices to engineer tubular tissues. **1994**, 3, 203-10	138
2196	Integrating Cell Transplantation and Controlled Drug Delivery Technologies to Engineer Liver Tissue. **1995**, 385, 43	2
2195	Integrating cell Transplantation and Controlled Drug Delivery Technologies to Engineer Liver Tissue. **1995**, 394, 105	4
2194	Poly(L-Lactic Acid-Co-Aspartic Acid): Interactive Polymers for Tissue Engineering. **1995**, 394, 77	3
2193	Engineered Bone from Polyglycolic Acid Polymer Scaffold and Periosteum. **1995**, 394, 91	13
2192	Electric Field Mediated Deposition of Bioactive Polypeptides on Neural Prosthetic Devices. **1995**, 414, 23	9

2191	Dynamics of Fibrovascular Tissue Ingrowth in Hydrogel Foams. **1995**, 4, 275-279	18
2190	Tracer Technique to Measure in Vivo Chemical Transport Rates within an Implantable Cell Transplantation Device. **1995**, 4, 201-217	3
2189	Biomaterials and biomedical engineering. **1995**, 50, 4109-4121	55
2188	Biodegradable sponges for hepatocyte transplantation. **1995**, 29, 959-65	158
2187	Development of fibroblast-seeded ligament analogs for ACL reconstruction. **1995**, 29, 1363-71	169
2186	Development of biomechanical properties and morphogenesis of in vitro tissue engineered cartilage. **1995**, 29, 1587-95	101
2185	Biomaterials in tissue engineering. **1995**, 13, 565-76	633
2184	Polymer science for macroencapsulation of cells for central nervous system transplantation. **1995**, 25, 207-227	46
2183	Pore strain behaviour of collagen-glycosaminoglycan analogues of extracellular matrix. **1995**, 16, 777-83	23
2182	Enzymatic and chemoenzymatic approaches to synthesis of sugar-based polymer and hydrogels. **1995**, 28, 15-21	72
2181	Molecular/cell engineering approach to autocrine ligand control of cell function. **1995**, 23, 208-15	13
2180	1994 Whitaker Lecture: polymers for drug delivery and tissue engineering. **1995**, 23, 101-11	54
2179	The use of a collagen sheet as a disc replacement in the rabbit temporomandibular joint. **1995**, 53, 535-42; discussion 543	11
2178	Modeling monomer release from bioerodible polymers. **1995**, 33, 55-69	77
2177	A stereotypic, transplantable liver tissue-culture system. **1995**, 54, 65-91	17
2176	Studies on engineered autocrine systems: requirements for ligand release from cells producing an artificial growth factor. **1995**, 1, 81-94	12
2175	Degradation, Structure and Properties of Fibrous Nonwoven Poly(Glycolic Acid) Scaffolds for Tissue Engineering. **1995**, 394, 99	32
2174	Importance of Nonhomogeneous Concentration Distributions Near Walls in Tissue Engineering Bioreactors. **1995**, 34, 3239-3245	6

2173	Tissue engineering heart valves: valve leaflet replacement study in a lamb model. **1995**, 60, S513-6	328
2172	Biodegradable polymer scaffolds to regenerate organs. **1995**, 245-274	234
2171	Porous gelatin matrix for tissue engineering: micro-structure mimicry of collagen based extra cellular matrix.	
2170	Entrapment of hepatocyte spheroids in a hollow fiber bioreactor as a potential bioartificial liver. **1995**, 1, 29-40	51
2169	Fabricating tubular devices from polymers of lactic and glycolic Acid for tissue engineering. **1995**, 1, 107-18	74
2168	Designer genes and critical care nursing: the future is now. **1995**, 24, 228-37; quiz 237-9	4
2167	Tissue engineering: biomedical applications. **1995**, 1, 151-61	103
2166	Tissue engineering: from biology to biological substitutes. **1995**, 1, 3-13	280
2165	Microencapsulation--an alternative approach to gene therapy. **1996**, 17, 35-43	9
2164	Liver transplantation and its long-term management in children. **1996**, 43, 99-124	18
2163	Mechanisms of polymer degradation and erosion. **1996**, 117-128	17
2162	Tissue Engineering: Skin. **1996**, 265-274	2
2161	Transplantation of human endothelial cell monolayer on artificial vascular prosthesis: the effect of growth-support surface chemistry, cell seeding density, ECM protein coating, and growth factors. **1996**, 24, 51-63	26
2160	Surface Analysis of Biodegradable Polymer Blends of Poly(sebacic anhydride) and Poly(dl-lactic acid). **1996**, 29, 2205-2212	81
2159	Cross-linking of gelatin with carbodiimides. **1996**, 2, 307-13	33
2158	Lactide-Based Poly(ethylene glycol) Polymer Networks for Scaffolds in Tissue Engineering. **1996**, 29, 5233-5235	95
2157	Synthesis and Characterization of Degradable Anhydride-co-imide Terpolymers Containing Trimellitylimido-l-tyrosine: Novel Polymers for Drug Delivery. **1996**, 29, 5279-5287	36
2156	Adenoviral-mediated gene transfer into guinea pig cochlear cells in vivo. **1996**, 207, 137-41	123

2155	Testing the eukaryotic promoters for efficient expression of exogenous genes in chondrocytes and synoviocytes. **1996**, 395, 179-82	
2154	Micromechatronics in medicine. **1996**, 1, 137-148	41
2153	Tissue-engineered skeletal muscle organoids for reversible gene therapy. **1996**, 7, 2195-200	122
2152	Femoral shaft reconstruction using tissue-engineered growth of bone. **1996**, 25, 223-8	85
2151	Biomaterials. **1996**, 1, 387-391	7
2150	Tissue engineering with biodegradable polymer matrices.	0
2149	Plastic Surgery Research. **1996**, 23, 173-182	
2148	Artificial Organs. **1996**, 389-412	1
2147	Application of Gene and Cell Therapies in the Tissue Engineering of a Bioartificial Kidney. **1996**, 19, 215-217	6
2146	3D Micro-Tomographic imaging and Quantitative Morphometry for the Nondestructive Evaluation of Porous Biomaterials. **1996**, 461, 217	8
2145	Stabilized polyglycolic acid fibre-based tubes for tissue engineering. **1996**, 129-138	3
2144	In vitro cell response to differences in poly-L-lactide crystallinity. **1996**, 31, 17-30	24
2143	Motility behavior of hepatocytes on extracellular matrix substrata during aggregation. **1996**, 50, 392-403	36
2142	Efficient assembly of rat hepatocyte spheroids for tissue engineering applications. **1996**, 50, 404-15	116
2141	Tissue engineering lamb heart valve leaflets. **1996**, 50, 562-7	65
2140	Biological and physical factors influencing the successful engraftment of a cultured human skin substitute. **1996**, 52, 3-14	26
2139	Engineering dynamics of growth factors and other therapeutic ligands. **1996**, 52, 61-80	11
2138	Cell-substrate and cell-cell interactions differently regulate cytoskeletal and extracellular matrix protein gene expression. **1996**, 32, 677-86	29

2137	Long-term storage of tissues by cryopreservation: critical issues. **1996**, 17, 243-56	435
2136	Transport characterization of membranes for immunoisolation. **1996**, 17, 257-66	98
2135	Magnetically orientated tissue-equivalent tubes: application to a circumferentially orientated media-equivalent. **1996**, 17, 349-57	150
2134	Toward development of an implantable tissue engineered liver. **1996**, 17, 365-72	112
2133	Mechanisms of polymer degradation and erosion. **1996**, 17, 103-14	1310
2132	Computer-aided design of bioerodible devices with optimal release characteristics: a cellular automata approach. **1996**, 17, 125-35	79
2131	Effect of basic fibroblast growth factor on cartilage regeneration in chondrocyte-seeded collagen sponge scaffold. **1996**, 17, 155-62	162
2130	Biochemical surface modification of Co-Cr-Mo. **1996**, 17, 217-22	46
2129	Novel approach to fabricate porous sponges of poly(D,L-lactic-co-glycolic acid) without the use of organic solvents. **1996**, 17, 1417-22	911
2128	Slow release devices: STD protection at last?. **1996**, 14, 437-8	0
2127	Engineering epidermal growth factor for enhanced mitogenic potency. **1996**, 14, 1696-9	92
2126	Tissue engineering using synthetic extracellular matrices. **1996**, 2, 824-6	200
2125	Tethered epidermal growth factor as a paradigm for growth factor-induced stimulation from the solid phase. **1996**, 2, 1022-7	296
2124	Engineering dental pulp-like tissue in vitro. **1996**, 12, 865-8	111
2123	Growth-Factor Delivery in Tissue Engineering. **1996**, 21, 62-65	26
2122	The importance of new processing techniques in tissue engineering. **1996**, 21, 28-32	172
2121	Soft-Tissue Analogue Design and Tissue Engineering of Liver. **1996**, 21, 52-54	5
2120	Tissue Engineering of Bone by Osteoinductive Biomaterials. **1996**, 21, 36-39	39

2119	Guided bone growth in sheep: a model for tissue-engineered bone flaps. **1996**, 2, 51-9	29
2118	Quantification and regulation of cell migration. **1996**, 2, 1-16	22
2117	The use of biologic response modifiers in human clinical trials. **1997**, 2, 259-67	6
2116	Consent, confidentiality, and research. **1997**, 336, 869-70	32
2115	Acute renal failure--the promise of new therapies. **1997**, 336, 870-1	12
2114	Enhanced Induction of Engineered Bone with Basic Fibroblast Growth Factor. **1997**, 3, 303-308	7
2113	Characterization of Silk-like Proteins and Processing for Biomedical Applications. **1997**, 371-423	2
2112	Noninvasive polarimetric measurement of glucose in cell culture media. **1997**, 2, 275-81	26
2111	Synthesis and Properties of Biodegradable Polymers Used as Synthetic Matrices for Tissue Engineering. **1997**, 51-82	60
2110	The History of Tissue Engineering Using Synthetic Biodegradable Polymer Scaffolds and Cells. **1997** , 1-14	25
2109	Highly Porous Polymer Matrices as a Three-Dimensional Culture System for Hepatocytes. **1997**, 6, 463-468	70
2108	Tissue engineering of cartilage in space. **1997**, 94, 13885-90	336
2107	Collagen fiber architecture of a cultured dermal tissue. **1997**, 119, 124-7	13
2106	Effective intercellular communication distances are determined by the relative time constants for cyto/chemokine secretion and diffusion. **1997**, 94, 12258-62	155
2105	Synthesis and Characterization of Poly[N-Vinyl-2-Pyrrolidone-Polyethylene Glycol Diacrylate] Copolymeric Hydrogels for Drug Delivery. **1997**, 34, 2461-2470	4
2104	Cell Adhesion Strength Increases Linearly with Adsorbed Fibronectin Surface Density. **1997**, 3, 197-206	39
2103	Biotechnology Biomaterials: A Global Regulatory Perspective for Tissue-Engineered Products: Summary Report and Future Directions. **1997**, 3, 115-120	3
2102	Synthesis and Characterization of Photo-Cross-Linked Polymers Based on Poly(l-lactic acid-co-l-aspartic acid). **1997**, 30, 2182-2184	76

2101	A Combinatorial Approach for Polymer Design. **1997**, 119, 4553-4554	221
2100	Highly porous polymer matrices as a three-dimensional culture system for hepatocytes. **1997**, 6, 463-8	68
2099	Synthesis of Polymer Network Scaffolds from l-Lactide and Poly(ethylene glycol) and Their Interaction with Cells. **1997**, 30, 6077-6083	151
2098	Concerning the stereochemistry of poly(lactide), PLA. Previous assignments are shown to be incorrect and a new assignment is proposed. **1997**, 1999	41
2097	Advances in tissue engineering of blood vessels and other tissues. **1997**, 5, 303-6	161
2096	A scientific basis for the biologic regeneration of synovial joints. **1997**, 83, 167-9	12
2095	The effect of donor and recipient age on engraftment of tissue-engineered liver. **1997**, 32, 357-60	26
2094	Rebâir les tissus. **1997**, 1997, 18-20	
2093	SYNTHETIC OSTEOCHONDRAL REPLACEMENT OF THE FEMORAL ARTICULAR SURFACE. **1997**, 79-B, 1003-1007	5
2092	Freezing Characteristics of Isolated Pig and Human Hepatocytes. **1997**, 6, 173-183	13
2091	Weaving cartilage at zero g: the reality of tissue engineering in space. **1997**, 94, 13380-2	9
2090	Adrenocortical tissue formed by transplantation of normal clones of bovine adrenocortical cells in scid mice replaces the essential functions of the animals' adrenal glands. **1997**, 3, 978-83	85
2089	Integrin-ligand binding properties govern cell migration speed through cell-substratum adhesiveness. **1997**, 385, 537-40	1187
2088	Producing prefabricated tissues and organs via tissue engineering. **1997**, 16, 73-80	9
2087	A novel method for fabrication of biodegradable scaffolds with high compression moduli. **1997**, 8, 707-12	19
2086	Bioartificial organs I: Silica gel encapsulated pancreatic islets for the treatment of diabetes mellitus. **1997**, 8, 635-639	56
2085	Importance of parenchymal:stromal cell ratio for the ex vivo reconstitution of human hematopoiesis. **1997**, 15, 305-13	47
2084	Strategies for cell engineering in tissue repair. **1997**, 5, 212-21	19

2083	Novel alginate sponges for cell culture and transplantation. **1997**, 18, 583-90	428
2082	Polypeptide growth factors: targeted delivery systems. **1997**, 18, 1201-25	234
2081	Composition of cartilagenous tissue with mineralized and non-mineralized zones formed in vitro. **1997**, 18, 1425-31	50
2080	Preliminary development of a collagen-PLA composite for ACL reconstruction. **1997**, 63, 1423-1428	66
2079	Characterization and development of RGD-peptide-modified poly(lactic acid-co-lysine) as an interactive, resorbable biomaterial. **1997**, 35, 513-23	240
2078	Long-term engraftment of hepatocytes transplanted on biodegradable polymer sponges. **1997**, 37, 413-20	196
2077	Mapping of oxygen tension and cell distribution in a hollow-fiber bioreactor using magnetic resonance imaging. **1997**, 56, 56-61	24
2076	Analysis of cell growth in a polymer scaffold using a moving boundary approach. **1997**, 56, 422-32	42
2075	Cell therapy in kidney failure. **1998**, 28, 1-8	
2074	Gel beads composed of collagen reconstituted in alginate. **1998**, 12, 21-23	10
2073	Role of morphogenetic proteins in skeletal tissue engineering and regeneration. **1998**, 16, 247-52	668
2072	New encounters with the Sphinx. **1998**, 4, 272-3	1
2071	Growing tissues in microgravity. **1998**, 4, 901-7	321
2070	In vitro and in vivo models for the reconstruction of intercellular signaling. **1998**, 842, 188-94	23
2069	Mechanical properties of human skin equivalents submitted to cyclic tensile forces. **1998**, 4, 228-36	12
2068	Culture of organized cell communities. **1998**, 33, 15-30	204
2067	Gene therapy for tissue repair and regeneration. **1998**, 33, 53-69	79
2066	Host response to tissue engineered devices. **1998**, 33, 111-139	453

2065	Transplantation of cells in matrices for tissue regeneration. **1998**, 33, 165-182	303
2064	Creation of viable pulmonary artery autografts through tissue engineering. **1998**, 115, 536-45; discussion 545-6	363
2063	Development of biocompatible synthetic extracellular matrices for tissue engineering. **1998**, 16, 224-30	751
2062	Optimizing seeding and culture methods to engineer smooth muscle tissue on biodegradable polymer matrices. **1998**, 57, 46-54	206
2061	A novel biotinylated degradable polymer for cell-interactive applications. **1998**, 58, 529-535	89
2060	Adhesion-guided in vitro morphogenesis in pure and mixed cell cultures. **1998**, 43, 379-84	51
2059	Comparison of epoxides on grafting collagen to polyurethane and their effects on cellular growth. **1998**, 39, 630-6	24
2058	Engineering smooth muscle tissue with a predefined structure. **1998**, 41, 322-32	171
2057	Cellular ingrowth and thickness changes in poly-L-lactide and polyglycolide matrices implanted subcutaneously in the rat. **1998**, 41, 412-21	50
2056	Structure-property correlations in a combinatorial library of degradable biomaterials. **1998**, 42, 66-75	151
2055	Cartilage reconstruction in head and neck surgery: comparison of resorbable polymer scaffolds for tissue engineering of human septal cartilage. **1998**, 42, 347-56	119
2054	Open pore biodegradable matrices formed with gas foaming. **1998**, 42, 396-402	626
2053	Surface hydrolysis of poly(glycolic acid) meshes increases the seeding density of vascular smooth muscle cells. **1998**, 42, 417-24	274
2052	Analysis of 3-D microstructure of porous poly(lactide-glycolide) matrices using confocal microscopy. **1998**, 43, 291-9	23
2051	Tissue engineering: The first decade and beyond. **1998**, 72 Suppl 30-31, 297-303	139
2050	Collagen in tissue-engineered cartilage: types, structure, and crosslinks. **1998**, 71, 313-27	174
2049	In vitro differentiation of chick embryo bone marrow stromal cells into cartilaginous and bone-like tissues. **1998**, 16, 181-9	119
2048	Bioreactor perfusion system for the long-term maintenance of tissue-engineered skeletal muscle organoids. **1998**, 34, 694-703	61

2047	Degradation of porous poly(anhydride-co-imide) microspheres and implications for controlled macromolecule delivery. **1998**, 19, 163-72	80
2046	Semisynthetic resorbable materials from hyaluronan esterification. **1998**, 19, 2101-27	452
2045	Tissue culture surface characteristics influence the expansion of human bone marrow cells. **1998**, 19, 1963-72	30
2044	Muscle morphogenetic protein induces myogenic gene expression in Swiss-3T3 cells. **1998**, 6, 543-54	4
2043	The influence of elaborated pericellular matrix on the deformation of isolated articular chondrocytes cultured in agarose. **1998**, 1405, 67-77	97
2042	Integration of surface modification and 3D fabrication techniques to prepare patterned poly(L-lactide) substrates allowing regionally selective cell adhesion. **1998**, 9, 89-110	267
2041	Synthetic biodegradable polymers for tissue engineering and drug delivery. **1998**, 3, 246-251	84
2040	Videofetoscopically assisted fetal tissue engineering: bladder augmentation. **1998**, 33, 7-12	95
2039	New approach by tissue engineering for extended selective transplantation with a pancreatic B-cell line (MIN6). **1998**, 30, 83-5	3
2038	Fluorescence activated cell sorting: a reliable method in tissue engineering of a bioprosthetic heart valve. **1998**, 66, 1653-7	28
2037	Attenuation of Skeletal Muscle Wasting with Recombinant Human Growth Hormone Secreted from a Tissue-Engineered Bioartificial Muscle. **1998**, 9, 2555-2564	6
2036	Attenuation of skeletal muscle wasting with recombinant human growth hormone secreted from a tissue-engineered bioartificial muscle. **1998**, 9, 2555-64	39
2035	Investigating the performance of intensive mammalian cell bioreactor systems using magnetic resonance imaging and spectroscopy. **1998**, 15, 499-520	8
2034	Retinal pigment epithelium cell culture on thin biodegradable poly(DL-lactic-co-glycolic acid) films. **1998**, 9, 1187-205	48
2033	Comparative study of the use of poly(glycolic acid), calcium alginate and pluronics in the engineering of autologous porcine cartilage. **1998**, 9, 475-87	225
2032	Osteogenic potential of cultured periosteal cells in a distracted bone gap in rabbits. **1998**, 78, 68-77	49
2031	Apoptosis and accidental cell death in cultured human keratinocytes after thermal injury. **1998**, 153, 567-77	51
2030	Release from alginate enhances the biological activity of vascular endothelial growth factor. **1998**, 9, 1267-78	159

2029	Tissue engineering in urologic surgery. **1998**, 25, 39-50	33
2028	Tissue engineering of heart valves--human endothelial cell seeding of detergent acellularized porcine valves. **1998**, 14, 279-84	289
2027	An Approach to Classify Degradable Polymers. **1998**, 550, 17	4
2026	Surface characteristics and biocompatibility of lactide-based poly(ethylene glycol) scaffolds for tissue engineering. **1998**, 9, 667-80	62
2025	Application of Conductive Polymers in Bone Regeneration. **1998**, 550, 215	17
2024	Biocompatibility of cellulose sponge with bone. **1998**, 30, 426-32	81
2023	Tissue Engineered Construct Design Principles. **1998**, 166-196	5
2022	Tissue engineering in facial plastic and reconstructive surgery. **1998**, 14, 197-203	18
2021	Creating biomimetic micro-environments with synthetic polymer-peptide hybrid molecules. **1998**, 9, 507-18	104
2020	Chemical modification and photograft polymerization upon expanded poly(tetrafluoroethylene). **1998**, 9, 407-26	19
2019	Partition and diffusion of sodium and chloride ions in soft charged foam: the effect of external salt concentration and mechanical deformation. **1998**, 4, 365-78	13
2018	Role of synthetic extracellular matrix in development of engineered dental pulp. **1998**, 9, 749-64	94
2017	Lysozyme loading and release from hydrogels carrying pendant phosphate groups. **1997**, 9, 43-53	36
2016	Engineering Small Intestine. **1998**, 610-631	
2015	Force required to break alpha5beta1 integrin-fibronectin bonds in intact adherent cells is sensitive to integrin activation state. **1998**, 273, 10988-93	111
2014	Connective tissue formation in subcutaneous cellulose sponge implants in the rat. The effect of the size and cellulose content of the implant. **1998**, 30, 419-25	27
2013	Apoptosis and bioprocess technology. **1998**, 62, 167-84	12
2012	Bioresorbable Microspheres as Injectable Cell Carrier: FRom Preparation to in Vitro Evaluation. **1998**, 550, 183	1

2011	Proliferation of Human Osteoblastic Cells and Synthesis of Extracellular Bone Matrix on Biomaterials. **1998**, 530, 105	5
2010	Modification of Fibroin Film with a Chimera Fibroin Fragment for Improvement of Cell Adhesion. **1998**, 530, 27	1
2009	A New Approach to Cartilage Tissue Engineering Using Human Dermal Fibroblasts Seeded on Three-Dimensional Polymer Scaffolds. **1998**, 530, 3	
2008	PEG Cross-Linked Alginate Hydrogels with Controlled Mechanical Properties. **1998**, 530, 37	3
2007	Fiber Based Tissue Engineered Scaffolds for Musculoskeletal Applications: In Vitro Cellular Response. **1998**, 550, 127	2
2006	A Novel Versatile Process for the Production of Polymer Foams. **1998**, 550, 149	2
2005	Non-Destructive Evaluation of Synthetic Tissue Scaffolds With NMR. **1998**, 550, 171	2
2004	Preparation and Characterization of a Polyrotaxane with Non-enzymatically Hydrolyzable Stoppers. **1998**, 27, 1031-1032	33
2003	Muscular Tissue Engineering: Capillary-Incorporated Hybrid Muscular Tissues in Vivo Tissue Culture. **1998**, 7, 435-442	38
2002	Tissue Engineering: Product Applications and Regulatory Issues. **1998**, 341-366	1
2001	Mechanical Forces And Growth Factors Utilized In Tissue Engineering. **1998**, 61-82	7
2000	Spatially controlled cell engineering on biodegradable polymer surfaces. **1998**, 12, 1447-54	214
1999	Prospectus of Tissue Engineering. **1998**, 3-11	44
1998	Cardiac muscle tissue engineering: toward an in vitro model for electrophysiological studies. **1999**, 277, H433-44	175
1997	Alternative methods for assessing biocompatibility and function of implant materials. **1999**, 27, 271-81	3
1996	Tissue Engineering And Dentistry. **1999**, 26, 657-662	4
1995	Coral grafting supplemented with bone marrow. **1999**, 81-B, 719-724	6
1994	Valves in development for autogenous tissue valve replacement. **1999**, 2, 51-64	11

1993	Tissue engineering in cardiovascular surgery: MTT, a rapid and reliable quantitative method to assess the optimal human cell seeding on polymeric meshes. **1999**, 15, 519-24	100
1992	Endothelial implants inhibit intimal hyperplasia after porcine angioplasty. **1999**, 84, 384-91	72
1991	Closer to nature: new biomaterials and tissue engineering in ophthalmology. **1999**, 83, 1235-40	17
1990	The current status of tissue engineering as potential therapy. **1999**, 8, 119-23	27
1989	Vascular tissue engineering : designer arteries. **1999**, 85, 1115-7	86
1988	Influence of pancreatic islets on growth and differentiation of hepatocytes in co-culture. **1999**, 5, 583-96	31
1987	Tissue-engineered human bioartificial muscles expressing a foreign recombinant protein for gene therapy. **1999**, 10, 565-77	78
1986	Effect of serum and platelet-derived growth factor on chondrocytes grown in collagen gels. **1999**, 5, 533-44	55
1985	End-to-end anastomosis between tissue-engineered intestine and native small bowel. **1999**, 5, 339-46	32
1984	Bacterial inactivation by using near- and supercritical carbon dioxide. **1999**, 96, 10344-8	259
1983	Synthesis of cross-linked poly(aldehyde guluronate) hydrogels. **1999**, 40, 3575-3584	198
1982	HETCOR NMR study of poly(rac-lactide) and poly(meso-lactide). **1999**, 40, 5455-5458	50
1981	Tyrosine-PEG-derived poly(ether carbonate)s as new biomaterials. Part I: synthesis and evaluation. **1999**, 20, 253-64	79
1980	Study on gelatin-containing artificial skin: I. Preparation and characteristics of novel gelatin-alginate sponge. **1999**, 20, 409-17	336
1979	Preparation and characterization of porous crosslinked collagenous matrices containing bioavailable chondroitin sulphate. **1999**, 20, 847-58	370
1978	Fabrication of porous gelatin scaffolds for tissue engineering. **1999**, 20, 1339-44	501
1977	Substrate-adsorbed collagen and cell secreted fibronectin concertedly induce cell migration on poly(lactide-glycolide) substrates. **1999**, 20, 2223-33	48
1976	Integrin-fibronectin interactions at the cell-material interface: initial integrin binding and signaling. **1999**, 20, 2427-33	186

1975	Transplantation of human pulpal and gingival fibroblasts attached to synthetic scaffolds. **1999**, 107, 282-9	71
1974	Tissue engineering of a bioartificial renal tubule assist device: in vitro transport and metabolic characteristics. **1999**, 55, 2502-14	179
1973	Production of microspheres with surface amino groups from blends of Poly(Lactide-co-glycolide) and Poly(epsilon-CBZ-L-lysine) and use for encapsulation. **1999**, 15, 763-7	12
1972	The matrix delivers. **1999**, 5, 733-4	16
1971	Localized, direct plasmid gene delivery in vivo: prolonged therapy results in reproducible tissue regeneration. **1999**, 5, 753-9	585
1970	Human therapeutic cloning. **1999**, 5, 975-7	114
1969	Cyclic mechanical strain regulates the development of engineered smooth muscle tissue. **1999**, 17, 979-83	379
1968	Biotechnology. A new-for-old urinary bladder. **1999**, 398, 198-9	2
1967	Testing time for theories. **1999**, 398, 199-200	47
1966	Bioartificial organs and acceptable risk. **1999**, 17, 1045	21
1965	Designing biomaterials to direct biological responses. **1999**, 875, 24-35	141
1964	Bioreactors for hybrid liver support: historical aspects and novel designs. **1999**, 875, 326-39	37
1963	Controlled delivery of inductive proteins, plasmid DNA and cells from tissue engineering matrices. **1999**, 34, 413-9	105
1962	Engineering a bioartificial kidney. **1999**, 17, 421-2	7
1961	Catalytic DNA: in training and seeking employment. **1999**, 17, 422-3	52
1960	Replacement of renal function in uremic animals with a tissue-engineered kidney. **1999**, 17, 451-5	251
1959	Tissue engineering. **1999**, 17, 508-10	96
1958	DNA delivery from polymer matrices for tissue engineering. **1999**, 17, 551-4	600

1957	Tissue Engineering at the Micro-Scale. **1999**, 2, 131-144	141
1956	Analysis of CHO-K1 cell growth in a fixed bed bioreactor using magnetic resonance spectroscopy and imaging. **1999**, 30, 121-32	9
1955	In vitro reconstructed tissues on hyaluronan-based temporary scaffolding. **1999**, 10, 683-8	34
1954	Application of zirconium (IV) acetylacetonate to the copolymerization of glycolide with e-caprolactone and lactide. **1999**, 42, 131-139	38
1953	Heterotopic hepatocyte transplantation utilizing pancreatic islet cotransplantation for hepatotrophic stimulation: morphologic and morphometric evaluation. **1999**, 15, 168-74	12
1952	Induction of three-dimensional assembly of human liver cells by simulated microgravity. **1999**, 35, 501-9	85
1951	Hemifacial microsomia and treatment options for auricular replacement: A review of the literature. **1999**, 82, 197-204	38
1950	Enhanced cell aggregation and liver functions using polymers modified with a cell-specific ligand in primary hepatocyte cultures. **1999**, 88, 557-62	11
1949	Polymere als Implantatwerkstoffe. **1999**, 33, 279-295	37
1948	Ex vivo liver cell morphogenesis: one step nearer to the bioartificial liver?. **1999**, 29, 288-90	27
1947	The development of an embedding technique for polylactide sponges. **1999**, 48, 504-10	16
1946	In vitro and in vivo comparison of bulk and surface hydrolysis in absorbable polymer scaffolds for tissue engineering. **1999**, 48, 602-12	81
1945	Morphology and mechanical function of long-term in vitro engineered cartilage. **1999**, 44, 217-21	65
1944	Three-dimensional nano-HAp/collagen matrix loading with osteogenic cells in organ culture. **1999**, 44, 407-15	295
1943	Porous poly(L-lactic acid)/apatite composites created by biomimetic process. **1999**, 45, 285-93	380
1942	Synthetic nano-scale fibrous extracellular matrix. **1999**, 46, 60-72	790
1941	Exploiting glycation to stiffen and strengthen tissue equivalents for tissue engineering. **1999**, 46, 87-92	156
1940	In vitro degradation of thin poly(DL-lactic-co-glycolic acid) films. **1999**, 46, 236-44	302

1939	Founder's Award, 25th Annual Meeting of the Society for Biomaterials, perspectives. Providence, RI, April 28-May 2, 1999. Tissue heart valves: current challenges and future research perspectives. **1999**, 47, 439-65	334
1938	Long-term differentiated function of heterotopically transplanted hepatocytes on three-dimensional polymer matrices. **1999**, 47, 494-503	80
1937	Cardiac tissue engineering: cell seeding, cultivation parameters, and tissue construct characterization. **1999**, 64, 580-9	418
1936	Effects of spatial variation of cells and nutrient and product concentrations coupled with product inhibition on cell growth in a polymer scaffold. **1999**, 64, 633-643	86
1935	Analysis of cell growth kinetics and substrate diffusion in a polymer scaffold. **1999**, 65, 121-32	118
1934	Tissue engineering of a trileaflet heart valve-early in vitro experiences with a combined polymer. **1999**, 5, 489-94	49
1933	SYNTHESIS OF A NOVEL POLYSACCHARIDE HYDROGEL. **1999**, 36, 981-989	9
1932	Application of Calcium Acetylacetonate to the Polymerization of Glycolide and Copolymerization of Glycolide with Ecaprolactone and l-Lactide. **1999**, 32, 4735-4737	105
1931	Rigidity of Two-Component Hydrogels Prepared from Alginate and Poly(ethylene glycol)âDiamines. **1999**, 32, 5561-5566	195
1930	Ligament tissue engineering using synthetic biodegradable fiber scaffolds. **1999**, 5, 443-52	119
1929	Future potentials for using osteogenic stem cells and biomaterials in orthopedics. **1999**, 25, 5S-9S	138
1928	Transplantation of primary bovine adrenocortical cells into scid mice. **1999**, 153, 125-36	46
1927	Tissue engineering: the design and fabrication of living replacement devices for surgical reconstruction and transplantation. **1999**, 354 Suppl 1, SI32-4	778
1926	PHA applications: addressing the price performance issue: I. Tissue engineering. **1999**, 25, 111-21	397
1925	Microstructure of Poly(lactide). Phase-Sensitive HETCOR Spectra of Poly(meso-lactide), Poly(rac-lactide), and Atactic Poly(lactide). **1999**, 32, 963-973	58
1924	Patterning Thin Films of Poly(ethylene imine) on a Reactive SAM Using Microcontact Printing. **1999**, 15, 1208-1214	111
1923	Regenerative signals for tissue-engineered small intestine. **1999**, 31, 657-60	26
1922	Anastomosis between tissue-engineered intestine and native small bowel. **1999**, 31, 661-2	15

