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Collagen/chitosan porous scaffolds with improved biostability for skin tissue engineering

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#	Paper	IF	Citations
895	Controlling Biostability of Collagen Films for Fibroblast Cytocompatibility. 2004 , 19, 353-365		9
894	Preparation and biodegradation of thermosensitive chitosan hydrogel as a function of pH and temperature. 2004 , 12, 507-511		39
893	Biodegradability and cell-mediated contraction of porous collagen scaffolds: the effect of lysine as a novel crosslinking bridge. 2004 , 71, 334-42		40
892	Micropatterning Biomacromolecules on Aldehyde-Enriched Polyester Surfaces by a Microtransfer Technique. 2004 , 16, 1319-1322		9
891	Culturing of skin fibroblasts in a thin PLGA-collagen hybrid mesh. <i>Biomaterials</i> , 2005 , 26, 2559-66	15.6	162
890	Three-dimensional aqueous-derived biomaterial scaffolds from silk fibroin. <i>Biomaterials</i> , 2005 , 26, 2775-85.6	15.6	793
889	Polyelectrolyte capsules made of two biocompatible natural polymers. 2005 , 41, 923-932		66
888	Fabrication and characterization of DTBP-crosslinked chitosan scaffolds for skin tissue engineering. <i>Biomaterials</i> , 2005 , 26, 7241-50	15.6	176
887	Three-dimensional fibroin/collagen scaffolds derived from aqueous solution and the use for HepG2 culture. 2005 , 46, 12662-12669		70
886	Collagen/chitosan-silicone membrane bilayer scaffold as a dermal equivalent. 2005 , 16, 789-794		31
885	Requirements for the Manufacturing of Scaffold Biomaterial With Features at Multiple Scales. 2005 , 217		
884	Preparation and antibacterial test of chitosan/PAA/PEGDA bi-layer composite membranes. 2005 , 16, 1503-19		31
883	Thiolation of chitosan. Attachment of proteins via thioether formation. 2005 , 6, 880-4		50
882	Blending chitosan with polycaprolactone: effects on physicochemical and antibacterial properties. 2006 , 7, 1131-8		149
881	Processing and characterization of porous structures from chitosan and starch for tissue engineering scaffolds. 2006 , 7, 3345-55		107
880	Preparation of semi-interpenetrating polymer networks composed of chitosan and poloxamer. <i>International Journal of Biological Macromolecules</i> , 2006 , 38, 51-8	7.9	45
879	Principles and applications of cell delivery systems for periodontal regeneration. 2006 , 41, 123-35		88

878	Crystalline and micellar properties of amphiphilic biodegradable chitooligosaccharide-graft-poly(ϵ -caprolactone) copolymers. <i>Carbohydrate Polymers</i> , 2006 , 64, 466-472	10.3	25
877	A nanofibrous composite membrane of PLGA χ chitosan/PVA prepared by electrospinning. 2006 , 42, 2013-2022		218
876	Immobilization and long-term culturing of mouse embryonic stem cells in collagen-chitosan gel matrix. 2006 , 142, 119-22		11
875	Predictors of glass transition in the biodegradable poly-lactide and poly-lactide-co-glycolide polymers. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 1983-1987	2.9	67
874	Specially elaborated thermally induced phase separation to fabricate poly(L-lactic acid) scaffolds with ultra large pores and good interconnectivity. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 3336-3342	2.9	58
873	A study of the influence of polysaccharides on collagen self-assembly: nanostructure and kinetics. 2006 , 83, 381-8		53
872	Improving the elasticity and cytophilicity of biodegradable polyurethane by changing chain extender. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 79, 335-44	3.5	19
871	Study of the Fosfosol Controlled Permeation through Glutaraldehyde Crosslinked Chitosan Membranes. 2006 , 514-516, 990-994		
870	Chapter 3 Basic Technologies Developed for Tissue Engineering. 2006 , 8, 235-421		
869	Evaluation of functions and tissue compatibility of poly (D,L-lactic-co-glycolic acid) seeded with human dermal fibroblasts. 2006 , 17, 151-62		15
868	Characterization of a microbial transglutaminase cross-linked type II collagen scaffold. <i>Tissue Engineering</i> , 2006 , 12, 1467-74		63
867	Soft Tissue Scaffolds. 2006 ,		1
866	Tissue-engineered oral mucosa: a review of the scientific literature. 2007 , 86, 115-24		147
865	Self-assembly and Fractal Feature of Chitosan and Its Conjugate with Metal Ions: Cu (II) / Ag (I). <i>International Journal of Molecular Sciences</i> , 2007 , 8, 1-12	6.3	25
864	Reconstruction of living bilayer human skin equivalent utilizing human fibrin as a scaffold. 2007 , 33, 355-63		85
863	Biodegradation behavior of chitosan/calcium phosphate composites. 2007 , 353, 2367-2373		36
862	Growth and differentiation of mouse osteoblasts on chitosan-collagen sponges. 2007 , 36, 328-37		78
861	Chitosan/Carboxymethyl Cellulose Polyelectrolyte Complex Scaffolds for Pulp Cells Regeneration. 2007 , 22, 475-491		49

860	Effects of the controlled-released basic fibroblast growth factor from chitosan-gelatin microspheres on human fibroblasts cultured on a chitosan-gelatin scaffold. 2007 , 8, 1446-55		68
859	The influence of molecular weight of chitosan on the physical and biological properties of collagen/chitosan scaffolds. 2007 , 18, 147-63		100
858	Polímeros biorreabsorvíveis como substrato para cultura de células e engenharia tecidual. 2007 , 17, 308-317		17
857	Preparation and cell compatibility evaluation of chitosan/collagen composite scaffolds using amino acids as crosslinking bridges. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 1774-1785	2.9	49
856	Potential wound dressing with improved antimicrobial property. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 1679-1686	2.9	11
855	Preparation and assessment of glutaraldehyde-crosslinked collagen-chitosan hydrogels for adipose tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 81, 59-65	5.4	143
854	Functionalization of poly(L-lactide) nanofibrous scaffolds with bioactive collagen molecules. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 1117-1127	5.4	51
853	Structure, depolymerization, and cytocompatibility evaluation of glycol chitosan. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 787-98	5.4	36
852	Effects of chitosan solution concentration and incorporation of chitin and glycerol on dense chitosan membrane properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 80, 394-405	3.5	26
851	The effect of chemical modification of amino acid side-chains on collagen degradation by enzymes. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 81, 1-11	3.5	9
850	Optimization of UV cross-linking density for durable and nontoxic collagen GAG dermal substitute. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 82, 51-6	3.5	42
849	Evaluation of semi-interpenetrating polymer networks composed of chitosan and poloxamer for wound dressing application. 2007 , 341, 35-43		79
848	In vitro characterization of chitosan scaffolds: influence of composition and deacetylation degree. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1665-74	4.5	119
847	In vitro and in vivo biological performance of collagen-chitosan/silicone membrane bilayer dermal equivalent. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 2185-91	4.5	37
846	Gelatin/chitosan/hyaluronan ternary complex scaffold containing basic fibroblast growth factor for cartilage tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1961-8	4.5	55
845	Histological study of surface modified three dimensional poly (D, L-lactic acid) scaffolds with chitosan in vivo. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 2017-24	4.5	19
844	Preparation of chitosan-nylon-6 blended membranes containing silver ions as antibacterial materials. 2008 , 343, 230-7		89
843	Development, optimization and characterization of a full-thickness tissue engineered human oral mucosal model for biological assessment of dental biomaterials. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 1793-801	4.5	57

842	Fabrication and properties of mineralized collagen-chitosan/hydroxyapatite scaffolds. 2008 , 19, 1590		21
841	Biomimetic modification of chitosan with covalently grafted lactose and blended heparin for improvement of in vitro cellular interaction. 2008 , 19, 15-23		29
840	Preparation of fibroin/recombinant human-like collagen scaffold to promote fibroblasts compatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 483-90	5.4	40
839	Micro- and nanostructuring of freestanding, biodegradable, thin sheets of chitosan via soft lithography. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 242-7	5.4	17
838	Three-layered membranes of collagen/hydroxyapatite and chitosan for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 87, 132-8	3.5	76
837	Characterization of chitosan/citrate and chitosan/acetate films and applications for wound healing. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 608-615	2.9	34
836	Fabrication and characterization of chondroitin sulfate-modified chitosan membranes for biomedical applications. 2008 , 234, 166-174		27
835	Chitosan modified poly(L-lactide) microspheres as cell microcarriers for cartilage tissue engineering. 2008 , 66, 218-25		105
834	Microscale control over collagen gradient on poly(L-lactide) membrane surface for manipulating chondrocyte distribution. 2008 , 67, 210-5		36
833	Intermolecular interactions in electrospun collagen-chitosan complex nanofibers. <i>Carbohydrate Polymers</i> , 2008 , 72, 410-418	10.3	207
832	Multifunctional implantable particles for skin tissue regeneration: preparation, characterization, in vitro and in vivo studies. 2008 , 4, 1057-66		40
831	Macroporous and nanofibrous hyaluronic acid/collagen hybrid scaffold fabricated by concurrent electrospinning and deposition/leaching of salt particles. 2008 , 4, 1611-9		245
830	Synthesis and characterization of biodegradable elastomeric polyurethane scaffolds fabricated by the inkjet technique. <i>Biomaterials</i> , 2008 , 29, 3781-91	15.6	87
829	Electrospun collagen/chitosan nanofibrous membrane as wound dressing. 2008 , 313-314, 183-188		370
828	Fabrication and physical and biological properties of fibrin gel derived from human plasma. 2008 , 3, 015001		73
827	Chitosan and its derivatives for tissue engineering applications. 2008 , 26, 1-21		1091
826	Loading dependent swelling and release properties of novel biodegradable, elastic and environmental stimuli-sensitive polyurethanes. 2008 , 131, 128-36		50
825	Synthesis of biodegradable and electroactive multiblock polylactide and aniline pentamer copolymer for tissue engineering applications. 2008 , 9, 850-8		235

824	Enhanced angiogenesis in porous collagen-chitosan scaffolds loaded with angiogenin. 2008 , 14, 1775-85		54
823	Properties of chitosan-collagen sponges and osteogenic differentiation of rat-bone-marrow stromal cells. 2008 , 37, 357-66		82
822	Electrospun water-soluble carboxyethyl chitosan/poly(vinyl alcohol) nanofibrous membrane as potential wound dressing for skin regeneration. 2008 , 9, 349-54		389
821	Skin tissue engineering for tissue repair and regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2008 , 14, 105-18	7.9	225
820	Hard tissue compatibility of natural hydroxyapatite/chitosan composite. 2008 , 3, 044115		20
819	The study of improved controlled release of vincristine sulfate from collagen-chitosan complex film. 2008 , 36, 372-85		6
818	Biodegradable interpolyelectrolyte complexes based on methoxy poly(ethylene glycol)-b-poly(alpha,L-glutamic acid) and chitosan. 2008 , 9, 2653-61		42
817	Entrapment of embryonic stem cells-derived cardiomyocytes in macroporous biodegradable microspheres: preparation and characterization. 2008 , 22, 665-72		21
816	Characterization of a new degradable polymer scaffold for regeneration of the dermis: In vitro and in vivo human studies. 2008 , 4, 195-200		21
815	In vitro release of dexamethasone or bFGF from chitosan/hydroxyapatite scaffolds. 2009 , 20, 1899-914		23
814	Functional Characterization of Chitin and Chitosan. 2009 , 3, 203-230		147
813	Effects of Chitosan on Properties of Novel Human-like Collagen/Chitosan Hybrid Vascular Scaffold. 2009 , 24, 560-576		40
812	Tethering a laminin peptide to a crosslinked collagen scaffold for biofunctionality. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 1001-10	5.4	18
811	Synthesis and evaluation of collagen-chitosan-hydroxyapatite nanocomposites for bone grafting. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 1079-87	5.4	69
810	Initial investigation of novel human-like collagen/chitosan scaffold for vascular tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 829-40	5.4	93
809	Tissue-engineered polyethylene oxide/chitosan scaffolds as potential substitutes for articular cartilage. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 91, 277-87	5.4	28
808	Synthesis and characterization of polyurethane elastomers based on chitosan and poly(E-caprolactone). <i>Journal of Applied Polymer Science</i> , 2009 , 112, 3157-3165	2.9	47
807	Preparation and characterization of collagen-based composite conduit for peripheral nerve regeneration. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 3652-3662	2.9	13

806	Interaction of anionic collagen with chitosan: Effect on thermal and morphological characteristics. <i>Carbohydrate Polymers</i> , 2009 , 77, 239-243	10.3	70
805	The fundamental parameters of chitosan in polymer scaffolds affecting osteoblasts (MC3T3-E1). <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 309-20	4.5	24
804	Properties and biocompatibility of chitosan films modified by blending with PVA and chemically crosslinked. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 553-61	4.5	148
803	Collagen-chitosan polymer as a scaffold for the proliferation of human adipose tissue-derived stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 799-808	4.5	62
802	Collagen- and gelatine-based films sealing vascular prostheses: evaluation of the degree of crosslinking for optimal blood impermeability. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 1979-89	4.5	32
801	Preparation, Characterization and Application of Leather Particulate-Polymer Composites (LPPCs). 2009 , 17, 181-186		13
800	Chitosan-g-polycaprolactone copolymer fibrous mesh scaffolds and their related properties. 2009 , 20, 795-801		9
799	FGF-2-loaded collagen scaffolds attract cells and blood vessels in rat oral mucosa. 2009 , 38, 630-8		15
798	Development of a new chitosan hydrogel for wound dressing. 2009 , 17, 817-24		204
797	Cytocompatibility evaluation in cell-culture systems of chemically crosslinked chitosan/PVA hydrogels. 2009 , 29, 1574-1583		110
796	Mechanical properties of electrospun collagen-chitosan complex single fibers and membrane. 2009 , 29, 2428-2435		52
795	Self-assembled peptidic nanostructures. 2009 , 4, 458-469		57
794	Construction of multifunctional proteins for tissue engineering: epidermal growth factor with collagen binding and cell adhesive activities. 2009 , 139, 19-25		27
793	Effects of the cooling mode on the structure and strength of porous scaffolds made of chitosan, alginate, and carboxymethyl cellulose by the freeze-gelation method. <i>Carbohydrate Polymers</i> , 2009 , 78, 349-356	10.3	49
792	Synthesis and characterization of collagen/hyaluronan/chitosan composite sponges for potential biomedical applications. 2009 , 5, 2591-600		128
791	In vitro integration of human skin dermis with porous cationic hydrogels. 2009 , 5, 3337-45		6
790	Synthesis and characterization of PLGA-gelatin complex with growth factor incorporation as potential matrix. 2009 , 474, 450-454		5
789	RhBMP-2 microspheres-loaded chitosan/collagen scaffold enhanced osseointegration: an experiment in dog. 2009 , 23, 331-46		42

