Sabiniano Roman Regueros

List of Publications by Citations

113 papers	3,492 citations	27 h-index	55 g-index
121 ext. papers	4,244 ext. citations	5.1 avg, IF	6.07 L-index

#	Paper	IF	Citations
113	Progress and opportunities for tissue-engineered skin. *Nature*, **2007**, 445, 874-80	50.4	797
112	The Tissue-Engineered Vascular Graft-Past, Present, and Future. *Tissue Engineering - Part B: Reviews* , **2016**, 22, 68-100	7.9	411
111	Development of a UV crosslinked biodegradable hydrogel containing adipose derived stem cells to promote vascularization for skin wounds and tissue engineering. *Biomaterials*, **2017**, 129, 188-198	15.6	217
110	Consensus Statement of the European Urology Association and the European Urogynaecological Association on the Use of Implanted Materials for Treating Pelvic Organ Prolapse and Stress Urinary Incontinence. *European Urology*, **2017**, 72, 424-431	10.2	114
109	Human Mesenchymal Stromal Cells from Different Sources Diverge in Their Expression of Cell Surface Proteins and Display Distinct Differentiation Patterns. *Stem Cells International*, **2016**, 2016, 5646384	5	88
108	Production and performance of biomaterials containing RGD peptides. *Soft Matter*, **2008**, 4, 2331	3.6	83
107	Biomimetic poly(glycerol sebacate)/poly(l-lactic acid) blend scaffolds for adipose tissue engineering. *Acta Biomaterialia*, **2015**, 18, 40-9	10.8	77
106	Comparison of candidate scaffolds for tissue engineering for stress urinary incontinence and pelvic organ prolapse repair. *BJU International*, **2013**, 112, 674-85	5.6	56
105	Developing a tissue engineered repair material for treatment of stress urinary incontinence and pelvic organ prolapse-which cell source?. *Neurourology and Urodynamics*, **2014**, 33, 531-7	2.3	53
104	A Dinuclear Ruthenium(II) Complex Excited by Near-Infrared Light through Two-Photon Absorption Induces Phototoxicity Deep within Hypoxic Regions of Melanoma Cancer Spheroids. *Journal of the American Chemical Society*, **2020**, 142, 4639-4647	16.4	46
103	Biodegradable and conductive chitosan–graphene quantum dot nanocomposite microneedles for delivery of both small and large molecular weight therapeutics. *RSC Advances*, **2015**, 5, 51934-51946	3.7	46
102	Are biomechanical properties predictive of the success of prostheses used in stress urinary incontinence and pelvic organ prolapse? A systematic review. *Neurourology and Urodynamics*, **2012**, 31, 13-21	2.3	42
101	Ag modified mesoporous bioactive glass nanoparticles for enhanced antibacterial activity in 3D infected skin model. *Materials Science and Engineering C*, **2019**, 103, 109764	8.3	40
100	Biomaterials for pelvic floor reconstructive surgery: how can we do better?. *BioMed Research International*, **2015**, 2015, 968087	3	38
99	Development of bilayer and trilayer nanofibrous/microfibrous scaffolds for regenerative medicine. *Biomaterials Science*, **2013**, 1, 942-951	7.4	36
98	A Novel Bilayer Polycaprolactone Membrane for Guided Bone Regeneration: Combining Electrospinning and Emulsion Templating. *Materials*, **2019**, 12,	3.5	35
97	A dinuclear ruthenium(ii) phototherapeutic that targets duplex and quadruplex DNA. *Chemical Science*, **2019**, 10, 3502-3513	9.4	35