1921	Autohepatocyte transplantation in a degradable collagen device in the bursa omentalis. **1999**, 31, 2138-42	4
1920	Small intestinal submucosa as a small-caliber venous graft: a novel model for hepatocyte transplantation on synthetic biodegradable polymer scaffolds with direct access to the portal venous system. **1999**, 34, 124-8	35
1919	Evaluation of methods of hepatotrophic stimulation in rat heterotopic hepatocyte transplantation using polymers. **1999**, 34, 1118-23	13
1918	Skeletal muscle tissue engineering using isolated myoblasts on synthetic biodegradable polymers: preliminary studies. **1999**, 5, 525-32	134
1917	Tissue engineering: orthopedic applications. **1999**, 1, 19-46	613
1916	Surface Engineering and Surface Analysis of a Biodegradable Polymer with Biotinylated End Groups. **1999**, 15, 3157-3161	75
1915	Synthesis and Characterization of Photo-Cross-Linked Networks Based onl-Lactide/Serine Copolymersâ **1999**, 32, 1853-1858	44
1914	Polymeric Biomaterials with Degradation Sites for Proteases Involved in Cell Migration. **1999**, 32, 241-244	521
1913	Effect of Porous Structure on the Degradation of Freeze-Dried Gelatin Hydrogels. **1999**, 14, 331-343	19
1912	Effect of acetylation of biodegradable polyrotaxanes on its supramolecular dissociation via terminal ester hydrolysis. **1999**, 10, 1275-88	34
1911	Engineered smooth muscle tissues: regulating cell phenotype with the scaffold. **1999**, 251, 318-28	173
1910	Effects of anastomosis of tissue-engineered neointestine to native small bowel. **1999**, 87, 6-13	44
1909	Regenerative biology: a millenial revolution. **1999**, 10, 433-40	9
1908	Fabrication of PLGA-Collagen Hybrid Sponge. **1999**, 28, 561-562	18
1907	Design engineering of a bioartificial renal tubule cell therapy device. **1999**, 8, 351-64	46
1906	Development of a human adipocyte synthetic polymer scaffold. **1999**, 104, 1732-8	93
1905	Advancements in tissue engineered bone substitutes. **1999**, 10, 445-451	26
1904	Transdermal photopolymerization of poly(ethylene oxide)-based injectable hydrogels for tissue-engineered cartilage. **1999**, 104, 1014-22	147

1903	Characteristics of cartilage engineered from human pediatric auricular cartilage. **1999**, 103, 1111-9	84
1902	Does cartilage down-regulate growth factor expression in tracheal epithelium?. **1999**, 125, 1239-43	14
1901	Evaluation of biodegradable, three-dimensional matrices for tissue engineering of heart valves. **2000**, 46, 107-10	159
1900	Bioartificial Implants: Design and Tissue Engineering. **2000**, 107-160	3
1899	Physiological and cell biological aspects of perfusion culture technique employed to generate differentiated tissues for long term biomaterial testing and tissue engineering. **2000**, 11, 495-522	40
1898	Early in vivo experience with tissue-engineered trileaflet heart valves. **2000**, 102, III22-9	209
1897	Internal support of tissue-engineered cartilage. **2000**, 126, 1448-52	48
1896	Treatment of articular cartilage defects. **2000**, 35, 639-46	48
1895	Soft-tissue augmentation with injectable alginate and syngeneic fibroblasts. **2000**, 105, 2049-58	97
1894	Long-term culture of fetal liver cells using a three-dimensional porous polymer substrate. **2000**, 46, 397-402	28
1893	Controlling Diffusion of Solutes Through Ionically Crosslinked Alginate Hydrogels Designed for Tissue Engineering. **2000**, 662, 1	2
1892	Review: Hydrogels for cell immobilization. **1996**, 50, 357-64	228
1891	Cell growth and differentiation on feeder layers is predicted to be influenced by bioreactor geometry. **1996**, 50, 479-92	26
1890	Different measures of human hematopoietic cell culture performance are optimized under vastly different conditions. **1996**, 50, 505-13	25
1889	Hepatocyte behavior within three-dimensional porous alginate scaffolds. **2000**, 67, 344-53	300
1888	Factors controlling surface morphology of porous polystyrene membranes prepared by thermally induced phase separation. **2000**, 49, 323-328	25
1887	Mouse fibroblasts in long-term culture within collagen three-dimensional scaffolds: influence of crosslinking with diphenylphosphorylazide on matrix reorganization, growth, and biosynthetic and proteolytic activities. **2000**, 49, 448-59	85
1886	Growth of continuous bonelike mineral within porous poly(lactide-co-glycolide) scaffolds in vitro. **2000**, 50, 50-8	229

1885	Hyaluronan-based biopolymers as delivery vehicles for bone-marrow-derived mesenchymal progenitors. **2000**, 50, 101-9	142
1884	A biodegradable hybrid sponge nested with collagen microsponges. **2000**, 51, 273-9	164
1883	Degradation of PLA, PLGA homo- and copolymers in the presence of serum albumin: a spectroscopic investigation. **2000**, 49, 728-734	49
1882	Tissue engineering: challenges and opportunities. **2000**, 53, 617-20	188
1881	Comparative study of seeding methods for three-dimensional polymeric scaffolds. **2000**, 51, 642-9	100
1880	Characterization of osteoblast-like behavior of cultured bone marrow stromal cells on various polymer surfaces. **2000**, 52, 279-84	79
1879	Studies on nerve cell affinity of chitosan-derived materials. **2000**, 52, 285-95	144
1878	Synthetic nano-fibrillar extracellular matrices with predesigned macroporous architectures. **2000**, 52, 430-8	213
1877	Osseous tissue engineering in oncologic surgery. **2000**, 19, 294-301	5
1876	Challenges to nerve regeneration. **2000**, 19, 312-8	152
1875	Second International Symposium on Composite Tissue Allotransplantation. Introduction. **2000**, 20, 359	12
1874	Mixed allogeneic chimerism and tolerance to composite tissue allografts. **2000**, 20, 441-7	54
1873	Synthesis of poly(D,L-lactic acid-alt-glycolic acid) from D,L-3-methylglycolide. **2000**, 38, 4179-4184	41
1872	Biomaterials: Status, challenges, and perspectives. **2000**, 46, 1286-1289	57
1871	Glycosaminoglycan deposition in engineered cartilage: Experiments and mathematical model. **2000** , 46, 1860-1871	187
1870	Hyaluronan-based polymers in the treatment of osteochondral defects. **2000**, 18, 773-80	177
1869	Tissue engineered artificial skin composed of dermis and epidermis. **2000**, 24, 7-17	39
1868	Paper is a compatible bed for rat hepatocytes. **2000**, 24, 271-7	6

1867	Photopolymers in orthopedics: characterization of novel crosslinked polyanhydrides. **2000**, 21, 1181-8	34
1866	Porous carriers for biomedical applications based on alginate hydrogels. **2000**, 21, 1921-7	281
1865	Macroencapsulation of human cartilage implants: pilot study with polyelectrolyte complex membrane encapsulation. **2000**, 21, 1561-6	37
1864	Attachment of glycosaminoglycans to collagenous matrices modulates the tissue response in rats. **2000**, 21, 1689-99	126
1863	Native and DPPA cross-linked collagen sponges seeded with fetal bovine epiphyseal chondrocytes used for cartilage tissue engineering. **2001**, 22, 9-18	76
1862	Biodegradable poly(D,L-lactic acid)-poly(ethylene glycol)-monomethyl ether diblock copolymers: structures and surface properties relevant to their use as biomaterials. **2000**, 21, 2361-70	159
1861	Injectable biodegradable polymer composites based on poly(propylene fumarate) crosslinked with poly(ethylene glycol)-dimethacrylate. **2000**, 21, 2389-94	181
1860	An osteogenic cell culture system to evaluate the cytocompatibility of Osteoset, a calcium sulfate bone void filler. **2000**, 21, 2413-25	31
1859	Scaffolds in tissue engineering bone and cartilage. **2000**, 21, 2529-43	3876
1858	Application of chitosan-based polysaccharide biomaterials in cartilage tissue engineering: a review. **2000**, 21, 2589-98	1672
1857	Vascular cell responses to polysaccharide materials: in vitro and in vivo evaluations. **2000**, 21, 2315-22	168
1856	Bioresorbable microspheres by spinning disk atomization as injectable cell carrier: from preparation to in vitro evaluation. **2000**, 21, 1135-44	58
1855	Segmental bone repair by tissue-engineered periosteal cell transplants with bioresorbable fleece and fibrin scaffolds in rabbits. **2000**, 21, 1145-53	198
1854	Bioreactors for plant engineering: an outlook for further research. **2000**, 4, 89-99	132
1853	Synthesis, characterization and protein adsorption behaviors of PLGA/PEG di-block co-polymer blend films. **2000**, 18, 371-379	72
1852	New tissue engineering material copolymers of derivatives of cellulose and lactide: their synthesis and characterization. **2000**, 11, 57-60	27
1851	Synthesis of polymer network scaffolds and microspheres based on poly(Ɛ-caprolactone-co-glycolic acid-co-l-serine). **2000**, 13, 91-95	5
1850	Micro- and nanoscale structures for tissue engineering constructs. **2000**, 22, 595-606	235

1849	Engineering autogenous cartilage in the shape of a helix using an injectable hydrogel scaffold. **2000**, 110, 1694-7	129
1848	Intracellular trehalose improves the survival of cryopreserved mammalian cells. **2000**, 18, 163-7	416
1847	Enzymatic incorporation of bioactive peptides into fibrin matrices enhances neurite extension. **2000**, 18, 415-9	295
1846	Tissue-engineered bone regeneration. **2000**, 18, 959-63	1176
1845	Tissue engineering. **2000**, 18, IT56-IT58	13
1844	Controlled growth factor release from synthetic extracellular matrices. **2000**, 408, 998-1000	415
1843	Tissue engineering of vascular grafts: human cell seeding of decellularised porcine matrix. **2000**, 19, 381-6	133
1842	Can we produce a human corneal equivalent by tissue engineering?. **2000**, 19, 497-527	104
1841	Delivering DNA with polymer matrices: applications in tissue engineering and gene therapy. **2000**, 3, 381-384	19
1840	Cartilage formation by cultured chondrocytes in a new scaffold made of poly(L-lactide-epsilon-caprolactone) sponge. **2000**, 58, 767-75	67
1839	The frontier of substitution medicine: integrating biomaterials and tissue engineering. **2000**, 19, 115-7	5
1838	Tissue engineering applied to reconstructive surgery. **2000**, 19, 122-5	27
1837	An introduction to cellular and tissue engineering. **2000**, 19, 126-7	
1836	Porcine-Derived Collagen as a Scaffold for Tissue Engineering. **2000**, 78, 19-24	6
1835	Technology of mammalian cell encapsulation. **2000**, 42, 29-64	514
1834	Gene therapy approaches for modulating bone regeneration. **2000**, 42, 121-38	74
1833	Endothelial cell delivery for cardiovascular therapy. **2000**, 42, 139-61	61
1832	Tissue engineering via local gene delivery: update and future prospects for enhancing the technology. **2000**, 44, 185-94	138

1831	Biocatalytic membrane reactors: applications and perspectives. **2000**, 18, 339-49	277
1830	Cells for tissue engineering. **2000**, 18, 17-9	80
1829	Branched biodegradable polyesters for parenteral drug delivery systems. **2000**, 64, 167-78	82
1828	Bioabsorbable polymer scaffolds for tissue engineering capable of sustained growth factor delivery. **2000**, 64, 91-102	431
1827	Active growth factor delivery from poly(D,L-lactide-co-glycolide) foams prepared in supercritical CO(2). **2000**, 66, 177-85	169
1826	Visual evidence of acidic environment within degrading poly(lactic-co-glycolic acid) (PLGA) microspheres. **2000**, 17, 100-6	578
1825	Extensive neurite outgrowth and active synapse formation on self-assembling peptide scaffolds. **2000**, 97, 6728-33	994
1824	Development of a Safe Gene Delivery System Using Biodegradable Polymer, Poly[α-(4-aminobutyl)-l-glycolic acid]. **2000**, 122, 6524-6525	149
1823	Adulte humane Chondrozyten in Alginatkultur. **2000**, 29, 100-106	
1822	In-vitro-Anzüchtung humaner autogener osteoblastärer Zellen auf natürlichem Knochenmineral. **2000**, 29, 129-134	
1821	In vivo tissue engineering: dreams for the future. **2000**, 3, 5-11	5
1820	Current status of tissue engineering for cardiovascular structures. **2000**, 3, 102-106	1
1819	Development of a hybrid artificial liver support system and preclinical animal experiments. **2000**, 3, 112-116	2
1818	Feasibility study of hydrolyzable polyrotaxanes aiming at implantable materials. **2000**, 3, 136-142	21
1817	Comparative analysis of different collagen-based biomaterials as scaffolds for long-term culture of human fibroblasts. **2000**, 38, 205-10	47
1816	Collagen-based biomaterials as 3D scaffold for cell cultures: applications for tissue engineering and gene therapy. **2000**, 38, 211-8	282
1815	Tissue engineering of the vascular system: From capillaries to larger blood vessels. **2000**, 38, 232-240	28
1814	Effects of degree of cell-cell contact on liver specific functions of rat primary hepatocytes. **2000**, 5, 99-105	5

1813	Growth Factor Delivery from Tissue Engineering Matrices: Inducing Angiogenesis to Enhance Transplanted Cell Engraftment. **2000**, 157-166	2
1812	CELL INTERACTIONS WITH POLYMERS. **2000**, 221-235	28
1811	Development and Application of Bioartificial Skin. **2000**, 23, 597-600	3
1810	Influence of growth factors on tissue-engineered pediatric elastic cartilage. **2000**, 126, 1234-8	31
1809	Microfabrication of an analog of the basal lamina: biocompatible membranes with complex topographies. **2000**, 14, 593-602	66
1808	TISSUE ASSEMBLY IN MICROGRAVITY. **2000**, 157-164	2
1807	BIODEGRADABLE POLYMERS. **2000**, 263-277	34
1806	In vitro Apatite Deposition and Biodegradation of Porous Gelatin-Silicate Hybrids Derived from Sol-Gel Process. **2000**, 628, 1	
1805	Perlecan is required to inhibit thrombosis after deep vascular injury and contributes to endothelial cell-mediated inhibition of intimal hyperplasia. **2000**, 97, 6722-7	113
1804	Tissue engineering strategies for nervous system repair. **2000**, 128, 349-63	45
1803	Macroporous polymer foams by hydrocarbon templating. **2000**, 97, 1970-5	174
1802	Tissue engineering. **2000**, 1, 12-5	161
1801	Dynamic seeding and in vitro culture of hepatocytes in a flow perfusion system. **2000**, 6, 39-44	122
1800	Particle-induced Phagocytic Cell Responses are Material Dependent: Foreign Body Giant Cells Vs. Osteoclasts from a Chick Chorioallantoic Membrane Particle-implantation Model. **2000**, 74, 53-77	6
1799	Scaffolds in tissue engineering bone and cartilage. **2000**, 175-189	57
1798	Review: Regenerative Biology and Medicine in the 21stCentury. **2000**, 1, 17-20	
1797	Prospects for re-engineering salivary glands. **2000**, 14, 84-8	30
1796	Tissue engineering of the musculo-skeletal system--basic research and clinical applications. **2000**, 5, 49-55	8

1795	Formation of new tissue from an arteriovenous loop in the absence of added extracellular matrix. **2000**, 6, 595-603	141
1794	Priming of hepatocytes for cell culture by partial hepatectomy prior to cell isolation. **2000**, 6, 619-26	5
1793	Combining chondrocytes and smooth muscle cells to engineer hybrid soft tissue constructs. **2000**, 6, 297-305	70
1792	CELLULOSE COMPOSITE MATERIALS AS SORBENTS-SORPTION AND RHEOLOGICAL PROPERTIES. **2000**, 305-317	
1791	Engineered bone development from a pre-osteoblast cell line on three-dimensional scaffolds. **2000**, 6, 605-17	193
1790	Variation of the HES concentration for the cryopreservation of keratinocytes in suspensions and in monolayers. **2000**, 41, 89-96	21
1789	Endothelial and smooth muscle changes of the thoracic and abdominal aorta with various types of cryopreservation. **2000**, 89, 147-54	23
1788	Morphogenesis and tissue engineering of bone and cartilage: inductive signals, stem cells, and biomimetic biomaterials. **2000**, 6, 351-9	319
1787	Survival and function of rat hepatocytes cocultured with nonparenchymal cells or sinusoidal endothelial cells on biodegradable polymers under flow conditions. **2000**, 35, 1287-90	41
1786	Effects of calcium hydroxide and transforming [correction of tumor] growth factor-beta on collagen synthesis in subcultures I and V of osteoblasts. **2000**, 26, 494-9	7
1785	Concept for organ engineering: a reconstruction method of rat liver for in vitro culture. **2000**, 6, 641-50	25
1784	Tissue engineering of heart valves: in vitro experiences. **2000**, 70, 140-4	174
1783	Micro-systems in biomedical applications. **2000**, 10, 235-244	148
1782	BLOOD VESSELS. **2000**, 427-446	4
1781	Articular Cartilage Tissue Engineering. **2000**, 1, 99-114	3
1780	Tissue Engineering: Status and Challenges. **2000**, 1, 5-6	8
1779	Vascular tissue engineering: structure versus function. **2000**, 31, 1268-1269	1
1778	Meniscal injury and repair: clinical status. **2000**, 31, 419-36	37

1777	Novel Nanoparticles Formed via Self-Assembly of Poly(ethylene glycol-b-sebacic anhydride) and Their Degradation in Water. **2000**, 33, 9040-9043	32
1776	Controlling Mechanical and Swelling Properties of Alginate Hydrogels Independently by Cross-Linker Type and Cross-Linking Density. **2000**, 33, 4291-4294	359
1775	Self-Limiting Aggregation by Controlled Ligandâ Receptor Stoichiometry. **2000**, 16, 2825-2831	50
1774	Cellular volume determination of alginate-entrapped hepatocytes by MRI diffusion measurements. **2000**, 28, 293-305	2
1773	High-resolution elasticity imaging for tissue engineering. **2000**, 47, 956-66	27
1772	The impact of tissue engineering on dentistry. **2000**, 131, 309-18	48
1771	Tissue engineering: confronting the transplantation crisis. **2000**, 214, 95-9	25
1770	Tissue-engineered ligament: cells, matrix, and growth factors. **2000**, 31, 437-52	33
1769	Tissue engineering meniscus: cells and matrix. **2000**, 31, 411-8	76
1768	Cell viability improves following inhibition of cryopreservation-induced apoptosis. **2000**, 36, 262-70	145
1767	Biomaterials in drug delivery and tissue engineering: one laboratory's experience. **2000**, 33, 94-101	591
1766	Clinical long-term in vivo evaluation of poly(L-lactic acid) porous conduits for peripheral nerve regeneration. **2000**, 11, 869-78	94
1765	Degradation Behavior of Covalently Cross-Linked Poly(aldehyde guluronate) Hydrogels. **2000**, 33, 97-101	179
1764	Silicon micromachining to tissue engineer branched vascular channels for liver fabrication. **2000**, 6, 105-17	277
1763	THE HISTORY AND SCOPE OF TISSUE ENGINEERING. **2000**, 3-7	21
1762	Fabrication of a trileaflet heart valve scaffold from a polyhydroxyalkanoate biopolyester for use in tissue engineering. **2000**, 6, 183-8	172
1761	The fate of a tissue-engineered cardiac graft in the right ventricular outflow tract of the rat. **2001**, 121, 932-42	101
1760	Differentiation of osteoblasts and in vitro bone formation from murine embryonic stem cells. **2001**, 7, 89-99	349

1759	Synthesis and Characterization of Poly(glycerolâ‐succinic acid) Dendrimers. **2001**, 34, 7648-7655	86
1758	Transplantation of a tissue-engineered pulmonary artery. **2001**, 344, 532-3	507
1757	The growth of tissue engineering. **2001**, 7, 485-93	166
1756	Hydrogels. **2001**, 3878-3882	0
1755	Synthesis and characterization of polyether-ester dendrimers from glycerol and lactic acid. **2001**, 123, 2905-6	90
1754	[Cellular engineering and diabetes mellitus]. **2001**, 201, 548-56	1
1753	Synthesis and characterisation of a degradable poly(lactic acid)-poly(ethylene glycol) copolymer with biotinylated end groups. **2001**, 2, 575-80	76
1752	Hydrogels for tissue engineering. **2001**, 101, 1869-79	4050
1751	The design of scaffolds for use in tissue engineering. Part I. Traditional factors. **2001**, 7, 679-89	1809
1750	Tissue-engineered vascular autograft: inferior vena cava replacement in a dog model. **2001**, 7, 429-39	181
1749	Beneficial effect of intracellular trehalose on the membrane integrity of dried mammalian cells. **2001**, 43, 168-81	154
1748	Tissue engineering: an evolving 21st-century science to provide biologic replacement for reconstruction and transplantation. **2001**, 130, 781-4	29
1747	Developing a core platform for the tissue engineering of vital organs. **2001**, 15, 184-199	2
1746	Tissue engineering: a 21st century solution to surgical reconstruction. **2001**, 72, 577-91	293
1745	Solâ‐gel preparation and in vitro deposition of apatite on porous gelatinâ‐siloxane hybrids. **2001**, 285, 116-122	51
1744	Does UV irradiation affect polymer properties relevant to tissue engineering?. **2001**, 491, 333-345	76
1743	Islets of Langerhans encapsulated with a tissue-engineered membrane of rat chondrocytes maintain insulin secretion and glucose-insulin feedback for at least 30 days in culture. **2001**, 33, 1713-4	7
1742	Platelet-derived growth factor (PDGF) gene delivery for application in periodontal tissue engineering. **2001**, 72, 815-23	90

1741	Selective Deposition of Proteins and Cells in Arrays of Microwells. **2001**, 17, 2828-2834	201
1740	Hepatic tissue engineering on 3-dimensional biodegradable polymers within a pulsatile flow bioreactor. **2001**, 18, 196-203	30
1739	Two New Approaches for Patterning Polymer Films Using Templates Prepared by Microcontact Printing. **2001**, 34, 1230-1236	39
1738	Gene expression profiling of the response to thermal injury in human cells. **2001**, 7, 3-13	32
1737	Tissue Engineering's Impact on Dentistry. **2001**, 65, 456-462	46
1736	Tissue Engineering of the Small Intestine by Acellular Collagen Sponge Scaffold Grafting. **2001**, 24, 50-54	61
1735	Engineered Extracellular Matrices: A Biological Solution for Tissue Repair, Regeneration, and Replacement. **2001**, 2, 9-12	2
1734	Cell-by-Cell Construction of Living Tissue. **2001**, 698, 511	2
1733	Capillary Formation In Microfabricated Polymer Scaffolds. **2001**, 711, 1	
1732	Hepatocyte transplantation using biodegradable matrices in ascorbic acid-deficient rats: comparison with heterotopically transplanted liver grafts. **2001**, 71, 1226-31	29
1731	Extensive traumatic soft tissue loss: reconstruction in severely injured patients using cultured hyaluronan-based three-dimensional dermal and epidermal autografts. **2001**, 50, 1125-36	31
1730	Biodegradable polymer scaffolds for cartilage tissue engineering. **2001**, S251-70	164
1729	Dermal fibroblasts genetically engineered to release nerve growth factor. **2001**, 47, 660-5	12
1728	Effect of Actin Filament on Deformation-Induced Ca2+ Response in Osteoblast-Like Cells. **2001**, 44, 914-919	4
1727	In Vitro Expression of Cartilage-Specific Markers by Chondrocytes on a Biocompatible Hydrogel: Implications for Engineering Cartilage Tissue. **2001**, 10, 755-763	67
1726	Tissue-engineered cartilage composite with expanded polytetrafluoroethylene membrane. **2001**, 46, 527-32	14
1725	Craniofacial tissue engineering. **2001**, 12, 64-75	148
1724	Influence of different biodegradable carriers on the in vivo behavior of human adipose precursor cells. **2001**, 108, 411-20; discussion 421-2	127

1723	Cell-interactive polymers for tissue engineering. **2001**, 2, 51-57	14
1722	Determination of arterial wall shear stress. **2001**, 44, 1312-1321	2
1721	Effects of three-dimensional scaffolds on cell organization and tissue development. **2001**, 6, 311-325	49
1720	Biomedical applications of polymer-composite materials: a review. **2001**, 61, 1189-1224	1037
1719	Dreams for the future in the field of in vivo tissue engineering. **2001**, 25, 159-63	5
1718	Synthesis of biodegradable poly(propylene fumarate) networks with poly(propylene fumarate)â□diacrylate macromers as crosslinking agents and characterization of their degradation products. **2001**, 42, 1251-1260	163
1717	Ionically crosslinked alginate hydrogels as scaffolds for tissue engineering: part 1. Structure, gelation rate and mechanical properties. **2001**, 22, 511-21	1081
1716	A new approach based on injection moulding to produce biodegradable starch-based polymeric scaffolds: morphology, mechanical and degradation behaviour. **2001**, 22, 883-9	323
1715	Collagen-chitosan polymeric scaffolds for the in vitro culture of human epidermoid carcinoma cells. **2001**, 22, 1943-51	287
1714	Intact microglia are cultured and non-invasively harvested without pathological activation using a novel cultured cell recovery method. **2001**, 22, 1213-23	54
1713	Poly(lactide-co-glycolide)/hydroxyapatite delivery of BMP-2-producing cells: a regional gene therapy approach to bone regeneration. **2001**, 22, 1271-7	165
1712	Basic fibroblast growth factor enhances in vitro mineralization of rat bone marrow stromal cells grown on non-woven hyaluronic acid based polymer scaffold. **2001**, 22, 2095-105	76
1711	Preparation of poly(L-lactic acid) and poly(DL-lactic-co-glycolic acid) foams by use of ice microparticulates. **2001**, 22, 2563-7	125
1710	Tissue-engineered cartilage by in vivo culturing of chondrocytes in PLGAâ□ollagen hybrid sponge. **2001**, 17, 83-89	29
1709	Development of biodegradable porous scaffolds for tissue engineering. **2001**, 17, 63-69	174
1708	Photocrosslinkable polysaccharides for in situ hydrogel formation. **2001**, 54, 115-21	355
1707	The different behaviors of skeletal muscle cells and chondrocytes on PEGT/PBT block copolymers are related to the surface properties of the substrate. **2001**, 54, 47-58	43
1706	Substrate microtopography can enhance cell adhesive and migratory responsiveness to matrix ligand density. **2001**, 54, 149-61	92

1705	Engineering new bone tissue in vitro on highly porous poly(alpha-hydroxyl acids)/hydroxyapatite composite scaffolds. **2001**, 54, 284-93	348
1704	Biodegradable polymeric scaffolds for musculoskeletal tissue engineering. **2001**, 55, 141-50	803
1703	Bone tissue engineering in a rotating bioreactor using a microcarrier matrix system. **2001**, 55, 242-53	184
1702	Novel cell immobilization method utilizing centrifugal force to achieve high-density hepatocyte culture in porous scaffold. **2001**, 55, 379-86	64
1701	Sustained release of basic fibroblast growth factor and angiogenesis in a novel covalently crosslinked gel of heparin and alginate. **2001**, 56, 216-21	166
1700	Degradable and injectable poly(aldehyde guluronate) hydrogels for bone tissue engineering. **2001**, 56, 228-33	136
1699	In vivo tracking of bone marrow fibroblasts with fluorescent carbocyanine dye. **2001**, 56, 361-7	46
1698	Microtubular architecture of biodegradable polymer scaffolds. **2001**, 56, 469-77	255
1697	Poly(DL-lactic-co-glycolic acid) sponge hybridized with collagen microsponges and deposited apatite particulates. **2001**, 57, 8-14	73
1696	Strong and macroporous calcium phosphate cement: Effects of porosity and fiber reinforcement on mechanical properties. **2001**, 57, 457-66	135
1695	Dynamics of extracellular matrix production and turnover in tissue engineered cardiovascular structures. **2001**, 81, 220-8	51
1694	Measurement of bioreactor perfusion using dynamic contrast agent-enhanced magnetic resonance imaging. **2001**, 75, 682-90	21
1693	Wet extrusion of fibronectin-fibrinogen cables for application in tissue engineering. **2001**, 73, 295-305	34
1692	Clonogenic analysis reveals reserve stem cells in postnatal mammals: I. Pluripotent mesenchymal stem cells. **2001**, 263, 350-60	51
1691	Injectable gels for tissue engineering. **2001**, 263, 342-9	367
1690	Tissue engineering in plastic reconstructive surgery. **2001**, 263, 372-8	23
1689	Engineering of vascular ingrowth matrices: are protein domains an alternative to peptides?. **2001**, 263, 379-87	28
1688	Anatomy of tissue engineering. **2001**, 263, 335	2

1687	Construction of cell-compatible layer and culture of human umbilical vascular endothelial cells on porous polystyrene membranes. **2001**, 81, 3523-3529	13
1686	Laser light scattering study of the degradation of poly(sebacic anhydride) nanoparticles. **2001**, 39, 703-708	21
1685	Crystallization and Solid-State Structure of Random Polylactide Copolymers: Poly(l-lactide-co-d-lactide)s. **2001**, 34, 4857-4864	124
1684	Microstructuring ceramic scaffolds for hepatocyte cell culture. **2001**, 12, 523-8	24
1683	A study of the cellular response to orientated fibronectin material in healing extensor rat tendon. **2001**, 12, 1005-11	3
1682	Controlled-release of IGF-I and TGF-beta1 in a photopolymerizing hydrogel for cartilage tissue engineering. **2001**, 19, 1098-104	234
1681	Degradation of partially oxidized alginate and its potential application for tissue engineering. **2001**, 17, 945-50	478
1680	Effects of filtration seeding on cell density, spatial distribution, and proliferation in nonwoven fibrous matrices. **2001**, 17, 935-44	147
1679	Adult cardiac myocytes survive and remain excitable during long-term culture on synthetic supports. **2001**, 121, 510-9	14
1678	Fabrication of porous poly(l-lactic acid) scaffolds for bone tissue engineering via precise extrusion. **2001**, 45, 773-779	111
1677	Evaluation of attachment and growth of anchorage-dependent cells on culture surfaces with type I collagen coating. **2001**, 92, 385-388	30
1676	Obesity, hypertension, and renal cancer. **2001**, 344, 531-2	5
1675	Experimental study on in situ tissue engineering of the stomach by an acellular collagen sponge scaffold graft. **2001**, 47, 206-10	62
1674	Rx for tissue restoration: Regenerative biology and medicine. **2001**, 5, 91-99	1
1673	The Impact of Biomaterials Research on Tissue Engineering. **2001**, 26, 798-799	6
1672	Who's got pull around here? Cell organization in development and tissue engineering. **2001**, 98, 4282-4	54
1671	Textile scaffolds in tissue engineering. **2001**, 291-313	3
1670	Periodontal regeneration by FGF-2 (bFGF) in primate models. **2001**, 80, 2075-9	153

1669	In vitro function of islets of Langerhans encapsulated with a membrane of porcine chondrocytes for immunoisolation. **2001**, 18, 204-10	18
1668	Bioabsorbable polymeric material coils for embolization of intracranial aneurysms: a preliminary experimental study. **2001**, 94, 454-63	120
1667	The effect of fibroblast growth factor and transforming growth factor-beta on porcine chondrocytes and tissue-engineered autologous elastic cartilage. **2001**, 7, 81-8	47
1666	Three-dimensional cell-scaffold constructs promote efficient gene transfection: implications for cell-based gene therapy. **2001**, 7, 585-98	84
1665	Rat osteoblast functions on the o-carboxymethyl chitosan-modified poly(D,L-lactic acid) surface. **2001**, 12, 1303-15	35
1664	Promoting angiogenesis in engineered tissues. **2001**, 9, 397-406	53
1663	A trial to prepare biodegradable collagen-hydroxyapatite composites for bone repair. **2001**, 12, 689-705	36
1662	A Cure for Bioengineering? A New Undergraduate Core Curriculum. **2001**, 90, 231-238	11
1661	Cell-by-cell construction of living tissue by ambient laser transfer.	1
1660	The mechanical influence of tissue engineering techniques on tracheal strength: an experimental study on sheep trachea. **2002**, 15, 227-36	13
1659	Inorganic-organic polymer hybrid scaffold for tissue engineering--II: partial enzymatic degradation of hydroxyapatite-chitosan hybrid. **2002**, 13, 1021-32	22
1658	Regulation of cell motility on polymer substrates via "dynamic," cell internalizable, ligand microinterfaces. **2002**, 8, 247-61	20
1657	Gene transfer of a human insulin-like growth factor I cDNA enhances tissue engineering of cartilage. **2002**, 13, 1621-30	74
1656	Cell differentiation by mechanical stress. **2002**, 16, 270-2	506
1655	PREPARATION OF THE HONEYCOMB PATTERNED POROUS FILM OF BIODEGRADABLE POLYMER FOR TISSUE ENGINEERING SCAFFOLDS. **2002**, 01, 689-693	26
1654	Cell culture on thin tissue sections commonly prepared for histopathology. **2002**, 16, 1847-9	11
1653	Cell-by-cell construction of living tissue. **2002**,	3
1652	Engineering growing tissues. **2002**, 99, 12025-30	334

1651	Application of stereolithography for scaffold fabrication for tissue engineered heart valves. **2002**, 48, 12-6	165
1650	Development and characterization of improved tissue engineered valve-equivalents using chemical and mechanical signaling.	1
1649	Innocuous Intracellular Ice Improves Survival of Frozen Cells. **2002**, 11, 563-571	37
1648	The emergence and application of technological advances in biotransformation studies. **2002**, 2, 67-76	8
1647	Tissue engineering of heart valves -- current aspects. **2002**, 50, 184-93	47
1646	Modulation of osteoblast function using poly(D,L-lactic acid) surfaces modified with alkylation derivative of chitosan. **2002**, 13, 53-66	11
1645	Phase separation and physical properties of PEO-containing poly(ether ester amide)s. **2002**, 13, 1337-52	20
1644	Realistic three-dimensional epithelial tissue phantoms for biomedical optics. **2002**, 7, 148-56	87
1643	Osteogenesis in altered gravity. **2002**, 8, 159-76	2
1642	A new approach to completely autologous cardiovascular tissue in humans. **2002**, 48, 234-8	20
1641	A photopolymerized sealant for corneal lacerations. **2002**, 21, 393-9	64
1640	Characterisation of Collagen Scaffolds using X-ray Microtomography. **2002**, 758, 521	
1639	Computational Design, Freeform Fabrication and Testing of Nylon-6 Tissue Engineering Scaffolds. **2002**, 758, 571	7
1638	Structure and Properties of Poly(a-hydroxyl acids)/Nano Hydroxyapatite Composite Scaffolds. **2002**, 735, 11371	1
1637	Biomimetic Poly(L-Lactic Acid) Scaffolds with Interconnected Macropores, Collagen-Like Nano-Scale Fibers, and Bone-Like Apatite. **2002**, 735, 651	
1636	A Process to Make Collagen Scaffolds with an Artificial Circulatory System using Rapid Prototyping. **2002**, 758, 531	2
1635	Composite Materials as Scaffolds for Tissue Engineering. **2002**, 227-233	1
1634	The Effect of Hydrophobicity on the Viscoelastic Creep Characteristics of Poly(ethylene glycol)-Acrylate Hydrogels. **2002**, 233-247	1