788	Asymmetric chitosan membrane containing collagen I nanospheres for skin tissue engineering. 2009 , 10, 1642-9		75
787	Biological evaluation of collagen-chitosan scaffolds for dermis tissue engineering. 2009 , 4, 055008		22
786	The Mechanical and Biological Properties of Chitosan Scaffolds for Tissue Regeneration Templates Are Significantly Enhanced by Chitosan from <i>Gongronella butleri</i> . 2009 , 2, 374-398		139
785	Direct chitosan scaffold formation via chitin whiskers by a supercritical carbon dioxide method: a green approach. 2009 , 19, 8651		27
784	Drug delivery dressings. 2009 , 223-253		1
783	Biodegradation, biodistribution and toxicity of chitosan. 2010 , 62, 3-11		1192
782	Application of collagen-chitosan/fibrin glue asymmetric scaffolds in skin tissue engineering. 2010 , 11, 524-30		55
781	Controlled release of bovine serum albumin from chitosan membranes in vitro. 2010 , 19, 1055-1063		2
780	Fabrication of anodized titanium with immobilization of hyaluronic acid to improve biological performance. 2010 , 69, 38-44		16
779	Concentrated collagen-chondroitin sulfate scaffolds for tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 1050-60	5.4	32
778	Genipin-cross-linked collagen/chitosan biomimetic scaffolds for articular cartilage tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 465-75	5.4	247
777	Preparation of chitosan scaffolds with a hierarchical porous structure. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 93, 341-50	3.5	40
776	Engineering nanoassemblies of polysaccharides. 2010 , 22, 2998-3016		124
775	Aldehyde functionalized cellulose support for hydrogels. <i>Journal of Applied Polymer Science</i> , 2010 , 118, 2489-2495	2.9	10
774	The design of biodegradable microcarriers for induced cell aggregation. 2010 , 10, 156-63		41
773	Selection of a biopolymer based on attachment, morphology and proliferation of fibroblast NIH/3T3 cells for the development of a biodegradable tissue regeneration template: Alginate, bacterial cellulose and gelatin. 2010 , 45, 457-466		33
772	Gelatin-fibrinogen cryogel dermal matrices for wound repair: preparation, optimisation and in vitro study. <i>Biomaterials</i> , 2010 , 31, 67-76	15.6	151
771	Enhanced angiogenesis of gene-activated dermal equivalent for treatment of full thickness incisional wounds in a porcine model. <i>Biomaterials</i> , 2010 , 31, 7308-20	15.6	78

770	Electrospun collagen-chitosan nanofiber: a biomimetic extracellular matrix for endothelial cell and smooth muscle cell. 2010 , 6, 372-82		294
769	Evaluation of composition and crosslinking effects on collagen-based composite constructs. 2010 , 6, 1413-22		107
768	Crystal templating dendritic pore networks and fibrillar microstructure into hydrogels. 2010 , 6, 2415-21		30
767	Assembly of collagen fibrillar networks in the presence of alginate. <i>Carbohydrate Polymers</i> , 2010 , 82, 1264-1270	10.3	41
766	Surface modification of a biodegradable composite by UV laser ablation: in vitro biological performance. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010 , 4, 444-53	4.4	4
765	Tissue scaffolds for skin wound healing and dermal reconstruction. 2010 , 2, 510-25		397
764	Bioresorbable Polymers for Tissue Engineering. 2010 ,		9
763	In Situ Swelling Behavior of Chitosan-Polygalacturonic Acid/Hydroxyapatite Nanocomposites in Cell Culture Media. 2010 , 2010, 1-12		9
762	A Portable Device for Fabricating Biomaterial Microfiber Bundles. 2010 , 447-448, 750-754		1
761	Hydrogels for Tissue Engineering Applications. 2010 , 203-225		23
760	Preparation and evaluation of chitosan-gelatin composite scaffolds modified with chondroitin-6-sulphate. 2010 , 101, 1281-1285		22
759	Chitin, chitosan and derivatives for wound healing and tissue engineering. 2011 , 125, 1-27		38
758	Potential applications of natural origin polymer-based systems in soft tissue regeneration. 2010 , 30, 200-21		88
757	Freeze-Casting of Porous Biomaterials: Structure, Properties and Opportunities. 2010 , 3, 1913-1927		201
756	Designed three-dimensional collagen scaffolds for skin tissue regeneration. 2010 , 16, 813-20		61
755	Use of macroporous gelatine spheres as a biodegradable scaffold for guided tissue regeneration of healthy dermis in humans: an in vivo study. 2010 , 63, 848-57		20
754	Electrospinning of silk fibroin and collagen for vascular tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2010 , 47, 514-9	7.9	89
753	Collagen-Based Biomaterials for Tissue Engineering Applications. 2010 , 3, 1863-1887		732

752	Nanohydroxyapatite-coated electrospun poly(L-lactide) nanofibers enhance osteogenic differentiation of stem cells and induce ectopic bone formation. 2010 , 11, 3118-25		141
751	Coaxial structured collagen/alginate scaffolds: fabrication, physical properties, and biomedical application for skin tissue regeneration. 2011 , 21, 6165		95
750	Osteoid-mimicking dense collagen/chitosan hybrid gels. 2011 , 12, 2946-56		49
749	Development of a chitosan nanofibrillar scaffold for skin repair and regeneration. 2011 , 12, 3194-204		156
748	Chitosan: A Promising Biomaterial for Tissue Engineering Scaffolds. 2011 , 45-79		31
747	Controlled hydrogel formation of a recombinant spider silk protein. 2011 , 12, 2488-95		101
746	Chapter 10:Chitin and Chitosan: Sources, Production and Medical Applications. 2011 , 292-318		19
745	Chitosan-Based Biomaterials for Tissue Repair and Regeneration. 2011 , 81-127		98
744	Determination of mechanical properties of soft tissue scaffolds by atomic force microscopy nanoindentation. 2011 , 44, 2356-61		74
743	Electrospun chitosan-graft-poly (ϵ -caprolactone)/poly (ϵ -caprolactone) cationic nanofibrous mats as potential scaffolds for skin tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2011 , 48, 13-9	7.9	128
742	Synthesis and characterization of molecularly imprinted polymer of N-maleoylchitosan-grafted-2-acrylamido-2-methylpropanesulfonic acid and its controlled delivery and recognition of bovine serum albumin. 2011 , 2, 2052		47
741	Development of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) fibers for skin tissue engineering: effects of topography, mechanical, and chemical stimuli. 2011 , 12, 3156-65		123
740	Enhancing cell penetration and proliferation in chitosan hydrogels for tissue engineering applications. <i>Biomaterials</i> , 2011 , 32, 9719-29	15.6	119
739	Spatially controlled delivery of neurotrophic factors in silk fibroin-based nerve conduits for peripheral nerve repair. 2011 , 67, 147-55		47
738	Synthesis and Characterization of Hydroxyapatite-Silk Composite Scaffold for Bone Tissue Engineering. 2011 , 7, 866-873		3
737	The osteoinductive effect of chitosan-collagen composites around pure titanium implant surfaces in rats. 2011 , 46, 126-33		20
736	Applications of knitted mesh fabrication techniques to scaffolds for tissue engineering and regenerative medicine. 2011 , 4, 922-32		57
735	Evaluation of sericin/collagen membranes as prospective wound dressing biomaterial. 2011 , 112, 279-88		124

734	Three-dimensional culture of rat BMMSCs in a porous chitosan-gelatin scaffold: A promising association for bone tissue engineering in oral reconstruction. 2011 , 56, 1-15		70
733	Mesenchymal stem cell-seeded multilayered dense collagen-silk fibroin hybrid for tissue engineering applications. 2011 , 6, 1198-207		25
732	Cross-linked collagen sponges loaded with plant polyphenols with inhibitory activity towards chronic wound enzymes. 2011 , 6, 1208-18		26
731	Effect of polymer-precursor molecular mass on the formation and properties of covalently crosslinked chitosan cryogels. 2011 , 53, 1150-1158		5
730	Comparative study of bovine, porcine and avian collagens for the production of a tissue engineered dermis. 2011 , 7, 3757-65		72
729	Development and characterization of reinforced poly(L-lactide) scaffolds for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 1171-82	4.5	29
728	The osteogenic differentiation of dog bone marrow mesenchymal stem cells in a thermo-sensitive injectable chitosan/collagen/βglycerophosphate hydrogel: in vitro and in vivo. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 2111-8	4.5	53
727	Macrophage-mediated degradation of crosslinked collagen scaffolds. 2011 , 7, 278-86		71
726	Fabrication of porous chitosan scaffolds for soft tissue engineering using dense gas CO ₂ . 2011 , 7, 1653-64		156
725	Hybrid Biodegradable Films from Collagenous Wastes and Natural Polymers for Biomedical Applications. 2011 , 2, 323-335		28
724	Morphological property and in vitro enzymatic degradation of modified chitosan as a scaffold. 2011 , 19, 1250-1256		3
723	Modulation of material properties of a decellularized myocardial matrix scaffold. 2011 , 11, 731-8		66
722	Assembly of collagen fibril meshes using gold nanoparticles functionalized with tris(hydroxymethyl)phosphine-alanine as multivalent cross-linking agents. 2011 , 24, 477-82		6
721	Roles of genipin crosslinking and biomolecule conditioning in collagen-based biopolymer: Potential for vascular media regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 97, 16-26	5.4	23
720	Biomimetic deposition of calcium phosphate minerals on the surface of partially demineralized dentine modified with phosphorylated chitosan. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 98, 150-9	3.5	52
719	From collagen-chitosan blends to three-dimensional scaffolds: the influences of chitosan on collagen nanofibrillar structure and mechanical property. 2011 , 82, 233-40		39
718	Layered hydrogel of poly(βglutamic acid), sodium alginate, and chitosan: fluorescence observation of structure and cytocompatibility. 2011 , 86, 409-13		25
717	Organic/inorganic hybrid network structure nanocomposite scaffolds based on grafted chitosan for tissue engineering. 2011 , 7, 2163-75		107

716	Glyoxal crosslinking of cell-seeded chitosan/collagen hydrogels for bone regeneration. 2011 , 7, 2410-7		105
715	Structure-process-property relationship of the polar graphene oxide-mediated cellular response and stimulated growth of osteoblasts on hybrid chitosan network structure nanocomposite scaffolds. 2011 , 7, 3432-45		328
714	The healing of full-thickness burns treated by using plasmid DNA encoding VEGF-165 activated collagen-chitosan dermal equivalents. <i>Biomaterials</i> , 2011 , 32, 1019-31	15.6	113
713	Microstructured templates for directed growth and vascularization of soft tissue in vivo. <i>Biomaterials</i> , 2011 , 32, 5391-401	15.6	46
712	Effect of ⁶⁰ Co irradiation on the properties of chitosan rod. 2011 , 31, 866-872		20
711	Fabrication and evaluation of biomimetic scaffolds by using collagen- α lginate fibrillar gels for potential tissue engineering applications. 2011 , 31, 262-271		52
710	Chitosan- α versatile semi-synthetic polymer in biomedical applications. 2011 , 36, 981-1014		1940
709	Current research on the blends of natural and synthetic polymers as new biomaterials: Review. 2011 , 36, 1254-1276		632
708	A nondenatured, noncrosslinked collagen matrix to deliver stem cells to the heart. 2011 , 6, 569-82		25
707	Functionalized Nanomaterials. 2011 , 493-521		
706	Porous Scaffolds Consisting of Collagen, Chondroitin Sulfate, and Hydroxyapatite with Enhanced Biodegradable Resistance for Cartilage Regeneration. 2011 , 1301, 117		
705	Chitin-based materials in tissue engineering: applications in soft tissue and epithelial organ. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 1936-63	6.3	137
704	Collagen intermingled chitosan-tripolyphosphate nano/micro fibrous scaffolds for tissue-engineering application. 2012 , 23, 1923-38		14
703	POLYMER SCAFFOLDS FOR REGENERATIVE THERAPIES [DESIGN OF HIERARCHICALLY ORGANIZED STRUCTURES AND THEIR MORPHOLOGICAL CHARACTERIZATION. 2012 , 02, 1230005		2
702	Immobilisation of heparin on bacterial cellulose-chitosan nano-fibres surfaces via the cross-linking technique. 2012 , 6, 52-7		22
701	Miscibility Studies of Chitosan and Starch Blends in Buffer Solution. 2012 , 49, 1099-1105		11
700	Effects of the blended fibroin/aloe gel film on wound healing in streptozotocin-induced diabetic rats. 2012 , 7, 035008		70
699	Layer-by-layer assembly of type I collagen and chondroitin sulfate on aminolyzed PU for potential cartilage tissue engineering application. 2012 , 258, 9918-9925		27

698	Synthesis and characterization of a novel fish scale-immobilized chitosan adsorbent--preliminary features of dichlorophenol sorption by solution calorimetry. 2012 , 229-230, 346-53		9
697	A novel injectable chitosan/polyglutamate polyelectrolyte complex hydrogel with hydroxyapatite for soft-tissue augmentation. <i>Carbohydrate Polymers</i> , 2012 , 89, 1123-30	10.3	50
696	Biomimetic Polymers (for Biomedical Applications). 2012 , 339-361		1
695	Facile fabrication of the glutaraldehyde cross-linked collagen/chitosan porous scaffold for skin tissue engineering. 2012 , 32, 2361-2366		91
694	Biomimetic cell culture proteins as extracellular matrices for stem cell differentiation. 2012 , 112, 4507-40		104
693	Electrospun nanostructured chitosan-poly(vinyl alcohol) scaffolds: a biomimetic extracellular matrix as dermal substitute. 2012 , 7, 045005		77
692	Biocompatibility and Biodegradation of Chitosan and Derivatives. 2012 , 57-73		9
691	Chitosan-Based Biopharmaceutical Scaffolds in Tissue Engineering and Regenerative Medicine. 2012 , 393-427		4
690	Healing effect of bioactive glass ointment on full-thickness skin wounds. 2012 , 7, 045017		74
689	Properties and biocompatibility of chitosan and silk fibroin blend films for application in skin tissue engineering. 2012 , 2012, 697201		57
688	Fabrication and characterization of a rapid prototyped tissue engineering scaffold with embedded multicomponent matrix for controlled drug release. 2012 , 7, 4285-97		45
687	. 2012 ,		44
686	Cross-linked Electrospun Fibrous Scaffolds for Tissue Engineering. 2012 , 1, 2-14		6
685	Construction and characterization of a tissue-engineered oral mucosa equivalent based on a chitosan-fish scale collagen composite. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 1792-802	3.5	29
684	New method for coupling collagen on biodegradable polyurethane for biomedical application. <i>Journal of Applied Polymer Science</i> , 2012 , 126, E354-E361	2.9	17
683	The phenotypic response of bovine corneal endothelial cells on chitosan/polycaprolactone blends. 2012 , 90, 236-43		24
682	Chitosan-based scaffolds for the support of smooth muscle constructs in intestinal tissue engineering. <i>Biomaterials</i> , 2012 , 33, 4810-7	15.6	77
681	New hydrogels based on maleilated collagen with potential applications in tissue engineering. 2012 , 32, 236-243		17

680	Fabrication and characterization of poly(L-lactide-co-glycolide) knitted mesh-reinforced collagen-chitosan hybrid scaffolds for dermal tissue engineering. 2012 , 8, 204-15		52
679	Scaffolds for tissue engineering produced by inkjet printing. 2012 , 2,		13
678	Promotion of angiogenesis by sustained release of rhGM-CSF from heparinized collagen/chitosan scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 788-98	3.5	17
677	Effects of surface functionalization of PLGA membranes for guided bone regeneration on proliferation and behavior of osteoblasts. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 44-53	5.4	22
676	Fabrication and characterization of natural origin chitosan- gelatin-alginate composite scaffold by foaming method without using surfactant. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 3228-3241	2.9	25
675	Characterization of chitosan-gelatin scaffolds for dermal tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013 , 7, 20-31	4.4	66
674	Identification of p63+ keratinocyte progenitor cells in circulation and their matrix-directed differentiation to epithelial cells. 2013 , 4, 38		16
673	Bioinspired Chitinous Material Solutions for Environmental Sustainability and Medicine. 2013 , 23, 4454-4466		43
672	Preparation and characterization of aloe vera blended collagen-chitosan composite scaffold for tissue engineering applications. 2013 , 5, 7291-8		159
671	Design, characterization, and in vitro evaluation of antifungal polymeric films. 2013 , 14, 64-73		11
670	A promising injectable scaffold: The biocompatibility and effect on osteogenic differentiation of mesenchymal stem cells. 2013 , 18, 155-163		19
669	Electrospun catechol-modified poly(ethyleneglycol) nanofibrous mesh for anti-fouling properties. 2013 , 1, 3940-3949		30
668	Functional biopolymer-based matrices for modulation of chronic wound enzyme activities. 2013 , 9, 5216-25		28
667	Characterization of electrospun nanofiber matrices made of collagen blends as potential skin substitutes. 2013 , 8, 025009		31
666	The use of chitosan-based scaffolds to enhance regeneration in the nervous system. 2013 , 109, 1-62		52
665	Thermal-crosslinked porous chitosan scaffolds for soft tissue engineering applications. 2013 , 33, 3780-5		23
664	Synthesis, Structure, and Properties of Biopolymers (Natural and Synthetic). 2013 , 11-107		5
663	Three types of dermal grafts in rats: the importance of mechanical property and structural design. 2013 , 12, 125		14