96	Production of chitosan PVA PCL hydrogels to bind heparin and induce angiogenesis. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2016**, 65, 466-476	3	34
95	Brown adipose tissue and novel therapeutic approaches to treat metabolic disorders. *Translational Research*, **2015**, 165, 464-79	11	33
94	Temperature-dependent phagocytosis of highly branched poly(N-isopropyl acrylamide-co-1,2 propandiol-3-methacrylate)s prepared by RAFT polymerization. *Journal of Materials Chemistry*, **2007**, 17, 4022		33
93	Production of tissue-engineered skin and oral mucosa for clinical and experimental use. *Methods in Molecular Biology*, **2011**, 695, 129-53	1.4	31
92	Using Chick Chorioallantoic Membrane (CAM) Assay To Evaluate the Biocompatibility and Angiogenic Response to Biomaterials. *ACS Biomaterials Science and Engineering*, **2019**, 5, 3190-3200	5.5	30
91	Thermoresponsive, stretchable, biodegradable and biocompatible poly(glycerol sebacate)-based polyurethane hydrogels. *Polymer Chemistry*, **2015**, 6, 7974-7987	4.9	30
90	Evaluating Alternative Materials for the Treatment of Stress Urinary Incontinence and Pelvic Organ Prolapse: A Comparison of the In Vivo Response to Meshes Implanted in Rabbits. *Journal of Urology* , **2016**, 196, 261-9	2.5	30
89	Demonstration of improved tissue integration and angiogenesis with an elastic, estradiol releasing polyurethane material designed for use in pelvic floor repair. *Neurourology and Urodynamics*, **2018**, 37, 716-725	2.3	29
88	An anatomical study of porcine peripheral nerve and its potential use in nerve tissue engineering. *Journal of Anatomy*, **2015**, 227, 302-14	2.9	29
87	Oestradiol-releasing Biodegradable Mesh Stimulates Collagen Production and Angiogenesis: An Approach to Improving Biomaterial Integration in Pelvic Floor Repair. *European Urology Focus*, **2019** , 5, 280-289	5.1	28
86	Production of ascorbic acid releasing biomaterials for pelvic floor repair. *Acta Biomaterialia*, **2016**, 29, 188-197	10.8	27
85	Development of a one-step approach for the reconstruction of full thickness skin defects using minced split thickness skin grafts and biodegradable synthetic scaffolds as a dermal substitute. *Burns*, **2014**, 40, 957-65	2.3	27
84	Sub-micron poly(N-isopropylacrylamide) particles as temperature responsive vehicles for the detachment and delivery of human cells. *Soft Matter*, **2009**, 5, 4928	3.6	27
83	Stem Cell-Based Tissue-Engineered Laryngeal Replacement. *Stem Cells Translational Medicine*, **2017** , 6, 677-687	6.9	25
82	Acute in vivo response to an alternative implant for urogynecology. *BioMed Research International*, **2014**, 2014, 853610	3	25
81	Complications related to use of mesh implants in surgical treatment of stress urinary incontinence and pelvic organ prolapse: infection or inflammation?. *World Journal of Urology*, **2020**, 38, 73-80	4	25
80	A methodology for the production of microfabricated electrospun membranes for the creation of new skin regeneration models. *Journal of Tissue Engineering*, **2018**, 9, 2041731418799851	7.5	25
79	A Cell Therapy for Chronic Wounds Based Upon a Plasma Polymer Delivery Surface. *Plasma Processes and Polymers*, **2006**, 3, 419-430	3.4	23

78	Biodegradable scaffolds designed to mimic fascia-like properties for the treatment of pelvic organ prolapse and stress urinary incontinence. *Journal of Biomaterials Applications*, **2016**, 30, 1578-88	2.9	22
77	Monitoring fibrous scaffold guidance of three-dimensional collagen organisation using minimally-invasive second harmonic generation. *PLoS ONE*, **2014**, 9, e89761	3.7	22
76	Characterisation of structural changes in collagen with Raman spectroscopy. *Applied Spectroscopy Reviews*, **2019**, 54, 509-542	4.5	22
75	Exploration of 2-deoxy-D-ribose and 17Β-Estradiol as alternatives to exogenous VEGF to promote angiogenesis in tissue-engineered constructs. *Regenerative Medicine*, **2019**, 14, 179-197	2.5	20
74	Dental materials for cleft palate repair. *Materials Science and Engineering C*, **2016**, 61, 1018-28	8.3	20
73	Simple surface coating of electrospun poly-L-lactic acid scaffolds to induce angiogenesis. *Journal of Biomaterials Applications*, **2015**, 30, 50-60	2.9	19
72	Oxygen Mapping of Melanoma Spheroids using Small Molecule Platinum Probe and Phosphorescence Lifetime Imaging Microscopy. *Scientific Reports*, **2017**, 7, 10743	4.9	19
71	Assessment of Electrospun and Ultra-lightweight Polypropylene Meshes in the Sheep Model for Vaginal Surgery. *European Urology Focus*, **2020**, 6, 190-198	5.1	19
70	Porous microspheres support mesenchymal progenitor cell ingrowth and stimulate angiogenesis. *APL Bioengineering*, **2018**, 2, 026103	6.6	19
69	Heparin binding chitosan derivatives for production of pro-angiogenic hydrogels for promoting tissue healing. *Materials Science and Engineering C*, **2017**, 74, 347-356	8.3	18
68	Landmarks in vaginal mesh development: polypropylene mesh for treatment of SUI and POP. *Nature Reviews Urology*, **2019**, 16, 675-689	5.5	18
67	Rocking media over ex vivo corneas improves this model and allows the study of the effect of proinflammatory cytokines on wound healing. *Investigative Ophthalmology and Visual Science*, **2015**, 56, 1553-61		18
66	Overcoming scarring in the urethra: Challenges for tissue engineering. *Asian Journal of Urology*, **2018**, 5, 69-77	2.7	18
65	Bioresorbable antibacterial PCL-PLA-nHA composite membranes for oral and maxillofacial defects. *Polymer Composites*, **2019**, 40, 1564-1575	3	18
64	Decellularised baby spinach leaves and their potential use in tissue engineering applications: Studying and promoting neovascularisation. *Journal of Biomaterials Applications*, **2019**, 34, 546-559	2.9	18
63	Cellular and hormonal regulation of pigmentation in human ocular melanocytes. *Pigment Cell & Melanoma Research*, **2001**, 14, 298-309		18
62	Translocation of flexible polymersomes across pores at the nanoscale. *Biomaterials Science*, **2014**, 2, 680-92	7.4	17
61	Gadolinium contrast agent associated stimulation of human fibroblast collagen production. *Investigative Radiology*, **2011**, 46, 711-7	10.1	17