1633	FABRICATION AND IN VITRO CHARACTERIZATION OF POROUS BIOACTIVE CERAMICS WITH HIGHLY CONTROLLED MICROSTRUCTURE. **2002**, 13, 147-152	2
1632	Pull-out mechanical measurement of tissue-substrate adhesive strength: endothelial cell monolayer sheet formed on a thermoresponsive gelatin layer. **2002**, 13, 81-94	8
1631	Bridging Tendon Defects Using Autologous Tenocyte Engineered Tendon in a Hen Model. **2002**, 110, 1280-1289	169
1630	Local delivery of basic fibroblast growth factor increases both angiogenesis and engraftment of hepatocytes in tissue-engineered polymer devices. **2002**, 73, 1589-93	104
1629	Gene expression profiling by DNA microarray technology. **2002**, 13, 35-50	30
1628	Amine-reactive biodegradable diblock copolymers. **2002**, 3, 194-200	59
1627	Micropatterned Surfaces to Engineer Focal Adhesions for Analysis of Cell Adhesion Strengthening. **2002**, 18, 5579-5584	88
1626	Hybrid dendritic-linear polyester-ethers for in situ photopolymerization. **2002**, 124, 5291-3	146
1625	Poly([R]-3-hydroxybutyrate-co-glycolate): A Novel PHB Derivative Chemically Synthesized by Copolymerization of a New Cyclic Diester Monomer [R]-4-Methyl-1,5-dioxepane-2,6-dione. **2002**, 35, 2423-2425	7
1624	Cell adhesion and morphology in porous scaffold based on enantiomeric poly(lactic acid) graft-type phospholipid polymers. **2002**, 3, 1375-83	59
1623	Self-assembling biomaterials: liquid crystal phases of cholesteryl oligo(L-lactic acid) and their interactions with cells. **2002**, 99, 9662-7	125
1622	Modification of Electroactive Biomaterials for Neural Engineering Applications. **2002**, 154-165	2
1621	Increasing fibroblast response to materials using nanotopography: morphological and genetic measurements of cell response to 13-nm-high polymer demixed islands. **2002**, 276, 1-9	299
1620	Experimental study on tissue engineering of the small intestine by mesenchymal stem cell seeding. **2002**, 102, 156-60	82
1619	Bone tissue engineering: hope vs hype. **2002**, 292, 1-7	422
1618	Lipoplasty: from body contouring to tissue engineering. **2002**, 22, 121-7	14
1617	Bioreactor developments for tissue engineering applications by the example of the bioartificial liver. **2002**, 74, 99-109	5
1616	Robotic micro-assembly of scaffold/cell constructs with a shape memory alloy gripper.	6

1615	Treatment of osteochondral defects with autologous bone marrow in a hyaluronan-based delivery vehicle. **2002**, 8, 333-47	150
1614	Polymer-demixed nanotopography: control of fibroblast spreading and proliferation. **2002**, 8, 1099-108	233
1613	Cultured Bone on Biomaterial Substrates. **2002**, 265-298	1
1612	Cell transplantation for heart failure, and tissue engineering of cardiovascular structures. **2002**, 11, 117-21	
1611	Tissue engineering strategies for in vivo neovascularisation. **2002**, 2, 805-18	63
1610	Polyelectrolyte multilayer films modulate cytoskeletal organization in chondrosarcoma cells. **2002**, 13, 713-32	38
1609	Formation of vascularized meniscal tissue by combining gene therapy with tissue engineering. **2002** , 8, 93-105	82
1608	Innovation as co-evolution of scientific and technological networks: exploring tissue engineering. **2002**, 31, 1389-1403	346
1607	Living, autologous pulmonary artery conduits tissue engineered from human umbilical cord cells. **2002**, 74, 46-52; discussion 52	139
1606	Modeling the dynamic composition of engineered cartilage. **2002**, 408, 246-54	64
1605	The role of surface science in bioengineered materials. **2002**, 500, 61-83	379
1604	Transforming growth factor-beta in calcium alginate beads for the treatment of articular cartilage defects in the rabbit. **2002**, 18, 892-900	103
1603	Cell and nucleus deformation in compressed chondrocyte-alginate constructs: temporal changes and calculation of cell modulus. **2002**, 1570, 1-8	85
1602	A novel small animal model of left ventricular tissue engineering. **2002**, 21, 233-43	65
1601	Cardiovascular tissue engineering. **2002**, 11, 305-17	132
1600	Drug delivery therapies I: General trends and its importance on bone tissue engineering applications. **2002**, 6, 283-295	41
1599	Matrix: new bio-absorbable polymeric coils for the treatment of intracranial aneurysms. **2002**, 1247, 119-126	2
1598	Fibrin promotes migration in a three-dimensional in vitro model of wound regeneration. **2002**, 8, 787-98	97

1597	Tissue engineering--current challenges and expanding opportunities. *Science*, **2002**, 295, 1009-14	33.3	1876
1596	Interaction of human chondrocytes and NIH/3T3 fibroblasts on chloric acid-treated biodegradable polymer surfaces. **2002**, 13, 197-212		60
1595	Tissue compatibility of two biodegradable tubular scaffolds implanted adjacent to skin or buccal mucosa in mice. **2002**, 8, 649-59		36
1594	Tissue engineering of bone. **2002**, 11, 107-16		49
1593	SOFT TISSUE RECONSTRUCTION IN SEVERELY TRAUMATIZED PATIENTS USING HYALURONAN BASED DERMAL AND EPIDERMAL GRAFTS. **2002**, 87-98		
1592	Angiogenesis in Health and Disease: Insights into Basic Mechanisms and Therapeutic Opportunities. **2002**, 66, 962-975		55
1591	Scaffolds Combining Compliance and Strength. **2002**, 25, 640-641		
1590	Bioactive Hierarchical Structures for Genetic Control of Bone Morphogenesis. **2002**, 5, 243-246		6
1589	Cellular responses of bioabsorbable polymeric material and Guglielmi detachable coil in experimental aneurysms. **2002**, 33, 1120-8		69
1588	Vascularisation of tissue-engineered grafts: the regulation of angiogenesis in reconstructive surgery and in disease states. **2002**, 55, 603-10		124
1587	Encapsulated cell technology: from research to market. **2002**, 20, 382-7		51
1586	Design of segmented poly(ether ester) materials and structures for the tissue engineering of bone. **2002**, 78, 175-86		112
1585	Recent development on computer aided tissue engineering--a review. **2002**, 67, 85-103		271
1584	Polyanhydride degradation and erosion. **2002**, 54, 911-31		243
1583	Fabrication of porous scaffolds for bone tissue engineering via low-temperature deposition. **2002**, 46, 771-776		234
1582	Erodible Conducting Polymers for Potential Biomedical Applications. **2002**, 114, 149-152		9
1581	Erodible conducting polymers for potential biomedical applications. **2002**, 41, 141-4		145
1580	Fabricating autologous tissue to engineer artificial nerve. **2002**, 22, 133-7		43

1579	Determination of oxygen gradients in engineered tissue using a fluorescent sensor. **2002**, 80, 73-83	190
1578	Fabrication of porous biodegradable polymer scaffolds using a solvent merging/particulate leaching method. **2002**, 59, 676-81	190
1577	Engineering vascular networks in porous polymer matrices. **2002**, 60, 668-78	180
1576	Application of magnetic resonance microscopy to tissue engineering: a polylactide model. **2002**, 61, 380-90	44
1575	An improved method to prepare hyaluronic acid and type II collagen composite matrices. **2002**, 61, 330-6	46
1574	Electrospun nanofibrous structure: a novel scaffold for tissue engineering. **2002**, 60, 613-21	1917
1573	Preparation of macroporous biodegradable PLGA scaffolds for cell attachment with the use of mixed salts as porogen additives. **2002**, 63, 271-9	101
1572	Polymer--calcium phosphate cement composites for bone substitutes. **2002**, 61, 581-92	70
1571	Porous polymer/bioactive glass composites for soft-to-hard tissue interfaces. **2002**, 61, 551-63	84
1570	Hyaluronate-heparin conjugate gels for the delivery of basic fibroblast growth factor (FGF-2). **2002**, 62, 128-35	61
1569	Fabrication and surface modification of macroporous poly(L-lactic acid) and poly(L-lactic-co-glycolic acid) (70/30) cell scaffolds for human skin fibroblast cell culture. **2002**, 62, 438-46	298
1568	Perfusion culture of hepatocytes within galactose-derivatized biodegradable poly(lactide-co-glycolide) scaffolds prepared by gas foaming of effervescent salts. **2002**, 59, 127-35	52
1567	Drug-releasing scaffolds fabricated from drug-loaded microspheres. **2002**, 59, 349-56	65
1566	A comparative study of primary and immortalized cell adhesion characteristics to modified polymer surfaces: toward the goal of effective re-epithelialization. **2002**, 59, 357-65	12
1565	Biomimetic calcium phosphate coatings on Polyactive 1000/70/30. **2002**, 59, 535-46	45
1564	Electrically communicating three-dimensional cardiac tissue mimic fabricated by layered cultured cardiomyocyte sheets. **2002**, 60, 110-7	166
1563	Alginate type and RGD density control myoblast phenotype. **2002**, 60, 217-23	321
1562	Molecular tissue engineering: Concepts, status and challenge. **2002**, 17, 30-34	6

1561 Varia I. **2002**, 34, 20-31

1560 Biodegradable porous scaffolds for tissue engineering. **2002**, 5, 77-83 32

1559 Tissue engineering for myocardial regeneration. **2002**, 5, 216-222 4

1558 Human adrenocortical cell xenotransplantation: model of cotransplantation of human adrenocortical cells and 3T3 cells in scid mice to form vascularized functional tissue and prevent adrenal insufficiency. **2002**, 9, 58-67 24

1557 In vitro engineering of bone using a rotational oxygen-permeable bioreactor system. **2002**, 20, 3-8 56

1556 Alternative tissue engineering scaffolds based on starch: processing methodologies, morphology, degradation and mechanical properties. **2002**, 20, 19-26 176

1555 Preliminary study on the adhesion and proliferation of human osteoblasts on starch-based scaffolds. **2002**, 20, 27-33 91

1554 Preliminary in vivo study of an intra-aortic impeller pump driven by an extracorporeal whirling magnet. **2002**, 26, 890-3 9

1553 Tissue engineered heart valves: autologous cell seeding on biodegradable polymer scaffold. **2002**, 26, 402-6 39

1552 Functional analysis of the tissue-engineered stomach wall. **2002**, 26, 868-72 31

1551 Mock loop testing of On-x prosthetic mitral valve with Doppler echocardiography. **2002**, 26, 872-8 11

1550 Biodegradation and biocompatibility of polyorganophosphazene. **2002**, 26, 883-90 9

1549 A two year follow-up study of common virus infections in hemodialysis patients in Taiwan. **2002**, 26, 879-83 2

1548 Tissue Engineering: Growth and Transplantation of Neocartilage in an Experimental Model. **2002**, 34, 239-243 1

1547 Invited Commentary to:â Tissue Engineering: Growth and Transplantation of Neocartilage in an Experimental Modelâ **2002**, 34, 243-244

1546 Biodegradable blends of poly(caprolactone) with chitin and chitosan: specific interactions, thermal properties and crystallization behavior. **2002**, 51, 33-39 70

1545 Improving cell affinity of poly(D,L-lactide) film modified by anhydrous ammonia plasma treatment. **2002**, 13, 220-226 91

1544 Fabrication and biocompatibility of cell scaffolds of poly(L-lactic acid) and poly(L-lactic-co-glycolic acid). **2002**, 13, 227-232 77

1543	Tissue engineered microsphere-based matrices for bone repair: design and evaluation. **2002**, 23, 551-9	235
1542	Culture of primary human gingival fibroblasts on biodegradable membranes. **2002**, 23, 1461-9	49
1541	Enhanced expression of the osteoblastic phenotype on substrates that modulate fibronectin conformation and integrin receptor binding. **2002**, 23, 2527-34	112
1540	Impact of sterilization on the porous design and cell behavior in collagen sponges prepared for tissue engineering. **2002**, 23, 2855-61	100
1539	In vitro reaction of endothelial cells to polymer demixed nanotopography. **2002**, 23, 2945-54	402
1538	RGD-peptides for tissue engineering of articular cartilage. **2002**, 23, 3455-63	115
1537	Acrylic acid grafting and collagen immobilization on poly(ethylene terephthalate) surfaces for adherence and growth of human bladder smooth muscle cells. **2002**, 23, 3149-58	140
1536	Preparation and histological evaluation of biomimetic three-dimensional hydroxyapatite/chitosan-gelatin network composite scaffolds. **2002**, 23, 3227-34	359
1535	Synthesis and characterization of photocrosslinkable, degradable poly(vinyl alcohol)-based tissue engineering scaffolds. **2002**, 23, 3617-26	205
1534	Tailoring the pore architecture in 3-D alginate scaffolds by controlling the freezing regime during fabrication. **2002**, 23, 4087-94	259
1533	Silk matrix for tissue engineered anterior cruciate ligaments. **2002**, 23, 4131-41	726
1532	A novel porous cells scaffold made of polylactide-dextran blend by combining phase-separation and particle-leaching techniques. **2002**, 23, 4483-92	158
1531	Bone growth in biomimetic apatite coated porous Polyactive 1000PEGT70PBT30 implants. **2002**, 23, 4649-56	59
1530	Covalent immobilization of chitosan/heparin complex with a photosensitive hetero-bifunctional crosslinking reagent on PLA surface. **2002**, 23, 4657-65	163
1529	Novel approach to fabricate porous gelatin-siloxane hybrids for bone tissue engineering. **2002**, 23, 4765-73	196
1528	The injured brain interacts reciprocally with neural stem cells supported by scaffolds to reconstitute lost tissue. **2002**, 20, 1111-7	493
1527	Building drug delivery into tissue engineering. **2002**, 1, 177-86	261
1526	Biological response of chondrocytes to hydrogels. **2002**, 961, 118-22	42

1525	Bioreactors and bioprocessing for tissue engineering. **2002**, 961, 210-5	115
1524	Simple method for increasing cell-attachment ability of biodegradable polyester. **2002**, 961, 288-91	4
1523	From lab bench to market: critical issues in tissue engineering. **2002**, 961, 372-85	116
1522	Three-Dimensional Photopatterning of Hydrogels Containing Living Cells. **2002**, 4, 257-266	327
1521	Fabrication of pulsatile cardiac tissue grafts using a novel 3-dimensional cell sheet manipulation technique and temperature-responsive cell culture surfaces. **2002**, 90, e40	760
1520	Molecular self-assembly of surfactant-like peptides to form nanotubes and nanovesicles. **2002**, 99, 5355-60	711
1519	Use of triethylcitrate plasticizer in the production of poly-L-lactic acid implants with different degradation times. **2003**, 14, 635-40	4
1518	Cardiac tissue engineering for replacement therapy. **2003**, 8, 259-69	145
1517	Cardiac tissue engineering, ex-vivo: design principles in biomaterials and bioreactors. **2003**, 8, 271-6	57
1516	Induction of human osteoprogenitor chemotaxis, proliferation, differentiation, and bone formation by osteoblast stimulating factor-1/pleiotrophin: osteoconductive biomimetic scaffolds for tissue engineering. **2003**, 18, 47-57	129
1515	Tissue engineering of dermal substitutes based on porous PEGT/PBT copolymer scaffolds: comparison of culture conditions. **2003**, 14, 235-40	17
1514	Development of isolation and cultivation method for outer root sheath cells from human hair follicle and construction of bioartificial skin. **2003**, 8, 151-157	7
1513	Growth factor releasing porous poly (epsilon-caprolactone)-chitosan matrices for enhanced bone regenerative therapy. **2003**, 26, 76-82	17
1512	Effects of hyaluronic acid-chitosan-gelatin complex on the apoptosis and cell cycle of L929 cells. **2003**, 48, 1807-1810	2
1511	Tissue and organ engineering: can we build intestine and vital organs?. **2003**, 7, 831-5	35
1510	Optimized Synthesis of Salicylate-based Poly(anhydride-esters). **2013**, 49, 441-448	54
1509	Fetal tissue engineering from amniotic fluid. **2003**, 196, 592-7	105
1508	Transglutaminase-mediated gelatin matrices incorporating cell adhesion factors as a biomaterial for tissue engineering. **2003**, 95, 196-199	104

1507	Formation of a mandibular condyle in vitro by tissue engineering. **2003**, 61, 94-100	104
1506	A three-dimensional cell culture model for bovine endometrium: regeneration of a multicellular spheroid using ascorbate. **2003**, 24, 258-69	37
1505	Tissue engineering with mesenchymal stem cells. **2003**, 22, 51-6	45
1504	An extracellular matrix extract for tissue-engineered cartilage. **2003**, 22, 71-6	14
1503	Covalent bonding of collagen on poly(L-lactic acid) by gamma irradiation. **2003**, 207, 165-174	46
1502	Polyhydroxyalkanonate derivatives in current clinical applications and trials. **2003**, 55, 501-18	159
1501	Comparison of vascular endothelial growth factor and basic fibroblast growth factor on angiogenesis in SCID mice. **2003**, 87, 49-56	143
1500	Abstracts. **2003**, 87, 199-308	
1499	Poly(D,L-lactide-co-ethyl ethylene phosphate)s as new drug carriers. **2003**, 92, 39-48	89
1498	Acellularized porcine heart valve scaffolds for heart valve tissue engineering and the risk of cross-species transmission of porcine endogenous retrovirus. **2003**, 126, 1000-4	44
1497	Plasma-treated, collagen-anchored polylactone: Its cell affinity evaluation under shear or shear-free conditions. **2003**, 67, 1139-47	50
1496	Cementum engineering with three-dimensional polymer scaffolds. **2003**, 67, 54-60	62
1495	Action of microparticles of heparin and alginate crosslinked gel when used as injectable artificial matrices to stabilize basic fibroblast growth factor and induce angiogenesis by controlling its release. **2003**, 67, 61-8	48
1494	Effect of flow perfusion on the osteogenic differentiation of bone marrow stromal cells cultured on starch-based three-dimensional scaffolds. **2003**, 67, 87-95	285
1493	Nano-fibrous scaffolding architecture selectively enhances protein adsorption contributing to cell attachment. **2003**, 67, 531-7	546
1492	Tissue engineered bone: measurement of nutrient transport in three-dimensional matrices. **2003**, 67, 357-67	141
1491	Evaluation of a galactose-carrying gelatin sponge for hepatocytes culture and transplantation. **2003**, 67, 733-41	23
1490	Preparation and characterization of macroporous chitosan-gelatin/beta-tricalcium phosphate composite scaffolds for bone tissue engineering. **2003**, 67, 844-55	173

1489	Proinflammatory phenotype of endothelial cells after coculture with biomaterial-treated blood cells. **2003**, 64, 397-410	7
1488	Three-dimensional, bioactive, biodegradable, polymer-bioactive glass composite scaffolds with improved mechanical properties support collagen synthesis and mineralization of human osteoblast-like cells in vitro. **2003**, 64, 465-74	288
1487	Cell attachment and growth on films prepared from poly(depsipeptide-co-lactide) having various functional groups. **2003**, 65, 79-88	43
1486	Surface chemistry modulates fibronectin conformation and directs integrin binding and specificity to control cell adhesion. **2003**, 66, 247-59	723
1485	Enhancing the vascularization of three-dimensional porous alginate scaffolds by incorporating controlled release basic fibroblast growth factor microspheres. **2003**, 65, 489-97	356
1484	Preparation, characterization, and in vitro degradation of bioresorbable and bioactive composites based on Bioglass-filled polylactide foams. **2003**, 66, 335-46	142
1483	Seeding cells into needled felt scaffolds for tissue engineering applications. **2003**, 66, 425-31	22
1482	Manipulations in hydrogel chemistry control photoencapsulated chondrocyte behavior and their extracellular matrix production. **2003**, 67, 1430-6	128
1481	Preparation of interconnected highly porous polymeric structures by a replication and freeze-drying process. **2003**, 67, 732-40	95
1480	Surface modification of poly(glycolic acid) (PGA) for biomedical applications. **2003**, 92, 933-7	59
1479	Cell and organ printing 2: fusion of cell aggregates in three-dimensional gels. **2003**, 272, 497-502	264
1478	Modeling ionic hydrogels swelling: characterization of the non-steady state. **2003**, 84, 20-8	28
1477	Oscillating perfusion of cell suspensions through three-dimensional scaffolds enhances cell seeding efficiency and uniformity. **2003**, 84, 205-14	352
1476	Synthesis, characterization and biocompatibility studies of oligosiloxane modified polythiophenes. **2003**, 39, 1405-1412	35
1475	Change in cell adhesion property on cytocompatible interface using phospholipid polymer grafted with poly(D,L-lactic acid)segment for tissue engineering. **2003**, 4, 539-544	18
1474	Enzymatic degradation behavior of porous silk fibroin sheets. **2003**, 24, 357-65	324
1473	Ascorbate modulation of bovine chondrocyte growth, matrix protein gene expression and synthesis in three-dimensional collagen sponges. **2003**, 24, 851-61	47
1472	Fibroblast reaction to island topography: changes in cytoskeleton and morphology with time. **2003**, 24, 927-35	226

1471	Fabrication of a novel porous PGA-chitosan hybrid matrix for tissue engineering. **2003**, 24, 1047-57	129
1470	Novel collagen scaffolds with predefined internal morphology made by solid freeform fabrication. **2003**, 24, 1487-97	292
1469	Engineering cell adhesive surfaces that direct integrin alpha5beta1 binding using a recombinant fragment of fibronectin. **2003**, 24, 1759-70	159
1468	Enhanced blood compatibility of polymers grafted by sulfonated PEO via a negative cilia concept. **2003**, 24, 2213-23	81
1467	A strategy for the development of tissue engineering scaffolds that regulate cell behavior. **2003**, 24, 2267-75	77
1466	Successful application of tissue engineered vascular autografts: clinical experience. **2003**, 24, 2303-8	229
1465	Cell sheet engineering for myocardial tissue reconstruction. **2003**, 24, 2309-16	576
1464	Monitoring the degradation process of biopolymers by ultrasonic longitudinal wave pulse-echo technique. **2003**, 24, 3871-6	29
1463	In situ pore formation in a polymer matrix by differential polymer degradation. **2003**, 24, 3133-7	22
1462	Bioactive glass-polymer materials for controlled release of ibuprofen. **2003**, 24, 4037-43	68
1461	The design of polymer microcarrier surfaces for enhanced cell growth. **2003**, 24, 4253-64	36
1460	Hydrogels for tissue engineering: scaffold design variables and applications. **2003**, 24, 4337-51	3830
1459	Towards biomimetic scaffolds: anhydrous scaffold fabrication from biodegradable amine-reactive diblock copolymers. **2003**, 24, 4459-73	48
1458	Elastic cartilage engineering using novel scaffold architectures in combination with a biomimetic cell carrier. **2003**, 24, 4445-58	69
1457	Collagen/chitosan porous scaffolds with improved biostability for skin tissue engineering. **2003**, 24, 4833-41	853
1456	Expansion of human nasal chondrocytes on macroporous microcarriers enhances redifferentiation. **2003**, 24, 5153-61	115
1455	Pattern formation in polymer films under the mask. **2003**, 44, 2379-2384	15
1454	Ring-opening polymerization of ε-caprolactone and l-lactide using organic amino calcium catalyst. **2003**, 44, 2331-2336	74

1453	Synthesis and characterization of di- and triblock copolymers of poly(ethylene oxide) and poly(dl-valine-co-dl-leucine). **2003**, 44, 5497-5500	21
1452	Bioresorbable and bioactive polymer/Bioglass® composites with tailored pore structure for tissue engineering applications. **2003**, 63, 2417-2429	248
1451	Chitosan-thioglycolic acid conjugate: a new scaffold material for tissue engineering?. **2003**, 256, 183-9	77
1450	Effects of two vitamins, two growth factors and dexamethasone on the proliferation of rat bone marrow stromal cells and osteoblastic MC3T3-E1 cells. **2003**, 30, 697-701	20
1449	Gene expression profile of tissue engineered skin subjected to acute barrier disruption. **2003**, 121, 368-82	26
1448	Enhancing the cell affinity of macroporous poly(L-lactide) cell scaffold by a convenient surface modification method. **2003**, 52, 1892-1899	89
1447	Fabrication of porous collagen/chitosan scaffolds with controlling microstructure for dermal equivalent. **2003**, 14, 373-379	37
1446	Tissue engineering of blood vessels with endothelial cells differentiated from mouse embryonic stem cells. **2003**, 13, 335-41	51
1445	Human arteries engineered in vitro. **2003**, 4, 633-8	158
1444	Crystallization and structure formation of poly(l-lactide-co-meso-lactide) random copolymers: a time-resolved wide- and small-angle X-ray scattering study. **2003**, 44, 711-717	74
1443	Synthesis and characterization of PCL/PEG/PCL triblock copolymers by using calcium catalyst. **2003**, 44, 2025-2031	157
1442	Clinical applications of tissue engineered constructs. **2003**, 30, 485-98	70
1441	Tissue engineering. **2003**, 30, 91-103, vii	22
1440	New frontiers in bone tissue engineering. **2003**, 30, 641-8, x	42
1439	Tissue engineering in otorhinolaryngology. **2003**, 22, 549-64	27
1438	Knitted poly-lactide-co-glycolide scaffold loaded with bone marrow stromal cells in repair and regeneration of rabbit Achilles tendon. **2003**, 9, 431-9	295
1437	Bone tissue engineering: recent advances and promising therapeutic agents. **2003**, 3, 409-23	36
1436	Role of vascular endothelial growth factor in bone marrow stromal cell modulation of endothelial cells. **2003**, 9, 95-103	154

1435	Liver tissue engineering within alginate scaffolds: effects of cell-seeding density on hepatocyte viability, morphology, and function. **2003**, 9, 757-66	218
1434	Microfluidic patterning of cells in extracellular matrix biopolymers: effects of channel size, cell type, and matrix composition on pattern integrity. **2003**, 9, 255-67	133
1433	Thermal dehydration treatment and glutaraldehyde cross-linking to increase the biostability of collagen-chitosan porous scaffolds used as dermal equivalent. **2003**, 14, 861-74	60
1432	Percutaneous transvenous cellular cardiomyoplasty. A novel nonsurgical approach for myocardial cell transplantation. **2003**, 41, 1964-71	152
1431	Bone regeneration following injection of mesenchymal stem cells and fibrin glue with a biodegradable scaffold. **2003**, 31, 27-33	186
1430	Fibronectin Adsorption and Cell Adhesion to Mixed Monolayers of Tri(ethylene glycol)- and Methyl-Terminated Alkanethiolsâ **2003**, 19, 1847-1852	72
1429	Adsorption-Induced Conformational Changes in Fibronectin Due to Interactions with Well-Defined Surface Chemistries. **2003**, 19, 8033-8040	232
1428	Mechanical Properties of Artificial Protein Matrices Engineered for Control of Cell and Tissue Behavior. **2003**, 36, 1553-1558	138
1427	Poly(3-hydroxyalkanoate)s functionalized with carboxylic acid groups in the side chain. **2003**, 4, 193-5	40
1426	Polycarbonate and Poly(carbonateâester)s Synthesized from Biocompatible Building Blocks of Glycerol and Lactic Acid. **2003**, 36, 3557-3562	93
1425	Tissue engineering of cartilage. **2003**, 30, 519-37	33
1424	Novel approach to regeneration of periodontal tissues based on in situ tissue engineering: effects of controlled release of basic fibroblast growth factor from a sandwich membrane. **2003**, 9, 153-62	115
1423	Experimental assessment of small intestinal submucosa as a small bowel graft in a rat model. **2003**, 38, 1596-601	53
1422	Redifferentiation of dedifferentiated bovine chondrocytes when cultured in vitro in a PLGA-collagen hybrid mesh. **2003**, 542, 95-9	61
1421	In vitro bone formation using muscle-derived cells: a new paradigm for bone tissue engineering using polymer-bone morphogenetic protein matrices. **2003**, 305, 882-9	47
1420	Image-based biomimetric approach to design and fabrication of tissue engineered bone. **2003**, 1256, 726-732	8
1419	Syntheses and physical characterization of new aliphatic triblock poly(L-lactide-b-butylene succinate-b-L-lactide)s bearing soft and hard biodegradable building blocks. **2003**, 4, 1827-34	65
1418	Preparation and Characterization of Collagen/Chitosan Matrices As Potential Biomaterials. **2003**, 18, 453-467	34

1417	Cryopreservation of collagen-based tissue equivalents. I. Effect of freezing in the absence of cryoprotective agents. **2003**, 9, 1089-100	32
1416	A closer view of tissue engineering in China: the experience of tissue construction in immunocompetent animals. **2003**, 9 Suppl 1, S17-30	13
1415	A study of the ring-opening of lactides and related cyclic esters by Ph2SnX2 and Ph3SnX compounds (X = NMe2, OR). **2003**, 27, 1167-1176	44
1414	Tissue-engineering approach to the repair and regeneration of tendons and ligaments. **2003**, 9 Suppl 1, S31-44	136
1413	In vitro assessment of the enzymatic degradation of several starch based biomaterials. **2003**, 4, 1703-12	144
1412	Photografting of poly(hydroxylethyl acrylate) onto porous polyurethane scaffolds to improve their endothelial cell compatibility. **2003**, 14, 937-50	22
1411	Natural marine sponge fiber skeleton: a biomimetic scaffold for human osteoprogenitor cell attachment, growth, and differentiation. **2003**, 9, 1159-66	112
1410	Preparation and characterization of collagen-hydroxyapatite composite used for bone tissue engineering scaffold. **2003**, 31, 435-48	30
1409	Novel Osteoinductive Biomimetic Scaffolds Stimulate Human Osteoprogenitor Activity--Implications for Skeletal Repair. **2003**, 44, 312-317	18
1408	Fabrication and biocompatibility of collagen sponge reinforced with poly(glycolic acid) fiber. **2003**, 9, 1101-12	97
1407	Effect of implantation site on hepatocytes heterotopically transplanted on biodegradable polymer scaffolds. **2003**, 9, 1227-32	50
1406	The development of porous alginate/elastin/PEG composite matrix for cardiovascular engineering. **2003**, 17, 287-301	18
1405	First evidence that bone marrow cells contribute to the construction of tissue-engineered vascular autografts in vivo. **2003**, 108, 1729-34	241
1404	Freeform fabrication of Nylon-6 tissue engineering scaffolds. **2003**, 9, 43-49	85
1403	Functional textiles in prevention of chronic wounds, wound healing and tissue engineering. **2003**, 31, 82-97	34
1402	Efficient and stable retroviral transfection of ovine endothelial cells with green fluorescent protein for cardiovascular tissue engineering. **2003**, 9, 137-41	13
1401	Gene therapy in tissue-engineered blood vessels. **2003**, 9, 1281-7	15
1400	Optimum combination of monolayer and three-dimensional cultures for cartilage-like tissue engineering. **2003**, 9, 41-9	21

1399	Mechanical phase diagram of shrinking cylindrical gels. **2003**, 68, 021801	26
1398	Analytical model for predicting mechanotransduction effects in engineered cardiac tissue. **2003**, 9, 283-9	18
1397	Biocompatible collagen scaffolds from a human amniotic membrane: physicochemical and in vitro culture characteristics. **2003**, 14, 689-706	31
1396	In vivo model for cross-species porcine endogenous retrovirus transmission using tissue engineered pulmonary arteries. **2003**, 24, 358-63	17
1395	FABRICATION OF 3-D MICROPARTS FOR THE ASSEMBLY OF SCAFFOLD/CELL CONSTRUCTS IN TISSUE ENGINEERING. **2003**, 04, 281-284	4
1394	Biomaterial forming research using RP technology. **2003**, 9, 142-149	22
1393	Matrix and bioabsorbable polymeric coils accelerate healing of intracranial aneurysms: long-term experimental study. **2003**, 34, 2031-7	197
1392	Soft Tissue Restoration Using Tissue Engineering. **2003**, 17, 099-106	6
1391	Tissue Engineering. **2003**, 17, 089-098	
1390	Generation of 3D retina-like structures from a human retinal cell line in a NASA bioreactor. **2003**, 12, 717-31	24
1389	Autologous transplantation of gingival fibroblast-like cells and a hydroxylapatite complex graft in the treatment of periodontal osseous defects: cell cultivation and long-term report of cases. **2003**, 12, 787-97	19
1388	Tissue engineered cartilage generated from human trachea using DegraPol scaffold. **2003**, 24, 201-7	46
1387	Increasing the volume of vascularized tissue formation in engineered constructs: an experimental study in rats. **2003**, 111, 1186-92; discussion 1193-4	72
1386	Design Parameters For Functional Tissue Engineering. **2003**, 129-138	2
1385	Cardiovascular tissue engineering: constructing living tissue cardiac valves and blood vessels using bone marrow, umbilical cord blood, and peripheral blood cells. **2003**, 18, 30-7	7
1384	Tissue engineering: current state of clinical application. **2003**, 15, 267-71	20
1383	Advantages of the presence of living dermal fibroblasts within restylane for soft tissue augmentation. **2003**, 51, 587-92	39
1382	Composite tissue allotransplantation in chimeric hosts: part I. Prevention of graft-versus-host disease. **2003**, 75, 922-32	41