662	Biological Properties of Chitosan/Collagen Composites. 2013 , 587, 205-210		10
661	Three-dimensional osteochondral microtissue to model pathogenesis of osteoarthritis. 2013 , 4 Suppl 1, S6		50
660	In vitro bone formation by mesenchymal stem cells with 3D collagen/βTCP composite scaffold. 2013 , 2013, 409-12		4
659	The limbal epithelium of the eye--a review of limbal stem cell biology, disease and treatment. 2013 , 35, 211-9		50
658	Neocartilage formation from mesenchymal stem cells grown in type II collagen-hyaluronan composite scaffolds. 2013 , 86, 171-83		15
657	Perfused culture of gingival fibroblasts in a degradable/polar/hydrophobic/ionic polyurethane (D-PHI) scaffold leads to enhanced proliferation and metabolic activity. 2013 , 9, 6867-75		8
656	The local administration of TNF- α and RANKL antagonist peptide promotes BMP-2-induced bone formation. 2013 , 55, 47-54		15
655	Interactions of bone marrow stromal cells with native and RGD surface modified acellular bone matrix: a biocompatibility study. 2013 , 44, 69-74		5
654	LiClO ₄ -doped plasticized chitosan and poly(ethylene glycol) blend as biodegradable polymer electrolyte for supercapacitors. 2013 , 19, 277-285		64
653	Intracellular delivery of doxorubicin encapsulated in novel pH-responsive chitosan/heparin nanocapsules. 2013 , 8, 267-73		26
652	Intermolecular interactions between natural polysaccharides and silk fibroin protein. <i>Carbohydrate Polymers</i> , 2013 , 93, 561-73	10.3	60
651	The role of skin substitutes in the management of chronic cutaneous wounds. 2013 , 21, 194-210		89
650	Chitosan-collagen scaffolds with nano/microfibrous architecture for skin tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 3482-92	5.4	74
649	Fabrication and characterization of biomimetic collagen-apatite scaffolds with tunable structures for bone tissue engineering. 2013 , 9, 7308-19		124
648	The roles of knitted mesh-reinforced collagen-chitosan hybrid scaffold in the one-step repair of full-thickness skin defects in rats. 2013 , 9, 7822-32		73
647	Polysaccharides and their derivatives for versatile tissue engineering application. 2013 , 13, 395-421		185
646	Physico-functional and mechanical properties of chitosan and calcium salts incorporated fish gelatin scaffolds. <i>International Journal of Biological Macromolecules</i> , 2013 , 60, 262-7	7.9	12
645	Discovery and Evaluation of a Functional Ternary Polymer Blend for Bone Repair: Translation from a Microarray to a Clinical Model. 2013 , 23, 2850-2862		19

644	Properties and modification of porous 3-D collagen/hydroxyapatite composites. <i>International Journal of Biological Macromolecules</i> , 2013 , 52, 250-9	7.9	107
643	Effect of hydroxypropyl methylcellulose on collagen fibril formation in vitro. <i>International Journal of Biological Macromolecules</i> , 2013 , 52, 319-26	7.9	22
642	Potential of quaternization-functionalized chitosan fiber for wound dressing. <i>International Journal of Biological Macromolecules</i> , 2013 , 52, 327-32	7.9	42
641	Manipulation of chemical composition and architecture of non-biodegradable poly(ethylene terephthalate)/chitosan fibrous scaffolds and their effects on L929 cell behavior. 2013 , 33, 37-46		22
640	A highly efficient adsorbent synthesized by reactive depositions of chitosan layers on fish scale collagen. Hydrodynamic swelling and dichlorophenol derivative sorption evaluated by continuous long-term solution microcalorimetry. 2013 , 1, 480-485		3
639	Biopolymer-based hydrogels as injectable materials for tissue repair scaffolds. 2013 , 8, 035013		22
638	Chitosan-heparin polyelectrolyte multilayers on cortical bone: periosteum-mimetic, cytophilic, antibacterial coatings. 2013 , 110, 609-18		31
637	Type I collagen and polyvinyl alcohol blend fiber scaffold for anterior cruciate ligament reconstruction. 2013 , 8, 035001		19
636	CHARACTERIZING THREE-DIMENSIONAL MICROSTRUCTURE OF COLLAGEN/CHITOSAN SCAFFOLDS USING MULTIPHOTON MICROSCOPE. 2013 , 25, 1350038		
635	In vitro evaluation of Panax notoginseng Rg1 released from collagen/chitosan-gelatin microsphere scaffolds for angiogenesis. 2013 , 12, 134		20
634	In Vitro Biocompatibility of Electrospun Chitosan/Collagen Scaffold. 2013 , 2013, 1-8		7
633	Novel biodegradable porous scaffold applied to skin regeneration. 2013 , 8, e56330		102
632	Assembly of discrete collagen-chitosan microenvironments into multiphase tissue constructs. 2013 , 2, 673-7		19
631	Synthesis and Characterization of Hybrid Biodegradable Films From Bovine Hide Collagen and Cellulose Derivatives for Biomedical Applications. 2013 , 11, 181-194		27
630	RNAi functionalized scaffold for scarless skin regeneration. 2013 , 9, 76-8		10
629	Natural Polymers as Components of Blends for Biomedical Applications. 2013 , 309-342		5
628	- Treatment of Obesity and Diabetes with Marine-Derived Biomaterials. 2013 , 460-469		2
627	- Marine Plants and Algae as Promising 3D Scaffolds for Tissue Engineering. 2013 , 564-583		

626 Collagen-based tissue repair composite. 183-202

625	IN VITRO TESTING OF MODIFIED COLLAGEN/ HYALURONAN/BETA-GLUCAN SCAFFOLD. 2013 , 13, 35-40		1
624	Biocomposite nanofibrous strategies for the controlled release of biomolecules for skin tissue regeneration. 2014 , 9, 4709-22		26
623	. 2014 ,		6
622	P2Y2 nucleotide receptor activation enhances the aggregation and self-organization of dispersed salivary epithelial cells. 2014 , 307, C83-96		11
621	Effect of aqueous ethanol on the triple helical structure of collagen. 2014 , 43, 643-52		24
620	Synchrotron imaging techniques for bone and cartilage tissue engineering: potential, current trends, and future directions. <i>Tissue Engineering - Part B: Reviews</i> , 2014 , 20, 503-22	7.9	20
619	Graphene oxide coating facilitates the bioactivity of scaffold material for tissue engineering. 2014 , 53, 06JD04		42
618	Electrospun nanofibers as versatile interfaces for efficient gene delivery. 2014 , 8, 30		42
617	Mechanical properties of paper sheets coated with chitosan nanoparticle. 2014 ,		3
616	SIRT6 regulates osteogenic differentiation of rat bone marrow mesenchymal stem cells partially via suppressing the nuclear factor- κ B signaling pathway. 2014 , 32, 1943-55		59
615	Preparation and properties of cellulose nanocrystals reinforced collagen composite films. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1131-9	5-4	59
614	Modulation of Fibrin Gel Extracellular Matrix Properties by Fibrinogen and Thrombin Concentrations for Angiogenesis Assay. 2014 , 911, 342-346		
613	Smart Biomaterials. <i>NIMS Monographs</i> , 2014 ,	0.3	48
612	Histological study on the effect of topical application of glucosamine on wound healing in rats. 2014 , 37, 640-654		1
611	The effect of collagen-chitosan porous scaffold thickness on dermal regeneration in a one-stage grafting procedure. 2014 , 29, 114-25		27
610	Development and characterization of hydrogels based on natural polysaccharides: policaju and chitosan. 2014 , 42, 219-26		26
609	Genipin-crosslinked chitosan/poly-L-lysine gels promote fibroblast adhesion and proliferation. <i>Carbohydrate Polymers</i> , 2014 , 108, 91-8	10.3	60

608	Nanocomposites of Poly(Vinyl Alcohol)/Functionalized-Multiwall Carbon Nanotubes Conjugated With Glucose Oxidase for Potential Application as Scaffolds in Skin Wound Healing. 2014 , 63, 185-196		34
607	In situ mineralization of hydroxyapatite on poly(vinyl alcohol) monolithic scaffolds for tissue engineering. 2014 , 292, 1073-1078		15
606	Chitosan-Polyoxometalate Nanocomposites: Synthesis, Characterization and Application as Antimicrobial Agents. 2014 , 25, 839-854		34
605	Implantation of a novel tissue-engineered graft in a large tendon defect initiated inflammation, accelerated fibroplasia and improved remodeling of the new Achilles tendon: a comprehensive detailed study with new insights. 2014 , 355, 59-80		16
604	Functionalisation and surface modification of electrospun polylactic acid scaffold for tissue engineering. 2014 , 38, 41-9		56
603	Strategies to improve chitosan hemocompatibility: A review. 2014 , 53, 171-188		156
602	Sono-assembly of highly biocompatible polysaccharide capsules for hydrophobic drug delivery. 2014 , 3, 825-31		14
601	Microencapsulated VEGF gene-modified umbilical cord mesenchymal stromal cells promote the vascularization of tissue-engineered dermis: an experimental study. 2014 , 16, 160-9		39
600	Chitin and chitosan in selected biomedical applications. 2014 , 39, 1644-1667		645
599	The effect of scaffold macroporosity on angiogenesis and cell survival in tissue-engineered smooth muscle. <i>Biomaterials</i> , 2014 , 35, 5129-37	15.6	56
598	Tissue engineering and regenerative repair in wound healing. 2014 , 42, 1494-507		102
597	Preparation of collagen porous scaffolds with controlled and sustained release of bioactive insulin. 2014 , 29, 95-109		11
596	A Biomimetic Approach toward the Fabrication of Epithelial-like Tissue. 2014 , 175-194		
595	Enhanced viability of probiotic <i>Saccharomyces boulardii</i> encapsulated by layer-by-layer approach in pH responsive chitosan/dextran sulfate polyelectrolytes. 2014 , 136, 1-8		31
594	Fish scale collagen sponge incorporated with <i>Macrotyloma uniflorum</i> plant extract as a possible wound/burn dressing material. 2014 , 113, 207-12		60
593	Micro- and nanofabrication of chitosan structures for regenerative engineering. 2014 , 10, 1632-45		84
592	Marine carbohydrates of wastewater treatment. 2014 , 73, 103-43		12
591	Synthesis of a semi-interpenetrating polymer network as a bioactive curcumin film. 2014 , 15, 1476-89		15

590	Sol-gel assisted fabrication of collagen hydrolysate composite scaffold: a novel therapeutic alternative to the traditional collagen scaffold. 2014 , 6, 15015-25	44
589	Mineralized biomimetic collagen/alginate/silica composite scaffolds fabricated by a low-temperature bio-plotting process for hard tissue regeneration: fabrication, characterisation and in vitro cellular activities. 2014 , 2, 5785-5798	39
588	Chitosan scaffolds with a shape memory effect induced by hydration. 2014 , 2, 3315-3323	32
587	Development of dual-responsive chitosan/collagen scaffolds for pulsatile release of bioactive molecules. 2014 , 94, 102-112	16
586	Mammary epithelial cell adhesion, viability, and infiltration on blended or coated silk fibroin-collagen type I electrospun scaffolds. 2014 , 43, 37-44	38
585	Synthesis of poly(3-hydroxybutyrate-co-4-hydroxybutyrate)/chitosan/silver nanocomposite material with enhanced antimicrobial activity. 2014 , 30, 1469-79	10
584	Modification of collagen and chitosan mixtures by the addition of tannic acid. 2014 , 199, 318-323	71
583	Deletion of Alox5 gene decreases osteogenic differentiation but increases adipogenic differentiation of mouse induced pluripotent stem cells. 2014 , 358, 135-47	5
582	Inhibition of BMP2-induced bone formation by the p65 subunit of NF- κ B via an interaction with Smad4. 2014 , 28, 1460-70	33
581	Design of gene-activated matrix for the repair of skin and cartilage. 2014 , 46, 476-482	19
580	Construction of a collagen-based, split-thickness cornea substitute. 2014 , 25, 1110-32	28
579	Influence of mineral phase in mineralization of a biocomposite containing chitosan, demineralized bone matrix and bone ash in vitro study. 2014 , 37, 729-733	2
578	Review collagen-based biomaterials for wound healing. 2014 , 101, 821-33	521
577	Composition of intraperitoneally implanted electrospun conduits modulates cellular elastic matrix generation. 2014 , 10, 163-72	10
576	Comparison studies of the in vivo treatment of full-thickness excisional wounds and burns by an artificial bilayer dermal equivalent and J-1 acellular dermal matrix. 2014 , 22, 390-8	17
575	Chitosan as a Biomaterial. 2014 , 91-113	44
574	Native Polymer-based 3D Substitutes as Alternatives with Slow-Release Functions. 2014 , 257-305	
573	A novel silk fibroin/sodium alginate hybrid scaffolds. 2014 , 54, 129-136	23

572	Shrinking mechanism of a porous collagen matrix immersed in solution. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 4581-9	5.4	1
571	Sterilization of Medical Products from Collagen by Means of Supercritical CO ₂ . 2014 , 37, 1891-1895		18
570	Collagen-Based Materials for Pharmaceutical Applications. 2015 , 439-481		4
569	Development and Characterization of Novel Hybrid Hydrogel Fibers. 2015 , 300, 1217-1225		27
568	Application of Polysaccharides as Structural Materials. 2015 , 27, 67-79		10
567	The influence of substrate topography and biomaterial substance on skin wound healing. 2015 , 48, 251-7		17
566	Effect of Human Adipose Tissue Mesenchymal Stem Cells on the Regeneration of Ovine Articular Cartilage. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 26813-31	6.3	18
565	Development of Chitosan Scaffolds with Enhanced Mechanical Properties for Intestinal Tissue Engineering Applications. 2015 , 6, 999-1011		16
564	Towards Tuning the Mechanical Properties of Three-Dimensional Collagen Scaffolds Using a Coupled Fiber-Matrix Model. 2015 , 8, 5376-5384		13
563	Culture Condition Optimization and Pilot Scale Production of the M12 Metalloprotease Myroilysin Produced by the Deep-Sea Bacterium <i>Myroides profundus</i> D25. 2015 , 20, 11891-901		11
562	Evaluation of Microcrystalline Chitosan and Fibrin Membranes as Platelet-Derived Growth Factor-BB Carriers with Amoxicillin. 2015 , 2015, 1-13		3
561	Chitosan and Its Potential Use as a Scaffold for Tissue Engineering in Regenerative Medicine. 2015 , 2015, 821279		294
560	Properties of films obtained from biopolymers of different origins for skin lesions therapy. 2015 , 58, 289-299		15
559	Transdifferentiation of Umbilical Cord-Derived Mesenchymal Stem Cells Into Epidermal-Like Cells by the Mimicking Skin Microenvironment. 2015 , 14, 136-45		11
558	Synthesis, characterization and biological evaluation of chromen and pyrano chromen-5-one derivatives impregnated into a novel collagen based scaffold for tissue engineering applications. 2015 , 5, 55075-55087		19
557	A dense and strong bonding collagen film for carbon/carbon composites. 2015 , 347, 307-314		7
556	Production and characterization of chitosan/gelatin/βTCP scaffolds for improved bone tissue regeneration. 2015 , 55, 592-604		97
555	Skin substitute-assisted repair shows reduced dermal fibrosis in acute human wounds validated simultaneously by histology and optical coherence tomography. 2015 , 23, 483-94		25