60	Peptides from Tetraspanin CD9 Are Potent Inhibitors of Staphylococcus Aureus Adherence to Keratinocytes. *PLoS ONE*, **2016**, 11, e0160387	3.7	17
59	Arginine functionalization of hydrogels for heparin binding--a supramolecular approach to developing a pro-angiogenic biomaterial. *Biotechnology and Bioengineering*, **2013**, 110, 296-317	4.9	16
58	Triethyl orthoformate covalently cross-linked chitosan-(poly vinyl) alcohol based biodegradable scaffolds with heparin-binding ability for promoting neovascularisation. *Journal of Biomaterials Applications*, **2016**, 31, 582-593	2.9	16
57	Addition of 2-deoxy-d-ribose to clinically used alginate dressings stimulates angiogenesis and accelerates wound healing in diabetic rats. *Journal of Biomaterials Applications*, **2019**, 34, 463-475	2.9	15
56	An Improved Methodology to Visualise Tumour Induced Changes in Vasculature Using the Chick Chorionic Allantoic Membrane Assay. *In Vivo*, **2018**, 32, 461-472	2.3	15
55	Combination of microstereolithography and electrospinning to produce membranes equipped with niches for corneal regeneration. *Journal of Visualized Experiments*, **2014**, 51826	1.6	14
54	Application of Tissue Engineering to Pelvic Organ Prolapse and Stress Urinary Incontinence. *LUTS: Lower Urinary Tract Symptoms*, **2015**, 7, 63-70	1.9	14
53	Multifunctional Copper-Containing Mesoporous Glass Nanoparticles as Antibacterial and Proangiogenic Agents for Chronic Wounds. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 246	5.8	14
52	Bioengineering Vascular Networks to Study Angiogenesis and Vascularization of Physiologically Relevant Tissue Models. *ACS Biomaterials Science and Engineering*, **2020**, 6, 3513-3528	5.5	13
51	Assessment of the Angiogenic Potential of 2-Deoxy-D-Ribose Using a Novel 3D Dynamic Model in Comparison With Established Assays. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 451	5.8	13
50	Developing Repair Materials for Stress Urinary Incontinence to Withstand Dynamic Distension. *PLoS ONE*, **2016**, 11, e0149971	3.7	13
49	Controlled peel testing of a model tissue for diseased aorta. *Journal of Biomechanics*, **2016**, 49, 3667-3675	2.9	13
48	A simple rocker-induced mechanical stimulus upregulates mineralization by human osteoprogenitor cells in fibrous scaffolds. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 370-381	4.4	12
47	Antimicrobial Graft Copolymer Gels. *Biomacromolecules*, **2016**, 17, 2710-8	6.9	12
46	Recent advances in pelvic floor repair. *F1000Research*, **2019**, 8,	3.6	12
45	Bioengineered airway epithelial grafts with mucociliary function based on collagen IV- and laminin-containing extracellular matrix scaffolds. *European Respiratory Journal*, **2020**, 55,	13.6	12
44	Pre-Seeding of Simple Electrospun Scaffolds with a Combination of Endothelial Cells and Fibroblasts Strongly Promotes Angiogenesis. *Tissue Engineering and Regenerative Medicine*, **2020**, 17, 445-458	4.5	12
43	Amine functional hydrogels as selective substrates for corneal epithelialization. *Acta Biomaterialia*, **2014**, 10, 3029-37	10.8	11