1381 Endothelial progenitor cells: the promise of vascular stem cells for plastic surgery. **2003**, 111, 846-54 43

1380 Biomolecules at Interfaces. **2003**,

1379 Muscle tissue engineering for partial glossectomy defects. **2003**, 5, 403-7 17

1378 Gene-Enhanced Tissue Engineering. **2003**,

1377 Higher Water Intrusion Property on Novel Porous Matrix Composed of Bioinspired Polymer Stereocomplex for Tissue Engineering. **2003**, 32, 192-193 11

1376 Regulation of Cellular Response to Mechanical Signals by Matrix Design. **2003**, 291-304 1

1375 Effect of basic fibroblast growth factor on vascularization in esophagus tissue engineering. **2003**, 26, 241-4 14

1374 A Full Spectrum of Functional Tissue-Engineered Blood Vessels: From Macroscopic to Microscopic. **2003**, 347-359

1373 Effect of GLP-2 on mucosal morphology and SGLT1 expression in tissue-engineered neointestine. **2003**, 285, G1345-52 45

1372 Introduction. **2003**, 1-7

1371 Prosthetic Materials. **2003**,

1370 Artificial Soft Tissue Fabrication from Cell-Contracted Biopolymers. **2003**, 305-317 2

1369 Ex vivo expansion of corneal limbal epithelial/stem cells for corneal surface reconstruction. **2003**, 13, 515-24 49

1368 Cell sheet engineering for myocardial tissue reconstruction. **2003**, 211-218

1367 Embryonic Stem Cells in Tissue Engineering. **2004**, 737-746 2

1366 [Reconstruction of extensive soft tissue loss by transplantation of dermal and epidermal equivalents]. **2004**, 129, 29-36 5

1365 Effects of osteogenic induction on mesenchymal cells from fetal and maternal parts of human placenta. **2004**, 13, 337-41 17

1364 Translational research for injectable tissue-engineered bone regeneration using mesenchymal stem cells and platelet-rich plasma: from basic research to clinical case study. **2004**, 13, 343-55 122

1363	Engineering the hepatocyte differentiation-proliferation balance by acellular cadherin micropresentation. **2004**, 10, 553-64	15
1362	Perfusion bioreactor for small diameter tissue-engineered arteries. **2004**, 10, 930-41	120
1361	Tissue engineering of ligaments: a comparison of bone marrow stromal cells, anterior cruciate ligament, and skin fibroblasts as cell source. **2004**, 10, 893-903	144
1360	Tissue engineering of fish skin: behavior of fish cells on poly(ethylene glycol terephthalate)/poly(butylene terephthalate) copolymers in relation to the composition of the polymer substrate as an initial step in constructing a robotic/living tissue hybrid. **2004**, 10, 7-21	8
1359	Use of Directional Solidification to Quantify the Thermophysical Properties of DMSO-based Cryoprotectant Solutions. **2004**, 2, 276-289	4
1358	Composite articular cartilage engineered on a chondrocyte-seeded aliphatic polyurethane sponge. **2004**, 10, 1084-92	7
1357	Computer Aided Tissue Engineering for Modeling and Design of Novel Tissue Scaffolds. **2004**, 1, 633-640	16
1356	Crystallization of POSS in a PEG-Based Multiblock Polyurethane: Toward A Hybrid Hydrogel. **2004**, 847, 59	4
1355	Collagen-Inspired Nano-fibrous Poly(L-lactic acid) Scaffolds for Bone Tissue Engineering Created from Reverse Solid Freeform Fabrication. **2004**, 823, W11.13.1	2
1354	Fabrication of Novel Porous Chitosan Matrices as Scaffolds for Bone Tissue Engineering. **2004**, 845, 327	2
1353	Layer-by-layer printing of cells and its application to tissue engineering. **2004**, 845, 5	9
1352	Selective Laser Sintering of Polycaprolactone Bone Tissue Engineering Scaffolds. **2004**, 845, 340	3
1351	Biodegradable polymers and composites in biomedical applications: from catgut to tissue engineering. Part 2 Systems for temporary replacement and advanced tissue regeneration. **2004**, 49, 274-285	48
1350	Real three-dimensional microfabrication for biodegradable polymers: demonstration of high-resolution and biocompatibility for implantable microdevices. **2004**, 2004, 2679-82	3
1349	Use of omentum as an in vivo cell culture system in tissue engineering. **2004**, 50, 464-7	17
1348	Gene delivery from polymer scaffolds for tissue engineering. **2004**, 1, 127-38	96
1347	Vitreous Preservation of Rabbit Articular Cartilage. **2004**, 2, 67-74	31
1346	Biodegradable polyester elastomers in tissue engineering. **2004**, 4, 801-12	169

1345	Tissue Engineering. **2004**,	5
1344	Barium alginate capsules for 3D immobilisation of living cells: morphology, membrane properties and permeability. **2004**, 14, 167-172	6
1343	Injectable cartilage tissue engineering. **2004**, 4, 1849-59	97
1342	Bioengineered teeth from cultured rat tooth bud cells. **2004**, 83, 523-8	302
1341	Vitreous preservation of articular cartilage grafts. **2004**, 17, 65-70	49
1340	[Growth behaviour of human mononuclear cells derived from bone marrow and cord blood on a collagen carrier for osteogenic regeneration]. **2004**, 49, 227-32	6
1339	PREPARATION OF A NOVEL SEMI-INTERPENETRATING POLYMER NETWORK (IPN) AND STUDY OF THE RELEASE DYNAMICS OF HUMAN BLOOD THROUGH THE IPN. **2004**, 53, 319-339	5
1338	Engineering of bypass conduits to improve patency. **2004**, 37, 351-66	43
1337	Mechanical and structural properties of a novel hybrid heart valve scaffold for tissue engineering. **2004**, 28, 971-9	51
1336	Differentiation pattern of Vero cells cultured on poly(L-lactic acid)/poly(hydroxybutyrate-co-hydroxyvalerate) blends. **2004**, 28, 381-9	30
1335	Tissue-engineered injectable bone regeneration for osseointegrated dental implants. **2004**, 15, 589-97	102
1334	Differential regulation by IL-1beta and EGF of expression of three different hyaluronan synthases in oral mucosal epithelial cells and fibroblasts and dermal fibroblasts: quantitative analysis using real-time RT-PCR. **2004**, 122, 631-9	66
1333	The role of bioreactors in tissue engineering. **2004**, 22, 80-6	879
1332	Rapid prototyping in tissue engineering: challenges and potential. **2004**, 22, 643-52	658
1331	Application of laser printing to mammalian cells. **2004**, 453-454, 383-387	171
1330	Trachea-guided generation: dJ^vu all over again?. **2004**, 128, 14-6	18
1329	Biodegradable polymer with collagen microsponge serves as a new bioengineered cardiovascular prosthesis. **2004**, 128, 472-9	68
1328	Effect of poly DL-lactic-co-glycolic acid mesh on a three-dimensional culture of chondrocytes. **2004**, 98, 477-81	16

1327	A method of cell-sheet preparation using collagenase digestion of salmon atelocollagen fibrillar gel. **2004**, 98, 493-6	26
1326	Potential tissue-engineering applications for neonatal surgery. **2004**, 28, 164-73	3
1325	Polycaprolactone Scaffolds for Bone Tissue Engineering. **2004**, 82, 117-125	39
1324	Use of a fibrin preparation in the engineering of a vascular graft model. **2004**, 28, 296-302	44
1323	Three-dimensional tissue fabrication. **2004**, 56, 1635-47	414
1322	Tissue engineering of blood vessels: characterization of smooth-muscle cells for culturing on collagen-and-elastin-based scaffolds. **2004**, 39, 141-9	92
1321	Metabolic and histological analysis of mesenchymal stem cells grown in 3-D hyaluronan-based scaffolds. **2004**, 15, 391-5	26
1320	Construction and harvest of multilayered keratinocyte sheets using magnetite nanoparticles and magnetic force. **2004**, 10, 873-80	130
1319	Myocardial tissue engineering: creating a muscle patch for a wounded heart. **2004**, 1015, 312-9	64
1318	Custom-shaping system for bone regeneration by seeding marrow stromal cells onto a web-like biodegradable hybrid sheet. **2004**, 316, 141-53	24
1317	PDLLA/Bioglass composites for soft-tissue and hard-tissue engineering: an in vitro cell biology assessment. **2004**, 25, 3013-21	246
1316	In vitro biocompatibility assessment of poly(epsilon-caprolactone) films using L929 mouse fibroblasts. **2004**, 25, 5603-11	218
1315	Morphology of sol-gel derived nano-coated coralline hydroxyapatite. **2004**, 25, 4971-5	108
1314	Evaluation of PLLAâ□ollagen hybrid sponge as a scaffold for cartilage tissue engineering. **2004**, 24, 365-372	44
1313	Application of PLGA-collagen hybrid mesh for three-dimensional culture of canine anterior cruciate ligament cells. **2004**, 24, 861-866	23
1312	Biological laser printing of three dimensional cellular structures. **2004**, 79, 1027-1030	75
1311	Novel Synthesis of Reactive Poly(ethylene glycol) grafted Poly(L-lactide) via Two Step Polymerizations. **2004**, 52, 393-400	3
1310	Nanofabrication of microbial polyester by electrospinning promotes cell attachment. **2004**, 12, 374-378	62

1309	Tissue engineering: current state and perspectives. **2004**, 65, 1-8	238
1308	Scaffolds for tissue fabrication. **2004**, 7, 30-40	723
1307	Cell sheet engineering. **2004**, 7, 42-47	344
1306	Preparation of porous scaffolds by using freeze-extraction and freeze-gelation methods. **2004**, 25, 129-38	382
1305	Engineered heart tissue for regeneration of diseased hearts. **2004**, 25, 1639-47	218
1304	The use of animal models in developing the discipline of cardiovascular tissue engineering: a review. **2004**, 25, 1627-37	87
1303	Evaluation of the expression of collagen type I in porous calcium phosphate ceramics implanted in an extra-osseous site. **2004**, 25, 659-67	29
1302	Stabilisation of cables of fibronectin with micromolar concentrations of copper: in vitro cell substrate properties. **2004**, 25, 803-12	21
1301	Synergistic reinforcement of in situ hardening calcium phosphate composite scaffold for bone tissue engineering. **2004**, 25, 1029-37	127
1300	Hydroxyapatite-chitin materials as potential tissue engineered bone substitutes. **2004**, 25, 1049-58	124
1299	Response of human chondrocytes on polymer surfaces with different micropore sizes for tissue-engineered cartilage. **2004**, 92, 2784-2790	14
1298	Preparation of antimicrobial sutures by preirradiation grafting of acrylonitrile onto polypropylene monofilament. III. Hydrolysis of the grafted suture. **2004**, 94, 2509-2516	23
1297	Exogenous cadherin microdisplay can interfere with endogenous signaling and reprogram gene expression in cultured hepatocytes. **2004**, 85, 283-92	11
1296	Highly efficient baculovirus-mediated gene transfer into rat chondrocytes. **2004**, 88, 643-51	59
1295	Engineering cartilage-like tissue using human mesenchymal stem cells and silk protein scaffolds. **2004**, 88, 379-91	262
1294	Systematic variation in osteoblast adhesion and phenotype with substratum surface characteristics. **2004**, 68, 504-12	101
1293	Poly(ethylene glycol) enhances cell motility on protein-based poly(ethylene glycol)-polycarbonate substrates: a mechanism for cell-guided ligand remodeling. **2004**, 69, 114-23	18
1292	Fibroblast response to a controlled nanoenvironment produced by colloidal lithography. **2004**, 69, 314-22	92

1291	Effect of biphasic calcium phosphates on drug release and biological and mechanical properties of poly(epsilon-caprolactone) composite membranes. **2004**, 70, 467-79	51
1290	Encapsulation of biologics in self-assembled fibers as biostructural units for tissue engineering. **2004**, 71, 586-95	46
1289	Efficacy and cytotoxicity of cationic-agent-mediated nonviral gene transfer into osteoblasts. **2004**, 71, 308-15	36
1288	Factors affecting the structure and properties of bioactive foam scaffolds for tissue engineering. **2004**, 68, 36-44	137
1287	Hierarchically biomimetic bone scaffold materials: nano-HA/collagen/PLA composite. **2004**, 69, 158-65	378
1286	Two-dimensional multiarray formation of hepatocyte spheroids on a microfabricated PEG-brush surface. **2004**, 5, 850-5	115
1285	Regeneration of cartilage tissue by combination of canine chondrocyte and a hybrid mesh scaffold. **2004**, 24, 373-378	9
1284	Cell adhesion of bone marrow cells, chondrocytes, ligament cells and synovial cells on a PLGAâ□collagen hybrid mesh. **2004**, 24, 867-873	12
1283	Nano-fibrous poly(L-lactic acid) scaffolds with interconnected spherical macropores. **2004**, 25, 2065-73	294
1282	Fabrication of nano-structured porous PLLA scaffold intended for nerve tissue engineering. **2004**, 25, 1891-900	509
1281	Generation of porous microcellular 85/15 poly (DL-lactide-co-glycolide) foams for biomedical applications. **2004**, 25, 2611-7	130
1280	Enhanced biological stability of collagen porous scaffolds by using amino acids as novel cross-linking bridges. **2004**, 25, 2997-3004	153
1279	Layer-by-layer deposition of hyaluronic acid and poly-L-lysine for patterned cell co-cultures. **2004**, 25, 3583-92	277
1278	Pectin/poly(lactide-co-glycolide) composite matrices for biomedical applications. **2004**, 25, 3201-10	103
1277	Guided tissue regeneration: porcine matrix does not transmit PERV. **2004**, 25, 3613-20	31
1276	Computer modeling approach for microsphere-packed bone scaffold. **2004**, 36, 487-497	39
1275	Patterned self-adaptive polymer brushes by â□grafting toâ□approach and microcontact printing. **2004**, 572, 490-496	13
1274	In vitro bioactivity and dissolution of Ca2(SiO3)(OH)2 and □Ca2SiO4 fibers. **2004**, 24, 3491-3497	19

1273	Novel micelle-forming block copolymer composed of poly (Ɛcaprolactone) and poly(vinyl pyrrolidone). **2004**, 45, 1591-1597	53
1272	Tunable ordered droplets induced by convection in phase-separating P2VP/PS blend film. **2004**, 45, 8139-8146	32
1271	New type of biodegradable porous scaffolds for tissue-engineered articular cartilage. **2004**, 24, 431-435	24
1270	Self-hardening calcium phosphate composite scaffold for bone tissue engineering. **2004**, 22, 535-43	80
1269	Genetic marking with the DeltaLNGFR-gene for tracing goat cells in bone tissue engineering. **2004**, 22, 697-702	13
1268	Modeling of engineered cartilage growth in rotating bioreactors. **2004**, 59, 5035-5040	37
1267	Modulation of collagen proteolysis by chemical modification of amino acid side-chains in acellularized arteries. **2004**, 25, 2081-94	17
1266	Effect of PEG-PLLA diblock copolymer on macroporous PLLA scaffolds by thermally induced phase separation. **2004**, 25, 2319-29	134
1265	Effects of crosslinking degree of an acellular biological tissue on its tissue regeneration pattern. **2004**, 25, 3541-52	183
1264	The tensile properties of alginate hydrogels. **2004**, 25, 3187-99	398
1263	Porous poly(alpha-hydroxyacid)/Bioglass composite scaffolds for bone tissue engineering. I: Preparation and in vitro characterisation. **2004**, 25, 4185-94	287
1262	Structure and properties of nano-hydroxyapatite/polymer composite scaffolds for bone tissue engineering. **2004**, 25, 4749-57	1032
1261	Characterization and evaluation of chitosan matrix for in vitro growth of MCF-7 breast cancer cell lines. **2004**, 25, 5147-54	79
1260	Synthesis and cell affinity of functionalized poly(L-lactide-co-beta-malic acid) with high molecular weight. **2004**, 25, 5239-47	60
1259	Surface chemistry modulates focal adhesion composition and signaling through changes in integrin binding. **2004**, 25, 5947-54	499
1258	Nano-fibrous scaffolds for tissue engineering. **2004**, 39, 125-31	491
1257	Bioinert, biodegradable and injectable polymeric matrix composites for hard tissue replacement: state of the art and recent developments. **2004**, 64, 789-817	343
1256	Optimal design of bio-hybrid systems with a hollow fiber scaffold: model analysis of oxygen diffusion/consumption. **2004**, 20, 127-136	9

1255	Micropatterning neuronal cells on polyelectrolyte multilayers. **2004**, 20, 8805-11		62
1254	Enhancement of periodontal tissue regeneration by transplantation of bone marrow mesenchymal stem cells. **2004**, 75, 1281-7		264
1253	Engineering biological structures of prescribed shape using self-assembling multicellular systems. **2004**, 101, 2864-9		304
1252	Electrospun nanofibres: Biomedical applications. **2004**, 218, 35-45		7
1251	Bioreactor-based bone tissue engineering: the influence of dynamic flow on osteoblast phenotypic expression and matrix mineralization. **2004**, 101, 11203-8		237
1250	Cell growth on the porous sponges prepared from poly(depsipeptide-co-lactide) having various functional groups. **2004**, 15, 111-23		42
1249	Three-dimensional microfabrication system for biodegradable polymers complicated and non-toxic microstructures with high-resolution for implantable devices.		
1248	Selective differentiation of neural progenitor cells by high-epitope density nanofibers. *Science*, **2004**, 303, 1352-5	33.3	1883
1247	Comparative physico-chemical and in vitro properties of fibrillated collagen scaffolds from different sources. **2004**, 18, 247-64		22
1246	Mechanical Properties of Electrospun Silk Fibers. **2004**, 37, 6856-6864		263
1245	The effect of basic fibroblast growth factor on delayed-replanted monkey teeth. **2004**, 75, 1570-8		15
1244	Photocurable biodegradable liquid copolymers: synthesis of acrylate-end-capped trimethylene carbonate-based prepolymers, photocuring, and hydrolysis. **2004**, 5, 295-305		53
1243	Nonwoven Wound Dressings. **2004**, 36, 1-57		17
1242	Nanoscale Adhesion Ligand Organization Regulates Osteoblast Proliferation and Differentiation. **2004**, 4, 1501-1506		154
1241	Design and Synthesis of Hydroxyapatite Composites Containing an mPEGâDendritic Poly(l-lysine) Star Polycaprolactone. **2004**, 37, 8959-8966		29
1240	Biomimetic collagen scaffolds for human bone cell growth and differentiation. **2004**, 10, 1148-59		164
1239	Follicular cell implantation: an update on "hair follicle cloning". **2004**, 12, 219-24		13
1238	Autologous stem cells (adipose) and fibrin glue used to treat widespread traumatic calvarial defects: case report. **2004**, 32, 370-3		461

1237	Tissue engineering of cartilage using a hybrid scaffold of synthetic polymer and collagen. **2004**, 10, 323-30	139
1236	Characterization of neural stem cells on electrospun poly(L-lactic acid) nanofibrous scaffold. **2004**, 15, 1483-97	192
1235	Advances in tissue engineering. **2004**, 61, 113-34	153
1234	Anticoagulant and antiplatelet agents: their clinical and device application(s) together with usages to engineer surfaces. **2004**, 5, 798-813	133
1233	In vitro and in vivo degradation of mineralized collagen-based composite scaffold: nanohydroxyapatite/collagen/poly(L-lactide). **2004**, 10, 73-80	127
1232	Autogenous injectable bone for regeneration with mesenchymal stem cells and platelet-rich plasma: tissue-engineered bone regeneration. **2004**, 10, 955-64	260
1231	Heparin conjugated polylactide as a blood compatible material. **2004**, 5, 1877-81	85
1230	Effect of the Electrospinning Process on Polymer Crystallization Chain Conformation in Nylon-6 and Nylon-12. **2004**, 37, 877-881	187
1229	Self-Assembled Monolayers (SAMs) and Synthesis of Planar Micro- and Nanostructures. **2004**, 44, 175-206	30
1228	Electrospun nanofiber fabrication as synthetic extracellular matrix and its potential for vascular tissue engineering. **2004**, 10, 1160-8	340
1227	Structural and functional optical imaging of three-dimensional engineered tissue development. **2004**, 10, 1747-56	54
1226	In situ tissue engineering of periodontal tissues by seeding with periodontal ligament-derived cells. **2004**, 10, 537-44	104
1225	Study of the synthesis, crystallization, and morphology of poly(ethylene glycol)-poly(epsilon-caprolactone) diblock copolymers. **2004**, 5, 2042-7	124
1224	Macroporous biodegradable natural/synthetic hybrid scaffolds as small intestine submucosa impregnated poly(D,L-lactide-co-glycolide) for tissue-engineered bone. **2004**, 15, 1003-17	58
1223	Solvent-free protein encapsulation within biodegradable polymer foams. **2004**, 11, 287-93	29
1222	Bioartificial tracheal grafts: can tissue engineering keep its promise?. **2004**, 1, 241-50	21
1221	A rapid prototyping technique for the fabrication of solvent-resistant structures. **2004**, 14, 153-158	101
1220	Synthesis, Characterization, and Properties of Phosphoryl Choline Functionalized Poly ε-caprolactone and Charged Phospholipid Analogues. **2004**, 37, 954-965	49

1219	In vivo bone tissue engineering using mesenchymal stem cells on a novel electrospun nanofibrous scaffold. **2004**, 10, 33-41	390
1218	Human osteoprogenitor bone formation using encapsulated bone morphogenetic protein 2 in porous polymer scaffolds. **2004**, 10, 1037-45	102
1217	Application of tissue-engineering principles toward the development of a semilunar heart valve substitute. **2004**, 10, 1725-36	78
1216	Synthetic extracellular matrices for tissue engineering and regeneration. **2004**, 64, 181-205	62
1215	Improved vitrification solutions based on the predictability of vitrification solution toxicity. **2004**, 48, 22-35	225
1214	Mathematical modelling of skeletal repair. **2004**, 313, 825-33	29
1213	Attempted endocytosis of nano-environment produced by colloidal lithography by human fibroblasts. **2004**, 295, 387-94	117
1212	Tissue and cellular approaches to wound repair. **2004**, 187, 56S-64S	49
1211	Biological and biophysical principles in extracorporal bone tissue engineering. Part II. **2004**, 33, 523-30	68
1210	Preparation of macroporous calcium silicate ceramics. **2004**, 58, 2109-2113	71
1209	Intestinal tissue engineering: from regenerative medicine to model systems. **2004**, 120, 320-5	19
1208	Biological and biophysical principles in extracorporal bone tissue engineering. Part I. **2004**, 33, 325-32	67
1207	Novel starch-based scaffolds for bone tissue engineering: cytotoxicity, cell culture, and protein expression. **2004**, 10, 465-74	131
1206	Controlling rigidity and degradation of alginate hydrogels via molecular weight distribution. **2004**, 5, 1720-7	271
1205	Encapsulation of functional cells by sol□gel silica: actual progress and perspectives for cell therapy. **2004**, 14, 2087-2098	174
1204	Concept and clinical application of cultivated epithelial transplantation for ocular surface disorders. **2004**, 2, 21-33	15
1203	Cell response to nano-islands produced by polymer demixing: a brief review. **2004**, 151, 53-61	68
1202	Injectable scaffolds for tissue regeneration. **2004**, 14, 1915	238

1201	Split-line pattern and histologic analysis of a human osteochondral plug graft. **2004**, 20 Suppl 2, 39-45	28
1200	BONE ENGINEERING-BIOLOGICAL MATERIALS AND BONE MORPHOGENETIC PROTEINS-. **2004**, 17, 51-58	4
1199	Point of View. **2004**, 29, 1297-1298	1
1198	Effects of basic fibroblast growth factor and transforming growth factor-beta on maturation of human pediatric aortic cell culture for tissue engineering of cardiovascular structures. **2004**, 50, 9-14	25
1197	The generation of functionally differentiated, three-dimensional hepatic tissue from two-dimensional sheets of progenitor small hepatocytes and nonparenchymal cells. **2004**, 77, 1783-9	24
1196	New murine model of spontaneous autologous tissue engineering, combining an arteriovenous pedicle with matrix materials. **2004**, 113, 260-9	127
1195	Tissue-engineered composites of anulus fibrosus and nucleus pulposus for intervertebral disc replacement. **2004**, 29, 1290-7; discussion 1297-8	179
1194	Migration studies and histology of injectable microspheres of different sizes in mice. **2004**, 113, 1380-90	84
1193	First Evidence that Bone Marrow Cells Contribute to the Construction of Tissue Engineered Vascular Autografts In Vivo. **2004**, 16, 236-238	
1192	Venous Claudication in Iliofemoral Venous Thrombosis: Long-Term Effects on Venous Hemodynamics, Clinical Status, and Quality of Life. **2004**, 16, 238-239	
1191	Recent advances in tissue engineering of cartilage, bone, and tendon. **2004**, 15, 364-368	6
1190	Shape-defining scaffolds for minimally invasive tissue engineering. **2004**, 77, 1798-803	74
1189	Initial assessment of a tissue engineered stomach derived from syngeneic donors in a rat model. **2004**, 50, 468-72	10
1188	Fabrication of Polycaprolactone Bone Tissue Engineering Scaffolds Using Selective Laser Sintering. **2004**, 525	
1187	Repair of defects in articular joints. Prospects for material-based solutions in tissue engineering. **2004**, 86, 1093-9	81
1186	Articular cartilage engineering with Hyalograft C: 3-year clinical results. **2005**, 96-105	356
1185	Toward the Fabrication of Hierarchically-Structured Porous Polymers for Tissue Engineering Scaffords. **2005**, 143	
1184	Biodegradable and Bioactive Polymer/Bioglass Composite Foams for Tissue Engineering Scaffolds. **2005**, 494, 499-506	8

1183	Tissue Engineered Meniscal Tissue. **2005**, 565-584	
1182	Producing a flexible tissue-engineered cartilage framework using expanded polytetrafluoroethylene membrane as a pseudoperichondrium. **2005**, 116, 577-89	13
1181	In vitro cartilage regeneration from proliferated adult elastic chondrocytes. **2005**, 55, 196-201	17
1180	Prevention of apoptosis as a possible mechanism behind improved cryoprotection of hematopoietic cells by catalase and trehalose. **2005**, 80, 1251-60	30
1179	New frontiers in calvarial reconstruction: integrating computer-assisted design and tissue engineering in cranioplasty. **2005**, 116, 1726-41	92
1178	Maxillary sinus augmentation with platelet-rich plasma and fibrinogen cryoprecipitate: a tomographic pilot study. **2005**, 14, 63-9	19
1177	Tissue engineering. **2005**, 13, 233-41	22
1176	Strategies for tolerance induction in nonhuman primates. **2005**, 55, 545-53	7
1175	Optical coherence tomography of cell dynamics in three-dimensional engineered tissues. **2005**,	1
1174	Polymer/Ceramic Composite Scaffolds for Bone Tissue Engineering. **2005**, 241-251	
1173	Bone marrow cell-seeded biodegradable polymeric scaffold enhances angiogenesis and improves function of the infarcted heart. **2005**, 69, 850-7	38
1172	XPS identification of surface-initiated polymerisation during monomer transfer moulding of poly(e-caprolactone)/Bioglass® fibre composite. **2005**, 252, 1854-1862	11
1171	Fabrication of structures with tunable morphologies and sizes by soft molding. **2005**, 252, 1947-1953	13
1170	Fabrication and structural characterization of porous biodegradable poly(dl-lactic-co-glycolic acid) scaffolds with controlled range of pore sizes. **2005**, 87, 487-493	42
1169	The influence of dispersant concentration on the pore morphology of hydroxyapatite ceramics for bone tissue engineering. **2005**, 26, 697-702	143
1168	Fast setting calcium phosphate-chitosan scaffold: mechanical properties and biocompatibility. **2005**, 26, 1337-48	237
1167	Collagen-coated polylactide microspheres as chondrocyte microcarriers. **2005**, 26, 6305-13	144
1166	The effect of RGD peptide-conjugated magnetite cationic liposomes on cell growth and cell sheet harvesting. **2005**, 26, 6185-93	162

1165	Bio-CAD modeling and its applications in computer-aided tissue engineering. **2005**, 37, 1097-1114	252
1164	Study of the connectivity properties of Bioglass -filled polylactide foam scaffolds by image analysis and impedance spectroscopy. **2005**, 1, 565-74	11
1163	Novel capillary channel fiber scaffolds for guided tissue engineering. **2005**, 1, 607-14	28
1162	Adsorption of lactic acid from fermentation broth and aqueous solutions on Zeolite molecular sieves. **2005**, 60, 5004-5009	59
1161	Preparation and characterization of RGD-immobilized chitosan scaffolds. **2005**, 26, 3197-206	195
1160	Osteogenic differentiation of mesenchymal stem cells in biodegradable sponges composed of gelatin and beta-tricalcium phosphate. **2005**, 26, 3587-96	264
1159	Self-cross-linking biopolymers as injectable in situ forming biodegradable scaffolds. **2005**, 26, 3941-51	516
1158	Enhanced osteoinduction by controlled release of bone morphogenetic protein-2 from biodegradable sponge composed of gelatin and beta-tricalcium phosphate. **2005**, 26, 4856-65	223
1157	Nanopattern-induced changes in morphology and motility of smooth muscle cells. **2005**, 26, 5405-13	537
1156	The effect of the surface modification of titanium using a recombinant fragment of fibronectin and vitronectin on cell behavior. **2005**, 26, 5153-7	70
1155	Chitosan-RGDSGGC conjugate as a scaffold material for musculoskeletal tissue engineering. **2005**, 26, 5339-47	80
1154	Cell sheet engineering: recreating tissues without biodegradable scaffolds. **2005**, 26, 6415-22	499
1153	Bioreactors for tissue mass culture: design, characterization, and recent advances. **2005**, 26, 7481-503	294
1152	Fabrication of tubular tissue constructs by centrifugal casting of cells suspended in an in situ crosslinkable hyaluronan-gelatin hydrogel. **2005**, 26, 7628-35	79
1151	Photonic monitoring in real time of vascular endothelial growth factor receptor 2 gene expression under relaxin-induced conditions in a novel murine wound model. **2005**, 1041, 398-414	18
1150	Cryo-injury and biopreservation. **2005**, 1066, 119-35	149
1149	Applications of polymer nanofibers in biomedicine and biotechnology. **2005**, 125, 147-58	273
1148	Mesenchymal stem cells: lineage, plasticity, and skeletal therapeutic potential. **2005**, 1, 169-78	163

1147	Protein Therapeutic Delivery Using Encapsulated Cell Platform. **2005**, 197-209	3
1146	Human umbilical cord perivascular (HUCPV) cells: a source of mesenchymal progenitors. **2005**, 23, 220-9	673
1145	Biodegradable polymer composite grafts promote the survival and differentiation of retinal progenitor cells. **2005**, 23, 1579-88	170
1144	Novel methodology for fabrication of tissue-engineered tubular constructs using magnetite nanoparticles and magnetic force. **2005**, 11, 1553-61	155
1143	Study on biocompatibility of complexes of collagen-chitosan-sodium hyaluronate and cornea. **2005**, 29, 104-13	71
1142	The effect of two different bioreactors on the neocartilage formation in type II collagen modified polyester scaffolds seeded with chondrocytes. **2005**, 29, 467-74	9
1141	It takes a village to grow a tissue. **2005**, 23, 1237-9	38
1140	Porous scaffold design for tissue engineering. **2005**, 4, 518-24	2916
1139	Application of periodontal ligament cell sheet for periodontal regeneration: a pilot study in beagle dogs. **2005**, 40, 245-51	241
1138	Analysis of developmental potentials of dental pulp in vitro using GFP transgenes. **2005**, 8, 252-8	12
1137	Sinus floor elevation applied tissue-engineered bone. Comparative study between mesenchymal stem cells/platelet-rich plasma (PRP) and autogenous bone with PRP complexes in rabbits. **2005**, 16, 622-9	53
1136	Three-dimensional composites manufactured with human mesenchymal cambial layer precursor cells as an alternative for sinus floor augmentation: an in vitro study. **2005**, 16, 417-24	27
1135	Significance of release technology in tissue engineering. **2005**, 10, 1639-46	87
1134	State-of-the-art tissue engineering: from tissue engineering to organ building. **2005**, 137, 1-7	112
1133	Analysis of cell-seeded 3-dimensional bone constructs manufactured in vitro with hydroxyapatite granules obtained from red algae. **2005**, 63, 673-81	31
1132	In vitro growth and differentiation of osteoblast-like cells on hydroxyapatite ceramic granule calcified from red algae. **2005**, 63, 793-9	45
1131	Advances in tissue engineering: cell printing. **2005**, 129, 470-2	60
1130	Midterm clinical result of tissue-engineered vascular autografts seeded with autologous bone marrow cells. **2005**, 129, 1330-8	461