554	Fish collagen-based scaffold containing PLGA microspheres for controlled growth factor delivery in skin tissue engineering. 2015 , 136, 1098-106		64
553	Manipulation of in vitro collagen matrix architecture for scaffolds of improved physiological relevance. 2015 , 12, 061002		37
552	Clinical applications of naturally derived biopolymer-based scaffolds for regenerative medicine. 2015 , 43, 657-80		86
551	Evaluation of characteristics and in vitro antioxidant properties of RSV loaded hyaluronic acid-DPPC microparticles as a wound healing system. 2015 , 126, 50-7		33
550	Collagen/chitosan film containing biotinylated glycol chitosan nanoparticles for localized drug delivery. 2015 , 128, 339-346		27
549	Chitosan and Its Application as Tissue Engineering Scaffolds. 2015 , 133-147		8
548	Fabrication, characterization and cell cultures on a novel chitosan scaffold. 2015 , 25, 121-35		4
547	Effect of curcumin caged silver nanoparticle on collagen stabilization for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2015 , 75, 306-15	7.9	33
546	Electrospun aligned poly(propylene carbonate) microfibers with chitosan nanofibers as tissue engineering scaffolds. <i>Carbohydrate Polymers</i> , 2015 , 117, 941-949	10.3	69
545	Mimicking the quasi-random assembly of protein fibers in the dermis by freeze-drying method. 2015 , 49, 807-815		11
544	Photopolymerized poly(2-hydroxyethyl methacrylate)/poly(ε-caprolactone)/poly(ethylene glycol) system as a potential wound dressing material. 2015 , 30, 74-86		1
543	Synthesis, characterization and evaluation of collagen scaffolds crosslinked with aminosilane functionalized silver nanoparticles: in vitro and in vivo studies. 2015 , 3, 3032-3043		28
542	Complete glutaraldehyde elimination during chitosan hydrogel drying by SC-CO ₂ processing. 2015 , 103, 70-76		55
541	Tailoring chitosan/collagen scaffolds for tissue engineering: Effect of composition and different crosslinking agents on scaffold properties. <i>Carbohydrate Polymers</i> , 2015 , 132, 606-19	10.3	94
540	Triethyl orthoformate mediated a novel crosslinking method for the preparation of hydrogels for tissue engineering applications: characterization and in vitro cytocompatibility analysis. 2015 , 56, 154-64		37
539	Experimental approaches to vascularisation within tissue engineering constructs. 2015 , 26, 683-734		42
538	Cellulose acetate based 3-dimensional electrospun scaffolds for skin tissue engineering applications. <i>Carbohydrate Polymers</i> , 2015 , 133, 251-61	10.3	80
537	Antibacterial and hemostatic performance of chitosan/organic rectorite/alginate composite sponge. 2015 , 5, 50523-50531		28

536	Primary chicken embryo fibroblasts seeded acellular dermal matrix (3-D ADM) improve regeneration of full thickness skin wounds in rats. 2015 , 47, 311-22		18
535	Altering the concentration of silica tunes the functional properties of collagen-silica composite scaffolds to suit various clinical requirements. 2015 , 52, 131-138		8
534	Crosslinking biopolymers for biomedical applications. 2015 , 33, 362-9		337
533	Bioactive and Spatially Organized LbL Films. 2015 , 79-102		1
532	Collagen/chitosan based two-compartment and bi-functional dermal scaffolds for skin regeneration. 2015 , 52, 155-62		44
531	Preparation and Characterization of Carboxymethyl-Functionalized Chitosan Fiber. 2015 , 12, 211-221		6
530	Wound dressings composed of copper-doped borate bioactive glass microfibers stimulate angiogenesis and heal full-thickness skin defects in a rodent model. <i>Biomaterials</i> , 2015 , 53, 379-91	15.6	233
529	Chitosan surface modification of fully interconnected 3D porous poly(ϵ -caprolactone) by the LbL approach. 2015 , 64, 112-121		15
528	Dermal matrices and bioengineered skin substitutes: a critical review of current options. 2015 , 3, e284		133
527	Marine-derived biological macromolecule-based biomaterials for wound healing and skin tissue regeneration. <i>International Journal of Biological Macromolecules</i> , 2015 , 77, 24-35	7.9	92
526	Engineering vascularized soft tissue flaps in an animal model using human adipose-derived stem cells and VEGF+PLGA/PEG microspheres on a collagen-chitosan scaffold with a flow-through vascular pedicle. <i>Biomaterials</i> , 2015 , 73, 198-213	15.6	52
525	Effects of osteoblast-like cell seeding on the mechanical properties of porous composite scaffolds. 2015 , 24, 79-90		3
524	Indirect Rapid Prototyping for Tissue Engineering. 2015 , 153-164		2
523	Engineered regenerated bacterial cellulose scaffolds for application in in vitro tissue regeneration. 2015 , 5, 84565-84573		31
522	Drug Delivery Applications of Chitosan and its Derivatives. 2015 , 637-678		2
521	Fish collagen/alginate/chitoooligosaccharides integrated scaffold for skin tissue regeneration application. <i>International Journal of Biological Macromolecules</i> , 2015 , 81, 504-13	7.9	80
520	Chitosan-Based Polysaccharide Biomaterials. 2015 , 1837-1850		4
519	Comparison of two proanthocyanidin cross-linked recombinant human collagen-peptide (RHC) - chitosan scaffolds. 2015 , 26, 585-99		3

518	A Review on Bionanocomposites Based on Chitosan and Its Derivatives for Biomedical Applications. 2015 , 173-208		18
517	Biomaterials for in situ tissue regeneration: development and perspectives. 2015 , 3, 8921-8938		62
516	Characterization of PLGA/Chitosan Electrospun Nano-Biocomposite Fabricated by Two Different Methods. 2015 , 64, 64-75		12
515	Fabrication of three-dimensional porous scaffold based on collagen fiber and bioglass for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1453-54	3.5	31
514	Porous ovalbumin scaffolds with tunable properties: a resource-efficient biodegradable material for tissue engineering applications. 2015 , 29, 903-11		13
513	Radiation cross-linked collagen/dextran dermal scaffolds: effects of dextran on cross-linking and degradation. 2015 , 26, 162-80		4
512	Cell encapsulation in a magnetically aligned collagen-GAG copolymer microenvironment. 2015 , 11, 274-82		23
511	Bioengineering Skin Constructs. 2015 , 703-719		1
510	Effects of fiber density and plasma modification of nanofibrous membranes on the adhesion and growth of HaCaT keratinocytes. 2015 , 29, 837-53		9
509	Silk fibroin-keratin based 3D scaffolds as a dermal substitute for skin tissue engineering. 2015 , 7, 53-63		115
508	Physical and mechanical properties of the fully interconnected chitosan ice-templated scaffolds. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	17
507	Chitosan as a suitable nanocarrier material for anti-Alzheimer drug delivery. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 454-65	7.9	87
506	In vitro and in vivo evaluation of a novel collagen/cellulose nanocrystals scaffold for achieving the sustained release of basic fibroblast growth factor. 2015 , 29, 882-93		61
505	Preparation and characterization of bone marrow mesenchymal stem cell-derived extracellular matrix scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 670-8	3.5	30
504	Fiber-based hybrid structures as scaffolds and implants for regenerative medicine. 2016 , 241-256		2
503	Collagen scaffolds for corneal regeneration. 2016 , 151-177		1
502	Platelet-Rich Plasma-Loaded Poly(d,l-lactide)-Poly(ethylene glycol)-Poly(d,l-lactide) Hydrogel Dressing Promotes Full-Thickness Skin Wound Healing in a Rodent Model. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	31
501	Future Prospects for Scaffolding Methods and Biomaterials in Skin Tissue Engineering: A Review. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	269

500	Fabrication of Porous Materials from Natural/Synthetic Biopolymers and Their Composites. 2016 , 9,		89
499	Application of Collagen Scaffold in Tissue Engineering: Recent Advances and New Perspectives. <i>Polymers</i> , 2016 , 8,	4.5	318
498	Potential Biomedical Application of Enzymatically Treated Alginate/Chitosan Hydrosols in Sponges-Biocompatible Scaffolds Inducing Chondrogenic Differentiation of Human Adipose Derived Multipotent Stromal Cells. <i>Polymers</i> , 2016 , 8,	4.5	12
497	Synthesis, characterization and cytotoxicity of Chitosan/Polyvinyl Alcohol/Bioactive Glass hybrid scaffolds obtained by lyophilization. 2016 , 21, 964-973		9
496	Multifunctional biomaterials from the sea: Assessing the effects of chitosan incorporation into collagen scaffolds on mechanical and biological functionality. 2016 , 43, 160-169		101
495	Highly Fluorescent and Photostable Polymeric Nanofibers as Scaffolds for Cell Interfacing and Long-Term Tracking. 2016 , 5, 529-33		16
494	Hypoxia pretreatment of bone marrow-derived mesenchymal stem cells seeded in a collagen-chitosan sponge scaffold promotes skin wound healing in diabetic rats with hindlimb ischemia. 2016 , 24, 45-56		55
493	Novel hemocompatible nanocomposite hydrogels crosslinked with methacrylated gelatin. 2016 , 6, 43663-43671		15
492	Novel porous soy protein-based blend structures for biomedical applications: Microstructure, mechanical, and physical properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 1109-20	3.5	23
491	Use of novel chitosan hydrogels for chemical tissue bonding of autologous chondral transplants. 2016 , 34, 1139-46		6
490	Applications of Biomaterials in Corneal Endothelial Tissue Engineering. 2016 , 35 Suppl 1, S25-S30		14
489	Hybrid scaffolding strategy for dermal tissue reconstruction: a bioactive glass/chitosan/silk fibroin composite. 2016 , 6, 19887-19896		14
488	A review of chitosan and its derivatives in bone tissue engineering. <i>Carbohydrate Polymers</i> , 2016 , 151, 172-188	10.3	363
487	Triethyl orthoformate covalently cross-linked chitosan-(poly vinyl) alcohol based biodegradable scaffolds with heparin-binding ability for promoting neovascularisation. 2016 , 31, 582-593		16
486	Morphological characteristics and barrier properties of thermoplastic starch/chitosan blown film. <i>Carbohydrate Polymers</i> , 2016 , 150, 40-7	10.3	68
485	Tumor cell culture on collagen-chitosan scaffolds as three-dimensional tumor model: A suitable model for tumor studies. 2016 , 24, 620-626		10
484	Collagen-chitosan 3-D nano-scaffolds effects on macrophage phagocytosis and pro-inflammatory cytokine release. 2016 , 13, 526-34		5
483	Collagen-based nanobiomaterials: Challenges in soft tissue engineering. 2016 , 173-200		7

482	Regenerative Medicine - from Protocol to Patient. 2016,		1
481	Accelerating full thickness wound healing using collagen sponge of mrigal fish (<i>Cirrhinus cirrhosus</i>) scale origin. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1507-1518	7.9	33
480	Whey protein concentrate doped electrospun poly(epsilon-caprolactone) fibers for antibiotic release improvement. 2016 , 143, 371-381		32
479	Durable keratin-based bilayered electrospun mats for wound closure. 2016 , 4, 3982-3997		25
478	Curcumin loaded chitosan nanoparticles impregnated into collagen-alginate scaffolds for diabetic wound healing. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1519-1529	7.9	189
477	An Introduction to Scaffolds, Biomaterial Surfaces, and Stem Cells. 2016 , 1-37		
476	Skin Regeneration. 2016 , 289-313		
475	Polymeric Biomaterials for Tissue Regeneration. 2016 ,		1
474	Melatonin in functionalized biomimetic constructs promotes rapid tissue regeneration in Wistar albino rats. 2016 , 4, 5850-5862		13
473	Tuning the properties of alginate-chitosan membranes by varying the viscosity and the proportions of polymers. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	15
472	Hyperbranched poly(glycidol)/poly(ethylene oxide) crosslinked hydrogel for tissue engineering scaffold using e-beams. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 48-56	5.4	8
471	Tuning the Functional Properties of Polysaccharide-Protein Bio-Based Edible Films by Chemical, Enzymatic, and Physical Cross-Linking. 2016 , 15, 739-752		47
470	Characterisation of composite films fabricated from collagen/chitosan and collagen/soy protein isolate for food packaging applications. 2016 , 6, 82191-82204		49
469	Gentamicin release from chitosan and collagen composites. 2016 , 35, 353-359		28
468	Application of Chitosan-Based Gels in Pharmaceuticals. 2016 , 325-348		2
467	Rumen tissue derived decellularized submucosa collagen or its chitosan-treated film as a cutaneous wound healant and ¹ H NMR-metabolite profiling of plasma. 2016 , 6, 107403-107415		4
466	Graphene and graphene-based nanocomposites: biomedical applications and biosafety. 2016 , 4, 7813-7831		108
465	Asymmetric Collagen/chitosan Membrane Containing Minocycline-loaded Chitosan Nanoparticles for Guided Bone Regeneration. 2016 , 6, 31822		43

464	Glycoscience: The Current State of the Research. 2016 , 27-42		1
463	Collagen incorporation within electrospun conduits reduces lipid oxidation and impacts conduit mechanics. 2016 , 11, 025019		8
462	Biomimetic composite scaffolds containing bioceramics and collagen/gelatin for bone tissue engineering - A mini review. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1390-1401	7.9	121
461	3D composites based on the blends of chitosan and collagen with the addition of hyaluronic acid. <i>International Journal of Biological Macromolecules</i> , 2016 , 89, 442-8	7.9	66
460	Polymer-DNA Molecular Net for Selective Transportation of Target Biomolecules and Inhibition of Tumor Growth. 2016 , 28, 3961-3967		8
459	Chitosan Derivatives. 2016 , 49-118		1
458	Influence of chitosan coating on magnetic nanoparticles in endothelial cells and acute tissue biodistribution. 2016 , 27, 1069-85		16
457	Structural determinants of hydration, mechanics and fluid flow in freeze-dried collagen scaffolds. 2016 , 41, 193-203		37
456	Electrospun biodegradable nanofibers scaffolds for bone tissue engineering. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	100
455	Preparation of three-dimensional macroporous chitosan-gelatin B microspheres and HepG2-cell culture. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 1033-1040	4.4	11
454	Preliminary evaluation of local drug delivery of amphotericin B and in vivo degradation of chitosan and polyethylene glycol blended sponges. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 78-87	3.5	15
453	Effects of 3-dimensional culture conditions (collagen-chitosan nano-scaffolds) on maturation of dendritic cells and their capacity to interact with T-lymphocytes. 2016 , 13, 235-42		12
452	Collagen-chitosan scaffold modified with Au and Ag nanoparticles: Synthesis and structure. 2016 , 366, 365-371		34
451	Properties and Characterization of Chitosan/Collagen/PMMA Composites Containing Hydroxyapatite. 2016 , 672, 247-256		6
450	Polyurethane membrane/knitted mesh-reinforced collagen-chitosan bilayer dermal substitute for the repair of full-thickness skin defects via a two-step procedure. 2016 , 56, 120-133		41
449	Highly biocompatible collagen-Delonix regia seed polysaccharide hybrid scaffolds for antimicrobial wound dressing. <i>Carbohydrate Polymers</i> , 2016 , 137, 584-593	10.3	27
448	A Review: Tailor-made Hydrogel Structures (Classifications and Synthesis Parameters). 2016 , 55, 54-70		59
447	Stabilization of porous chitosan improves the performance of its association with platelet-rich plasma as a composite scaffold. 2016 , 60, 538-546		19