42	Creating a model of diseased artery damage and failure from healthy porcine aorta. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 60, 378-393	4.1	10
41	Synthetic biodegradable alternatives to the use of the amniotic membrane for corneal regeneration: assessment of local and systemic toxicity in rabbits. *British Journal of Ophthalmology*, **2019**, 103, 286-292	5.5	10
40	Regenerative medicine and injection therapies in stress urinary incontinence. *Nature Reviews Urology*, **2020**, 17, 151-161	5.5	9
39	Raman spectroscopy detects melanoma and the tissue surrounding melanoma using tissue-engineered melanoma models. *Applied Spectroscopy Reviews*, **2016**, 51, 243-257	4.5	9
38	Use of a simple in vitro fatigue test to assess materials used in the surgical treatment of stress urinary incontinence and pelvic organ prolapse. *Neurourology and Urodynamics*, **2019**, 38, 107-115	2.3	9
37	Highly-branched poly(N-isopropyl acrylamide) functionalised with pendant Nile red and chain end vancomycin for the detection of Gram-positive bacteria. *Acta Biomaterialia*, **2019**, 87, 197-206	10.8	8
36	2-deoxy-d-ribose (2dDR) upregulates vascular endothelial growth factor (VEGF) and stimulates angiogenesis. *Microvascular Research*, **2020**, 131, 104035	3.7	8
35	Characterization of Ocular Clinical Isolates of from Non-Contact Lens Related Keratitis Patients from South India. *Microorganisms*, **2020**, 8,	4.9	7
34	Use of a Tissue Engineered Human Skin Model to Investigate the Effects of Wounding and of an Anti-Inflammatory on Melanoma Cell Invasion. *PLoS ONE*, **2016**, 11, e0156931	3.7	7
33	The effect of ascorbic acid and fluid flow stimulation on the mechanical properties of a tissue engineered pelvic floor repair material. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2014**, 228, 867-75	1.7	6
32	Designing new synthetic materials for use in the pelvic floor: what is the problem with the existing polypropylene materials?. *Current Opinion in Urology*, **2019**, 29, 407-413	2.8	6
31	Establishing a Porcine Ex Vivo Cornea Model for Studying Drug Treatments against Bacterial Keratitis. *Journal of Visualized Experiments*, **2020**,	1.6	5
30	Hydrophobicity-Modulated Small Antibacterial Molecule Eradicates Biofilm with Potent Efficacy against Skin Infections. *ACS Infectious Diseases*, **2020**, 6, 703-714	5.5	5
29	Second Harmonic Generation microscopy reveals collagen fibres are more organised in the cervix of postmenopausal women. *Reproductive Biology and Endocrinology*, **2016**, 14, 70	5	5
28	Ceric Ammonium Nitrate Initiated Grafting of PEG to Plasma Polymers for Cell-Resistant Surfaces. *Plasma Processes and Polymers*, **2008**, 5, 192-201	3.4	5
27	Economic, clinical and social impact of simple limbal epithelial transplantation for limbal stem cell deficiency. *British Journal of Ophthalmology*, **2021**,	5.5	5
26	Developing affordable and accessible pro-angiogenic wound dressings; incorporation of 2 deoxy D-ribose (2dDR) into cotton fibres and wax-coated cotton fibres. *Journal of Tissue Engineering and Regenerative Medicine*, **2020**, 14, 973-988	4.4	4
25	Repairing the female pelvic floor: when good enough is not good enough. *Nature Reviews Urology*, **2018**, 15, 197-198	5.5	4