1129	In vitro tissue engineering of a cardiac graft using a degradable scaffold with an extracellular matrix-like topography. **2005**, 130, 1358-63	118
1128	Procoagulant phenotype of endothelial cells after coculture with biomaterial-treated blood cells. **2005**, 72, 269-78	14
1127	Fabrication and evaluation of nanoporous alumina membranes for osteoblast culture. **2005**, 72, 288-95	100
1126	Novel chitosan-based hyaluronan hybrid polymer fibers as a scaffold in ligament tissue engineering. **2005**, 74, 338-46	102
1125	Osteogenic potential of injectable tissue-engineered bone: a comparison among autogenous bone, bone substitute (Bio-oss), platelet-rich plasma, and tissue-engineered bone with respect to their mechanical properties and histological findings. **2005**, 73, 63-72	50
1124	Physical characteristics of small intestinal submucosa scaffolds are location-dependent. **2005**, 73, 90-6	55
1123	Expression pattern of the chromosome 21 transcription factor Ets2 in cell-seeded three-dimensional bone constructs. **2005**, 73, 445-55	5
1122	The bone formation in vitro and mandibular defect repair using PLGA porous scaffolds. **2005**, 74, 562-9	73
1121	Interactions of acinar cells on biomaterials with various surface properties. **2005**, 74, 254-62	26
1120	Novel fabricated matrix via electrospinning for tissue engineering. **2005**, 72, 117-24	210
1119	Porous scaffolds of gelatin-hydroxyapatite nanocomposites obtained by biomimetic approach: characterization and antibiotic drug release. **2005**, 74, 686-98	123
1118	Preparation and evaluation of ammonia-treated collagen/chitosan matrices for liver tissue engineering. **2005**, 75, 91-8	30
1117	Assembly of bone marrow stromal cell sheets with knitted poly (L-lactide) scaffold for engineering ligament analogs. **2005**, 75, 264-71	66
1116	Angiogenesis, endothelial cell functions, and tumor cell growth in biodegradable and nonbiodegradable devices. **2005**, 74, 774-81	
1115	Oncostatin M stimulates proliferation and functions of mouse fetal liver cells in three-dimensional cultures. **2005**, 202, 698-706	22
1114	Cells in fluidic environments are sensitive to flow frequency. **2005**, 204, 329-35	47
1113	Microstructure and mechanical properties of poly(L-lactide) scaffolds fabricated by gelatin particle leaching method. **2005**, 98, 1373-1379	82
1112	A novel method to prepare chitosan/montmorillonite nanocomposites. **2005**, 98, 2042-2047	72

1111	Stem cell-based composite tissue constructs for regenerative medicine. **2005**, 91, 261-84	138
1110	Regulation of cell adhesion using a signal-responsive membrane substrate. **2005**, 91, 237-43	24
1109	Aerosol delivery of mammalian cells for tissue engineering. **2005**, 91, 801-7	30
1108	E-cadherin synergistically induces hepatospecific phenotype and maturation of embryonic stem cells in conjunction with hepatotrophic factors. **2005**, 92, 257-66	37
1107	Fabrication of Biofunctionalized Quasi-Three-Dimensional Microstructures of a Nonfouling Comb Polymer Using Soft Lithography. **2005**, 15, 529-540	37
1106	Quantitative Analysis of Developing Tissues. **2005**, 51, 1312-1318	11
1105	New enantiomeric polylactide-block-poly(butylene succinate)-block-polylactides: syntheses, characterization and in situ self-assembly. **2005**, 5, 526-38	29
1104	Encapsulation and controlled release of a hydrophobic drug using a novel nanoparticle-forming hyperbranched polyester. **2005**, 5, 662-8	70
1103	Novel poly(amido-amine)-based hydrogels as scaffolds for tissue engineering. **2005**, 5, 613-22	57
1102	A Customizable Instrument for Measuring the Mechanical Properties of Thin Biomedical Membranes. **2005**, 290, 953-960	
1101	Design parameters of polymers for tissue engineering applications. **2005**, 13, 277-284	8
1100	Surface characteristics and fibroblast adhesion behavior of RGD-immobilized biodegradable PLLA films. **2005**, 13, 446-452	29
1099	Tissue engineering von Knorpelzellen. **2005**, 18, 233-238	
1098	Matrixassoziierte Chondrozytentransplantation â Biomaterialien in der Knorpelzelltransplantation. **2005**, 18, 203-208	0
1097	Significance of synthetic nanostructures in dictating cellular response. **2005**, 1, 10-21	240
1096	Synthesis and characterization of novel biotinylated biodegradable poly(ethylene glycol)-b-poly(carbonate-lactic acid) copolymers. **2005**, 1, 635-41	24
1095	Craniofacial muscle engineering using a 3-dimensional phosphate glass fibre construct. **2005**, 26, 1497-505	114
1094	Biosynthetic hydrogel scaffolds made from fibrinogen and polyethylene glycol for 3D cell cultures. **2005**, 26, 2467-77	448

1093	Electrospinning of nano/micro scale poly(L-lactic acid) aligned fibers and their potential in neural tissue engineering. **2005**, 26, 2603-10	1470
1092	Peptide-immobilized nanoporous alumina membranes for enhanced osteoblast adhesion. **2005**, 26, 1969-76	110
1091	Calvarial bone response to a tricalcium phosphate-genipin crosslinked gelatin composite. **2005**, 26, 3065-74	57
1090	The response of normal human osteoblasts to anionic polysaccharide polyelectrolyte complexes. **2005**, 26, 5138-44	18
1089	The effect of incorporating RGD adhesive peptide in polyethylene glycol diacrylate hydrogel on osteogenesis of bone marrow stromal cells. **2005**, 26, 5991-8	395
1088	Compositional effects on the formation of a calcium phosphate layer and the response of osteoblast-like cells on polymer-bioactive glass composites. **2005**, 26, 6323-34	110
1087	Direct patterning of mammalian cells onto porous tissue engineering substrates using agarose stamps. **2005**, 26, 7636-41	123
1086	A facile preparation of highly interconnected macroporous PLGA scaffolds by liquidâ□quid phase separation II. **2005**, 46, 3801-3808	48
1085	Three-dimensional fibroin/collagen scaffolds derived from aqueous solution and the use for HepG2 culture. **2005**, 46, 12662-12669	70
1084	Laser printing of single cells: statistical analysis, cell viability, and stress. **2005**, 33, 121-30	157
1083	Cartilage and bone tissue engineering for reconstructive head and neck surgery. **2005**, 262, 539-45	47
1082	The morphology and biomechanical characteristics of subcutaneously implanted tissue-engineered human septal cartilage. **2005**, 262, 993-7	31
1081	Bioreactor cultivation of three-dimensional cartilage-carrier-constructs. **2005**, 27, 273-80	28
1080	Alginate and chitosan polyion complex hybrid fibers for scaffolds in ligament and tendon tissue engineering. **2005**, 10, 302-7	156
1079	Surface modification of poly(L: -lactic acid) affects initial cell attachment, cell morphology, and cell growth. **2004**, 7, 187-93	74
1078	Dynamic matrix composition in engineered cartilage with stochastic supplementation of growth factors. **2005**, 28, 97-104	6
1077	Acrylic scaffolds with interconnected spherical pores and controlled hydrophilicity for tissue engineering. **2005**, 16, 693-8	39
1076	Biomimetic mineral-organic composite scaffolds with controlled internal architecture. **2005**, 16, 1111-9	78

1075	Porous-conductive chitosan scaffolds for tissue engineering II. in vitro and in vivo degradation. **2005**, 16, 1017-28	46
1074	Hydroxyapatite porous scaffold engineered with biological polymer hybrid coating for antibiotic Vancomycin release. **2005**, 16, 189-95	159
1073	Biological response to pre-mineralized starch based scaffolds for bone tissue engineering. **2005**, 16, 267-75	45
1072	Acrylic scaffolds with interconnected spherical pores and controlled hydrophilicity for tissue engineering. **2005**, 40, 4881-4887	22
1071	Expression of exogenous or endogenous green fluorescent protein in adipose tissue-derived stromal cells during chondrogenic differentiation. **2005**, 277, 181-90	24
1070	Drug delivery goes supercritical. **2005**, 8, 42-48	78
1069	Engineering biomaterials to control cell function. **2005**, 8, 28-35	166
1068	Characterization of ring-opening polymerization of genipin and pH-dependent cross-linking reactions between chitosan and genipin. **2005**, 43, 1985-2000	194
1067	Tissue Engineering for Regeneration of the Trachea and Bronchus. **2005**, 25, 310-315	
1066	Tissue engineering scheming by artificial intelligence. **2005**, 28, 74-8	3
1065	Development of Bioartificial Liver. **2005**, 1425-1436	
1064	Clinical Application of Tissue-Engineered Blood Vessels. **2005**, 105-113	
1063	Cell Sheet Technology for Myocardial Tissue Engineering. **2005**, 45-52	
1062	Three-Dimensional Microfabrication System for Biodegradable Microdevices With High-Resolution and Bio-Applicability. **2005**, 57	1
1061	TISSUE ENGINEERING. **2005**, 313-402	2
1060	Pol□meros bioreabsorv□veis na engenharia de tecidos. **2005**, 15, 13-21	29
1059	Bioactive 3D scaffolds in regenerative medicine: the role of interface interactions. **2005**, 545-572	1
1058	Tissue-Engineered Skin Substitutes Using Collagen Scaffold with Amniotic Membrane Component. **2005**, 277-279, 12-18	2

1057	Cell-Sheet Engineering Using Intelligent Surfaces. **2005**, 30, 189-193	76
1056	Manufacturing Porous Blocks of Nano-Composite of Needle-Like Hydroxyapatite Crystallites and Chitin for Tissue Engineering. **2005**, 288-289, 199-202	4
1055	The Study of Collagen-HA Composite with Incorporated BMP as Bone Tissue Engineering Scaffold. **2005**, 288-289, 261-264	1
1054	Tissue Engineering of Mineralized Tissues: The Essential Elements. **2004**, 205-222	
1053	Attachment and Proliferation of Human Dermal Fibroblasts onto ECM-Immobilized PLGA Films. **2005**, 288-289, 291-294	
1052	Biopreservation of cells and engineered tissues. **2007**, 103, 157-87	13
1051	Tissue engineering of vascular conduits: fabrication of custom-made scaffolds using rapid prototyping techniques. **2005**, 53, 144-9	34
1050	Challenges in Soft Tissue Engineering. **2005**, 19, 261-270	15
1049	Injectable liver: a novel approach using fibrin gel as a matrix for culture and intrahepatic transplantation of hepatocytes. **2005**, 11, 1718-26	65
1048	Dynamic reassembly of peptide RADA16 nanofiber scaffold. **2005**, 102, 8414-9	521
1047	Effectiveness of a Novel Hyaluronic-Acid Gel Film in the Rat Model. **2005**, 21, 55-63	4
1046	Problems in the differential diagnosis of choroidal nevi and malignant melanomas. The XXXIII Edward Jackson Memorial Lecture. **1977**, 83, 299-323	117
1045	Preservation and regeneration of alveolar bone by tissue-engineered implants. **2005**, 11, 751-67	45
1044	Thermoresponsive terpolymeric films applicable for osteoblastic cell growth and noninvasive cell sheet harvesting. **2005**, 11, 30-40	42
1043	Albumin and urea production by hepatocytes cultured on extracellular matrix proteins-conjugated poly(vinyl alcohol) membranes. **2005**, 16, 847-60	5
1042	From stem cells to viable autologous semilunar heart valve. **2005**, 111, 2783-91	243
1041	Negative regulation of monocyte adhesion to arterial elastic laminae by signal regulatory protein alpha and Src homology 2 domain-containing protein-tyrosine phosphatase-1. **2005**, 280, 39294-301	29
1040	Preparation and characterization of a collagen/chitosan/heparin matrix for an implantable bioartificial liver. **2005**, 16, 1063-80	63

1039	Nanotechnology-based cell sheet engineering for regenerative medicine.	
1038	Bioactive glass and hybrid scaffolds prepared by solâ□gel method for bone tissue engineering. **2005**, 104, 35-42	105
1037	Fabrication and characterization of three-dimensional poly(ether- ether- ketone)/-hydroxyapatite biocomposite scaffolds using laser sintering. **2005**, 219, 183-94	104
1036	Cellular cross-linking of peptide modified hydrogels. **2005**, 127, 220-8	47
1035	Space Filling Curves: Its Design and Fabrication for Extrusion Based SFF Systems. **2005**, 99	
1034	Synthesis of Collagen-like Peptide Polymers by Native Chemical Ligation. **2005**, 38, 7555-7561	108
1033	Bioactive composite materials for tissue engineering scaffolds. **2005**, 2, 303-17	228
1032	Tissue engineering and regenerative medicine: manufacturing challenges. **2005**, 152, 207-10	33
1031	Adipose tissue model using three-dimensional cultivation of preadipocytes seeded onto fibrous polymer scaffolds. **2005**, 11, 458-68	69
1030	Cell patterning on biological gels via cell spraying through a mask. **2005**, 11, 701-8	43
1029	Development of a closed bioreactor system for culture of tissue-engineered skin at an air-liquid interface. **2005**, 11, 1824-31	34
1028	Cell-based therapies and tissue engineering. **2005**, 38, 199-214, v	21
1027	Three-dimensional microfabrication system toward advanced biodegradable implantable devices.	
1026	FRET measurements of cell-traction forces and nano-scale clustering of adhesion ligands varied by substrate stiffness. **2005**, 102, 4300-5	245
1025	Unit cell analysis and characterization of three-dimensional two-phase tissue scaffolds.	0
1024	Synthesis, material properties, and biocompatibility of a novel self-cross-linkable poly(caprolactone fumarate) as an injectable tissue engineering scaffold. **2005**, 6, 2503-11	96
1023	Synthesis and characterization of polymeric soybean oil-g-methyl methacrylate (and n-butyl methacrylate) graft copolymers: biocompatibility and bacterial adhesion. **2005**, 6, 1750-8	63
1022	Integrin expression and osteopontin regulation in human fetal osteoblastic cells mediated by substratum surface characteristics. **2005**, 11, 19-29	63

1021	Engineering myocardial tissue. **2005**, 97, 1220-31	216
1020	Functional bone engineering using ex vivo gene therapy and topology-optimized, biodegradable polymer composite scaffolds. **2005**, 11, 1589-98	46
1019	Chymotrypsin responsive hydrogel: application of a disulfide exchange protocol for the preparation of methacrylamide containing peptides. **2005**, 6, 632-7	128
1018	Application of tissue engineering techniques for rotator cuff regeneration using a chitosan-based hyaluronan hybrid fiber scaffold. **2005**, 33, 1193-201	136
1017	In situ formation of blends by photopolymerization of poly(ethylene glycol) dimethacrylate and polylactide. **2005**, 6, 1615-22	20
1016	De novo reconstruction of functional bone by tissue engineering in the metatarsal sheep model. **2005**, 11, 814-24	82
1015	Development of a regenerable cell culture system that senses and releases dead cells. **2005**, 21, 4043-9	50
1014	Improving the integrity of three-dimensional vascular patterns by poly(ethylene glycol) conjugation. **2005**, 16, 18-22	8
1013	Novel functional biodegradable polymer II: fibroblast growth factor-2 activities of poly(gamma-glutamic acid)-sulfonate. **2005**, 6, 400-7	26
1012	Surface immobilized protein multilayers for cell seeding. **2005**, 21, 7877-83	31
1011	Invitro study of adherent mandibular osteoblast-like cells on carrier materials. **2005**, 34, 543-50	44
1010	Enhancement of intravascular sclerotherapy by tissue engineering: short-term results. **2005**, 40, 412-7	3
1009	Morphologic evaluation of regenerated small bowel by small intestinal submucosa. **2005**, 40, 1898-902	27
1008	Tissue engineering strategies for cartilage generation--micromass and three dimensional cultures using human chondrocytes and a continuous cell line. **2005**, 333, 609-21	95
1007	Left ventricular functional recovery with percutaneous, transvascular direct myocardial delivery of bone marrow-derived cells. **2005**, 24, 1385-92	15
1006	Silk implants for the healing of critical size bone defects. **2005**, 37, 688-98	371
1005	Cardiac valves and valvular pathology: update on function, disease, repair, and replacement. **2005**, 14, 189-94	97
1004	The development and identification of constructing tissue engineered bone by seeding osteoblasts from differentiated rat marrow stromal stem cells onto three-dimensional porous nano-hydroxylapatite bone matrix in vitro. **2005**, 37, 349-57	23

1003	Novel tissue-engineered biodegradable material for reconstruction of vascular wall. **2005**, 80, 1821-7	46
1002	Biocompatible inkjet printing technique for designed seeding of individual living cells. **2005**, 11, 1658-66	413
1001	Bioresponsive phosphoester hydrogels for bone tissue engineering. **2005**, 11, 201-13	162
1000	Medical application of functionalized magnetic nanoparticles. **2005**, 100, 1-11	1187
999	Bioreactor design for tissue engineering. **2005**, 100, 235-45	245
998	A composite of hydroxyapatite with electrospun biodegradable nanofibers as a tissue engineering material. **2005**, 100, 43-9	224
997	Design of an osteoinductive biodegradable cell scaffold based on controlled release technology of bone morphogenetic protein. **2005**, 45, 465-475	3
996	Human foetal osteoblastic cell response to polymer-demixed nanotopographic interfaces. **2005**, 2, 97-108	145
995	Fabrication and characterization of porous alginate/polyvinyl alcohol hybrid scaffolds for 3D cell culture. **2005**, 16, 933-47	51
994	Engineering Heart Tissue for In Vitro and In Vivo Studies. **2005**, 640-658	
993	Fibrin gel-immobilized primary osteoblasts in calcium phosphate bone cement: in vivo evaluation with regard to application as injectable biological bone substitute. **2005**, 179, 158-69	36
992	Engraftment of umbilical cord epithelial cells in athymic mice: in an attempt to improve reconstructed skin equivalents used as epithelial composite. **2005**, 37, 29-39	22
991	Multi-nozzle deposition for construction of 3D biopolymer tissue scaffolds. **2005**, 11, 9-17	275
990	Taylor-Vortex Bioreactors for Enhanced Mass Transport. **2005**, 47-85	4
989	Blends of poly-(epsilon-caprolactone) and polysaccharides in tissue engineering applications. **2005**, 6, 1961-76	275
988	Endothelialized microvasculature based on a biodegradable elastomer. **2005**, 11, 302-9	280
987	Construction and delivery of tissue-engineered human retinal pigment epithelial cell sheets, using magnetite nanoparticles and magnetic force. **2005**, 11, 489-96	120
986	Proliferation and differentiation of rat bone marrow stromal cells on poly(glycolic acid)-collagen sponge. **2005**, 11, 1346-55	41

985 New properties from PLA-PEO-PLA hydrogels. **2005**, 1, 253-258 50

984 The predicted and observed decline in onchocerciasis infection during 14 years of successful control of Simulium spp. in west Africa. **1990**, 68, 331-9 80

983 The Manipulation of Mesenchymal Stem Cells for Bone Repair. **2005**, 183-206

982 Evolving concepts in bone tissue engineering. **2005**, 66, 239-85 63

981 Multifunctional cell-instructive materials for tissue regeneration. **2006**, 1, 447-55 28

980 Formation of a unique crystal morphology for the poly(ethylene glycol)-poly(epsilon-caprolactone) diblock copolymer. **2006**, 7, 252-8 88

979 The role of mechanical stimulation in engineering of extracellular matrix (ECM). **2006**, 2006, 3648-51 7

978 Selective Laser Sintering Process Optimization for Layered Manufacturing of CAPA® 6501 Polycaprolactone Bone Tissue Engineering Scaffolds. **2006**, 128, 531-540 99

977 Construction of Regenerative Mechanical Systems of Insect Cells for a Quasi-Living Machine. **2006**, 0

976 Inductive tissue engineering with protein and DNA-releasing scaffolds. **2006**, 2, 36-48 62

975 A controlled-release strategy for the generation of cross-linked hydrogel microstructures. **2006**, 128, 15064-5 100

974 Tissue Engineering of Cardiac Tissues. **2006**,

973 Tissue engineering: the next generation. **2006**, 12, 3261-3 23

972 Development of Negative Dielectrophoretic Cellular Patterning System for Living Cells. **2006**,

971 Regulating activation of transplanted cells controls tissue regeneration. **2006**, 103, 2494-9 160

970 Regeneration of teeth using stem cell-based tissue engineering. **2006**, 6, 9-16 45

969 Multi - Parameter Optimization for Two-Phase Unit-Cell based Tissue Scaffolds.

968 Growth factor-delivery systems for tissue engineering: a materials perspective. **2006**, 3, 29-47 118

967	Hierarchical porous materials for tissue engineering. **2006**, 364, 263-81	130
966	Design and preparation of polymeric scaffolds for tissue engineering. **2006**, 3, 835-51	175
965	Vascularized organoid engineered by modular assembly enables blood perfusion. **2006**, 103, 11461-6	313
964	Tissue engineering of small intestinal tissue using collagen sponge scaffolds seeded with smooth muscle cells. **2006**, 12, 403-12	79
963	Polypyrrole-based conducting polymers and interactions with biological tissues. **2006**, 3, 741-52	347
962	Tissue-engineered trachea: History, problems and the future. **2006**, 30, 782-6	43
961	Engineering complex tissues. **2006**, 12, 3307-39	459
960	Bone engineering with adipose tissue derived stromal cells. **2006**, 34, 466-71	44
959	Experimental evaluation of Surgisis as scaffold for neointestine regeneration in a rat model. **2006**, 38, 1844-8	21
958	Cultivation of three-dimensional cartilage-carrier-constructs under reduced oxygen tension. **2006**, 121, 486-97	15
957	Heparin binding nanostructures to promote growth of blood vessels. **2006**, 6, 2086-90	374
956	Biologically inspired approaches to drug delivery for nerve regeneration. **2006**, 6, 1105-11	10
955	Cell population dynamics modulate the rates of tissue growth processes. **2006**, 90, 713-24	84
954	Growth of mesenchymal stem cells on electrospun type I collagen nanofibers. **2006**, 24, 2391-7	276
953	Technology Insight: adult stem cells in cartilage regeneration and tissue engineering. **2006**, 2, 373-82	220
952	History of tissue engineering and a glimpse into its future. **2006**, 12, 1137-42	89
951	Co-culture of bone marrow fibroblasts and endothelial cells on modified polycaprolactone substrates for enhanced potentials in bone tissue engineering. **2006**, 12, 2521-31	109
950	Angiogenesis in tissue engineering: breathing life into constructed tissue substitutes. **2006**, 12, 2093-104	448

949	Hydrogels for Musculoskeletal Tissue Engineering. **2006**, 95-144	111
948	Polymers as biomaterials for tissue engineering and controlled drug delivery. **2006**, 102, 47-90	217
947	Challenges in tissue engineering. **2006**, 3, 589-601	521
946	Characterization of a novel polymeric scaffold for potential application in tendon/ligament tissue engineering. **2006**, 12, 91-9	273
945	Cell instructive polymers. **2006**, 102, 113-37	14
944	Tissue engineering: the hope, the hype, and the future. **2006**, 12, 1143-50	119
943	Development of an esophagus acellular matrix tissue scaffold. **2006**, 12, 319-30	91
942	Taking tissue-engineering principles into theater: augmentation of impacted allograft with human bone marrow stromal cells. **2006**, 1, 685-92	30
941	Tissue-engineered bone repair of goat-femur defects with osteogenically induced bone marrow stromal cells. **2006**, 12, 423-33	91
940	Biocompatibility and the efficacy of medical implants. **2006**, 1, 789-800	28
939	Osteogenic differentiation of adipose-derived stromal cells treated with GDF-5 cultured on a novel three-dimensional sintered microsphere matrix. **2006**, 6, 615-23	49
938	In vitro and in vivo comparison of dermal irritancy of jet fuel exposure using EpiDerm (EPI-200) cultured human skin and hairless rats. **2006**, 167, 85-94	20
937	Application of periodontal tissue engineering using enamel matrix derivative and a human fibroblast-derived dermal substitute to stimulate periodontal wound healing in Class III furcation defects. **2006**, 77, 790-9	17
936	Fabrication of cultured oral gingiva by tissue engineering techniques without materials of animal origin. **2006**, 77, 672-7	24
935	Craniofacial tissue engineering by stem cells. **2006**, 85, 966-79	279
934	Controlled release of model drugs through a molecular recognition ion gating membrane in response to a specific ion signal. **2006**, 22, 3945-9	64
933	History of regenerative medicine: looking backwards to move forwards. **2006**, 1, 653-69	76
932	New asymmetric AB(n)-shaped amphiphilic poly(ethylene glycol)-b-[poly(l-lactide)](n) (n = 2, 4, 8) bridged with dendritic ester linkages: I. Syntheses and their characterization. **2006**, 7, 2377-87	22

931	An allogenic cell-based implant for meniscal lesions. **2006**, 34, 1779-89	63
930	Behavior of transplanted bone marrow-derived mesenchymal stem cells in periodontal defects. **2006**, 77, 1003-7	131
929	The role of biomaterials in stem cell differentiation: applications in the musculoskeletal system. **2006**, 15, 295-303	75
928	Biodegradable scaffolds--delivery systems for cell therapies. **2006**, 6, 485-98	35
927	Microscale technologies for tissue engineering and biology. **2006**, 103, 2480-7	1304
926	Bone Tissue Engineering Constructs Based on Starch Scaffolds and Bone Marrow Cells Cultured in a Flow Perfusion Bioreactor. **2006**, 514-516, 980-984	8
925	Modulation of chondrocyte phenotype for tissue engineering by designing the biologic-polymer carrier interface. **2006**, 7, 3012-8	19
924	Prediction of microclimate pH in poly(lactic-co-glycolic acid) films. **2006**, 128, 5384-90	71
923	Fabrication of polymeric replicas of cell surfaces with nanoscale resolution. **2006**, 22, 8266-70	25
922	Kinetics of in vivo bone deposition by bone marrow stromal cells into porous calcium phosphate scaffolds: an X-ray computed microtomography study. **2006**, 12, 3449-58	52
921	A review of new developments in tissue engineering therapy for periodontitis. **2006**, 50, 265-76, ix-x	43
920	The engineering of craniofacial tissues in the laboratory: a review of biomaterials for scaffolds and implant coatings. **2006**, 50, 205-16, viii	42
919	Evaluation of human bone marrow stromal cell growth on biodegradable polymer/bioglass composites. **2006**, 342, 1098-107	69
918	Hydrogel-beta-TCP scaffolds and stem cells for tissue engineering bone. **2006**, 38, 555-63	152
917	Silk based biomaterials to heal critical sized femur defects. **2006**, 39, 922-31	190
916	New frontiers in the pathology and therapy of heart valve disease: 2006 Society for Cardiovascular Pathology, Distinguished Achievement Award Lecture, United States-Canadian Academy of Pathology, Atlanta, GA, February 12, 2006. **2006**, 15, 271-279	23
915	Water transport and IIF parameters for a connective tissue equivalent. **2006**, 52, 62-73	35
914	Optical coherence tomography of cell dynamics in three-dimensional tissue models. **2006**, 14, 7159-71	70

913	Ordered Mesoporous Bioactive Glasses for Bone Tissue Regeneration. **2006**, 18, 3137-3144	293
912	Tissue engineering for the hand surgeon: a clinical perspective. **2006**, 31, 349-58	27
911	Stem cells: new cell source for myocardial constructs tissue engineering. **2006**, 67, 1326-9	13
910	A comparative analysis of scaffold material modifications for load-bearing applications in bone tissue engineering. **2006**, 35, 928-34	112
909	Development of a model system for preliminary evaluation of tissue-engineered vascular conduits. **2006**, 41, 787-91	19
908	Rotator cuff regeneration using chitin fabric as an acellular matrix. **2006**, 15, 112-8	69
907	A novel culture system shows that stem cells can be grown in 3D and under physiologic pulsatile conditions for tissue engineering of vascular grafts. **2006**, 132, 170-8	26
906	Electrospinning of polymeric nanofibers for tissue engineering applications: a review. **2006**, 12, 1197-211	1802
905	Biopolymer-based biomaterials as scaffolds for tissue engineering. **2006**, 102, 187-238	54
904	Application of stem cells for cardiovascular grafts tissue engineering. **2006**, 16, 1-7	24
903	'UroMaix' scaffolds: novel collagen matrices for application in tissue engineering of the urinary tract. **2006**, 29, 764-71	20
902	Production of biofibers by laser spinning. **2006**,	
901	Tissue-Engineered Bone. **2006**,	
900	Tissue Engineering. **2006**,	
899	Scaffolds for Cell and Tissue Engineering. **2006**,	1
898	Relationship between Adsorbed Fibronectin and Cell Adhesion on a Honeycomb-patterned Film. **2006**, 27, 502-510	1
897	Antigen clearing from porcine heart valves with preservation of structural integrity. **2006**, 29, 781-9	11
896	Selective HIFU Foaming to Fabricate Porous Polymer for Tissue Engineering Scaffolds. **2006**, 349	

895	Engineered Tissue. **2006**,	
894	Nanotechnology in regenerative medicine. **2006**, 21, 623-626	1
893	Mechanisms of polymer degradation and erosion1. **2006**, 117-128	2
892	Tissue Engineering. **2006**,	
891	Stabilized polyglycolic acid fibre-based tubes for tissue engineering. **2006**, 129-138	1
890	Functional and morphological ultrasonic biomicroscopy for tissue engineers. **2006**,	5
889	Skin Tissue Engineering for Regeneration. **2006**,	1
888	Engineering Blood-Contact Biomaterials by â-Bond Graftingâ Surface Modification. **2006**, 179-227	
887	Vascular tissue engineering. **2006**, 15 Suppl 1, S119-25	17
886	Cellular to tissue informatics: approaches to optimizing cellular function of engineered tissue. **2006**, 102, 139-59	1
885	Tissue Engineering. **2006**,	
884	Tissue engineering cartilage with aged articular chondrocytes in vivo. **2006**, 118, 41-9; discussion 50-3	30
883	Artificial Trachea. **2006**, 13, 39-43	11
882	Anisotropic three-dimensional peptide channels guide neurite outgrowth within a biodegradable hydrogel matrix. **2006**, 1, 162-9	55
881	Human circulating peripheral blood mononuclear cells for calvarial bone tissue engineering. **2006**, 117, 468-78	23
880	Mandibular reconstruction using a combination graft of rhBMP-2 with bone marrow cells expanded in vitro. **2006**, 117, 902-8	30
879	Kinetic oxygen measurements by CVC96 in L-929 cell cultures. **2006**, 2, 6	3
878	Multiarm star nanocarriers containing a poly(ethylene imine) core and polylactide arms. **2006**, 44, 5740-5749	75

877	Observing cell response to biomaterials. **2006**, 9, 34-43	33
876	Composite tissue allotransplantation of the hand and face: a new frontier in transplant and reconstructive surgery. **2006**, 19, 868-80	76
875	In vivo recellularization of plain decellularized xenografts with specific cell characterization in the systemic circulation: histological and immunohistochemical study. **2006**, 30, 233-41	34
874	Scaffold-free, engineered porcine cartilage construct for cartilage defect repair--in vitro and in vivo study. **2006**, 30, 586-96	56
873	Electrospinning approaches toward scaffold engineering--a brief overview. **2006**, 30, 785-92	194
872	Membrane bioreactor for cell tissues and organoids. **2006**, 30, 793-802	25
871	The cardiovascular tissue-reactor: a novel device for the engineering of heart valves. **2006**, 30, 809-14	32
870	Simultaneous implant placement and bone regeneration around dental implants using tissue-engineered bone with fibrin glue, mesenchymal stem cells and platelet-rich plasma. **2006**, 17, 579-86	104
869	Elastic protein-based materials in tissue reconstruction. **1997**, 831, 32-46	39
868	An approach to constructing three-dimensional tissue. **2001**, 944, 443-55	32
867	Prospects for tooth regeneration. **2006**, 41, 177-87	44
866	Challenges and potential in tissue engineering. **2006**, 41, 9-15	37
865	Biomaterials: converge and regenerate. **2006**, 5, 437-8	7
864	Fabrication of cell-containing gel modules to assemble modular tissue-engineered constructs [corrected]. **2006**, 1, 2963-9	54
863	Bioceramic granules with controlled resorbability for bone tissue therapy. **2006**, 409, 124-127	3
862	Convergence in biomedical technology. **2006**, 24, 277-277	14
861	The ascendance of combination products. **2006**, 24, 277-80	45
860	Cranial bone regeneration using a composite scaffold of Beta-tricalcium phosphate, collagen, and autologous bone fragments. **2006**, 116, 212-6	14

859	Characteristics of tissue-engineered cartilage on macroporous biodegradable PLGA scaffold. **2006**, 116, 1829-34	24
858	Preparation of cell-specific membranes for bone regeneration by peptide grafting. **2006**, 199, 144-146	
857	Internal architecture design and freeform fabrication of tissue replacement structures. **2006**, 38, 115-124	52
856	Mineralisation of chitosan scaffolds with nano-apatite formation by double diffusion technique. **2006**, 2, 75-84	148
855	Sintering and robocasting of beta-tricalcium phosphate scaffolds for orthopaedic applications. **2006**, 2, 457-66	249
854	Novel hepatocyte culture system developed using microfabrication and collagen/polyethylene glycol microcontact printing. **2006**, 27, 1061-70	149
853	Porous chitosan-gelatin scaffold containing plasmid DNA encoding transforming growth factor-beta1 for chondrocytes proliferation. **2006**, 27, 1095-103	132
852	Biological characterisation of vascular grafts cultured in a bioreactor. **2006**, 27, 2390-7	57
851	Epitope tagging for tracking elastin-like polypeptides. **2006**, 27, 1930-5	43
850	Rational development of GAG-augmented chitosan membranes by fractional factorial design methodology. **2006**, 27, 2222-32	33
849	Structure and properties of clinical coralline implants measured via 3D imaging and analysis. **2006**, 27, 2776-86	62
848	Combination of baculovirus-mediated gene transfer and rotating-shaft bioreactor for cartilage tissue engineering. **2006**, 27, 3154-62	27
847	Expansion of chondroprogenitor cells on macroporous microcarriers as an alternative to conventional monolayer systems. **2006**, 27, 2970-9	69
846	Coating of VEGF-releasing scaffolds with bioactive glass for angiogenesis and bone regeneration. **2006**, 27, 3249-55	333
845	Performance of collagen sponge as a 3-D scaffold for tooth-tissue engineering. **2006**, 27, 3238-48	156
844	Rapid hepatic cell attachment onto biodegradable polymer surfaces without toxicity using an avidin-biotin binding system. **2006**, 27, 4904-10	43
843	Manufacturing and morphology structure of polylactide-type microtubules orientation-structured scaffolds. **2006**, 27, 4923-33	124
842	Repair of segmental bone defects in rabbit tibiae using a complex of beta-tricalcium phosphate, type I collagen, and fibroblast growth factor-2. **2006**, 27, 5118-26	109