446	Effects of different forms of chitosan on intercellular junctions of mouse fibroblasts in vitro. 2016 , 91, 20-9		1
445	Evaluation of recombinant human collagen-peptide based porous scaffolds and molecular interaction with chitosan. 2016 , 31, 307-314		2
444	Fabrication and characterization of novel nano-biocomposite scaffold of chitosan-gelatin-alginate-hydroxyapatite for bone tissue engineering. 2016 , 64, 416-427		184
443	Modulating Degradation Rate of Injectable Extracellular Matrix Hydrogels. 2016 , 4, 2794-2802		49
442	Application potential of bone marrow mesenchymal stem cell (BMSCs) based tissue-engineering for spinal cord defect repair in rat fetuses with spina bifida aperta. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 77	4-5	24
441	Effect of spacer arm length between adhesion ligand and alginate hydrogel on stem cell differentiation. <i>Carbohydrate Polymers</i> , 2016 , 139, 82-9	10-3	16
440	Chitin and chitosan based polyurethanes: A review of recent advances and prospective biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2016 , 86, 630-45	7-9	136
439	Biomimetic fibroblast-loaded artificial dermis with "sandwich" structure and designed gradient pore sizes promotes wound healing by favoring granulation tissue formation and wound re-epithelialization. 2016 , 30, 246-257		53
438	A novel chitosan/sponge chitin origin material as a membrane for supercapacitors preparation and characterization. 2016 , 6, 4007-4013		55
437	Hydrogels based on cellulose and chitin: fabrication, properties, and applications. 2016 , 18, 53-75		406
436	In situ synthesised TiO ₂ -chitosan-chondroitin 4-sulphate nanocomposites for bone implant applications. 2016 , 10, 107-13		7
435	Current advances and future perspectives in extrusion-based bioprinting. <i>Biomaterials</i> , 2016 , 76, 321-43	15.6	816
434	Bioengineered silk scaffolds in 3D tissue modeling with focus on mammary tissues. 2016 , 59, 1168-1180		28
433	Collagen/fibrin microbeads as a delivery system for Ag-doped bioactive glass and DPSCs for potential applications in dentistry. 2016 , 432, 143-149		15
432	Study of smart antibacterial PCL-xFe O thin films using mouse NIH-3T3 fibroblast cells in vitro. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 795-804	3-5	6
431	The review of versatile application of collagen. 2017 , 28, 4-9		67
430	Wnt1a maintains characteristics of dermal papilla cells that induce mouse hair regeneration in a 3D preculture system. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1479-1489	4-4	17
429	Multilayered dense collagen-silk fibroin hybrid: a platform for mesenchymal stem cell differentiation towards chondrogenic and osteogenic lineages. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2046-2059	4-4	19

428	Chitosan-based hydrogels: recent design concepts to tailor properties and functions. 2017 , 66, 981-998		68
427	Glycoproteins functionalized natural and synthetic polymers for prospective biomedical applications: A review. <i>International Journal of Biological Macromolecules</i> , 2017 , 98, 748-776	7.9	31
426	Polymers, Blends and Nanocomposites for Implants, Scaffolds and Controlled Drug Release Applications. 2017 , 1-44		9
425	Electrospun multilayer chitosan scaffolds as potential wound dressings for skin lesions. 2017 , 88, 161-170		78
424	Ice-Templated Materials: Polymers, Ceramics, Metals and Their Composites. 2017 , 253-350		2
423	Investigating the Freezing of Colloids: Experimental Techniques to Probe Solidification Patterns, Crystal Growth, and Particle Movement. 2017 , 47-90		
422	Properties and Applications of Ice-Templated Materials. 2017 , 439-548		1
421	An investigation of electrospun Henna leaves extract-loaded chitosan based nanofibrous mats for skin tissue engineering. 2017 , 75, 433-444		95
420	The Horizon of Materiobiology: A Perspective on Material-Guided Cell Behaviors and Tissue Engineering. 2017 , 117, 4376-4421		296
419	Synthesis and Fabrication of Collagen-Coated Osthohamide Electrospun Nanofiber Scaffold for Wound Healing. 2017 , 9, 8556-8568		73
418	In situ forming chitosan hydrogels: Preliminary evaluation of the in vivo inflammatory response. 2017 , 75, 279-285		11
417	Reinforced collagen with oxidized microcrystalline cellulose shows improved hemostatic effects. <i>Carbohydrate Polymers</i> , 2017 , 165, 30-38	10.3	32
416	Collagen-chitosan scaffold - Lauric acid plasticizer for skin tissue engineering on burn cases. 2017 ,		1
415	A novel candidate for wound dressing: Transparent porous maghemite/cellulose nanocomposite membranes with controlled release of doxorubicin from a simple approach. 2017 , 79, 84-92		23
414	Fine Co Nanoparticles Encapsulated in a N-Doped Porous Carbon Matrix with Superficial N-Doped Porous Carbon Nanofibers for Efficient Oxygen Reduction. 2017 , 9, 21747-21755		85
413	Engineered 3D-scaffolds of photocrosslinked chitosan-gelatin hydrogel hybrids for chronic wound dressings and regeneration. 2017 , 78, 690-705		97
412	Challenges for Cartilage Regeneration. 2017 , 389-466		4
411	Biomaterials for Implants and Scaffolds. 2017 ,		3

410	Comparison of glutaraldehyde and procyanidin cross-linked scaffolds for soft tissue engineering. 2017 , 80, 263-273	29
409	Silk fibroin microfibers and chitosan modified poly (glycerol sebacate) composite scaffolds for skin tissue engineering. 2017 , 62, 88-95	29
408	Induced migration of endothelial cells into 3D scaffolds by chemoattractants secreted by pro-inflammatory macrophages. 2017 , 4, 139-148	15
407	L-Arginine intercedes bio-crosslinking of a collagen-chitosan 3D-hybrid scaffold for tissue engineering and regeneration: in silico, in vitro, and in vivo studies. 2017 , 7, 25070-25088	32
406	Fabrication of porous scaffolds with decellularized cartilage matrix for tissue engineering application. 2017 , 48, 39-46	30
405	Multifactor analysis on the effect of collagen concentration, cross-linking and fiber/pore orientation on chemical, microstructural, mechanical and biological properties of collagen type I scaffolds. 2017 , 77, 333-341	40
404	Combined chemical and structural signals of biomaterials synergistically activate cell-cell communications for improving tissue regeneration. 2017 , 55, 249-261	27
403	Wound healing effect of bioactive ion released from Mg-smectite. 2017 , 77, 52-57	20
402	Structure-dependent behaviours of skin layers studied by atomic force microscopy. 2017 , 267, 265-271	5
401	Effects of pore orientation on in-vitro properties of retinoic acid-loaded PLGA/gelatin scaffolds for artificial peripheral nerve application. 2017 , 77, 159-172	34
400	Design and characterization of dexamethasone-loaded poly (glycerol sebacate)-poly caprolactone/gelatin scaffold by coaxial electro spinning for soft tissue engineering. 2017 , 78, 47-58	52
399	Collagen and Its Modifications Crucial Aspects with Concern to Its Processing and Analysis. 2017 , 302, 1600460	32
398	Fabrication of electropun PLGA and small intestine submucosa-blended nanofibrous membranes and their biocompatibility for wound healing. 2017 , 18, 231-239	3
397	Physicochemical properties of polycaprolactone/collagen/elastin nanofibers fabricated by electrospinning. 2017 , 76, 897-907	42
396	Development and characterization of a novel porous small intestine submucosa-hydroxyapatite scaffold for bone regeneration. 2017 , 72, 519-525	14
395	3D Fabrication of Polymeric Scaffolds for Regenerative Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1175-1194	5-5 78
394	Harnessing cell-material interaction to control cell fate: design principle of advanced functional hydrogel materials. 2017 , 129, 1807-1816	4
393	POSS-modified PEG adhesives for wound closure. 2017 , 35, 1231-1242	16

392	Retracted Article: A polyurethane-chitosan brush as an injectable hydrogel for controlled drug delivery and tissue engineering. 2017 , 8, 6233-6249		45
391	Chitin and Chitosan-Based Scaffolds. 2017 , 271-310		0
390	Tissue Engineered Skin and Wound Healing: Current Strategies and Future Directions. 2017 , 23, 3455-3482		56
389	Porous lightweight composites reinforced with fibrous structures. 2017 ,		4
388	Formulation and characterization of tissue scaffolds containing simvastatin loaded nanostructured lipid carriers for treatment of diabetic wounds. 2017 , 41, 280-292		7
387	Biobased Composites for Medical and Industrial Applications. 2017 , 291-339		
386	Ultrasound-assisted synthesis of block copolymers of chitosan and D,L-lactide: Structure and properties. 2017 , 59, 551-559		3
385	A bioprintable form of chitosan hydrogel for bone tissue engineering. 2017 , 9, 035003		205
384	Incorporation of zinc oxide nanoparticles into chitosan-collagen 3D porous scaffolds: Effect on morphology, mechanical properties and cytocompatibility of 3D porous scaffolds. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1020-1029	7.9	39
383	Chitosan centered bionanocomposites for medical specialty and curative applications: A review. 2017 , 529, 200-217		63
382	Synthesis of highly swellable hydrogels of water-soluble carboxymethyl chitosan and poly(ethylene glycol). 2017 , 66, 1624-1632		13
381	Controlling chitosan degradation properties in vitro and in vivo. 2017 , 159-182		9
380	Lyophilized chitosan sponges. 2017 , 239-253		6
379	Functional improvement of hemostatic dressing by addition of recombinant batroxobin. 2017 , 48, 175-185		41
378	Human barrier models for the in vitro assessment of drug delivery. 2017 , 7, 217-227		16
377	Effect of polyvinylidene fluoride electrospun fiber orientation on neural stem cell differentiation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 2376-2393	3.5	50
376	Preparation of collagen peptide functionalized chitosan nanoparticles by ionic gelation method: An effective carrier system for encapsulation and release of doxorubicin for cancer drug delivery. 2017 , 70, 378-385		73
375	Evaluation of the potential of rhTGF- β encapsulated P(LLA-CL)/collagen nanofibers for tracheal cartilage regeneration using mesenchymal stems cells derived from Wharton's jelly of human umbilical cord. 2017 , 70, 637-645		41

374	Combining mechanical foaming and thermally induced phase separation to generate chitosan scaffolds for soft tissue engineering. 2017 , 28, 207-226	23
373	Gene-activated matrix/bone marrow-derived mesenchymal stem cells constructs regenerate sweat glands-like structure in vivo. 2017 , 7, 17630	10
372	Combination of Collagen-Based Scaffold and Bioactive Factors Induces Adipose-Derived Mesenchymal Stem Cells Chondrogenic Differentiation. 2017 , 8, 50	37
371	Collagen/chitosan composite scaffolds for bone and cartilage tissue engineering. 2017 , 163-198	4
370	Collagen-Fibrinogen Lyophilised Scaffolds for Soft Tissue Regeneration. 2017 , 10,	10
369	Evaluation of Fibrin-Based Interpenetrating Polymer Networks as Potential Biomaterials for Tissue Engineering. 2017 , 7,	31
368	Biocomposites in therapeutic application. 2017 , 1-29	2
367	Atopic Dermatitis Studies through Models. 2017 , 4, 119	26
366	Guided bone regeneration with asymmetric collagen-chitosan membranes containing aspirin-loaded chitosan nanoparticles. 2017 , 12, 8855-8866	21
365	Oral mucosa tissue engineering. 2017 , 223-244	3
364	Immunological challenges associated with artificial skin grafts: available solutions and stem cells in future design of synthetic skin. 2017 , 11, 49	38
363	Fabrication of Chitosan Silk-based Tracheal Scaffold Using Freeze-Casting Method. 2017 , 21, 228-39	21
362	Minimizing Skin Scarring through Biomaterial Design. 2017 , 8,	15
361	Repair of Bone Defects with Chitosan-Collagen Biomembrane and Scaffold Containing Calcium Aluminate Cement. 2017 , 28, 287-295	11
360	Nanohybrid Scaffolds for the Treatment of Diabetic Wounds. 2017 , 69-108	0
359	Biomimetic Polymers (for Biomedical Applications). 2017 ,	
358	Design and fabrication of injectable microcarriers composed of acellular cartilage matrix and chitosan. 2018 , 29, 683-700	18
357	Electrospun silk-collagen scaffolds and BMP-13 for ligament and tendon repair and regeneration. 2018 , 4, 025013	15

356	Biodegradable Cell-Seeded Collagen Based Polymer Scaffolds for Wound Healing and Skin Reconstruction. 2018 , 57, 100-109		13
355	Chitosan composite scaffolds for articular cartilage defect repair: a review.. 2018 , 8, 3736-3749		45
354	A novel personalized 3D injectable protein scaffold for regenerative medicine. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 29, 7	4.5	16
353	Biomaterials for Skin Substitutes. 2018 , 7, 1700897		88
352	Genipin-cross-linked type II collagen scaffold promotes the differentiation of adipose-derived stem cells into nucleus pulposus-like cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 1258-1268	5.4	29
351	Tyrosinase-doped bioink for 3D bioprinting of living skin constructs. 2018 , 13, 035008		56
350	Development of various composition multicomponent chitosan/fish collagen/glycerin 3D porous scaffolds: Effect on morphology, mechanical strength, biostability and cytocompatibility. <i>International Journal of Biological Macromolecules</i> , 2018 , 111, 158-168	7.9	22
349	Regenerated Sustainable Fibres. 2018 , 31-52		
348	Graphene Oxide-A Tool for the Preparation of Chemically Crosslinking Free Alginate-Chitosan-Collagen Scaffolds for Bone Tissue Engineering. 2018 , 10, 12441-12452		95
347	Injectable self-crosslinking HA-SH/Col I blend hydrogels for in vitro construction of engineered cartilage. <i>Carbohydrate Polymers</i> , 2018 , 190, 57-66	10.3	25
346	Sustainable Innovations in Textile Fibres. 2018 ,		
345	Preparation and characterization of gentamycin sulfate-impregnated gelatin microspheres/collagen/ellulose/nanocrystal scaffolds. 2018 , 75, 77-91		5
344	Silicone rubber membrane with specific pore size enhances wound regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e905-e917	4.4	11
343	Chitosan coatings with enhanced biostability in vivo. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 270-277	3.5	7
342	Effect of carboxymethylcellulose on fibril formation of collagen in vitro. 2018 , 59, 66-72		1
341	Cross-linked self-assembling peptide scaffolds. 2018 , 11, 586-602		28
340	Physicochemical properties and antimicrobial activity of biocompatible carboxymethylcellulose-silver nanoparticle hybrids for wound dressing and epidermal repair. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45812	2.9	24
339	A new composite hydrogel combining the biological properties of collagen with the mechanical properties of a supramolecular scaffold for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e1489-e1500	4.4	28

338	Superabsorbent crosslinked carboxymethyl cellulose-PEG hydrogels for potential wound dressing applications. <i>International Journal of Biological Macromolecules</i> , 2018 , 106, 1218-1234	7.9	183
337	Collagen-fucoidan blend film with the potential to induce fibroblast proliferation for regenerative applications. <i>International Journal of Biological Macromolecules</i> , 2018 , 106, 1032-1040	7.9	32
336	Mass-production of fluorescent chitosan/graphene oxide hybrid microspheres for in vitro 3D expansion of human umbilical cord mesenchymal stem cells. 2018 , 331, 675-684		22
335	Preparation and characterization of gelatin/βCP/SF biocomposite scaffold for bone tissue regeneration. <i>International Journal of Biological Macromolecules</i> , 2018 , 110, 488-496	7.9	27
334	Engineered tubular structures based on chitosan for tissue engineering applications. 2018 , 32, 841-852		6
333	Evaluating the biocompatibility of marine-derived chitosan/collagen polymeric blends for biomedical applications. 2018 , 33, 439-455		6
332	Selective capture of mesenchymal stem cells over fibroblasts and immune cells on E7-modified collagen substrates under flow circumstances. 2018 , 6, 165-173		6
331	Eco-friendly and biocompatible cross-linked carboxymethylcellulose hydrogels as adsorbents for the removal of organic dye pollutants for environmental applications. 2018 , 39, 2856-2872		29
330	The physicochemical properties of 3D materials based on hyaluronic acid modified by tannic acid addition. 2018 , 670, 90-96		8
329	Chemical modification of in natura collagen by acidic catalysis □ structural characterization and mechanistic features of Cd(II) sorption by solution microcalorimetry. 2018 , 23,		
328	Strategies to improve nerve regeneration after radical prostatectomy: a narrative review. 2018 , 70, 546-558		9
327	Collagen/chitosan hybrid 3D-scaffolds as potential biomaterials for tissue engineering. 2018 , 7, 163		2
326	Comparison of the Effect of EDC and Glutaraldehyde as Cross-linkers on Morphology and Swelling Ratio of Gelatin/Chitosan Scaffolds for Use in Skin Tissue Engineering. 2018 ,		
325	The interaction of a naturally occurring membranous collagen with high-saline dye solutions □ mechanistic features from unusual multi-step biosorption. 2018 , 23,		
324	Natural Polymers for Organ 3D Bioprinting. <i>Polymers</i> , 2018 , 10,	4.5	69
323	Microstructure, local viscoelasticity and cell culture suitability of 3D hybrid HA/collagen scaffolds. 2018 , 13, e0207397		18
322	Synthesis and Characterization of a Bioartificial Polymeric System with Potential Antibacterial Activity: Chitosan-Polyvinyl Alcohol-Ampicillin. 2018 , 23,		7
321	Synthesis and Characterization of Poly(Vinyl Alcohol)-Chitosan-Hydroxyapatite Scaffolds: A Promising Alternative for Bone Tissue Regeneration. 2018 , 23,		12