24	Sprouting Angiogenesis: A Numerical Approach with Experimental Validation. *Annals of Biomedical Engineering*, **2021**, 49, 871-884	4.7	4
23	Developing improved tissue-engineered buccal mucosa grafts for urethral reconstruction. *Canadian Urological Association Journal*, **2018**, 12, E234-E242	1.2	4
22	An estradiol releasing, proangiogenic hydrogel as a candidate material for use in soft tissue interposition. *Neurourology and Urodynamics*, **2019**, 38, 1195-1202	2.3	3
21	Modulation of the Early Host Response to Electrospun Polylactic Acid Matrices by Mesenchymal Stem Cells from the Amniotic Fluid. *European Journal of Pediatric Surgery*, **2018**, 28, 285-292	1.9	3
20	Production, Characterization and Potential Uses of a 3D Tissue-engineered Human Esophageal Mucosal Model. *Journal of Visualized Experiments*, **2015**, e52693	1.6	3
19	Thiolene- and Polycaprolactone Methacrylate-Based Polymerized High Internal Phase Emulsion (PolyHIPE) Scaffolds for Tissue Engineering. *Biomacromolecules*, **2021**,	6.9	3
18	Fabrication of Topographically Controlled Electrospun Scaffolds to Mimic the Stem Cell Microenvironment in the Dermal-Epidermal Junction. *ACS Biomaterials Science and Engineering*, **2021**, 7, 2803-2813	5.5	3
17	Improving the biocompatibility of biomaterial constructs and constructs delivering cells for the pelvic floor. *Current Opinion in Urology*, **2019**, 29, 419-425	2.8	3
16	The use of implanted materials for treating women with pelvic organ prolapse and stress urinary incontinence. *Current Opinion in Urology*, **2019**, 29, 431-436	2.8	3
15	Simulation of the process of angiogenesis: Quantification and assessment of vascular patterning in the chicken chorioallantoic membrane. *Computers in Biology and Medicine*, **2021**, 136, 104647	7	3
14	Developing a synthetic composite membrane for cleft palate repair. *Journal of Tissue Engineering and Regenerative Medicine*, **2019**, 13, 1178-1189	4.4	2
13	Identification of a fibrin concentration that promotes skin cell outgrowth from skin explants onto a synthetic dermal substitute. *JPRAS Open*, **2020**, 25, 8-17	1.2	2
12	Mesh social networking: a patient-driven process. *BJU International*, **2012**, 109, E45-6; author reply E46	5.6	2
11	Semicontinuous Emulsion Polymerization of Butyl Methacrylate and 1, 3-Butadiene in the Presence of Cyclodextrins and Cytocompatibility of Dicarboxylic Acid Telechelic Oligo(butyl Methacrylate)s Derived from Ozonolysis of the Latexes. *Macromolecular Chemistry and Physics*, **2011**, 212, 2043-2051	2.6	2
10	A novel characterisation approach to reveal the mechano-chemical effects of oxidation and dynamic distension on polypropylene surgical mesh.. *RSC Advances*, **2021**, 11, 34710-34723	3.7	2
9	The Use of Microfabrication Techniques for the Design and Manufacture of Artificial Stem Cell Microenvironments for Tissue Regeneration. *Bioengineering*, **2021**, 8,	5.3	2
8	Tissue engineering for the pelvic floor. *Current Opinion in Urology*, **2019**, 29, 426-430	2.8	2
7	Synthetic Materials Used in the Surgical Treatment of Pelvic Organ Prolapse: Problems of Currently Used Material and Designing the Ideal Material **2018**,		2

6	Decellularised extracellular matrix decorated PCL PolyHIPE scaffolds for enhanced cellular activity, integration and angiogenesis. *Biomaterials Science*, **2021**, 9, 7297-7310	7.4	2
5	Branched amphotericin functional poly(-propyl acrylamide): an antifungal polymer. *Royal Society Open Science*, **2021**, 8, 201655	3.3	2
4	Spatiotemporal release of VEGF from biodegradable polylactic-co-glycolic acid microspheres induces angiogenesis in chick chorionic allantoic membrane assay. *International Journal of Pharmaceutics*, **2019**, 561, 236-243	6.5	1
3	Proof-of-concept study of electrospun PLGA membrane in the treatment of limbal stem cell deficiency. *BMJ Open Ophthalmology*, **2021**, 6, e000762	3.2	1
2	Delivery of Bioactive Compounds to Improve Skin Cell Responses on Microfabricated Electrospun Microenvironments. *Bioengineering*, **2021**, 8,	5.3	1
1	Tissue Engineered Skin Comes of Age? **2008**, 593-618		