841	Micromolding of photocrosslinkable chitosan hydrogel for spheroid microarray and co-cultures. **2006**, 27, 5259-67	277
840	Stem cell-based tissue engineering with silk biomaterials. **2006**, 27, 6064-82	785
839	The Application of Assembly and Automation Technologies to Healthcare Products. **2006**, 55, 617-642	9
838	The effect of ultrasound stimulation versus bioreactors on neocartilage formation in tissue engineering scaffolds seeded with human chondrocytes in vitro. **2006**, 23, 259-64	23
837	Effect of biomaterial surface properties on fibronectin-alpha5beta1 integrin interaction and cellular attachment. **2006**, 27, 1907-16	154
836	Sustained delivery of growth factors from methylidene malonate 2.1.2-based polymers. **2006**, 27, 2609-20	15
835	Cluster analysis and gene expression profiles: a cDNA microarray system-based comparison between human dental pulp stem cells (hDPSCs) and human mesenchymal stem cells (hMSCs) for tissue engineering cell therapy. **2006**, 27, 3766-81	87
834	The effect of surface area on the degradation rate of nano-fibrous poly(L-lactic acid) foams. **2006**, 27, 3708-15	83
833	Framework for optimal design of porous scaffold microstructure by computational simulation of bone regeneration. **2006**, 27, 3964-72	236
832	Porogen-based solid freeform fabrication of polycaprolactone-calcium phosphate scaffolds for tissue engineering. **2006**, 27, 4399-408	182
831	A nanofibrous composite membrane of PLGAâhitosan/PVA prepared by electrospinning. **2006**, 42, 2013-2022	218
830	Measurement of gas solubility and diffusivity in polylactide. **2006**, 246, 158-166	92
829	Lipidic implants for controlled release of bioactive insulin: effects on cartilage engineered in vitro. **2006**, 314, 170-8	23
828	Poly(l,l-lactide-co-glycolide)/tricalcium phosphate composite scaffold and its various changes during degradation in vitro. **2006**, 91, 3065-3073	63
827	Prediction of the micro-fluid dynamic environment imposed to three-dimensional engineered cell systems in bioreactors. **2006**, 39, 418-25	109
826	Albumin and urea production by hepatocytes cultured on polyurethane foaming membranes coated with extracellular matrix. **2006**, 280, 983-989	5
825	Relationship between adsorbed fibronectin and cell adhesion on a honeycomb-patterned film. **2006**, 600, 3785-3791	49
824	Phase behavior of biodegradable amphiphilic poly(l,l-lactide)-b-poly(ethylene glycol)-b-poly(l,l-lactide). **2006**, 445, 61-66	20

823	Nano-featured scaffolds for tissue engineering: a review of spinning methodologies. **2006**, 12, 435-47	329
822	Injectable nanocomposites of single-walled carbon nanotubes and biodegradable polymers for bone tissue engineering. **2006**, 7, 2237-42	169
821	Review: ex vivo engineering of living tissues with adult stem cells. **2006**, 12, 3007-19	193
820	3D polymer scaffolds for tissue engineering. **2006**, 1, 281-96	58
819	Tissue-engineered graft constructed by self-derived cells and heterogeneous acellular matrix. **2006** , 7, 351-6	4
818	Characterization and multipotentiality of human fetal femur-derived cells: implications for skeletal tissue regeneration. **2006**, 24, 1042-53	82
817	Cultivation of human embryonic stem cells without the embryoid body step enhances osteogenesis in vitro. **2006**, 24, 835-43	151
816	Application of inkjet printing to tissue engineering. **2006**, 1, 910-7	604
815	Dielectrophoresis based-cell patterning for tissue engineering. **2006**, 1, 949-57	77
814	Fabrication of polymer scaffolds for tissue engineering using surface selective laser sintering. **2006**, 16, 774-787	29
813	Fabrication and detection of tissue-engineered bones with bio-derived scaffolds in a rotating bioreactor. **2006**, 45, 65-74	31
812	Two-photon microscopes and in vivo multiphoton tomographs--powerful diagnostic tools for tissue engineering and drug delivery. **2006**, 58, 878-96	171
811	Controlling ion release from bioactive glass foam scaffolds with antibacterial properties. **2006**, 17, 989-96	107
810	Historic and current strategies in bone tissue engineering: do we have a hope in Hench?. **2006**, 17, 1029-35	26
809	Preparation of 3-D regenerated fibroin scaffolds with freeze drying method and freeze drying/foaming technique. **2006**, 17, 1349-56	85
808	Hyaluronic acid based materials for intestine tissue engineering: a morphological and biochemical study of cell-material interaction. **2006**, 17, 1365-72	13
807	In-situ hardening hydroxyapatite-based scaffold for bone repair. **2006**, 17, 437-45	62
806	Feasibility of three-dimensional macroporous scaffold using calcium phosphate glass and polyurethane sponge. **2006**, 41, 4357-4364	28

805	Poly(D,L-lactide) (PDLLA) foams with TiO2 nanoparticles and PDLLA/TiO2-Bioglass® foam composites for tissue engineering scaffolds. **2006**, 41, 3999-4008	51
804	Pluripotency potential of human adipose-derived stem cells marked with exogenous green fluorescent protein. **2006**, 291, 1-10	53
803	Should human chondrocytes fly? The impact of electromagnetic irradiation on chondrocyte viability and implications for their use in tissue engineering. **2006**, 29, 415-20	2
802	Polymer nano-engineering for biomedical applications. **2006**, 34, 75-88	56
801	Heart valve tissue engineering: concepts, approaches, progress, and challenges. **2006**, 34, 1799-819	232
800	Optimisation of biochemical condition and substrates in vitro for tissue engineering of ligament. **2006**, 34, 1767-77	9
799	In vivo MR imaging of tissue-engineered human mesenchymal stem cells transplanted to mouse: a preliminary study. **2007**, 35, 101-8	36
798	Bioreactors for tissue engineering. **2006**, 28, 1415-23	142
797	Alpha-smooth muscle actin expression and structure integrity in chondrogenesis of human mesenchymal stem cells. **2006**, 324, 457-66	17
796	Mathematical modelling of engineered tissue growth using a multiphase porous flow mixture theory. **2006**, 52, 571-94	89
795	Acrylic acid-grafted hydrophilic electrospun nanofibrous poly(L-lactic acid) Scaffold. **2006**, 14, 552-558	20
794	Biomaterials as Scaffold for Bone Tissue Engineering. **2006**, 32, 114-124	134
793	[A comparison of the gene expression patterns of human chondrocytes and chondrogen differentiated mesenchymal stem cells for tissue engineering]. **2006**, 54, 258-66	2
792	[Bridging posttraumatic bony defects. Established and new methods]. **2006**, 109, 715-32	35
791	Development of techniques to compare mechanical properties of reversible hydrogels with spherical, square columnar and ocular lens geometry. **2006**, 47, 4203-4209	18
790	Influence of three-dimensional scaffold on the expression of osteogenic differentiation markers by human dermal fibroblasts. **2006**, 27, 875-84	43
789	Collagen-based implants reinforced by chitin fibres in a goat shank bone defect model. **2006**, 27, 1917-23	134
788	Effect of RGD secondary structure and the synergy site PHSRN on cell adhesion, spreading and specific integrin engagement. **2006**, 27, 3863-74	112

787	Porogen-induced surface modification of nano-fibrous poly(L-lactic acid) scaffolds for tissue engineering. **2006**, 27, 3980-7	130
786	Micromolding of shape-controlled, harvestable cell-laden hydrogels. **2006**, 27, 5391-8	279
785	Bone and cartilage tissue constructs grown using human bone marrow stromal cells, silk scaffolds and rotating bioreactors. **2006**, 27, 6138-49	157
784	Cord-blood mesenchymal stem cells and tissue engineering. **2006**, 2, 163-8	20
783	Construct hepatic analog by cell-matrix controlled assembly technology. **2006**, 51, 1830-1835	10
782	Improvement of the representative volume element method for 3-D scaffold simulation. **2006**, 20, 1722-1729	
781	Tribute to the Vacantis. **2006**, 10, 2-2	78
780	Tribute to the Vacantis. **2006**, 10, 3-3	78
779	Future perspectives in tissue engineering. **2006**, 10, 4-6	50
778	Tissue engineering of bone: the reconstructive surgeon's point of view. **2006**, 10, 7-19	405
777	The history of tissue engineering. **2006**, 10, 569-76	161
776	New insights into and novel applications for platelet-rich fibrin therapies. **2006**, 24, 227-34	392
775	Dual release of proteins from porous polymeric scaffolds. **2006**, 111, 95-106	66
774	Bioengineered muscle constructs and tissue-based therapy for cardiac disease. **2006**, 21, 167-171	2
773	The use of polymer based scaffolds in tissue-engineered heart valves. **2006**, 21, 193-199	16
772	Covalent microcontact printing of proteins for cell patterning. **2006**, 12, 6290-7	111
771	Effect of spatial architecture on cellular colonization. **2006**, 93, 64-75	53
770	Fabrication of endothelialized tube in collagen gel as starting point for self-developing capillary-like network to construct three-dimensional organs in vitro. **2006**, 95, 1-7	38

769	Analysis of cell growth and diffusion in a scaffold for cartilage tissue engineering. **2006**, 94, 1138-46	74
768	Tissue engineering of vascular conduits. **2006**, 93, 652-61	54
767	Improvement of processability of clay/polylactide nanocomposites by a combinational method: In situ polymerization of L-lactide and melt compounding of polylactide. **2006**, 101, 1664-1669	10
766	Synthesis and characterization of a redox-initiated, injectable, biodegradable hydrogel. **2006**, 99, 2375-2383	33
765	Polysaccharide-based artificial extracellular matrix: Preparation and characterization of three-dimensional, macroporous chitosan and chondroitin sulfate composite scaffolds. **2006**, 99, 2091-2100	15
764	Specially elaborated thermally induced phase separation to fabricate poly(L-lactic acid) scaffolds with ultra large pores and good interconnectivity. **2006**, 101, 3336-3342	58
763	In vitro self-assembly of proepicardial cell aggregates: an embryonic vasculogenic model for vascular tissue engineering. **2006**, 288, 700-13	23
762	Fabrication of chondroitin sulfate-chitosan composite artificial extracellular matrix for stabilization of fibroblast growth factor. **2006**, 76, 1-15	40
761	Human osteoblast cells: isolation, characterization, and growth on polymers for musculoskeletal tissue engineering. **2006**, 76, 439-49	33
760	Poly-epsilon-caprolactone/hydroxyapatite composites for bone regeneration: in vitro characterization and human osteoblast response. **2006**, 76, 151-62	191
759	New physically and chemically crosslinked hyaluronate (HA)-based hydrogels for cartilage repair. **2006**, 76, 416-24	28
758	Morphological features of ovine embryonic lung fibroblasts cultured on different bioactive scaffolds. **2006**, 76, 214-21	10
757	Improvement in hydrophilicity of PHBV films by plasma treatment. **2006**, 76, 589-95	65
756	The effects of short-term stimulation on fibroblast spreading in an in vitro 3D system. **2006**, 76, 665-73	6
755	Experimental investigation of interfaces in hydroxyapatite/polyacrylic acid/polycaprolactone composites using photoacoustic FTIR spectroscopy. **2006**, 77, 59-66	40
754	A sandwich tubular scaffold derived from chitosan for blood vessel tissue engineering. **2006**, 77, 277-84	93
753	Hydrophilic nanofibrous structure of polylactide; fabrication and cell affinity. **2006**, 78, 247-57	92
752	Synthesis and characterization of macroporous poly(ethylene glycol)-based hydrogels for tissue engineering application. **2006**, 79, 229-36	39

751	Crystallochemistry, textural properties, and in vitro biocompatibility of different silicon-doped calcium phosphates. **2006**, 78, 762-71	30
750	Mineralization of hydroxyapatite in electrospun nanofibrous poly(L-lactic acid) scaffolds. **2006**, 79, 307-17	206
749	Closing capacity of cranial bone defects using porous calcium phosphate cement implants in a rabbit animal model. **2006**, 79, 503-11	32
748	Diffusion of bioactive molecules through the walls of the medial tissue-engineered hybrid ePTFE grafts for applications in designs of vascular tissue regeneration. **2006**, 79, 943-53	8
747	Gradient substrate assembly for quantifying cellular response to biomaterials. **2006**, 79, 974-88	40
746	Self-assembled copper-capillary alginate gel scaffolds with oligochitosan support embryonic stem cell growth. **2006**, 79, 440-50	30
745	Composite coating of bonelike apatite particles and collagen fibers on poly L-lactic acid formed through an accelerated biomimetic coprecipitation process. **2006**, 77, 315-22	41
744	Chemical characteristics and cytocompatibility of collagen-based scaffold reinforced by chitin fibers for bone tissue engineering. **2006**, 77, 219-26	53
743	An improved hydrophilicity via electrospinning for enhanced cell attachment and proliferation. **2006**, 78, 283-90	228
742	Promotion of cell affinity of porous PLLA scaffolds by immobilization of RGD peptides via plasma treatment. **2006**, 6, 90-8	74
741	Polyester scaffolds with bimodal pore size distribution for tissue engineering. **2006**, 6, 425-34	43
740	Solvent-assisted room-temperature compression molding approach to fabricate porous scaffolds for tissue engineering. **2006**, 6, 747-57	22
739	Probing the effect of an extract of elk velvet antler powder on mesenchymal stem cells using Raman microspectroscopy: enhanced differentiation toward osteogenic fate. **2006**, 37, 480-486	18
738	Influence of Semicrystalline Morphology on the Glass Transition of Poly(L-lactic acid). **2006**, 207, 1262-1271	86
737	Bioglass Coatings on Biodegradable Poly(3-hydroxybutyrate) (P3HB) Meshes for Tissue Engineering Scaffolds. **2006**, 37, 577-583	4
736	An Overview on Bioreactor Design, Prototyping and Process Control for Reproducible Three-Dimensional Tissue Culture. **2006**, 53-78	6
735	Fabrication of Robust Biomolecular Patterns by Reactive Microcontact Printing on N-Hydroxysuccinimide Ester-Containing Polymer Films. **2006**, 16, 1306-1312	43
734	Direct Writing of Three-Dimensional Polymer Scaffolds Using Colloidal Gels. **2006**, 16, 1685-1693	66

733	Three-Dimensional Microfluidic Tissue-Engineering Scaffolds Using a Flexible Biodegradable Polymer. **2005**, 18, 165-169	236
732	Hydrogels in Biology and Medicine: From Molecular Principles to Bionanotechnology. **2006**, 18, 1345-1360	3009
731	Rigid, Self-Assembled Hydrogel Composed of a Modified Aromatic Dipeptide. **2006**, 18, 1365-1370	636
730	Adult mesenchymal stem cells in dental research: a new approach for tissue engineering. **2006**, 19, 451-60	39
729	A structural model for the flexural mechanics of nonwoven tissue engineering scaffolds. **2006**, 128, 610-22	42
728	[Prevascularisation strategies in tissue engineering]. **2006**, 38, 217-23	24
727	Investigation of optical coherence tomography as an imaging modality in tissue engineering. **2006**, 51, 1649-59	91
726	Rapid Prototyping: Tissue Engineering. 6917-6928	
725	Nanomaterials: Tissue Regeneration. 5379-5392	
724	Silk Natural Nanofibers. 7244-7254	
723	Polylactic Acid: Properties and Applications. 6449-6459	
722	In vivo microscopic and mechanical characteristics of bioengineered and biodegradable tissue scaffolds and nanomaterials. **2016**, 457-490	
721	History of Regenerative Medicine. **2016**, 1-19	1
720	Fabrication of Magnetic Hydroxyapatite by a Homogeneous Precipitation Method. **2016**, 06, 223-229	
719	Scaffolds: Regenerative Medicine. 7093-7113	
718	Foams: Polylactic Acid and Polybutylene Succinate. 3458-3468	
717	Future Perspectives in Dental Stem Cell Engineering and the Ethical Considerations. **2016**, 289-307	
716	Biomedical Applications of Marine Sponge Collagens. **2016**, 373-381	1

715 Cardiovascular Tissue Engineering: Polymeric Starter Matrices for. 1-25

714 Engineering Smooth Muscle. **2016**, 851-864

713 Application of Chitosan-Based Biomaterials in Tissue Engineering. **2016**, 417-478

712 Drug Delivery. **2016**, 657-680

711 Nanotechnology Approaches to Regenerative Engineering. **2016**, 3-12

710 Organicâ□□horganic Nanocomposites for Biomedical Applications. **2016**, 375-395

709 Smart Biomaterials in Tissue-Engineering Applications. **2016**, 125-150

708 Smart Biomaterials in Biomedical Applications. **2016**, 1-17

707 Polymers in Orthopedic Devices. **2016**, 43-58

706 Ascorbic Acid in Polyurethane Systems for Tissue Engineering. **2016**, 10, 607-612

705 Cell Therapy in Hip Surgery. **2017**, 949-956

704 Magnetic resonance imaging monitoring of cartilage tissue engineering in ́vivo. **2017**, 181-194 1

703 Current Concepts in Natural History of Meniscal Injury and Future Options in Meniscus Healing: Orthobiologics. **2017**, 339-353

702 Hautersatz â□□Tissue Engineering. **2017**, 191-222

701 Tissue Engineering in Microgravity. **2017**, 73-85 2

700 Transition and Prospect of Biomedical and Healthcare Materials from the Viewpoint of Tissue Regeneration. **2017**, 56, 220-224

699 Current Topics in Regenerative Medicine for the Laryngeal Tissues. **2017**, 95-107

698 6.11 Biomaterials for Replacement and Repair of the Meniscus and Annulus Fibrosus. **2017**, 174-193

697 Control of Cellular Attachment Using a Bundled Hydrogel Fiber. **2017**, 38, 83-88

696 Tissue Engineering and New Biomaterials. **2017**, 65-70 1

695 Biomaterials for Tendon Regeneration. **2017**, 131-143 1

694 Regenerative Rehabilitation. **2017**, 1-20

693 Influence of pore size and fibre orientation on stem cell proliferation in a 3D printed polycaprolactone scaffold. **2017**, 359-364

692 Biological Activities of Marine Biopolymers. **2017**, 179-191

691 Biotechnological Potential of Stem Cells. **2017**, 3, 1

690 Conducting Polymers: Biomedical Engineering Applications. **2017**, 312-326

689 Silicon nanowires in biomedicine. **2017**, 417-430

688 Scaffolds, Polymer: Microfluidic-Based Polymer Design. **2017**, 1362-1373

687 Blood Vessel Substitutes. **2017**, 237-247

686 Chapter 5: Significance of Synthetic Nanostructures in Dictating Cellular Response. **2017**, 129-158

685 Corneas: Tissue Engineering. **2017**, 370-394

684 Skin Tissue Engineering. **2017**, 1408-1423

683 Rapid Prototyping: Tissue Engineering. **2017**, 1350-1361

682 Bladder. **2018**, 191-214

681 Imaging in Clinical and Preclinical Practice. **2018**, 539-572 2

680 Influence of Early-Stage Hydrolysis on Tensile Fracture Behavior of HAp/PLA Composites Interface-Controlled by Reaction Control Utilizing Photodissociable Protecting Groups. **2017**, 11, 932-940 1

679	Effect of Cooling Stimulus on Collection Efficiency of Calf Chondrocytes Cultivated on Metal Surface. **2017**, 11, 925-931	1
678	Mini Review: Advances in Medical Knits. **2017**, 3,	1
677	Multi-scale Structural Modeling of Soft Tissues Mechanics and Mechanobiology. **2018**, 7-48	1
676	New Application of Animal Fiber Protein. **2017**, 63, 171-176	
675	Endodontic Management of a Chronic Periapical Abscess in a Maxillary Central Incisor with an Immature Root Apex Using Platelet-Rich Fibrin: A Case Report. **2018**, 3, 192-196	1
674	Nanotechnology and Its Use in Tissue Engineering. **2018**, 1299-1315	
673	Progress in Regenerative Research of the Larynx and Trachea. **2018**, 111, 1-10	
672	‡tricalcium Phosphate/Collagen Composites Improve Bone Regeneration in Rat Calvarial Bone Defects. **2018**, 30, 449-457	
671	[Development of innovative three-dimensional tissues and their application for pharmaceutical assays]. **2018**, 152, 33-38	
670	Biomolecule Attachment to Porous Silicon. **2018**, 1027-1050	
669	The overview of methods for obtaining alginate hydrogels and nanofibers using the electrospinning technique. **2018**, 59, 327-337	
668	Comparative evaluation of mesenchymal stem cells cultivation methods on biodegradable L-polylactide scaffold for the creation of tissue-engineered vascular implant. **2018**, 17, 61-68	
667	Non-invasive ultrasound quantification of Scar Tissue Volume predicts functional changes during tendon healing.	
666	D‡ellularisation de greffons digitaux humains vascu-laris§ : une approche sous-unitaire de lâ□ngh‡ierie tissulaire de la main. **2018**, 202, 1871-1882	
665	[Stem cells: searching predisposition to cardiac commitment by surface markers expression]. **2018**, 88, 483-495	0
664	Introduction to Tissue Engineering in Oral and Maxillofacial Surgery. **2019**, 1-5	
663	Tissue Engineering and Cell-Based Therapy for Bone Regeneration: Clinical Application and In Vivo and In Vitro Research. **2019**, 143-153	
662	Nanomaterials Applications in Cartilage Tissue Engineering. **2019**, 81-105	

661 Engineering of Accepted Skin-Equivalent Tissue for Tissue Repair: Current State and Perspectives. **2019**, 285-285 0

660 Human fetal kidney cells regenerate acellular porcine kidneys via upregulation of key transcription factors involved in kidney developmentRunning title: Regeneration of porcine kidneys. **2019**, 3, 26-46

659 Nanotechnology-Based Stem Cell Tissue Engineering with a Focus on Regeneration of Cardiovascular Systems. **2019**, 1-67 0

658 Tissue Engineering and Regenerative Medicine in Oral and Maxillofacial Surgery: The Most Important Clinical Applications of Mesenchymal Stem Cells. **2019**, 337-348

657 Skin Tissue Engineering in Severe Burns: A Review on Its Therapeutic Applications. **2019**, 117-136

656 Tissue Engineering and Orthopedic Microsurgery. **2019**, 521-559

655 Mesenchymal Stem Cells as Regulators of Bone, Muscle, and Fat Formation. **2019**, 29-44 0

654 Chapter 16:Ethics of Using Human Cells/Tissues for 3D Tissue Models. **2019**, 329-344

653 Definitions. **2019**, 3-3

652 Biomaterials for Cranio-Maxillofacial Bone Engineering. **2019**, 7-25

651 Tissue-Engineering Approach to Making Soft Actuators. **2019**, 679-690

650 Biocompatible chitosan in unique applications for tissue engineering. **2019**, 279-308 0

649 Bone Tissue Engineering Challenges in Craniofacial Reconstructive Surgeries. **2019**, 283-292

648 Introduction. **2019**, 1-6 0

647 Evolving Concepts for Use of Stem Cells and Tissue Engineering for Cardiac Regeneration. **2019**, 509-543

646 Porous bone tissue scaffold based on shape memory polymer. **2019**, 1

645 Straightforward and Cost-Effective Production of RADA-16I Peptide in. **2019**, 17, e2125 0

644 Using a 3-Steps Supercritical Fluids Assisted Process for the Generation of Nanostructured Biopolymeric Scaffolds. **2019**, 12, 7-14

643 Advances in Therapeutic Cell Manufacturing and Perspectives in Future Cell Therapy. **2019**, 108, 1355-1358

642 Design of VEGF Releasing Fiber Mat for Effective Transplantation of Cardiomyocyte Sheets. **2019**, 34, 173-178

641 Micro-CT in Artificial Tissues. **2020**, 125-137 1

640 An Automated Addressable Microfluidics Device for Minimally Disruptive Manipulation of Cells and Fluids within Living Cultures.

639 Preclinical research on in situ periodontal regenerative therapy using biomaterials and bioactive agents. **2019**, 61, 114-126

638 Scaffold-free human mesenchymal stem cell construct geometry regulates long bone regeneration.

637 Off-the-Shelf Tissue-Engineered Vascular Conduits: Clinical Translation. **2020**, 1-44

636 5.In vitro??????????????. **2019**, 87, 318-322

635 Biological Treatment Approaches for Degenerative Disc Disease: Injectable Biomaterials and Bioartificial Disc Replacement. **2020**, 1-25

634 Pharmacological and Cellular Significance of Triazole-Surrogated Compounds. **2020**, 23, 2305-2572 0

633 Heart valve tissue engineering: current preclinical and clinical approaches. **2020**, 383-398

632 Cell Sheets for Cardiac Tissue Engineering. **2020**, 1-19

631 Heart Valve Bioengineering. **2020**, 1-59 0

630 Stress effect on 3D culturing of MC3T3-E1 cells on microporous bovine bone slices. **2020**, 9, 1315-1325 1

629 Effects of low-intensity pulsed ultrasound exposure on rats tibia periosteum. **2020**, 92, e20180903 1

628 Tetracalcium phosphate and biphasic tetracalcium phosphate/tricalcium phosphate powders' effects evaluation on human osteoblasts. **2020**, 69, 87-94 1

627 The Characterization of Polyanhydride Microspheres. **2020**, 169-202 1

626 Surface Tension-Assisted Additive Manufacturing of Tubular, Multicomponent Biomaterials. **2021**, 2147, 149-160

625 Design and Analysis of Feature Primitive Scaffold Manufactured Using 3D-Printerâ Fused Deposition Modelling (FDM). **2021**, 577-588

624 Specificities of Scanning Electron Microscopy and Histological Methods in Assessing Cell-Engineered Construct Effectiveness for the Recovery of Hyaline Cartilage. **2021**, 4,

623 Model of Ploughing Cortical Bone with Single-Point Diamond Tool. **2021**, 14,

622 Extracellular Matrix Hydrogels Originated from Different Organs Mediate Tissue-Specific Properties and Function. **2021**, 22, 1

621 Biomaterials and Their Biomedical Applications: From Replacement to Regeneration. **2021**, 9, 1949 4

620 Isolation of multipotent progenitor cells from pleura and pericardium for tracheal tissue engineering purposes. **2021**, 25, 10869-10878 2

619 Peptide-functionalized Biomaterials with Osteoinductive or Anti-biofilm Activity. **2020**, 129-168

618 Natural and Synthetic Polymeric Scaffolds. **2021**, 257-283

617 Mechanogenetics: harnessing mechanobiology for cellular engineering. **2021**, 73, 374-379 3

616 Applications of PANI Thin Films. **2020**, 157-194

615 Collagen-based biocomposites inspired by bone hierarchical structures for advanced bone regeneration: ongoing research and perspectives. **2021**, 5

614 Mechanisms of Action and Chemical Origins of Biologically Active Antimicrobial Polymers. **2020**, 297-312 0

613 Vascularization of 3D Engineered Tissues. **2020**, 1-18

612 CHAPTER 11:Ultrashort Tetrameric Peptide Nanogels Support Tissue Graft Formation, Wound Healing and 3D Bioprinting. **2020**, 363-394

611 Vascularization of 3D Engineered Tissues. **2020**, 469-486

610 Recent advances in regenerative medicine. **2020**, 367-412

609 Tissue-Engineered Vascular Grafts for Children. **2020**, 533-548

608 Periosteum Derived Cells in Skeletal Tissue Regeneration. **2020**, 1-37

607	Tissue EngineeringâBone Mimics. **2020**, 750-777	0
606	Tissue-Engineered Vascular Grafts for Children. **2020**, 1-16	
605	Are Engineered Tissues Useful for Tracheal Reconstruction?. **2020**, 513-521	
604	Nanotoxicity and regulatory aspects in musculoskeletal regeneration. **2020**, 197-235	
603	Off-the-Shelf Tissue-Engineered Vascular Conduits: Clinical Translation. **2020**, 489-531	0
602	Stem Cells for Tissue Repair of the GI Tract. **2020**, 1-24	
601	Three-Dimensional Bioprinting Using a Coaxial Needle with Viscous Inks in Bone Tissue Engineering - An Study. **2020**, 10, 370-376	3
600	Tissue-Engineered Skin Substitutes. **2020**, 459-464	
599	Extracellular Matrix-based Materials for Bone Regeneration. **2020**, 489-533	
598	Physico-Chemical and Biocompatibility of Poly(vinyl alcohol): Polyethylene Glycol/Œ Carragreenan Membrane by Freeze-Gelation Method. **2020**, 32, 1874-1880	
597	Periosteum Derived Cells in Skeletal Tissue Regeneration. **2020**, 101-137	0
596	Ligament Tissue Engineering: The Anterior Cruciate Ligament. **2020**, 1-18	
595	Polysaccharide Carriers for Induction and Evaluation of Tissue Regeneration and Drug Delivery. **2020**, 1-36	
594	Experimental study of tissue-engineered urethra with collagen / chitosan composite as scaffolds.	
593	Perfusion-Decellularized Larynx as a Natural 3D Scaffold in a Rabbit Model. **2021**, 1-8	0
592	Bioprinting of Complex Multicellular Organs with Advanced Functionality-Recent Progress and Challenges Ahead.. **2022**, 34, e2101321	2
591	A tissue-engineered, decellularized, connective tissue membrane for allogeneic arterial patch implantation. **2021**,	
590	An open source extrusion bioprinter based on the E3D motion system and tool changer to enable FRESH and multimaterial bioprinting. **2021**, 11, 21547	0

589 Scaffold biomaterials and nano-based therapeutic´strategies for skeletal muscle regeneration. **2021**, 16, 2521-2538

588 Multifunctional 3D-Printed Magnetic Polycaprolactone/Hydroxyapatite Scaffolds for Bone Tissue Engineering. **2021**, 13, 2

587 Tissue Engineering in Stomatology: A Review of Potential Approaches for Oral Disease Treatments. **2021**, 9, 662418 0

586 Stem Cells for Tissue Repair of the GI Tract. **2022**, 1007-1030

585 A Curriculum Vitae of Mine as a Chemical Engineer. **2020**, 25, 7_98-7_102

584 Using Acoustic Fields to Fabricate ECM-Based Biomaterials for Regenerative Medicine Applications. **2020**, 2, 0

583 A tissue-engineered human trabecular meshwork hydrogel for advanced glaucoma disease modeling.

582 Integration of a Visualization Solution with a 3-D Simulation Model for Tissue Growth. 388-407

581 Analysis of Cell Growth in A Fixed Bed Bioreactor Using Magnetic Resonance Spectroscopy and Imaging. **1998**, 627-633

580 Formation of Cylindrical Multicellular Aggregate (Cylindroid) of Rat Hepatocytes on Pressed Sheet of Polyurethane Foam. **1999**, 229-233

579 Carbon Source Has a Considerable Influence on Extracellular Matrix Formation, Demonstrated on Specific Collagen Expression of Primary Human Tenocytes. **2005**, 207-212

578 Corneal cells for regeneration. **2005**, 63-83

577 Predicting Tissue Assembly of Prostate Cancer Spheroids. **2007**, 297-302

576 The Bioengineered Organoid Skin in Plastic and Reconstructive Surgery. **2008**, 24-28

575 Tissue Engineering: Nanoscale Contacts in Cell Adhesion to Substrates. **2008**, 257-283

574 Grundlagen des Tissue Engineering. **2008**, 351-364 1

573 Tissue Engineering â€Combining Cells and Biomaterials into Functional Tissues. **2008**, 193-214

572 Ethical Issues in Tissue Engineering. **2009**, 23-35 0

571	Biophysical Stimulation of Cells and Tissues in Bioreactors. **2009**, 633-646	
570	Tissue Engineering and Its Applications in Dentistry. **2009**, 921-938	
569	Manufacturing Porous BCP Body by Negative Polymer Replica as a Bone Tissue Engineering Scaffold. **2009**, 1305-1308	
568	Spinal Fusion Cage Design. **2009**, 1546-1549	
567	Simulation of Tissue-Engineering Cell Cultures Using a Hybrid Model Combining a Differential Nutrient Equation and Cellular Automata. **2009**, 1737-1740	
566	Fabrication of Transparent Arteriole Membrane Models. **2009**, 2223-2227	
565	Cell Immobilization Strategies for Tissue Engineering: Recent Trends and Future Perspectives. **2021**, 85-139	
564	Nanotechnological Strategies for Engineering Complex Tissues. **2020**, 351-382	1
563	Synthesis and Applications of Hydrogels in Cancer Therapy. **2020**, 20, 1431-1446	1
562	Vascular grafts and valves that animate, made from decellularized biologically-engineered tissue tubes. **2020**, 61, 577-585	0
561	Viscoelasticity Determines the Property of Hydrogels as a Scaffold for 3D Culture of Cells. **2020**, 93, 343-347	
560	Surgery and Operating Room for Restoring Organs: Organ Regeneration by Tissue Engineering in the Near Future. **2021**, 57-62	
559	2D Graphene Nanostructures for Biomedical Applications.	1
558	Information and Scientific Impact of Advanced Therapies in the Age of Mass Media: Altmetrics-Based Analysis of Tissue Engineering. **2021**, 23, e25394	
557	Tissue-engineered blood vessels in pediatric cardiac surgery. **2008**, 81, 161-6	68
556	Novel chitosan-polycaprolactone blends as potential scaffold and carrier for corneal endothelial transplantation. **2012**, 18, 255-64	34
555	Current advances in the translation of vascular tissue engineering to the treatment of pediatric congenital heart disease. **2012**, 85, 229-38	20
554	Tissue engineering in periodontal regeneration: A brief review. **2012**, 9, 671-80	11