320	Chitosan for Tissue Engineering. 2018 , 1077, 475-485		26
319	Ionically Crosslinked Chitosan Membranes Used as Drug Carriers for Cancer Therapy Application. 2018 , 11,		23
318	Curcumin nanoparticle-incorporated collagen/chitosan scaffolds for enhanced wound healing. 2018 , 7, 159-166		7
317	An electrochemically deposited collagen wound matrix combined with adipose-derived stem cells improves cutaneous wound healing in a mouse model of type 2 diabetes. 2018 , 33, 553-565		9
316	Fabrication of a silver nanoparticle-coated collagen membrane with anti-bacterial and anti-inflammatory activities for guided bone regeneration. 2018 , 13, 065014		24
315	Inorganic apatite nanomaterial: Modified surface phenomena and its role in developing collagen based polymeric bio-composite (Coll-PLGA/HAp) for biological applications. 2018 , 172, 734-742		9
314	Differentiation of Menstrual Blood Stem Cells into Keratinocyte-Like Cells on Bilayer Nanofibrous Scaffold. 2020 , 2125, 129-156		2
313	History, Classification, Properties and Application of Hydrogels: An Overview. 2018 , 29-50		10
312	Extrusion-Based Biofabrication in Tissue Engineering and Regenerative Medicine. 2018 , 255-281		7
311	Conductive Polymers: Opportunities and Challenges in Biomedical Applications. 2018 , 118, 6766-6843		320
310	In vivo study on scaffolds based on chitosan, collagen, and hyaluronic acid with hydroxyapatite. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 938-944	7.9	28
309	Curcumin loaded biomimetic composite graft for faster regeneration of skin in diabetic wounds. 2018 , 47, 12-21		7
308	Development of biodegradable electrospun gelatin/aloe-vera/poly(E-caprolactone) hybrid nanofibrous scaffold for application as skin substitutes. 2018 , 93, 367-379		69
307	Hydroxyapatite nanowire/collagen elastic porous nanocomposite and its enhanced performance in bone defect repair.. 2018 , 8, 26218-26229		17
306	Introduction and Literature Review. <i>Springer Theses</i> , 2018 , 1-45		0.1
305	Physicochemical properties of scaffolds based on mixtures of chitosan, collagen and glycosaminoglycans with nano-hydroxyapatite addition. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1880-1883	7.9	10
304	Chitosan-Cellulose Multifunctional Hydrogel Beads: Design, Characterization and Evaluation of Cytocompatibility with Breast Adenocarcinoma and Osteoblast Cells. 2018 , 5,		17
303	Polyurethanes Crosslinked with Poly(vinyl alcohol) as a Slowly-Degradable and Hydrophilic Materials of Potential Use in Regenerative Medicine. 2018 , 11,		11

302	Osteogenic Potential of Pre-Osteoblastic Cells on a Chitosan-graft-Polycaprolactone Copolymer. 2018 , 11,		17
301	Chitosan microparticles based polyelectrolyte complex scaffolds for bone tissue engineering in vitro and effect of calcium phosphate. <i>Carbohydrate Polymers</i> , 2018 , 199, 426-436	10.3	14
300	Novel enzymatic crosslinked hydrogels that mimic extracellular matrix for skin wound healing. 2018 , 53, 5909-5928		32
299	Bioactive sol-gel glass-coated wood-derived biocarbon scaffolds. 2018 , 232, 14-17		7
298	Callicarpa nudiflora loaded on chitosan-collagen/organomontmorillonite composite membrane for antibacterial activity of wound dressing. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 2279-2284	7.9	15
297	Skin Tissue Substitutes and Biomaterial Risk Assessment and Testing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018 , 6, 86	5.8	43
296	Recent Advances in Laser-Ablative Synthesis of Bare Au and Si Nanoparticles and Assessment of Their Prospects for Tissue Engineering Applications. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	26
295	Preparation of antibacterial chitosan membranes containing silver nanoparticles for dental barrier membrane applications. 2018 , 66, 196-202		34
294	Fabrication and characterization of Chinese giant salamander skin composite collagen sponge as a high-strength rapid hemostatic material. 2018 , 29, 1933-1948		7
293	Bioengineering Scaffolds for Regenerative Engineering. 2019 , 444-461		1
292	Physical and mechanical properties of RAFT-stabilised collagen gels for tissue engineering applications. 2019 , 99, 216-224		7
291	Three-dimensional cryogels for biomedical applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 2736-2755	5.4	42
290	Migration of endothelial cells and mesenchymal stem cells into hyaluronic acid hydrogels with different moduli under induction of pro-inflammatory macrophages. 2019 , 7, 5478-5489		20
289	Effect of freezing temperature on the properties of lyophilized silk sericin scaffold. 2019 , 6, 095414		4
288	The Strategies of Natural Polysaccharide in Wound Healing. 2019 ,		3
287	Polysaccharide-based scaffold for tissue-regeneration. 2019 , 189-212		2
286	Calcified Algae for Tissue Engineering. 2019 , 383-412		
285	Graphene-based 3D scaffolds in tissue engineering: fabrication, applications, and future scope in liver tissue engineering. 2019 , 14, 5753-5783		71

284	3D Printing of Salt as a Template for Magnesium with Structured Porosity. 2019 , 31, e1903783		24
283	Construction of a composite sponge containing tilapia peptides and chitosan with improved hemostatic performance. <i>International Journal of Biological Macromolecules</i> , 2019 , 139, 719-729	7.9	17
282	Crosslinking of hybrid scaffolds produced from collagen and chitosan. <i>International Journal of Biological Macromolecules</i> , 2019 , 139, 262-269	7.9	20
281	Evaluation of decellularized tilapia skin as a tissue engineering scaffold. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 1779-1791	4.4	18
280	Biodegradable polymer nanocomposites for tissue engineering: synthetic strategies and related applications. 2019 , 157-198		1
279	Green-Based Antimicrobial Hydrogels Prepared from Bagasse Cellulose as 3D-Scaffolds for Wound Dressing. <i>Polymers</i> , 2019 , 11,	4.5	15
278	Plant-Derived Nanocellulose as Structural and Mechanical Reinforcement of Freeze-Cast Chitosan Scaffolds for Biomedical Applications. 2019 , 20, 3733-3745		24
277	Surface modification of oriented polysaccharide scaffolds using biotic nanofibers for epidermal cell culture. 2019 , 26, 7971-7981		2
276	Polymer-Based Additive Manufacturing. 2019 ,		8
275	Chitosan films for regenerative medicine: fabrication methods and mechanical characterization of nanostructured chitosan films. 2019 , 11, 807-815		21
274	Prolonged Biodegradation and Improved Mechanical Stability of Collagen via Vapor-Phase Ti Stitching for Long-Term Tissue Regeneration. 2019 , 11, 38440-38447		11
273	Nano-silver hydroxyapatite based antibacterial 3D scaffolds of gelatin/alginate/poly (vinyl alcohol) for bone tissue engineering applications. 2019 , 177, 211-218		46
272	A testis-derived macroporous 3D scaffold as a platform for the generation of mouse testicular organoids. 2019 , 7, 1422-1436		36
271	A multi-interpenetrating network (IPN) hydrogel with gelatin and silk fibroin. 2019 , 7, 1276-1280		35
270	Scaffolds for dermal tissue engineering. 2019 , 147-172		
269	Different Molecular Interaction between Collagen and β -Chitin in Mechanically Improved Electrospun Composite. 2019 , 17,		8
268	A biomimetic tarso-conjunctival biphasic scaffold for eyelid reconstruction in vivo. 2019 , 7, 3373-3385		0
267	Fabrication of bacterial cellulose-collagen composite scaffolds and their osteogenic effect on human mesenchymal stem cells. <i>Carbohydrate Polymers</i> , 2019 , 219, 210-218	10.3	36

266	A collagen scaffold loaded with human umbilical cord-derived mesenchymal stem cells facilitates endometrial regeneration and restores fertility. 2019 , 92, 160-171		55
265	Effect of two crosslinking methods on the physicochemical and biological properties of the collagen-chitosan scaffolds. 2019 , 117, 424-433		27
264	An innovative bioresorbable gelatin based 3D scaffold that maintains the stemness of adipose tissue derived stem cells and the plasticity of differentiated neurons.. 2019 , 9, 14452-14464		6
263	Highly porous protein-based 3D scaffolds with different collagen concentrates for potential application in tissue engineering. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47954	2.9	8
262	Wound Healing Potential of Natural Polymer: Chitosan & Wonder Molecule 2019 , 527-579		4
261	Chitosan biopolymer-derived self-powered triboelectric sensor with optimized performance through molecular surface engineering and data-driven learning. 2019 , 1, 116-125		25
260	Synthesis and characterization of a novel freeze-dried silanated chitosan bone tissue engineering scaffold reinforced with electrospun hydroxyapatite nanofiber. 2019 , 68, 1420-1429		11
259	Nanobiomaterials for tissue engineering. 2019 , 1-21		3
258	Indirect 3D printing technology for the fabrication of customised β CP/chitosan scaffold with the shape of rabbit radial head-an in vitro study. 2019 , 14, 102		10
257	Preparation and Performances of Warp-Knitted Hernia Repair Mesh Fabricated with Chitosan Fiber. <i>Polymers</i> , 2019 , 11,	4.5	6
256	Engineering small-caliber vascular grafts from collagen filaments and nanofibers with comparable mechanical properties to native vessels. 2019 , 11, 035020		21
255	Synergistic effect of bovine platelet lysate and various polysaccharides on the biological properties of collagen-based scaffolds for tissue engineering: Scaffold preparation, chemo-physical characterization, in vitro and ex ovo evaluation. 2019 , 100, 236-246		13
254	Organic solvent free preparation of porous scaffolds based on the phase morphology control using supercritical CO ₂ . 2019 , 149, 88-96		8
253	Self-crosslinked fibrous collagen/chitosan blends: Processing, properties evaluation and monitoring of degradation by bi-fluorescence imaging. <i>International Journal of Biological Macromolecules</i> , 2019 , 131, 353-367	7.9	14
252	Nondestructive, longitudinal measurement of collagen scaffold degradation using computed tomography and gold nanoparticles. 2019 , 11, 4345-4354		13
251	Bone Grafts and Bone Replacements. 2019 , 1314-1326		
250	Resorbable polymer matrices: chitosan-substituted collagen-based biomaterials. 2019 , 245-278		
249	Cito-compability analysis of mesenchymal stem cells in platelet rich fibrin matrix (PRFM) for tissue regeneration. 2019 ,		2

248	Skin Tissue Engineering with Nanostructured Materials. 2019 , 147-168		1
247	Nanomaterials for Regenerative Medicine. 2019 ,		1
246	β-Bisabolol-Loaded Cross-Linked Zein Nanofibrous 3D-Scaffolds For Accelerating Wound Healing And Tissue Regeneration In Rats. 2019 , 14, 8251-8270		11
245	Preparation and characterization of biodegradable collagen [Chitosan scaffolds. 2019 , 19, 2587-2590		5
244	Comparative studies of chemical crosslinking reactions and applications of bio-based hydrogels. 2019 , 76, 2683-2710		17
243	A guide to high-efficiency chromium (III)-collagen cross-linking: Synchrotron SAXS and DSC study. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 123-129	7.9	18
242	Mesenchymal stem cells associated with chitosan scaffolds loaded with rosuvastatin to improve wound healing. 2019 , 127, 185-198		30
241	Stabilization of chitosan based electrospun nanofibers through a simple and safe method. 2019 , 98, 369-380		17
240	Highly porous of hydroxyethyl cellulose biocomposite scaffolds for tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 562-571	7.9	20
239	Antibacterial polyurethanes, modified with cinnamaldehyde, as potential materials for fabrication of wound dressings. 2019 , 76, 2725-2742		14
238	Morphology-induced physico-mechanical and biological characteristics of TPU-PDMS blend scaffolds for skin tissue engineering applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 1634-1644	3.5	7
237	Injectable chitosan/Charrageenan hydrogel designed with au nanoparticles: A conductive scaffold for tissue engineering demands. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 310-317	7.9	45
236	Preparation and characterization of collagen/chitosan poly (ethylene glycol)/nanohydroxyapatite composite scaffolds. 2019 , 30, 799-803		8
235	Microporous cellulosic scaffold as a spheroid culture system modulates chemotherapeutic responses and stemness in hepatocellular carcinoma. 2019 , 120, 5244-5255		3
234	Nanoengineered biomaterials for skin regeneration. 2019 , 265-283		1
233	Drug delivery dressings. 2019 , 261-288		1
232	Application of natural polymers and herbal extracts in wound management. 2019 , 541-561		7
231	Ellagic acid containing collagen-chitosan scaffolds as potential antioxidative bio-materials for tissue engineering applications. 2019 , 68, 208-215		9

230	Biomanufacturing of a novel in vitro biomimetic blood-brain barrier model. 2020 , 12, 035008		2
229	(Chitosan-g-glycidyl methacrylate)-collagen II scaffold for cartilage regeneration. 2020 , 69, 1043-1053		1
228	Glutaraldehyde-crosslinking chitosan scaffolds reinforced with calcium phosphate spray-dried granules for bone tissue applications. 2020 , 109, 110557		29
227	Nanostructured biomaterials for regenerative medicine: Clinical perspectives. 2020 , 47-80		
226	Recent innovations in artificial skin. 2020 , 8, 776-797		22
225	Collagen and chitosan blends for 3D bioprinting: A rheological and printability approach. 2020 , 82, 106297		33
224	Design, construction, and biological testing of an implantable porous trilayer scaffold for repairing osteoarthritic cartilage. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 355-368	4.4	2
223	Investigating the effect of freezing temperature and cross-linking on modulating drug release from chitosan scaffolds. 2020 , 74, 1759-1768		1
222	Three-Dimensional Culture System of Cancer Cells Combined with Biomaterials for Drug Screening. 2020 , 12,		50
221	Engineering a macroporous fibrin-based sequential interpenetrating polymer network for dermal tissue engineering. 2020 , 8, 7106-7116		7
220	Elastic and biodegradable chitosan/agarose film revealing slightly acidic pH for potential applications in regenerative medicine as artificial skin graft. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 172-183	7.9	16
219	Self-Assembling Peptide EAK16 and RADA16 Nanofiber Scaffold Hydrogel. 2020 , 120, 13434-13460		54
218	Computer aided designing and finite element analysis for development of porous 3D tissue scaffold - a review. 2020 , 33, 174		1
217	Medical Implementations of Biopolymers. 2020 , 157-171		7
216	A Green Approach towards Native Collagen Scaffolds: Environmental and Physicochemical Assessment. <i>Polymers</i> , 2020 , 12,	4.5	4
215	Characterization and biological evaluation of a novel silver nanoparticle-loaded collagen-chitosan dressing. 2020 , 7, 371-380		14
214	Silk Fibroin/Collagen/Chitosan Scaffolds Cross-Linked by a Glyoxal Solution as Biomaterials toward Bone Tissue Regeneration. 2020 , 13,		16
213	Toward Vasculature in Skeletal Muscle-on-a-Chip through Thermo-Responsive Sacrificial Templates. 2020 , 11,		6

212	Microsphere-structured hydrogel crosslinked by polymerizable protein-based nanospheres. 2020 , 211, 123114		5
211	Efficacy of alginate-and chitosan-based scaffolds on the healing of diabetic skin wounds in animal experimental models and cell studies: A systematic review. 2020 , 28, 751-771		3
210	3D Printed Marine Biomaterials Composites for Bone Tissue Engineering. 2020 , 1299-1314		1
209	Current Insight of Collagen Biomatrix for Gingival Recession: An Evidence-Based Systematic Review. <i>Polymers</i> , 2020 , 12,	4.5	4
208	A barrier against reactive oxygen species: chitosan/acellular dermal matrix scaffold enhances stem cell retention and improves cutaneous wound healing. 2020 , 11, 383		7
207	Modification of Collagen Properties with Ferulic Acid. 2020 , 13,		6
206	Immobilization of gelatin on the oxygen plasma-modified surface of polycaprolactone scaffolds with tunable pore structure for skin tissue engineering. 2020 , 27, 1		8
205	Blended Natural Support Materials-Collagen Based Hydrogels Used in Biomedicine. 2020 , 13,		13
204	Biological properties of sulfanilamide-loaded alginate hydrogel fibers based on ionic and chemical crosslinking for wound dressings. <i>International Journal of Biological Macromolecules</i> , 2020 , 157, 522-529	7.9	16
203	Gene-activated dermal equivalents to accelerate healing of diabetic chronic wounds by regulating inflammation and promoting angiogenesis. <i>Bioactive Materials</i> , 2020 , 5, 667-679	16.7	19
202	Fabrication and Characterization of Hydrogels Based on Gelatinised Collagen with Potential Application in Tissue Engineering. <i>Polymers</i> , 2020 , 12,	4.5	8
201	GelMA combined with sustained release of HUVECs derived exosomes for promoting cutaneous wound healing and facilitating skin regeneration. 2020 , 51, 251-263		24
200	Concurrent tissue engineering and infection prophylaxis utilising stable dual action amoxicillin loaded scaffolds. 2020 , 58, 101788		1
199	Highly biocompatible novel polyphenol cross-linked collagen scaffold for potential tissue engineering applications. 2020 , 153, 104630		11
198	Evaluation of a Cell-Free Collagen Type I-Based Scaffold for Articular Cartilage Regeneration in an Orthotopic Rat Model. 2020 , 13,		16
197	Polydopamine coating of uncrosslinked chitosan as an acellular scaffold for full thickness skin grafts. <i>Carbohydrate Polymers</i> , 2020 , 245, 116524	10.3	9
196	Regulation of chondrocyte hypertrophy in an osteochondral interface mimicking gel matrix. 2020 , 193, 111111		3
195	A scaffold laden with mesenchymal stem cell-derived exosomes for promoting endometrium regeneration and fertility restoration through macrophage immunomodulation. 2020 , 113, 252-266		38

194	Physical and Chemical Methods for Increasing the Hydrophilicity of the Surface of Aliphatic Polyesters for Tissue-Engineered Constructs. 2020 , 11, 739-743		
193	Multilayer Injectable Hydrogel System Sequentially Delivers Bioactive Substances for Each Wound Healing Stage. 2020 , 12, 29787-29806		19
192	Adsorption and Release of Growth Factors from Four Different Porcine-Derived Collagen Matrices. 2020 , 13,		9
191	An efficient functionalization of dexamethasone-loaded polymeric scaffold with [3-(2,3-epoxypropoxy)-propyl]-trimethoxysilane coupling agent for bone regeneration: Synthesis, characterization, and in vitro evaluation. 2020 , 35, 139-159		1
190	Study of physicochemical properties of nanohydroxyapatite-chitosan composites. 2020 , 43, 1		6
189	Hyaluronic Acid Reduces Bacterial Fouling and Promotes Fibroblasts' Adhesion onto Chitosan 2D-Wound Dressings. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
188	Studies of 3D Starch-Gelatin Scaffolds for Full-Thickness Wound Healing.. 2020 , 3, 2920-2929		10
187	Preparation and In Vitro Biological Evaluation of Lawsonia Loaded O-Carboxymethyl Chitosan/Zinc Oxide Nanocomposite for Wound-Healing Application. 2020 , 5, 2710-2718		10
186	Stem Cell Nanotechnology. 2020 ,		1
185	3D printed biodegradable composites: An insight into mechanical properties of PLA/chitosan scaffold. 2020 , 89, 106722		44
184	Modulating the properties of flow-assembled chitosan membranes in microfluidics with glutaraldehyde crosslinking. 2020 , 8, 2519-2529		13
183	Hyaluronan-based hydrogels as versatile tumor-like models: Tunable ECM and stiffness with genipin-crosslinking. <i>Journal of Biomedical Materials Research - Part A</i> , 2020 , 108, 1256-1268	5.4	21
182	Chitosan based bioactive materials in tissue engineering applications-A review. <i>Bioactive Materials</i> , 2020 , 5, 164-183	16.7	149
181	Physico-Chemical Characterization and Biological Tests of Collagen/Silk Fibroin/Chitosan Scaffolds Cross-Linked by Dialdehyde Starch. <i>Polymers</i> , 2020 , 12,	4.5	26
180	Osteochondral and bone tissue engineering scaffold prepared from Gallus var domesticus derived demineralized bone powder combined with gellan gum for medical application. <i>International Journal of Biological Macromolecules</i> , 2020 , 149, 381-394	7.9	7
179	Enhanced efficiency in isolation and expansion of hAMSCs via dual enzyme digestion and micro-carrier. 2020 , 10, 2		6
178	Proteosaccharide combinations for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2020 , 235, 115932	10.3	12
177	Antibacterial, mechanical and physical properties of collagen - chitosan sponges from aquatic source. 2020 , 15, 100218		4

176	Development of a polyvinyl alcohol/sodium alginate hydrogel-based scaffold incorporating bFGF-encapsulated microspheres for accelerated wound healing. 2020 , 10, 7342	61
175	Biopolymer-based scaffolds. 2020 , 717-749	2
174	3D Bioprinting Strategies for the Regeneration of Functional Tubular Tissues and Organs. 2020 , 7,	36
173	Materials science perspective of multifunctional materials derived from collagen. 2021 , 66, 160-187	7
172	Chitosan/collagen composite films as wound dressings encapsulating allantoin and lidocaine hydrochloride. 2021 , 70, 623-635	15
171	Natural collagen bioscaffolds for skin tissue engineering strategies in burns: a critical review. 2021 , 70, 593-604	5
170	A Dermal Gel Made of Rutilus Kutum Skin Collagen-Chitosan for Deep Burn Healing. 2021 , 27, 317-328	3
169	Extraction of pectin from albedo of lemon peels for preparation of tissue engineering scaffolds. 2021 , 78, 2211-2226	12
168	Antibacterial effects of barium titanate reinforced polyvinyl-siloxane scaffolds. 2021 , 70, 425-436	3
167	Ultra-low pressure cellulose-based nanofiltration membrane fabricated on layer-by-layer assembly for efficient sodium chloride removal. <i>Carbohydrate Polymers</i> , 2021 , 255, 117352	10.3 17
166	A facile injectable carbon dot/oxidative polysaccharide hydrogel with potent self-healing and high antibacterial activity. <i>Carbohydrate Polymers</i> , 2021 , 251, 117040	10.3 27
165	A hybrid scaffold of gelatin glycosaminoglycan matrix and fibrin as a carrier of human corneal fibroblast cells. 2021 , 118, 111430	3
164	Fabrication of 3D hybrid scaffold by combination technique of electrospinning-like and freeze-drying to create mechanotransduction signals and mimic extracellular matrix function of skin. 2021 , 120, 111752	9
163	Modified tamarind kernel polysaccharide-based matrix alters neuro-keratinocyte cross-talk and serves as a suitable scaffold for skin tissue engineering. 2021 , 121, 111779	
162	Cross-linking-enhanced and ultrasound-mediated drug delivery: From fabrication, mechanisms to translations. 2021 , 22, 100897	4
161	Three Dimensional (3D) Printable Gel-Inks for Skin Tissue Regeneration. 2021 , 191-227	
160	3D bioprinting dermal-like structures using species-specific ulvan. 2021 , 9, 2424-2438	4
159	Chitosan-based nanocomposites for gene delivery: Application and future perspectives. 2021 , 245-262	

158	Chitosan-based bionanocomposite in regenerative medicine. 2021 , 169-185		1
157	Natural polymer-based hydrogels for adsorption applications. 2021 , 267-306		0
156	A multifunctional substance P-conjugated chitosan hydrochloride hydrogel accelerates full-thickness wound healing by enhancing synchronized vascularization, extracellular matrix deposition, and nerve regeneration. 2021 , 9, 4199-4210		4
155	3D printed chitosan/polycaprolactone scaffold for lung tissue engineering: hope to be useful for COVID-19 studies.. 2021 , 11, 19508-19520		5
154	Natural polysaccharides for wound healing. 2021 , 341-379		1
153	Chitosan-based bionanocomposites in tissue engineering. 2021 , 205-224		
152	Design and evaluation of ciprofloxacin loaded collagen chitosan oxygenating scaffold for skin tissue engineering. 2021 , 16, 025021		2
151	A simple, green chemistry technology for fabrication of tissue-engineered scaffolds based on mussel-inspired 3D centrifugal spun. 2021 , 121, 111849		4
150	Modulating the Biomechanical Properties of Engineered Connective Tissues by Chitosan-Coated Multiwall Carbon Nanotubes. 2021 , 16, 989-1000		0
149	Recombinant human collagen/chitosan-based soft hydrogels as biomaterials for soft tissue engineering. 2021 , 121, 111846		11
148	Influences of Molecular Weights on Physicochemical and Biological Properties of Collagen-Alginate Scaffolds. 2021 , 19,		1
147	Electrospun polyurethane-gelatin artificial skin scaffold for wound healing. 1-10		3
146	Rheological and Microstructural Evaluation of Collagen-Based Scaffolds Crosslinked with Fructose. <i>Polymers</i> , 2021 , 13,	4-5	2
145	SDF-1 β Gene-Activated Collagen Scaffold Restores Pro-Angiogenic Wound Healing Features in Human Diabetic Adipose-Derived Stem Cells. 2021 , 9,		10
144	Macroporous chitosan/methoxypoly(ethylene glycol) based cryosponges with unique morphology for tissue engineering applications. 2021 , 11, 3104		1
143	How to Improve Physico-Chemical Properties of Silk Fibroin Materials for Biomedical Applications?-Blending and Cross-Linking of Silk Fibroin-A Review. 2021 , 14,		8
142	Quercetin-biapigenin nanoparticles are effective to penetrate the blood-brain barrier. 2021 , 1		3
141	Biopolymer Matrices Based on Chitosan and Fibroin: A Review Focused on Methods for Studying Surface Properties. 2021 , 2, 154-167		0

140	The Effects of Crosslinking on the Rheology and Cellular Behavior of Polymer-Based 3D-Multilayered Scaffolds for Restoring Articular Cartilage. <i>Polymers</i> , 2021 , 13,	4.5	0
139	3D printed scaffolds of alginate/polyvinylalcohol with silk fibroin based on mimicked extracellular matrix for bone tissue engineering in maxillofacial surgery. 2021 , 26, 102140		6
138	Mechanical and Degradation Properties of Hybrid Scaffolds for Tissue Engineered Heart Valve (TEHV). 2021 , 12,		2
137	Optimization and evaluation of ciprofloxacin-loaded collagen/chitosan scaffolds for skin tissue engineering. 2021 , 11, 160		1
136	Protein-Based 3D Biofabrication of Biomaterials. 2021 , 8,		9
135	Low-temperature 3D printing of collagen and chitosan composite for tissue engineering. 2021 , 123, 111963		18
134	Polymer-Protein Hybrid Network Involving Mucin: A Mineralized Biomimetic Template for Bone Tissue Engineering. 2021 , 21, e2000381		1
133	Optimization of decellularized human placental macroporous scaffolds for spermatogonial stem cells homing. <i>Journal of Materials Science: Materials in Medicine</i> , 2021 , 32, 47	4.5	1
132	Investigation of the Structural Mechanism and Film Growth on Cytoprotective Type I Collagen-Based Nanocoating of Individual Cellular Surfaces. 2021 , 37, 4587-4598		0
131	Silver-doped sol-gel borate glasses: Dose-dependent effect on <i>Pseudomonas aeruginosa</i> biofilms and keratinocyte function.		2
130	Growth factor functionalized biodegradable nanocellulose scaffolds for potential wound healing application. 2021 , 28, 5643		4
129	The application of decellularized nucleus pulposus matrix/chitosan with transforming growth factor β for nucleus pulposus tissue engineering. 2021 , 73, 447-456		2
128	Photothermally active borosilicate-based composite bone cement for near-infrared light controlled mineralisation. 1-8		0
127	Tunable porosity of covalently crosslinked alginate-based hydrogels and its significance in drug release behavior. <i>Carbohydrate Polymers</i> , 2021 , 260, 117779	10.3	14
126	Control Release of Adenosine Potentiate Osteogenic Differentiation within a Bone Integrative EGCG--NOCC/Collagen Composite Scaffold toward Guided Bone Regeneration in a Critical-Sized Calvarial Defect. 2021 , 22, 3069-3083		1
125	3D Electrospun Nanofiber-Based Scaffolds: From Preparations and Properties to Tissue Regeneration Applications. 2021 , 2021, 8790143		7
124	A competitive nature-derived multilayered scaffold based on chitosan and alginate, for full-thickness wound healing. <i>Carbohydrate Polymers</i> , 2021 , 262, 117921	10.3	4
123	Improvement of the Wound-Healing Process by Curcumin-Loaded Chitosan/Collagen Blend Electrospun Nanofibers: In Vitro and In Vivo Studies. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3886-3897	5.5	11

122	High-throughput fabrication of silk fibroin/hydroxypropyl methylcellulose (SF/HPMC) nanofibrous scaffolds for skin tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 1210-1221	7.9	6
121	Engineering Bioactive Scaffolds for Skin Regeneration. 2021 , 17, e2101384		17
120	Full incorporation of the noncanonical amino acid hydroxylysine as a surrogate for lysine in green fluorescent protein. 2021 , 41, 116207		1
119	Chitosan-based microneedles as a potential platform for drug delivery through the skin: Trends and regulatory aspects. <i>International Journal of Biological Macromolecules</i> , 2021 , 184, 438-453	7.9	14
118	Algae-derived materials for tissue engineering and regenerative medicine applications: current trends and future perspectives. 1		3
117	Glibenclamide Nanocrystal-Loaded Bioactive Polymeric Scaffolds for Skin Regeneration: In Vitro Characterization and Preclinical Evaluation. 2021 , 13,		1
116	Using type III recombinant human collagen to construct a series of highly porous scaffolds for tissue regeneration. 2021 , 208, 112139		2
115	Fabrication and characterization of Chrysin - A plant polyphenol loaded alginate -chitosan composite for wound healing application. 2021 , 206, 111922		5
114	Investigating the Impact of Collagen-Chitosan Derived from on Second-Degree Burn in Rats Model. 2021 , 18, 12-20		3
113	3D printing of artificial skin patches with bioactive and optically active polymer materials for anti-infection and augmenting wound repair. 2021 ,		7
112	3D bioprinting for skin tissue engineering: Current status and perspectives. 2021 , 12, 20417314211028574		18
111	Nanomaterials for Regenerative Medicine. 2019 , 1-45		3
110	Advances in Tissue Engineering and Regeneration. 2020 , 577-646		1
109	Chitosan-Based Polysaccharide Biomaterials. 2014 , 1-13		1
108	Extrusion-Based Biofabrication in Tissue Engineering and Regenerative Medicine. 2016 , 1-27		5
107	Design of Novel 3D-Scaffold as a Potential Material to Induct Epidermal-Dermal Keratinocytes of Human-Adipose-Derived Stem Cells and Promote Fibroblast Cells Proliferation for Skin Regeneration. 2020 , 21, 33-44		7
106	Honey loaded silk fibroin 3D porous scaffold facilitates homeostatic full-thickness wound healing. 2020 , 12, 100703		9
105	Dual Functionalized Injectable Hybrid Extracellular Matrix Hydrogel for Burn Wounds. 2021 , 22, 514-533		6