553	Pluripotent stem cells for cardiac regeneration: overview of recent advances & emerging trends. **2013**, 137, 270-82	4
552	in vitro Decellularization of Rabbit Lung Tissue. **2013**, 15, 83-8	9
551	Bioactive factors for tissue regeneration: state of the art. **2012**, 2, 193-203	12
550	Modified frontolateral partial laryngectomy operation: combined muscle-pedicle hyoid bone and thyrohyoid membrane flap in laryngeal reconstruction. **2013**, 10, 103-9	
549	Comparison between Chondrogenic Markers of Differentiated Chondrocytes from Adipose Derived Stem Cells and Articular Chondrocytes In Vitro. **2013**, 16, 763-73	23
548	Advances in Single-cell Tracking of Mesenchymal Stem Cells (MSCs) During Musculoskeletal Regeneration. **2012**, 14, 22-28	3
547	Amniotic fluid stem cells and their application in cell-based tissue regeneration. **2012**, 6, 147-56	14
546	Biophysical Stimulation for Bone Regeneration. **2013**, 1, 1014	1
545	Periodontio-integrated implants: A revolutionary concept. **2014**, 11, 154-62	1
544	The biomaterialist's task: scaffold biomaterials and fabrication technologies. **2013**, 1, 130-7	6
543	Cartilage engineering using chondrocyte cell sheets and its application in reconstruction of microtia. **2015**, 8, 73-80	8
542	Tissue Engineering: Step Ahead in Maxillofacial Reconstruction. **2015**, 7, 138-42	20
541	Angiogenesis, cell differentiation and cell survival in tissue engineering and cancer research. **2015**, 4, Doc08	3
540	Influence of cell printing on biological characters of chondrocytes. **2015**, 8, 17471-9	1
539	Mesenchymal stem cells can survive on the extracellular matrix-derived decellularized bovine articular cartilage scaffold. **2015**, 18, 1221-7	14
538	Single-Visit Pulp Revascularization of a Nonvital Immature Permanent Tooth Using Biodentine. **2016**, 11, 246-9	13
537	Bioreactor-Based Tumor Tissue Engineering. **2016**, 8, 44-58	7
536	An overview on autologous fibrin glue in bone tissue engineering of maxillofacial surgery. **2017**, 14, 79-86	20

535	Ocular surface reconstruction in limbal stem cell deficiency. **2016**, 60, 2-5	6
534	[A novel calcium phosphate cement pre-loaded with chitosan and small molecule adenosine for repairing large cranial defects in rats]. **2018**, 38, 716-722	
533	Bioengineering strategies of the uterus towards improving current investigative models and female reproductive health. **2019**, 11, 87-99	1
532	[Dentin matrix in tissue regeneration: a progress report]. **2019**, 37, 92-96	
531	[Establishment of a 3D printing system for bone tissue engineering scaffold fabrication and the evaluation of its controllability over macro and micro structure precision]. **2019**, 51, 115-119	
530	pre-vascularization strategies for tissue engineered constructs-Bioprinting and others. **2017**, 3, 008	3
529	Feasibility of chondrogenesis for the entire umbilical cord in preliminary preparation for tracheal graft. **2021**, 13, 1307-1321	
528	[Application advances in the computational fluid dynamics in tissue engineering]. **2021**, 35, 776-780	
527	Bio-assembling and Bioprinting for Engineering Microvessels from the Bottom Up. **2021**, 7, 366	
526	[Effect of vascular endothelial growth factor 165-loaded porous poly (ε-caprolactone) scaffolds on the osteogenic differentiation of adipose-derived stem cells]. **2018**, 32, 270-275	
525	[Research status and progress of biomaterials for bone repair and reconstruction]. **2018**, 32, 815-820	
524	Scaffolds with drug delivery capability. **2022**, 817-840	
523	Electroactive poly(vinylidene fluoride) electrospun fiber mats coated with polyaniline and polypyrrole for tissue regeneration applications. **2022**, 170, 105118	3
522	Female reproductive organs tissue engineering. **2022**, 803-816	
521	Advanced imaging/MRI for tissue engineering. **2022**, 281-343	
520	Dense collagen-based scaffolds for soft tissue engineering applications. **2022**, 771-802	0
519	Regenerative approaches for endodontics. **2022**, 211-226	
518	Biomolecules and growth factors for endodontic regeneration. **2022**, 251-272	

517	Synthetic polymeric biomaterials for tissue engineering. **2022**, 41-74	1
516	Development of biomedical Ti-Nb-Zr-Mn alloys with enhanced mechanical properties and corrosion resistance. **2022**, 30, 103027	2
515	The biology of mesenchymal stem/stromal cells in the treatment of osteoarthritis. **2021**, 100035	
514	The Effect of Collagen-I Coatings of 3D Printed PCL Scaffolds for Bone Replacement on Three Different Cell Types. **2021**, 11, 11063	1
513	Heat-Inactivation of Fetal and Newborn Sera Did Not Impair the Expansion and Scaffold Engineering Potentials of Fibroblasts. **2021**, 8,	1
512	Fractal Design Boosts Extrusion-Based 3D Printing of Bone-Mimicking Radial-Gradient Scaffolds.. **2021**, 2021, 9892689	0
511	A review on mechanical and In-vitro studies of polymer reinforced bioactive glass-scaffolds and their fabrication techniques. **2021**,	2
510	Efficient protein incorporation and release by a jigsaw-shaped self-assembling peptide hydrogel for injured brain regeneration. **2021**, 12, 6623	5
509	Recent Developments of Nanomaterials in Hydrogels: Characteristics, Influences, and Applications. **2021**, 6, 12358-12382	1
508	Tissue Engineering and Regulatory Science. **2021**,	0
507	Piezoelectric materials and systems for tissue engineering and implantable energy harvesting devices for biomedical applications. 1-51	4
506	Dominant role of native cartilage niche for determining the cartilage type regenerated by BMSCs.. **2022**, 13, 149-160	4
505	Bone regeneration in rat calvarial defects using dissociated or spheroid mesenchymal stromal cells in scaffold-hydrogel constructs. **2021**, 12, 575	4
504	Recent advances in the hybridization of cellulose and carbon nanomaterials: Interactions, structural design, functional tailoring, and applications.. **2022**, 279, 118947	10
503	Methods of Modification of Mesenchymal Stem Cells and Conditions of Their Culturing for Hyaline Cartilage Tissue Engineering. **2021**, 9,	1
502	Piezoelectric Signals in Vascularized Bone Regeneration. **2021**, 11,	2
501	Decellularized normal and cancer tissues as tools for cancer research. **2021**,	3
500	3D Printed Multiphasic Scaffolds for Osteochondral Repair: Challenges and Opportunities. **2021**, 22,	4

499	Current Scenario of Regenerative Medicine: Role of Cell, Scaffold and Growth Factor.	
498	Peptides as 3D Printable Feedstocks: Design Strategies and Emerging Applications. **2021**, 101487	0
497	Enhancing chondrogenic potential via mesenchymal stem cell sheet multilayering.. **2021**, 18, 487-496	0
496	Evaluation of the Growth and Differentiation of Human Fetal Osteoblasts (hFOB) Cells on Demineralized Bone Matrix (DBM). **2021**, 1-14	
495	3D bioprinting of tissue units with mesenchymal stem cells, retaining their proliferative and differentiating potential, in polyphosphate-containing bio-ink. **2021**,	0
494	Nanotechnology for stem cell and tissue engineering. **2021**,	1
493	Optical Coherence Elastography Applications. **2021**, 1-34	1
492	Evolution of Stem Cells in Cardio-Regenerative Therapy. **2021**, 93-118	
491	Orthopedic Application of Collagen-Hydroxyapatite Bone Substitutes: A Clinical Perspective. **2022**, 247-263	
490	Tuning magnetic response and ionic conductivity of electrospun hybrid membranes for tissue regeneration strategies.	1
489	Regenerative strategies for the consequences of myocardial infarction: Chronological indication and upcoming visions.. **2021**, 146, 112584	1
488	Biomaterials assisted reconstructive urology: The pursuit of an implantable bioengineered neo-urinary bladder.. **2021**, 281, 121331	2
487	Enzymatically functionalized RGD-gelatin scaffolds that recruit host mesenchymal stem cells in vivo and promote bone regeneration.. **2021**, 612, 377-391	1
486	Information and Scientific Impact of Advanced Therapies in the Age of Mass Media: Altmetrics-Based Analysis of Tissue Engineering (Preprint).	
485	Co-dissolution of cellulose and silk fibroin in levulinic acid-derived protic ionic liquids for composited membrane and fiber preparation. **2021**, 23, 9669-9682	2
484	Bio-assembling and Bioprinting for Engineering Microvessels from the Bottom Up. **2021**, 7, 366	1
483	Effect of Fascia Implantation and Controlled Release of Basic Fibroblast Growth Factor for Muscle Atrophy in Rat Laryngeal Paralysis. **2021**, 1945998211052895	
482	Deterjan Esaslı Hücresizleştirilen Tavuk Derisinin Doku İskelesi Olarak Karakterizasyonu.	

481	Supramolecular Adhesive Hydrogels for Tissue Engineering Applications.. **2022**,	28
480	Electrical and thermal stimulus-responsive nanocarbon-based 3D hydrogel sponge for switchable drug delivery.. **2022**,	2
479	Review on novel biomaterials and innovative 3D printing techniques in biomedical applications. **2022**,	2
478	Preface. **2022**, xv-xvi	
477	Nanocarbon for bioelectronics and biosensing. **2022**, 689-714	2
476	Stem cells and regenerative medicine for musculoskeletal tissue. **2022**, 319-360	
475	A facile approach to fabricate load-bearing porous polymer scaffolds for bone tissue engineering. 1	3
474	Tissue Engineering and Regeneration of the Human Hair Follicle in Androgenetic Alopecia: Literature Review.. **2022**, 12,	0
473	Biodegradable´polymer blends´for tissue engineering. **2022**, 591-609	0
472	Bone tissue engineering. **2022**, 1-40	
471	Multiparametric Material Functionality of Microtissue-Based In´Vitro Models as Alternatives to Animal Testing.. **2022**, e2105319	2
470	Alginates - A Seaweed Product: Its´Properties and Applications.	1
469	Overview of current technologies for tissue engineering and regenerative medicine. **2022**, 11-31	
468	Stem cell research in tissue engineering and translational medicine. **2022**, 157-172	
467	Prospects of collagen scaffolds for muscle regeneration. **2022**, 347-361	
466	3D-Printed Polyurethane Tissue-Engineering Scaffold with Hierarchical Microcellular Foam Structure and Antibacterial Properties. 2101134	1
465	Osteopontin on the Dental Implant Surface Promotes Direct Osteogenesis in Osseointegration.. **2022**, 23,	1
464	Recent advances in the stereolithographic three-dimensional printing of ceramic cores: Challenges and prospects. **2022**,	1

463	Application of decellularized bone matrix as a bioscaffold in bone tissue engineering.. **2022**, 16, 1	7
462	Trends in 3D Printing Implants for Medical and Dental Applications. **2022**,	0
461	Challenges and opportunities of silk protein hydrogels in biomedical applications.	2
460	Mussel-inspired injectable chitosan hydrogel modified with catechol for cell adhesion and cartilage defect repair.. **2022**,	3
459	Conventional and Recent Trends of Scaffolds Fabrication: A Superior Mode for Tissue Engineering.. **2022**, 14,	5
458	Gelatin Methacrylate Hydrogel for Tissue Engineering Applications-A Review on Material Modifications.. **2022**, 15,	4
457	Biomedical applications of electrospun chitosan nanofibers. **2022**, 75-110	
456	A Minireview of Microfluidic Scaffold Materials in Tissue Engineering.. **2021**, 8, 783268	1
455	The cellular responses of human macrophages seeded on 3D printed thermoplastic polyurethane scaffold.	
454	Bone Mesenchymal Stem Cell-Derived sEV-Encapsulated Thermosensitive Hydrogels Accelerate Osteogenesis and Angiogenesis by Release of Exosomal miR-21.. **2021**, 9, 829136	3
453	Methods of producing three dimensional electrospun scaffolds for bone tissue engineering: A review.. **2022**, 9544119211069463	0
452	The role of cell-matrix interactions in connective tissue mechanics.. **2021**,	1
451	Recent Advances and Future Challenges in the Additive Manufacturing of Hydrogels.. **2022**, 14,	
450	Tissue engineering and cell therapy for cartilage repair: preclinical evaluation methods.. **2022**,	2
449	New paradigms in regenerative engineering: Emerging role of extracellular vesicles paired with instructive biomaterials.. **2022**, 46, 1445-1451	2
448	Scaffold-free approaches for the fabrication of engineered articular cartilage tissue.. **2022**,	0
447	Tissue Engineering with Compact Bone-Derived Cell Spheroids Enables Bone Formation around Transplanted Tooth.. **2022**, 19, 377	0
446	Biomolecule-Mediated Therapeutics of the Dentin-Pulp Complex: A Systematic Review.. **2022**, 12,	2

445	Recent Advances in Vertical Alveolar Bone Augmentation Using Additive Manufacturing Technologies.. **2021**, 9, 798393	0
444	Bioactive Chitosan-Based Organometallic Scaffolds for Tissue Engineering and Regeneration.. **2022**, 380, 13	1
443	Engineering Electrospun Nanofibers for the Treatment of Oral Diseases.. **2021**, 9, 797523	2
442	Tissue engineering of the vascular system: from capillaries to larger blood vessels. **2000**, 38, 232-40	9
441	Advances in Tissue Engineering and Implications for Oral and Maxillofacial Reconstruction. **2021**, 49, 685-694	
440	Functionalized 3D Bioactive Polymeric Materials in Tissue Engineering and Regenerative Medicine. **2022**, 257-277	
439	Global Regulatory Frameworks and Quality Standards for Stem Cells Therapy and Regenerative Medicines. **2022**, 69-111	
438	Mechanical Characterization of Additive Manufactured Polymeric Scaffolds for Tissue Engineering. **2022**, 99-148	
437	Development of Additive Manufacturing-Based Medical Products for Clinical Translation and Marketing. **2022**, 267-292	0
436	[illegible] **2022**, 3-13	
435	Nanoparticles in dentistry. **2022**, 335-358	
434	Hybrid Biomaterials in Drug Delivery and Biomedical Applications. **2022**, 409-434	0
433	Regenerative medicine relating to urethroplasty. **2022**, 253-265	
432	Tissue Engineering Strategies in Cleft Palate. **2022**, 1-10	
431	Efficient Fabrication of Uniform, Injectable, and Shape-Memory Chitosan Microsponges as Cell Carriers for Tissue Engineering. **2022**, 4, 1743-1751	1
430	Supercritical Carbon Dioxide Facilitated Collagen Scaffold Production for Tissue Engineering.	
429	Bibliometric and Visualized Analysis of Tissue Engineering for Cartilage Repair and Regeneration Over the Past Decade. 1	
428	Special Features of Polyester-Based Materials for Medical Applications.. **2022**, 14,	6

427	Visible-Light-Mediated Nano-biomineralization of Customizable Tough Hydrogels for Biomimetic Tissue Engineering.. **2022**,	3
426	Recent Developments in Hyaluronic Acid-Based Hydrogels for Cartilage Tissue Engineering Applications.. **2022**, 14,	2
425	Molecular Biological Comparison of Dental Pulp- and Apical Papilla-Derived Stem Cells.. **2022**, 23,	1
424	Polymer-Based Constructs for Flexor Tendon Repair: A Review.. **2022**, 14,	4
423	Fabrication of Naturally Derived Double-Network Hydrogels With a Sustained Aspirin Release System for Facilitating Bone Regeneration.. **2022**, 10, 874985	1
422	Study of Alveolar Bone Remodeling Using Deciduous Tooth Stem Cells and Hydroxyapatite by Vascular Endothelial Growth Factor Enhancement and Inhibition of Matrix Metalloproteinase-8 Expression in vivo.. **2022**, 14, 71-78	1
421	Cellular Interaction of Bone Marrow Mesenchymal Stem Cells with Polymer and Hydrogel 3D Microscaffold Templates.. **2022**,	2
420	3D Tissue-Engineered Vascular Drug Screening Platforms: Promise and Considerations.. **2022**, 9, 847554	4
419	Self-Assembling Peptide Hydrogels as Functional Tools to Tackle Intervertebral Disc Degeneration.. **2022**, 8,	0
418	Biomaterial-related cell microenvironment in tissue engineering and regenerative medicine. **2022**,	6
417	Mechanical regulation of tissues that reproduces wrinkle patterns of gastrointestinal tracts.. **2022**,	
416	From tissue engineering to mosquitoes: biopolymers as tools for developing a novel biomimetic approach to pest management/vector control.. **2022**, 15, 79	0
415	Preliminary report of de novo adipogenesis using novel bioabsorbable implants and image evaluation using a porcine model.. **2022**, 1	
414	Applications of Polymer Bioconjugates. 1-47	
413	Efficacy of concentrated growth factor with low-level laser for the regeneration of interdental papilla defects.. **2022**, 1	
412	Study on Dual Pore Network Polylactic Acid Scaffolds for Growth of MCF7 Human Breast Cancer Cells. 2200122	
411	Evaluation of ethylene oxide, gamma radiation, dry heat and autoclave sterilization processes on extracellular matrix of biomaterial dental scaffolds.. **2022**, 12, 4299	0
410	Standardized Human Platelet Lysates as Adequate Substitute to Fetal Calf Serum in Endothelial Cell Culture for Tissue Engineering.. **2022**, 2022, 3807314	1

409	Periodontal Wound Healing and Regeneration: Insights for Engineering New Therapeutic Approaches. **2022**, 3,	2
408	Ionic liquid modified electroactive polymer-based microenvironments for tissue engineering. **2022**, 246, 124731	0
407	BC enhanced photocurable hydrogel based on 3D bioprinting for nasal cartilage repair. 1-12	0
406	Recent advances in animal cell technologies for industrial and medical applications.. **2022**,	
405	The Potential Role of Regenerative Medicine on the Future Management of Hypoplastic Left Heart Syndrome.. **2022**, 9,	0
404	Syngeneic implantation of mouse hepatic progenitor cell-derived three-dimensional liver tissue with dense collagen fibrils.. **2022**, 28, 1444-1454	0
403	Antioxidant -Mangostin Coated Woven Polycaprolactone Nanofibrous Yarn Scaffold for Cardiac Tissue Repair.	0
402	Bacterial Cellulose and ECM Hydrogels: An Innovative Approach for Cardiovascular Regenerative Medicine.. **2022**, 23,	1
401	Beyond separation: Membranes towards medicine. **2022**, 2, 100020	0
400	Regenerative therapies for tympanic membrane. **2022**, 127, 100942	0
399	Nanostructures to Potentiate Axon Navigation and Regrowth in the Damaged Central Nervous Tissue. **2022**, 79-97	
398	General Aspects of Traumatic Neural Diseases and Requirements of Central Nervous System Implantable Biomaterials as Diagnostic and Therapeutic Tools. **2022**, 1-32	
397	Materials for Dentoalveolar Bioprinting: Current State of the Art.. **2021**, 10,	3
396	The Effect of Diabetes Mellitus on IGF Axis and Stem Cell Mediated Regeneration of the Periodontium.. **2021**, 8,	
395	Biopolymer-Based Scaffolds for Bone and Tissue Engineering. **2022**, 33-61	
394	Tissue Engineering of Canine Cartilage from Surgically Debrided Osteochondritis Dissecans Fragments.. **2021**, 50, 56	0
393	Carbohydrate-Based Materials in Tissue Engineering Applications. **2022**, 1-31	
392	Custom-Made Poly(urethane) Coatings Improve the Mechanical Properties of Bioactive Glass Scaffolds Designed for Bone Tissue Engineering.. **2021**, 14,	0

391	Biomedyczne w□□iwo□i chitozanu â□zastosowanie w in□nierii tkankowej Biomedical properties of chitosan: Application in tissue engineering. **2021**, 75, 1020-1037	
390	Engineering Complex Anisotropic Scaffolds beyond Simply Uniaxial Alignment for Tissue Engineering. 2110676	6
389	Progress on Biomimetic Mineralization and Materials for Hard Tissue Regeneration. **2021**,	0
388	Carboxymethyl Chitosan Promotes Migration and Inhibits Lipopolysaccharide-Induced Inflammatory Response in Canine Bone Marrow-Derived Mesenchymal Stem Cells. **2021**, 38, 261-268	
387	Avaliaõ automatizada da infiltraõ e remoõ celular em scaffolds descelularizados â□Estudo experimental em coelhos.	
386	An Investigative Study on the Progress of Nanoclay-Reinforced Polymers: Preparation, Properties, and Applications: A Review.. **2021**, 13,	4
385	Construction and Evaluation of a Bio-Engineered Pump to Enable Subpulmonary Support of the Fontan Circulation: A Proof-of-Concept Study. **2021**,	
384	Stabilizing and improving elastic bioengineered scaffolds mimicking extracellular matrix for use in wound repair and regeneration. **2022**, 3, 54-64	
383	Review on regenerative endodontics: Past concepts, current protocols and future strategies. **2021**, 6, 205-211	
382	Development and characterization of sodium alginate/ bifidobacterium probiotic biohybrid material used in tissue engineering. **2022**, 139, 52086	
381	Effectively improved 3-dimensional structural stability of atelocollagen-gelatin sponge biomaterial by heat treatment.. **2022**,	
380	Cellular Interaction with PLA Biomaterial: Scanning Electron Microscopy Analysis. **2022**, 145-152	
379	Pulmonary valve replacement: a new paradigm with tissue engineering.. **2022**, 101212	
378	Abdominal Wall Reconstruction with Tissue-Engineered Mesh Using Muscle-Derived Stem Cells in an Animal Model. 1	
377	Engineering Efforts to Refine Compatibility and Duration of Aortic Valve Replacements: An Overview of Previous Expectations and New Promises.. **2022**, 9, 863136	0
376	Scaffold Pore Curvature Influences □C Fate through Differential Cellular Organization and YAP/TAZ Activity.. **2022**, 23,	2
375	Viscoelastic Biomaterials for Tissue Regeneration.. **2022**,	0
374	Poly(lactic-co-glycolide) based biodegradable electrically and magnetically active microenvironments for tissue regeneration applications. **2022**, 111197	2

373 Cord-Blood Mesenchymal Stem Cells and Tissue Engineering. **2006**, 2, 163-168

372 Data_Sheet_1.pdf. **2020**,

371 Video_1.AVI. **2020**,

370 Video_2.AVI. **2020**,

369 Video_3.MP4. **2020**,

368 Distinctive Roles of Wnt Signaling in Chondrogenic Differentiation of BMSCs under Coupling of Pressure and Platelet-Rich Fibrin.. **2022**, 1 2

367 Dendrimer as a momentous tool in tissue engineering and regenerative medicine.. **2022**, 6

366 Gradient versus End-Capped Degradable Polymer Sequence Variations Result in Stiff to Elastic Photochemically 3D-Printed Substrates.. **2022**, 1

365 Bioinspired Surface Functionalization of Poly(ether ether ketone) for Enhancing Osteogenesis and Bacterial Resistance.. **2022**, 1

364 Microbial-stem cell interactions in periodontal disease.. **2022**, 71,

363 Improved porosity of electrospun poly (Lactic-Co-Glycolic) scaffolds by sacrificial microparticles enhances cellular infiltration compared to sacrificial microfiber.. **2022**, 8853282221075890

362 Synthesis of Alginate Nanogels with Polyvalent 3D Transition Metal Cations: Applications in Urease Immobilization.. **2022**, 14, 1

361 [Research progress of the donor factors and experimental factors affecting adipogenic differentiation of adipose derived stem cells]. **2017**, 31, 1390-1395

360 Effect of tissue expansion on chondrocyte sheets in cartilage composite reconstruction.. **2021**, 13, 13438-13451

359 Research progress of carbon materials in the field of three-dimensional printing polymer nanocomposites. **2022**, 11, 1193-1208 2

358 Tissue Engineering and Graft Options. **2022**, 259-269

357 Polymeric beads for targeted drug delivery and healthcare applications. **2022**, 41-70 0

356 Decellularization of tumours: A new frontier in tissue engineering.. **2022**, 13, 20417314221091682 3

355	3D Printing in Shoulder Surgery. **2022**, 271-289	
354	Hydrogel Scaffolds Based on Alginate, Gelatin, and 2-Hydroxyethyl Methacrylate for Tissue Regeneration. **2022**, 173-204	
353	Characterization and in vitro analysis of a poly(Ɛ-caprolactone)–gelatin matrix produced by rotary jet spinning and applied as a skin dressing.	1
352	3D Printing and Virtual Surgical Planning in Oral and Maxillofacial Surgery.. **2022**, 11,	3
351	3D Printing of Calcium Phosphate/Calcium Sulfate with Alginate/Cellulose-Based Scaffolds for Bone Regeneration: Multilayer Fabrication and Characterization. **2022**, 13, 47	4
350	Exosomes Derived from Dental Pulp Stem Cells Show Different Angiogenic and Osteogenic Properties in Relation to the Age of the Donor. **2022**, 14, 908	2
349	Mechanical Properties of Ceramics Reinforced with Allotropic Forms of Carbon. **2022**, 100966	3
348	An in vitro analysis of the effect of geometry-induced flows on endothelial cell behavior in 3D printed small-diameter blood vessels. **2022**, 212832	0
347	pO2 Assessment in Subcutaneous and Intraperitoneal sites Using Imaging of Solid Oxygen Probe.. **2022**,	
346	Recent Development of Conductive Hydrogels for Tissue Engineering: Review and Perspective.. **2022**, e2200051	1
345	Redox signaling induces laminin receptor ribosomal protein-SA expression to improve cell adhesion following radiofrequency glow discharge treatments.. **2022**, 12, 7742	0
344	Three-Dimensional Bioprinted Controlled Release Scaffold Containing Mesenchymal Stem/Stromal Lyosecretome for Bone Regeneration: Sterile Manufacturing and In Vitro Biological Efficacy. **2022**, 10, 1063	2
343	Early effects of adipose-derived stem cell sheets against detrusor underactivity in a rat cryo-injury model.. **2022**, 301, 120604	
342	Fused filament fabrication of polycaprolactone bioscaffolds: Influence of fabrication parameters and thermal environment on geometric fidelity and mechanical properties. **2022**, 27, e00206	
341	Tissue engineering–electrospinning approach. **2022**, 213-224	
340	BIOLOGIC MODIFIERS IN PERIODONTAL REGENERATION. **1998**, 42, 361-387	7
339	Effectiveness of revitalization in treating apical periodontitis: a systematic review and meta-analysis.. **2022**,	
338	Tissue engineered drug delivery vehicles: Methods to monitor and regulate the release behavior.. **2022**,	4

337	Development of an At-home Metal Corrosion Laboratory Experiment for STEM Outreach in Biomaterials During the Covid-19 Pandemic.. **2021**, 2021,	
336	Acellular Myocardial Scaffolds and Slices Fabrication, and Method for Applying Mechanical and Electrical Simulation to Tissue Construct. **2022**, 55-70	
335	Stem Cells and Their Clinical Applications. **2022**, 131-137	
334	Stem cell-based therapies for temporomandibular joint osteoarthritis and regeneration of cartilage/osteochondral defects: A systematic review of preclinical experiments. **2022**,	0
333	Assessing the biocompatibility of bovine tendon scaffold, a step forward in tendon tissue engineering.	
332	Self-Assembled Nano-Peptide Hydrogels with Human Umbilical Cord Mesenchymal Stem Cell Spheroids Accelerate Diabetic Skin Wound Healing by Inhibiting Inflammation and Promoting Angiogenesis. Volume 17, 2459-2474	0
331	Engineering the multiscale complexity of vascular networks.	0
330	Progress in Gelatin as Biomaterial for Tissue Engineering. **2022**, 14, 1177	6
329	Engineered fabrication of enamel-mimetic materials. **2022**,	0
328	Long-term results and safety of fibroblast growth factor injection for unilateral vocal fold paralysis.	
327	Knowledge Domain and Hotspots Predict Concerning Electroactive Biomaterials Applied in Tissue Engineering: A Bibliometric and Visualized Analysis From 2011 to 2021. **2022**, 10,	0
326	Mineralized vectors for gene therapy. **2022**,	
325	A Comprehensive Review of Biopolymer Fabrication in Additive Manufacturing Processing for 3D-Tissue-Engineering Scaffolds. **2022**, 14, 2119	2
324	Hydrogels for Tissue Engineering: Addressing Key Design Needs Toward Clinical Translation. **2022**, 10,	1
323	Incorporation of Glutamic Acid or Amino-Protected Glutamic Acid into Poly(Glycerol Sebacate): Synthesis and Characterization. **2022**, 14, 2206	0
322	In vivo biocompatible shape memory polyester derived from recycled polycarbonate e-waste for biomedical application. **2022**, 212961	1
321	Multi response optimization for compressive strength, porosity and dimensional accuracy of binder jetting 3D printed ceramic bone scaffolds. **2022**,	
320	Senescent cells in tissue engineering. **2022**, 76, 102737	0

319	Inter-donor variability of extracellular matrix production in long-term cultures of human fibroblasts.	0
318	The importance of structure property relationship for the designing of biomaterials using liquid crystal elastomers.	3
317	Research, development and future trends for medical textile products. **2022**, 795-828	
316	Cell motility in confluent tissues induced by substrate disorder. **2022**, 4,	
315	Self-assembling Molecular Medicine for the Subacute Phase of Ischemic Stroke.	0
314	Construction of Biocompatible Hydrogel Scaffolds With a Long-Term Drug Release for Facilitating Cartilage Repair. 13,	1
313	In vitro circulation model driven by tissue-engineered dome-shaped cardiac tissue.	0
312	Progress of Platelet Derivatives for Cartilage Tissue Engineering. 10,	0
311	Bone Tissue Engineering in Rat Calvarial Defects Using Induced Bone-like Tissue by rhBMPs from Immature Muscular Tissues In Vitro. **2022**, 23, 6927	
310	Transforming Capillary Alginate Gel (Capgel) into New 3D-Printing Biomaterial Inks. **2022**, 8, 376	0
309	Alginate in Usage Biomedical Areas.	
308	Proof of Concept of Biopolymer Based Hydrogels as Biomimetic Oviposition Substrate to Develop Tiger Mosquitoes (Aedes albopictus) Cost-Effective Lure and Kill Ovitraps. **2022**, 9, 267	0
307	3D printed bioresorbable scaffolds for articular cartilage tissue engineering: A comparative study between neat Polycaprolactone (PCL) and Poly (lactide-b-ethylene glycol) (PLA-PEG) block copolymer.	
306	3D Printing of PLLA/Biomineral Composite Bone Tissue Engineering Scaffolds. **2022**, 15, 4280	1
305	Effectiveness of endodontic tissue engineering in treatment of apical periodontitis: A systematic review.	1
304	Strong, Tough Bioactive Glasses and Composite Scaffolds. **2022**, 147-172	
303	Characterization of an Innovative Biomaterial Derived From Human Whartonâ Jelly as a New Promising Coating for Tissue Engineering Applications. 10,	
302	Combination of Carbonate Hydroxyapatite and Stem Cells from Human Deciduous Teeth Promotes Bone Regeneration by Enhancing BMP-2, VEGF and CD31 Expression in Immunodeficient Mice. **2022**, 11, 1914	0

301	Effects of Corona Treatment on Cellular Attachment and Morphology on Polydimethylsiloxane Micropillar Substrates.	0
300	Thermosensitive and Biocompatible Nanocomposites of Poly(N-vinylcaprolactam) and Hydroxyapatite with Potential Use for Bone Tissue Repair.	
299	Poly-Ɛ-caprolactone/poly(rotaxane) seeded with human dental pulp stem cells or osteoblasts promotes angiogenesis: a chorioallantoic membrane assay. 1-12	
298	3D Bioprinted Glioma Models.	2
297	Poloxamer-Based Scaffolds for Tissue Engineering Applications: A Review. **2022**, 8, 360	2
296	Advances of Stimulus-Responsive Hydrogels for Bone Defects Repair in Tissue Engineering. **2022**, 8, 389	1
295	Insights into the Prospective Aerogel Scaffolds Composed of Chitosan/Aramid Nanofibers for Tissue Engineering.	1
294	Soft Biomimetic 3D Free-Form Artificial Vascular Graft Using a Highly Uniform Microspherical Porous Structure.	
293	Tissue Engineering and Photodynamic Therapy: A New Frontier of Science for Clinical Application -An Up-To-Date Review. 10,	2
292	Additive manufacturing and advanced functionalities of cardiac patches: A review. **2022**, 174, 111332	2
291	Evaluation of mechanical and morphology properties of porous bioactive glass scaffolds. **2022**,	
290	Layered double hydroxide-based nanomaterials for biomedical applications. **2022**, 51, 6126-6176	13
289	Mineral trioxide aggregate endodontic revascularization of nonvital anterior tooth. **2022**, 14, 48	
288	Bone tissue engineering using nanotechnology based drug delivery system. **2022**, 177-196	
287	Angiogenesis induction by natural and synthetic polymers. **2022**, 227-239	
286	Nanofibrous Scaffolds for the Management of Periodontal Diseases. **2022**,	
285	Electrospinning and Three-Dimensional (3D) Printing for Biofabrication. **2022**, 555-604	0
284	Development of Micro/Nano Channels Using Electrospinning for Neural Differentiation of Cells. **2022**, 737-760	