104	A novel injectable pH-temperature sensitive hydrogel containing chitosan-insulin electrospayed nanosphere composite for an insulin delivery system in type I diabetes treatment. 2020 , 8, 3830-3843		11
103	Chitosan: Process and Modification. 1811-1825		1
102	Wound Care: Skin Tissue Regeneration. 8258-8279		1
101	Skin Tissue Engineering: Polymers. 7335-7350		1
100	Constructed microbubble porous scaffolds of polyvinyl alcohol for subchondral bone formation for osteoarthritis surgery. 2020 , 15, 055029		4
99	Polymeric Scaffolds for Gene Delivery and Regenerative Medicine. 2005 , 317-334		1
98	3D differentiation of neural stem cells in macroporous photopolymerizable hydrogel scaffolds. 2012 , 7, e48824		73
97	Fabrication and evaluation of polylactic acid/pectin composite scaffold via freeze extraction for tissue engineering. 2020 , 40, 421-431		1
96	On the way to total integration of prosthetic pylon with residuum. 2009 , 46, 345-60		20
95	[In-vitro degradation of the chitosan membranes under various syntheses conditions]. <i>Biomeditsinskaya Khimiya</i> , 2014 , 60, 636-42	0.8	1
94	Chitosan in Biomedical Engineering: A Critical Review. <i>Current Stem Cell Research and Therapy</i> , 2019 , 14, 93-116	3.6	112
93	Chitosan Hydrogel Supports Integrity of Ovarian Follicles during In Vitro Culture: A Preliminary of A Novel Biomaterial for Three Dimensional Culture of Ovarian Follicles. <i>Cell Journal</i> , 2020 , 21, 479-493	2.4	6
92	Cytocompatibility of Human-like Collagen/nano-hydroxyapatite Porous Scaffolds Using Cartilages. <i>Biotechnology</i> , 2013 , 12, 99-103	0.1	2
91	Bioinspired Materials and Biocompatibility. <i>Advances in Chemical and Materials Engineering Book Series</i> , 294-322	0.2	2
90	Optimization, characterization, and efficacy evaluation of 2% chitosan scaffold for tissue engineering and wound healing. <i>Journal of Pharmacy and Bioallied Sciences</i> , 2016 , 8, 300-308	1.1	14
89	Synthetic Three-Dimensional Scaffold for Application in the Regeneration of Bone Tissue. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2018 , 09, 277-289	1	1
88	Evaluation of Albuminated Curcumin as Soluble Drug Form to Control Growth of Cancer Cells <i>in Vitro</i>. <i>Journal of Cancer Therapy</i> , 2014 , 05, 723-734	0.2	8
87	Differences between Solution and Membrane Forms of Chitosan on the In Vitro Activity of Fibroblasts. <i>Balkan Medical Journal</i> , 2015 , 32, 69-78	1.5	4

86	Different types of biotechnological wound coverages created with the application of alive human cells. <i>Biopolymers and Cell</i> , 2015 , 31, 83-96	0.3	3
85	An artificial-vision- and statistical-learning-based method for studying the biodegradation of type I collagen scaffolds in bone regeneration systems. <i>PeerJ</i> , 2019 , 7, e7233	3.1	4
84	Biomaterials and Scaffold Fabrication Techniques for Tissue Engineering Applications. 2021 , 691-706		
83	Chitosan-Based Hydrogels for Tissue Engineering. 2021 , 519-571		0
82	An overview on the manufacturing of functional and mature cellular skin substitutes. <i>Tissue Engineering - Part B: Reviews</i> , 2021 ,	7.9	1
81	In vitro and in vivo study of carboxymethyl chitosan/polyvinyl alcohol for wound dressing application. <i>Journal of Applied Polymer Science</i> , 51764	2.9	1
80	Characterization of a Microbial Transglutaminase Cross-linked Type II Collagen Scaffold. <i>Tissue Engineering</i> , 2006 , 060706073730024		
79	Macroporous Polymeric Scaffolds for Tissue Engineering Applications. 2009 , 405-466		
78	Preparation, properties, and cell attachment/growth behavior of chitosan/acellular derm matrix composite materials. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2011 , 02, 124-132	1	
77	Functionalized Nanomaterials. 2013 , 581-609		
76	Smart Nanofibers. <i>NIMS Monographs</i> , 2014 , 189-235	0.3	
75	Chitosan: Drug Delivery Systems. 1709-1721		
74	Biocomposites: Natural and Synthetic Fibers. 585-601		
73	Functionalized Nanomaterials. 2016 , 123-150		
72	Hyaluronic Acid: Regenerative Medicine and Drug Delivery. 3778-3788		
71	The potential of chitosan combined with chicken shank collagen as scaffold on bone defect regeneration process in <i>Rattus norvegicus</i> . <i>Dental Journal: Majalah Kedokteran Gigi</i> , 2016 , 49, 22	0.2	
70	Functionalized Nanomaterials Journal of Applied Polymer Science 2017 , 355-364		1
69	BIOPRINTING OF ORGANS AND TISSUES. 2017 , 63, 3-9		2

68	Scaffold combination of chitosan and collagen synthesized from chicken feet induces osteoblast and osteoprotegerin expression in bone healing process of mice. <i>Dental Journal: Majalah Kedokteran Gigi</i> , 2017 , 50, 86	0.2	0
67	Wound Care: Skin Tissue Regeneration. 2017 , 1620-1641		
66	Preparation and Physicochemical Characterization of Nano- Hydroxyapatite Based 3D Porous Scaffold for Biomedical Application. <i>Advances in Tissue Engineering & Regenerative Medicine Open Access</i> , 2017 , 3,	2	1
65	Preparation and Characterisation of Novel Hybrid Hydrogel Fibres. <i>Springer Theses</i> , 2018 , 57-77	0.1	
64	Bioinspired Materials and Biocompatibility. 2018 , 1071-1100		
63	Chapter 2:Adult Stem Cell Culture on Extracellular Matrices and Natural Biopolymers. <i>Biomaterials Science Series</i> , 2019 , 12-85	0.6	
62	Current Market for Biomedical Implants. 2019 , 97-119		1
61	Chitosan-Based Systems for Theranostic Applications. 2019 , 343-384		0
60	Fabrication of Tissue Engineering Scaffolds Using Marine Bioactive Materials for Diverse Applications. <i>Journal of Coastal Research</i> , 2019 , 86, 170	0.6	
59	Biocidal and bioresorbable chitosan/triclosan/collagen matrixes. 2019 , 1		0
58	Chemically cross-linked polysaccharides for biomedical applications. 2020 , 51-68		
57	Preparation of decellularized optic nerve grafts. <i>Artificial Organs</i> , 2021 ,	2.6	0
56	Regeneration of Tissue in the Living Body. 219-244		
55	Biomaterials. 2008 , 429-443		
54	Novel chitosan-polycaprolactone blends as potential scaffold and carrier for corneal endothelial transplantation. <i>Molecular Vision</i> , 2012 , 18, 255-64	2.3	34
53	Benefit of coupling heparin to crosslinked collagen I/III scaffolds for human dermal fibroblast subpopulations' tissue growth. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 ,	5.4	1
52	Representative 3D Bioprinting Approaches. 2022 , 11-45		
51	Curcumin-incorporated 3D bioprinting gelatin methacryloyl hydrogel reduces reactive oxygen species-induced adipose-derived stem cell apoptosis and improves implanting survival in diabetic wounds.. <i>Burns and Trauma</i> , 2022 , 10, tkac001	5.3	1

50	Dual-charge bacterial cellulose as a potential 3D printable material for soft tissue engineering. <i>Composites Part B: Engineering</i> , 2022 , 231, 109598	10	3
49	Immuno-modulatory biomaterials as anti-inflammatory therapeutics.. <i>Biochemical Pharmacology</i> , 2022 , 197, 114890	6	2
48	Decellularized liver ECM-based 3D scaffolds: Compositional, physical, chemical, rheological, thermal, mechanical, and in vitro biological evaluations.. <i>International Journal of Biological Macromolecules</i> , 2021 , 200, 110-110	7.9	0
47	Lawsone-encapsulated chitosan/polyethylene oxide nanofibrous mat as a potential antibacterial biobased wound dressing. <i>Engineered Regeneration</i> , 2021 , 2, 219-226	5.2	5
46	Lignin in nanocomposite hydrogels. 2022 , 459-484		
45	Metronidazole Topically Immobilized Electrospun Nanofibrous Scaffold: Novel Secondary Intention Wound Healing Accelerator.. <i>Polymers</i> , 2022 , 14,	4.5	4
44	Chitosan-collagen-hydroxyapatite membranes for tissue engineering.. <i>Journal of Materials Science: Materials in Medicine</i> , 2022 , 33, 18	4.5	6
43	Advances in Engineered Three-Dimensional (3D) Body Articulation Unit Models.. <i>Drug Design, Development and Therapy</i> , 2022 , 16, 213-235	4.4	1
42	Chitin and chitosan-based blends and composites. 2022 , 123-203		1
41	Polymer nanocomposites for biomedical applications. 2022 , 175-215		1
40	Functionalized chitosan/spherical nanocellulose-based hydrogel with superior antibacterial efficiency for wound healing.. <i>Carbohydrate Polymers</i> , 2022 , 284, 119202	10.3	4
39	Vapor construction and modification of stem cell-laden multicomponent scaffolds for regenerative therapeutics.. <i>Materials Today Bio</i> , 2022 , 13, 100213	9.9	0
38	Effect of Ce-doped bioactive glass/collagen/chitosan nanocomposite scaffolds on the cell morphology and proliferation of rabbit's bone marrow mesenchymal stem cells-derived osteogenic cells.. <i>Journal of Genetic Engineering and Biotechnology</i> , 2022 , 20, 33	3.1	0
37	Development of functional hybrid scaffolds for wound healing applications.. <i>IScience</i> , 2022 , 25, 104019	6.1	1
36	L-Glutamic acid loaded collagen chitosan composite scaffold as regenerative medicine for the accelerated healing of diabetic wounds. <i>Arabian Journal of Chemistry</i> , 2022 , 15, 103841	5.9	0
35	Advances in spray products for skin regeneration.. <i>Bioactive Materials</i> , 2022 , 16, 187-203	16.7	1
34	Effect of Macroporous Gelatin Cryogel as Biomaterial Scaffold on Osteogenic Differentiation of Mesenchymal Stem Cells and Direct Conversion of Fibroblasts into Osteoblasts. <i>KSBB Journal</i> , 2021 , 36, 272-278	1.5	
33	Degradation and release of tannic acid from an injectable tissue regeneration bead matrix in vivo.. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 ,	3.5	0

32	Recent Advances in Mupirocin Delivery Strategies for the Treatment of Bacterial Skin and Soft Tissue Infection. <i>Future Pharmacology</i> , 2021 , 1, 80-103		4
31	Synthesis and Characterization of Curcumin Incorporated Multi component Nano-Scaffold with Enhanced Anti-bacterial and Wound Healing Properties.. <i>Current Drug Delivery</i> , 2022 ,	3.2	0
30	In Situ Crosslinkable Collagen-Based Hydrogels for 3D Printing of Dermis-Mimetic Constructs. <i>ECS Journal of Solid State Science and Technology</i> ,	2	1
29	Exploring the Impact of Chitosan Composites as Artificial Organs.. <i>Polymers</i> , 2022 , 14,	4.5	1
28	Polymerizable Skin Hydrogel for Full Thickness Wound Healing.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	2
27	Recent scaffold-based tissue engineering approaches in premature ovarian failure treatment.. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2022 ,	4.4	
26	Hydrogels for Tissue Engineering: Addressing Key Design Needs Toward Clinical Translation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10,	5.8	1
25	Collagen-based strategies in wound healing and skin tissue engineering. 2022 , 273-300		
24	Application of Graphene Oxide-Based Hydrogels in Bone Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2022 , 8, 2849-2857	5.5	1
23	Angiogenic Effect of a Nanoniosomal Deferoxamine-Loaded Poly(vinyl alcohol)Egg White Film as a Promising Wound Dressing. <i>ACS Biomaterials Science and Engineering</i> ,	5.5	0
22	3D printing of skin equivalents with hair follicle structures and epidermal-papillary-dermal layers using gelatin/hyaluronic acid hydrogels. <i>Chemistry - an Asian Journal</i> ,	4.5	0
21	Research Progress on Emerging Polysaccharide Materials Applied in Tissue Engineering. 2022 , 14, 3268		1
20	Enzymatic upgrading of nanochitin using an ancient lytic polysaccharide monooxygenase. 2022 , 3,		
19	An Acellular Scaffold Facilitates Endometrial Regeneration and Fertility Restoration via Recruiting Endogenous Mesenchymal Stem Cells. 2201680		1
18	Integrated printed BDNF-stimulated HUCMSCs-derived exosomes/collagen/chitosan biological scaffolds with 3D printing technology promoted the remodelling of neural networks after traumatic brain injury.		1
17	Biocompatible and antibacterial <i>Flammulina velutipes</i> -based natural hybrid cryogel to treat noncompressible hemorrhages and skin defects. 10,		0
16	Water Saturated with Pressurized CO ₂ as a Tool to Create Various 3D Morphologies of Composites Based on Chitosan and Copper Nanoparticles. 2022 , 27, 7261		1
15	Multifunctional sponge scaffold loaded with concentrated growth factors for promoting wound healing. 2022 , 105835		0

- 14 Collagen Type II-Chitosan Interactions as Dependent on Hydroxylation and Acetylation Inferred from Molecular Dynamics Simulations. **2023**, 28, 154
- 13 Fabrication and novel applications of polymeric biomaterials for tissue scaffolds. **2022**,
- 12 Triphasic 3D In Vitro Model of Bone-Tendon-Muscle Interfaces to Study Their Regeneration. **2023**, 12, 313
- 11 Recent trends in polymeric composites and blends for three-dimensional printing and bioprinting. **2023**, 131-157
- 10 Collagen-Based Flexible Electronic Devices for Electrochemical Energy Storage and Sensing.
- 9 Plasmid containing VEGF-165 and ANG-1 dual genes packaged with fibroin-modified PEI to promote the regeneration of vascular network and dermal tissue. **2023**, 224, 113210
- 8 Human beta defensin-2 loaded PLGA nanoparticles impregnated in collagen-chitosan composite scaffold for the management of diabetic wounds. **2023**, 161, 114540
- 7 Halloysite nanoclay reinforced hydroxyapatite porous scaffold for hard tissue regeneration. **2023**, 140, 105626
- 6 Bioengineered Water-Responsive Carboxymethyl Cellulose/Poly(vinyl alcohol) Hydrogel Hybrids for Wound Dressing and Skin Tissue Engineering Applications. **2023**, 9, 166
- 5 Chitosan-based biomaterials in biomedical applications. **2023**, 363-378
- 4 Electrospun bio-nano hybrid scaffold from collagen, Nigella sativa, and chitosan for skin tissue engineering application. 088391152311623
- 3 Concurrent Tissue Engineering for Wound Healing in Diabetic Rats Utilizing Dual Actions of Green Synthesized CuO NPs Prepared from Two Plants Grown in Egypt. Volume 18, 1927-1947
- 2 Release systems based on self-assembling RADA16-I hydrogels with a signal sequence which improves wound healing processes. **2023**, 13,
- 1 Proliferative and Osteogenic Supportive Effect of VEGF-Loaded Collagen-Chitosan Hydrogel System in Bone Marrow Derived Mesenchymal Stem Cells. **2023**, 15, 1297