283	Mechanical and microstructural evaluation of solid-state foamed Ti6Al4V-ELI alloy. **2022**, 110, 105-110	
282	Stem Cell Technology in Medical Biotechnology. **2022**, 233-267	
281	The Synergy of Biomimetic Design Strategies for Tissue Constructs. 2201414	3
280	Articular Cartilage: Injury, Restoration, and Preservation. **2022**, 100964	
279	Promise and Perspective of Nanomaterials in Antisenescence Tissue Engineering Applications.	1
278	Fluorescent Hybrid Material Based on Natural Spider Silk and Carbon Dots for Bioapplication.	0
277	Selectively triggered cell detachment from poly(N-isopropylacrylamide) microgel functionalized substrates. **2022**, 112699	
276	Osteogenic growth peptide enhances osteogenic differentiation of human periodontal ligament stem cells. **2022**, 8, e09936	
275	Ceramic Scaffolds for Bone Augmentation: Design and Characterization with SEM and Confocal Microscopy. **2022**, 15, 4899	0
274	Construction and Properties of Simvastatin and Calcium Phosphate Dual-Loaded Coaxial Fibrous Membranes with Osteogenic and Angiogenic Functions.	
273	BMP Signaling Pathway in Dentin Development and Diseases. **2022**, 11, 2216	1
272	A Review of Properties of Nanocellulose, Its Synthesis, and Potential in Biomedical Applications. **2022**, 12, 7090	2
271	Mathematical and computational models in spheroid-based biofabrication. **2022**,	0
270	Research trends in biomedical applications of two-dimensional nanomaterials over the last decade â bibliometric analysis. **2022**, 114420	3
269	Novel micro-lattice biomaterials for human skull repair with matching skull density and compression stiffness & strength. **2022**, 325, 132781	0
268	Tissue Engineering Alveolar Bone. **2010**, 19-81	
267	Biomaterials âPolymers, Scaffolds, and Basic Design Criteria. **2012**, 41-53	
266	Integrated gradient tissue-engineered osteochondral scaffolds: Challenges, current efforts and future perspectives. **2023**, 20, 574-597	5

265	Non-electric bioelectrical analog strategy by a biophysical-driven nano-micro spatial anisotropic scaffold for regulating stem cell niche and tissue regeneration in a neuronal therapy. **2023**, 20, 319-338	2
264	Tailoring micro/nano-fibers for biomedical applications. **2023**, 19, 328-347	8
263	The degradation of gelatin/alginate/fibrin hydrogels is cell type dependent and can be modulated by targeting fibrinolysis. 10,	0
262	Mesenchymal Stem Cell-Derived Extracellular Vesicles for Bone Defect Repair. **2022**, 12, 716	0
261	Processing methods for human amniotic membrane as scaffold for tissue engineering with mesenchymal stromal human cells.	1
260	Mesenchymal stem cells in fibrotic diseasesâ€the two sides of the same coin.	0
259	Bioactive Interpenetrating Hydrogel Networks Based on 2-Hydroxyethyl Methacrylate and Gelatin Intertwined with Alginate and Dopped with Apatite as Scaffolding Biomaterials. **2022**, 14, 3112	2
258	Unmodified Gum Arabic/Chitosan/Nanohydroxyapatite Nanocomposite Hydrogels as Potential Scaffolds for Bone Regeneration. **2022**, 14, 3052	0
257	Topological Design Optimisation of Tissue Engineering Scaffolds. **2022**, 307-320	
256	3D printed MXene (Ti2AlN)/polycaprolactone composite scaffolds for in situ maxillofacial bone defect repair. **2022**,	2
255	Antibiofilm Efficacy of Silver Nanoparticles Alone or Mixed with Calcium Hydroxide as Intracanal Medicaments: An Ex-Vivo Analysis. **2022**,	0
254	Tissue-Engineered Endothelial Cells Induce Sustained Vascular Healing Through Early Induction of Vascular Repair.	
253	Electrical Stimulation Enabled via Electrospun Piezoelectric Polymeric Nanofibers for Tissue Regeneration. **2022**, 2022, 1-23	1
252	Biomaterial-based 3D bioprinting strategy for orthopedic tissue engineering. **2022**,	2
251	Bioinspired Laminated Bioceramics with High Toughness for Bone Tissue Engineering.	
250	Characterizing cell recruitment into isotropic and anisotropic biomaterials by quantification of spatial density gradients in vitro. 10,	
249	Influences of Process Parameters of Near-Field Direct-Writing Melt Electrospinning on Performances of Polycaprolactone/Nano-Hydroxyapatite Scaffolds. **2022**, 14, 3404	0
248	Human Adult, Pediatric and Microtia Auricular Cartilage harbor Fibronectin-adhering Progenitor Cells with Regenerative Ear Reconstruction Potential. **2022**, 104979	

247	Bioengineering the Vascularized Endocrine Pancreas: A Fine-Tuned Interplay Between Vascularization, Extracellular-Matrix-Based Scaffold Architecture, and Insulin-Producing Cells. 35,	
246	Two-photon polymerization for 3D biomedical scaffolds: Overview and updates. 10,	1
245	In vitro high-content tissue models to address precision medicine challenges. **2022**, 101108	
244	Physiologically Responsive Polyurethanes for Tissue Repair and Regeneration. 2200061	1
243	Design Strategies and Biomimetic Approaches for Calcium Phosphate Scaffolds in Bone Tissue Regeneration. **2022**, 7, 112	3
242	Tracheal Anatomy and Factors Contributing to Tissue Engineering. **2022**, In Press,	
241	A new method for modeling rabbit growth plate injury for the study of tissue engineering scaffolds.	
240	Alginate microfibers as therapeutic delivery scaffolds and tissue mimics. 153537022211129	2
239	RGD Nanoarrays with Nanospacing Gradient Selectively Induce Orientation and Directed Migration of Endothelial and Smooth Muscle Cells. **2022**, 14, 37436-37446	5
238	Self-Healing Injectable Hydrogels for Tissue Regeneration.	9
237	Navigating regulatory pathways for translation of biologic cartilage repair products. **2022**, 14,	0
236	Advanced Electrospun Nanofibrous Stem Cell Niche for Bone Regenerative Engineering.	0
235	Testosterone Enanthate: An In Vitro Study of the Effects Triggered in MG-63 Cells. **2022**, 12, 1159	
234	In Vivo Application of Silica-Derived Inks for Bone Tissue Engineering: A 10-Year Systematic Review. **2022**, 9, 388	
233	Borrowing the Features of Biopolymers for Emerging Wound Healing Dressings: A Review. **2022**, 23, 8778	0
232	Bioprinting for Bone Tissue Engineering. **2022**, 1-9	
231	Engineering immunomodulatory hydrogels and cell-laden systems towards bone regeneration. **2022**, 140, 213058	0
230	Delivery and effectiveness of entomopathogenic fungi for mosquito and tick control: Current knowledge and research challenges. **2022**, 234, 106627	0

229	Comparison of the surface properties and cytocompatibility between plasma activated and homogeneously polydopamine-coated PCL nanofibers as a result of a pre-plasma activation step. **2022**, 447, 128808	0
228	Hydrophilic, conductive and flexible piezoresistive PEDOT:PSS 3D sensors with tunable microarchitecture and crosslinked using a PEGylated crosslinker. **2022**, 290, 117157	
227	Automated and dynamic extrusion pressure adjustment based on real-time flow rate measurements for precise ink dispensing in 3D bioprinting. **2022**, 28, e00229	0
226	The application of 3D bioprinting in urological diseases. **2022**, 16, 100388	0
225	A sustained release of alendronate from an injectable tetra-PEG hydrogel for efficient bone repair. 10,	0
224	WPI hydrogels as a potential substrate for tissue scaffolds: mechanical properties. **2022**, 4,	0
223	Engineered living bioassemblies for biomedical and functional material applications. **2022**, 77, 102756	0
222	Open-source library of tissue engineering scaffolds. **2022**, 223, 111154	0
221	Recent advances in biofunctional guided bone regeneration materials for repairing defective alveolar and maxillofacial bone: A review. **2022**, 58, 233-248	1
220	Biological multiscale computational modeling: A promising tool for 3D bioprinting and tissue engineering. **2022**, 28, e00234	0
219	Chitosan-based scaffolds as drug delivery systems in bone tissue engineering. **2022**, 222, 132-153	1
218	Application of Biocompatible Scaffolds in Stem-Cell-Based Dental Tissue Engineering. **2022**,	0
217	Bioprinting Applications in Craniofacial Regeneration. **2022**, 211-232	0
216	Nanoclays in medicine: a new frontier of an ancient medical practice.	0
215	Tissue Engineering and Regenerative Medicine. **2022**,	0
214	Recent Advancements in the Application of Chitosan-Based Nanocomposites in Tissue Engineering and Regenerative Medicine. **2022**, 145-163	0
213	Pathophysiology of Spinal Cord Injury and Tissue Engineering Approach for Its Neuronal Regeneration: Current Status and Future Prospects. **2022**,	1
212	3D printing technology for periodontal complex neogenesis in regenerative medicine. **2022**, 52, 259	0

211	Nanoparticles and Bioceramics Used in Hard Tissue Engineering. **2022**, 21-32	0
210	Tissue Engineering Strategies in Cleft Palate. **2022**, 429-438	0
209	Use of Nanoparticles in Endodontics. **2022**, 387-410	0
208	Thermoresponsive block copolymer brush for temperature-modulated hepatocyte separation.	0
207	Peptide nanogels as a scaffold for fabricating dermal grafts and 3D vascularized skin models. **2022**, 13, 204173142211118	1
206	Thermal-Induced Percolation Phenomena and Elasticity of Highly Oriented Electrospun Conductive Nanofibrous Biocomposites for Tissue Engineering. **2022**, 23, 8451	1
205	Development of macroporous eggshell derived apatite bone cement for non-load bearing defect repair in orthopedics. **2022**,	0
204	Stem Cells in Temporomandibular Joint Engineering: State of Art and Future Persectives. **2022**, 33, 2181-2187	14
203	3D-Printing Graphene Scaffolds for Bone Tissue Engineering. **2022**, 14, 1834	1
202	The horizon of pediatric cardiac critical care. 10,	0
201	Harnessing Biomaterials for Immunomodulatory-Driven Tissue Engineering.	0
200	Scaffolds in tissue engineering. **2022**, 8, 95-103	0
199	New dual-function in situ bone repair scaffolds promote osteogenesis and reduce infection. **2022**, 16,	0
198	Pharmaceutical and Biomedical Applications of Bio-Based Excipients. **2022**, 105-138	0
197	Clinical and patient-reported outcomes of tissue engineering strategies for periodontal and peri-implant reconstruction.	1
196	Elastic and Conductive Melanin/Poly(Vinyl Alcohol) Composite Hydrogel for Enhancing Repair Effect on Myocardial Infarction. 2200223	0
195	A Tissue Engineering Acoustophoretic (TEA) Set-up for the Enhanced Osteogenic Differentiation of Murine Mesenchymal Stromal Cells (mMSCs). **2022**, 23, 11473	1
194	A Porous Hydrogel with High Mechanical Strength and Biocompatibility for Bone Tissue Engineering. **2022**, 13, 140	3

193	Production of scaffold-free cell-based meat using cell sheet technology. **2022**, 6,	2
192	Novel approaches for periodontal tissue engineering. **2022**, 60,	1
191	Regenerative Medicine: Pharmacological Considerations and Clinical Role in Pain Management.	0
190	Photocrosslinkable Silk-Based Biomaterials for Regenerative Medicine and Healthcare Applications.	0
189	Challenges and opportunities for the next generation of cardiovascular tissue engineering. **2022**, 19, 1064-1071	1
188	Nonmulberry silk fibroin-based biomaterials: Impact on cell behavior regulation and tissue regeneration. **2022**,	1
187	Bone Implants (Bone Regeneration and Bone Cancer Treatments). **2022**, 265-321	0
186	Multiomics reveal that silk fibroin and sericin differentially potentiate the paracrine functions of mesenchymal stem cells and enhance tissue regeneration.	0
185	Electrospun Polyurethane/Small Intestinal Submucosa Blended Nanofibrous Mats for Potential Wound Healing. **2022**, 23, 2557-2564	0
184	The Four Pillars for Successful Regenerative Therapy in Endodontics: Stem Cells, Biomaterials, Growth Factors, and Their Synergistic Interactions. **2022**, 2022, 1-17	0
183	Current Progress and Technological Challenges in Translational 3D Bioprinting. **2022**, 1-23	0
182	Calcium Orthophosphate (CaPO4)-Based Bioceramics: Preparation, Properties, and Applications. **2022**, 12, 1380	1
181	Stem Cells: Use in Nephrology. **2022**, 29-67	0
180	Modeling the cellular microenvironment near a tissue-liquid interface during the cell growth in a porous scaffold. **2022**,	0
179	3D Printing in Nephrology. **2022**, 141-156	0
178	Laser-Induced Forward Transfer of Biomaterials. **2022**, 252-265	0
177	Surface Modification of PHBV Fibrous Scaffold via Lithium Borohydride Reduction. **2022**, 15, 7494	0
176	Pitfalls and promises of bile duct alternatives: A narrative review. 28, 5707-5722	1

175	Articular Cartilage Regeneration through Bioassembling Spherical Micro-Cartilage Building Blocks. **2022**, 11, 3244	1
174	A Review of Stem Cell Technology Targeting Hepatocyte Growth as an Alternative to Organ Transplantation. **2023**, 181-193	0
173	Composite Fibers Based on Polycaprolactone and Calcium Magnesium Silicate Powders for Tissue Engineering Applications. **2022**, 14, 4611	0
172	Biobanked tracheal basal cells retain the capacity to differentiate.	0
171	Effects of Human Deciduous Dental Pulp-Derived Mesenchymal Stem Cell-Derived Conditioned Medium on the Metabolism of HUVECs, Osteoblasts, and BMSCs. **2022**, 11, 3222	0
170	Recent Advances in the Application of Natural and Synthetic Polymer-Based Scaffolds in Musculoskeletal Regeneration. **2022**, 14, 4566	4
169	âDeconstructing Allograft Adipose and Fascia Matrix to Treat Soft Tissue Defects: The Addition of Fascia Matrix to Adipose Matrix Improves Angiogenesis, Volume Retention and Adipogenesis in a Rodent Modelâ□Publish Ahead of Print,	0
168	Hydrogels can control the presentation of growth factors and thereby improve their efficacy in tissue engineering. **2022**, 181, 1-21	0
167	A thermoresponsive cationic block copolymer brush-grafted silica bead interface for temperature-modulated separation of adipose-derived stem cells. **2022**, 220, 112928	0
166	Enhancing cartilage repair with optimized supramolecular hydrogel-based scaffold and pulsed electromagnetic field. **2023**, 22, 312-324	0
165	Bone Composition and Structure. **2010**, 15-41	0
164	??????????????????????????. **2010**, 63, 146-150	0
163	Introduction. **2012**, 1-6	0
162	Regenerative Medicine. **2022**, 187-208	0
161	Preparation of 3D Printed Polylactic Acid/Bacterial Cellulose Composite Scaffold for Tissue Engineering Applications. **2022**, 14, 4756	0
160	Cartilage Tissue Engineering: An Introduction. **2023**, 1-7	0
159	Organs-on-Chips Platforms Are Everywhere: A Zoom on Biomedical Investigation. **2022**, 9, 646	0
158	Knowledge domain and hotspots concerning photosensitive hydrogels for tissue engineering applications: A bibliometric and visualized analysis (1996-2022). 10,	0

157	Cell homing strategy as a promising approach to the vitality of pulp-dentin complexes in endodontic therapy: focus on potential biomaterials. 1-12	0
156	3D bioprinting optimization of human mesenchymal stromal cell laden gelatin-alginate-collagen bioink.	0
155	Long-term outcomes of regenerative treatment by endoscopic oral mucosal epithelial cell sheet transplantation for the prevention of esophageal stricture after endoscopic resection. **2022**, 100067	0
154	Mucosal Regeneration of a Duodenal Defect Using Small Intestine Submucosa. **2004**, 70, 49-51	0
153	Recent advances in regenerative biomaterials. **2022**, 9,	4
152	Decellularized matrix for repairing intervertebral disc degeneration: Fabrication methods, applications and animal models. **2023**, 18, 100523	1
151	Positive space acquiring asymmetric membranes for guiding alveolar bone regeneration under infectious conditions. **2023**, 145, 213252	0
150	Function-oriented design: A novel strategy for advanced biomedical materials. **2023**, 145, 197-209	0
149	Advanced strategies for constructing interfacial tissues of bone and tendon/ligament. **2022**, 13, 20417314221144	7
148	Perfusable cell-laden matrices to guide patterning of vascularization in vivo.	0
147	Surface modification of three-dimensional porous polymeric scaffolds in tissue engineering applications: A focus review on physical modifications methods. **2022**, 61, 1308-1333	0
146	3D Bioprinter Design and Development for Printing of UV Crosslinked Hydrogels under Sterile Condition. **2022**,	0
145	Smart surface-based cell sheet engineering for regenerative medicine. **2022**,	0
144	A Compilation of Study Models for Dental Pulp Regeneration. **2022**, 23, 14361	0
143	Effect of shock wave impact on natural chitosan biopolymer. **2023**, 28, 59-72	0
142	Advanced Gene Therapy Strategies for the Repair of ACL Injuries. **2022**, 23, 14467	0
141	Organotypic cultures as aging associated disease models. **2022**, 14, 9338-9383	1
140	Living Electrospun Short Fibrous Sponge via Engineered Nanofat for Wound Healing.	1

139	Assessment of 3D-Printed Polycaprolactone, Hydroxyapatite Nanoparticles and Diacrylate Poly(ethylene glycol) Scaffolds for Bone Regeneration. **2022**, 14, 2643	0
138	Multifunctional Scaffolds Based on Emulsion and Coaxial Electrospinning Incorporation of Hydroxyapatite for Bone Tissue Regeneration. **2022**, 23, 15016	1
137	3D Printing in Regenerative Medicine: Technologies and Resources Utilized. **2022**, 23, 14621	6
136	Design, Fabrication, and Application of Mini-Scaffolds for Cell Components in Tissue Engineering. **2022**, 14, 5068	0
135	Evolution of Cartilage Repair Technology.	0
134	Methacrylated Gelatin as an On-Demand Injectable Vehicle for Drug Delivery in Dentistry. **2023**, 493-503	0
133	Molecule(s) of Interest: I. Ionic Liquidsâ€Gateway to Newer Nanotechnology Applications: Advanced Nanobiotechnical Usesâ€Current Status, Emerging Trends, Challenges, and Prospects. **2022**, 23, 14346	0
132	Dense, porous, and fibrous scaffolds composed of PHBV, PCL, and their 75:25 blend: an in´vitro morphological and cytochemical characterization. **2023**, 28, 73-87	0
131	Kinetics of PTSA-Catalysed Polycondensation of Citric Acid with 1,3-Propanediol. **2022**, 12, 12445	0
130	VdW Heterostructure Electrochemical Applications. **2022**, 261-293	0
129	Effects of Various Irrigation Protocols Used in Regenerative Endodontic Procedures on the Migration, Proliferation, and Differentiation of Human Stem Cell from the Apical Papilla.	0
128	Tissue Engineering for Gastrointestinal and Genitourinary Tracts. **2023**, 24, 9	0
127	Biomaterials of human source for 3D printing strategies.	1
126	Organ, Histotypic and Organotypic Culture, and Tissue Engineering. **2023**, 1-40	0
125	Performance of Polydioxanone-Based Membrane in Association with 3D-Printed Bioceramic Scaffolds in Bone Regeneration. **2023**, 15, 31	0
124	Design of Recombinant Spider Silk Proteins for Cell Type Specific Binding. 2202660	0
123	Fabricating human tissues: How physics can help. **2022**, 75, 38-43	0
122	Towards a New Concept of Regenerative Endodontics Based on Mesenchymal Stem Cell-Derived Secretomes Products. **2023**, 10, 4	1

121	Effect of Cell Geometry on the Mechanical Properties of 3D Voronoi Tessellation. **2022**, 13, 302	0
120	Alginates Combined with Natural Polymers as Valuable Drug Delivery Platforms. **2023**, 21, 11	0
119	Surface Modification of PCL-Gelatin-Chitosan Electrospun Scaffold by Nano-hydroxyapatite for Bone Tissue Engineering. **2022**, 105237	0
118	Cells, growth factors and biomaterials used in tissue engineering for hair follicles regeneration. **2022**, 21, 596-610	0
117	Smart Orthopedic Biomaterials and Implants. **2022**, 100439	0
116	Biologic: H-Bot Kinematics Based Multi-Micro-Extrusion Bioprinter. **2022**, 1-28	0
115	A Clinical Study of Alveolar Bone Tissue Engineering Using Autologous Bone Marrow Stromal Cells: Effect of Optimized Cell-Processing Protocol on Efficacy. **2022**, 11, 7328	0
114	3D soft tissue printingâfrom vision to realityâreview of current concepts.	0
113	A Novel Perspective on Tissue Engineering Potentials of Periodontal Ligament Stem Cells. **2022**, 16,	0
112	3D Printable Electroconductive Gelatin-Hyaluronic Acid Composites Containing Polypyrrole Nanoparticles For Electroactive Tissue Engineering.	0
111	Review: Scaffold Characteristics, Fabrication Methods, and Biomaterials for the Bone Tissue Engineering.	1
110	Biomimetics in Orthopedic Surgery and Traumatology. **2023**, 159-169	0
109	Novel strategies for the treatment of osteoarthritis based on biomaterials and critical molecular signaling. **2023**,	0
108	A multi-scale clutch model for adhesion complex mechanics.	0
107	The Renaissance of Male Infertility Management in the Golden Age of Andrology. 41,	0
106	On-Demand Cell Sheet Release with Low Density Peptide-Functionalized Non-LCST Polymer Brushes. 2200472	0
105	Recent trends on biomaterials for tissue regeneration applications: review. **2023**, 58, 527-558	1
104	Biological Scaffolds for Congenital Heart Disease. **2023**, 10, 57	0

103	Bioengineered Skin Substitutes. **2023**, 11-43	0
102	Material Applications of Gelatin. **2023**, 1-34	0
101	Matrices Activated with Messenger RNA. **2023**, 14, 48	0
100	Porous Scaffolds Based on Polydopamine/Chondroitin Sulfate/Polyvinyl Alcohol Composite Hydrogels. **2023**, 15, 271	1
99	Tissue Engineering of Vascular Grafts: A Case Report From Bench to Bedside and Back.	0
98	Recent advances in carboxymethyl chitosan-based materials for biomedical applications. **2023**, 305, 120555	0
97	A Comparative Study on the Morphology and In Vitro Behaviour of Biopolymers/Ceramic-based Scaffolds Obtained by Drying and Lyophilization Techniques. **2022**,	0
96	Tissue Engineering in Neuroscience: Applications and Perspectives.	0
95	Improved Bone Regeneration Using Biodegradable Polybutylene Succinate Artificial Scaffold in a Rabbit Model. **2023**, 14, 22	0
94	Crystallinity Dependence of PLLA Hydrophilic Modification during Alkali Hydrolysis. **2023**, 15, 75	0
93	The Role of Microsphere Structures in Bottom-Up Bone Tissue Engineering. **2023**, 15, 321	0
92	Mesenchymal Stromal/Stem Cell (MSC)-Based Vector Biomaterials for Clinical Tissue Engineering and Inflammation Research: A Narrative Mini Review. Volume 16, 257-267	0
91	Sodium alginate: an overview. **2023**, 1-17	0
90	Smart biomaterials for skin tissue engineering and health monitoring. **2023**, 211-258	0
89	Implant design on virtual digital human skull models for the creation of customized Patient-specific regenerative implants: biomechanical consideration. **2023**, 679-691	0
88	Bioprinting of vascularized tissues. **2023**, 173-213	0
87	Ethical Issues in Animal Cell Culture. **2023**, 305-316	0
86	Harnessing the potential of oxygen-generating materials and their utilization in organ-specific delivery of oxygen.	0

85	Tissue Reconstructive and Regenerative Medicine Approach as an Anti-Aging Intervention: Relevance to Age-Induced Osteoarthritis. **2023**, 311-329	0
84	Cutting Edge Aquatic-Based Collagens in Tissue Engineering. **2023**, 21, 87	0
83	Introducing Controlled Microporosity in Melt Electrowriting. 2201158	0
82	Role of neurogenesis in regenerative medicine. **2023**, 455-475	0
81	Design and testing of nanobiomaterials for orthopedic implants. **2023**, 227-271	0
80	Microneedle system for tissue engineering and regenerative medicine. 116	0
79	Polymeric microcarriers for minimally-invasive cell delivery. 11,	0
78	Nanofibrous scaffolds for tissue engineering processes. **2023**, 213-226	0
77	Modified carbon nanomaterials for diagnosis, drug delivery and stem cell therapy. **2023**, 331-350	0
76	Hydrogel-based vascular grafts: State of art. **2023**, 397-442	0
75	Organ, Histotypic and Organotypic Culture, and Tissue Engineering. **2023**, 1-41	0
74	Bioprinting of other tissues and organs. **2023**, 215-245	0
73	Magnetic nanocomposites for magneto-promoted osteogenesis: from simulation auxiliary design to experimental validation.	0
72	Silk fibroin-chitosan aerogel reinforced by nanofibers for enhanced osteogenic differentiation in MC3T3-E1 cells. **2023**, 233, 123501	0
71	Tendon Tissue Engineering and Bioactive Suture Repair. **2012**, 71-78	0
70	3D Bioprinting Models for Novel Breast Cancer Strategies. **2022**, 5576-5582	0
69	Latest advances on MXenes in biomedical research and health´care. **2023**, 48, 283-290	0
68	Potential use of anti-cancer drugs coated scaffolds for local drug delivery in cancer cell lines. **2023**, 6, 100032	0

67	Thermoresponsive mixed polymer brush to effectively control the adhesion and separation of stem cells by altering temperature. **2023**, 20, 100627	0
66	Contactless mechanical stimulation of tissue engineered constructs: Development and validation of an air-pulse device. **2023**, 149, 213401	0
65	Current and Future Applications of 3D Bioprinting in Endodontic Regeneration âA Short Review. **2019**, 47, 645-652	0
64	C.E. Credit. Advances in Tissue Engineering and Implications for Oral and Maxillofacial Reconstruction. **2021**, 49, 685-694	1
63	Ascorbic Acid Enhances the Metabolic Activity, Growth and Collagen Production of Human Dermal Fibroblasts Growing in Three-dimensional (3D) Culture.	0
62	Review: Application of chitosan and its derivatives in medical materials. **2023**, 240, 124398	0
61	Unfolding the journey of scaffold. **2022**, 9, 99	0
60	Calcification in Pulmonary Heart Valve Tissue Engineering. **2023**,	0
59	40 years of useful biology. **2023**, 41, 259-261	0
58	Development of magnetic poly(L-lactic Acid) nanofibrous microspheres for transporting and delivering targeted cells. **2023**, 223, 113175	0
57	Editorial: Polymeric microarchitectures for tissue regeneration and drug screening. 11,	0
56	Temperature- and pH-Responsive Schizophrenic Copolymer Brush Coatings with Enhanced Temperature Response in Pure Water. **2023**, 15, 8676-8690	1
55	Injectable Double-Network Hydrogel-Based Three-Dimensional Cell Culture Systems for Regenerating Dental Pulp. **2023**, 15, 7821-7832	0
54	Enhancement of acellular biomineralization, dental pulp stem cell migration, and differentiation by hybrid fibrin gelatin scaffolds. **2023**, 39, 305-319	0
53	A Review of 3D Polymeric Scaffolds for Bone Tissue Engineering: Principles, Fabrication Techniques, Immunomodulatory Roles, and Challenges. **2023**, 10, 204	0
52	Osteochondral Interface: Regenerative Engineering and Challenges. **2023**, 9, 1205-1223	0
51	Future of Lung Transplantation. **2023**, 44, 201-214	0
50	Remodeling and Restraining Lung Tissue Damage Through the Regulation of Respiratory Immune Responses.	0

49	Methods and Challenges in the Fabrication of Biopolymer-Based Scaffolds for Tissue Engineering Application. **2023**, 335-370	0
48	Advanced Graft Development Approaches for ACL Reconstruction or Regeneration. **2023**, 11, 507	0
47	Programmable bio-ionic liquid functionalized hydrogels for in situ 3D bioprinting of electronics at the tissue interface. **2023**, 17, 100352	1
46	Tunable Biopolymers. **2022**, 1-44	0
45	Strategies of strengthening mechanical properties in the osteoinductive calcium phosphate bioceramics. **2023**, 10,	0
44	Effects of EDTA and saline as the final irrigation in regenerative endodontic procedures on the migration, proliferation, and differentiation of human stem cells from the apical papilla.	0
43	Advances in Gelatin Bioinks to Optimize Bioprinted Cell Functions. 2203148	0
42	Myostatin Overexpression and Smad Pathway in Detrusor Derived from Pediatric Patients with End-Stage Lower Urinary Tract Dysfunction. **2023**, 24, 4462	0
41	Recent advancements in polymer matrix nanocomposites for bone tissue engineering applications. **2023**, 82, 104313	0
40	Advance applications of polymeric green composites in medical bio-science -- Bone engineering. **2023**, 321-330	0
39	Convergence of 3D Bioprinting and Nanotechnology in Tissue Engineering Scaffolds. **2023**, 8, 94	0
38	Current biofabrication methods for vascular tissue engineering and an introduction to biological textiles. **2023**, 15, 022004	0
37	Xeno-free generation of human induced pluripotent stem cells from donor-matched fibroblasts isolated from dermal and oral tissues.	0
36	Insight into peculiar adhesion of cells to plasma-chemically prepared multifunctional â□mino-glueâ□ surfaces.	0
35	Reconfigurable scaffolds for adaptive tissue regeneration. **2023**, 15, 6105-6120	0
34	Salivary gland regeneration and repair in Sjğrenâ□ syndrome. **2023**, 509-529	0
33	Next-generation biomaterials for dental pulp tissue immunomodulation. **2023**, 39, 333-349	0
32	Customizable Low-Friction Tough Hydrogels for Potential Cartilage Tissue Engineering by a Rapid Orthogonal Photoreactive 3D-Printing Design.	0

31	Recent Clinical Treatment and Basic Research on the Alveolar Bone. **2023**, 11, 843	0
30	In Vitro Proof of Concept of a First-Generation Growth-Accommodating Heart Valved Conduit for Pediatric Use. 2300011	0
29	Middle-out methods for spatiotemporal tissue engineering of organoids.	0
28	Bioglass-polymer composite scaffolds for bone tissue regeneration: a review of current trends. 1-20	0
27	Silk Fibroin and Sericin Differentially Potentiate the Paracrine and Regenerative Functions of Stem Cells Through Multiomics Analysis.	0
26	3D Bioprinting in Otolaryngology: A Review.	1
25	Reflections on bioengineeringâ disruptiveness. **2023**, 1, 153-153	0
24	History of Pediatric Anesthesia. **2017**, 1332-1345.e5	0
23	Decellularized Tissue-Induced Cellular Recruitment for Tissue Engineering and Regenerative Medicine.	0
22	Xanthan gum-based nanocarriers for therapeutic delivery. **2023**, 333-365	0
21	Injectable Tissue-Engineered Soft Tissue. **2023**, 369-398	0
20	Strategy Based on Michael Addition Reaction for the Development of Bioinspired Multilayered and Multiphasic 3D Constructs. **2023**, 15, 1635	0
19	Recent progress in polymeric gene vectors: Delivery mechanisms, molecular designs, and applications. **2023**, 4, 011313	0
18	Marine-Inspired Approaches as a Smart Tool to Face Osteochondral Regeneration. **2023**, 21, 212	0
17	Accelerating bone regeneration in cranial defects using an injectable organicâinorganic composite hydrogel.	0
16	Advances in continuous polymer analysis in flow with application towards biopolymers.	0
15	Reconstruction of Critical Sized Maxillofacial Defects Using Composite Allogeneic Tissue Engineering: Systematic Review of Current Literature. **2023**, 8, 142	0
14	Regeneration of articular cartilage defects: Therapeutic strategies and perspectives. **2023**, 14, 204173142311647	

13	Regenerative medicine: current research and perspective in pediatric surgery. **2023**, 39,	0
12	Carboxymethyl Chitosan and Its Derivatives in Tissue Engineering. **2023**,	0
11	3D printing of cell-delivery scaffolds for tissue regeneration. **2023**, 10,	0
10	Biological activity of a chitosan-carboxymethylcellulose-zinc oxide and calcium carbonate in 3D scaffolds stabilized by physical links for bone tissue engineering. 088532822311682	0
9	Cryopreservation of Cell Sheets for Regenerative Therapy: Application of Vitrified Hydrogel Membranes. **2023**, 9, 321	0
8	The use of acetylation to improve the performance of hyaluronic acid-based dermal filler.	0
7	Progress in Electrospun Fibers for Manipulating Cell Behaviors.	0
6	Encapsulation of Human Umbilical Cord Mesenchymal Stem Cells in LunaGel Photocrosslinkable Extracellular Matrix and Subcutaneous Transplantation in Mice. **2023**, 11, 1158	0
5	Regenerative Verfahren in der Parodontologie. **2023**, 17, 65-76	0
4	Advances in lung bioengineering: Where we are, where we need to go, and how to get there. 2,	0
3	Poly(l -Lactic Acid) Nanofiber-Based Multilayer Film for the Electrical Stimulation of Nerve Cells.	0
2	Proliferation kinetics and mineralization properties of MC3T3-E1 cells on whey protein isolate scaffolds for bone tissue regeneration.	0
1	Fabrication of Porous Polycaprolactone/Carboxymethylcellulose Scaffolds by using Salt Leaching Technique. **2023**, 38, 455-459	0