Cedryck Vaquette

List of Publications by Year
in descending order

77 papers	3,382 citations	147801 31 h-index	149698 56 g-index
79 all docs	79 docs citations	79 times ranked	4249 citing authors

#	Article	IF	Citations
1	Increasing electrospun scaffold pore size with tailored collectors for improved cell penetration. Acta Biomaterialia, 2011, 7, 2544-2557.	8.3	219
2	Electrospinning and additive manufacturing: converging technologies. Biomaterials Science, 2013, 1, 171-185.	5.4	207
3	A biphasic scaffold design combined with cell sheet technology for simultaneous regeneration of alveolar bone/periodontal ligament complex. Biomaterials, 2012, 33, 5560-5573.	11.4	199
4	Advanced tissue engineering scaffold design for regeneration of the complex hierarchical periodontal structure. Journal of Clinical Periodontology, 2014, 41, 283-294.	4.9	179
5	Design and Fabrication of Tubular Scaffolds via Direct Writing in a Melt Electrospinning Mode. Biointerphases, 2012, 7, 13.	1.6	176
6	Effect of culture conditions and calcium phosphate coating on ectopic bone formation. Biomaterials, 2013, 34, 5538-5551.	11.4	138
7	Neurological heterotopic ossification following spinal cord injury is triggered by macrophageâ€mediated inflammation in muscle. Journal of Pathology, 2015, 236, 229-240.	4.5	131
8	The influence of cellular source on periodontal regeneration using calcium phosphate coated polycaprolactone scaffold supported cell sheets. Biomaterials, 2014, 35, 113-122.	11.4	123
9	Tissue Engineered Constructs for Periodontal Regeneration: Current Status and Future Perspectives. Advanced Healthcare Materials, 2018, 7, e1800457.	7.6	96
10	Engineering a humanized bone organ model in mice to study bone metastases. Nature Protocols, 2017, 12, 639-663.	12.0	91
11	Additive Biomanufacturing: An Advanced Approach for Periodontal Tissue Regeneration. Annals of Biomedical Engineering, 2017, 45, 12-22.	2.5	87
12	Perspectives in Multiphasic Osteochondral Tissue Engineering. Anatomical Record, 2014, 297, 26-35.	1.4	81
13	The effect of polystyrene sodium sulfonate grafting on polyethylene terephthalate artificial ligaments on inÂvitro mineralisation and inÂvivo bone tissue integration. Biomaterials, 2013, 34, 7048-7063.	11.4	72
14	Electrospinning and crosslinking of low-molecular-weight poly(trimethylene carbonate-co-l-lactide) as an elastomeric scaffold for vascular engineering. Acta Biomaterialia, 2013, 9, 6885-6897.	8.3	71
15	Optimization of 3D bioprinting of periodontal ligament cells. Dental Materials, 2019, 35, 1683-1694.	3.5	71
16	A simple method for fabricating 3-D multilayered composite scaffolds. Acta Biomaterialia, 2013, 9, 4599-4608.	8.3	67
17	Antimicrobial and Immunomodulatory Surfaceâ€Functionalized Electrospun Membranes for Bone Regeneration. Advanced Healthcare Materials, 2017, 6, 1601345.	7.6	66
18	Cross-Linked Poly(trimethylene carbonate-<i>co</i>-<scp>l</scp>-lactide) as a Biodegradable, Elastomeric Scaffold for Vascular Engineering Applications. Biomacromolecules, 2011, 12, 3856-3869.	5.4	61

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19	Aligned poly(<scp>L</scp>â€•lacticâ€•<i>co</i>â€•εâ€•caprolactone) electrospun microfibers and knitted structure: A novel composite scaffold for ligament tissue engineering. Journal of Biomedical Materials Research - Part A, 2010, 94A, 1270-1282.	4.0	59
20	Multiphasic construct studied in an ectopic osteochondral defect model. Journal of the Royal Society Interface, 2014, 11, 20140184.	3.4	56
21	Additively manufactured biphasic construct loaded with BMP-2 for vertical bone regeneration: A pilot study in rabbit. Materials Science and Engineering C, 2018, 92, 554-564.	7.3	55
22	The influence of anisotropic nano- to micro-topography on <i>in vitro</i> and <i>in vivo</i> osteogenesis. Nanomedicine, 2015, 10, 693-711.	3.3	52
23	Biofabrication of customized bone grafts by combination of additive manufacturing and bioreactor knowhow. Biofabrication, 2014, 6, 035006.	7.1	47
24	3â€•Dimensional functionalized polycaprolactoneâ€•hyaluronic acid hydrogel constructs for bone tissue engineering. Journal of Clinical Periodontology, 2017, 44, 428-437.	4.9	47
25	An innovative method to obtain porous PLLA scaffolds with highly spherical and interconnected pores. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 86B, 9-17.	3.4	43
26	Patientâ€•Specific Bone Particles Bioprinting for Bone Tissue Engineering. Advanced Healthcare Materials, 2020, 9, e2001323.	7.6	42
27	The effect of decellularized tissue engineered constructs on periodontal regeneration. Journal of Clinical Periodontology, 2018, 45, 586-596.	4.9	40
28	Surface Modification of 3D Printed Polycaprolactone Constructs via a Solvent Treatment: Impact on Physical and Osteogenic Properties. ACS Biomaterials Science and Engineering, 2019, 5, 318-328.	5.2	38
29	Suitability of a PLCL fibrous scaffold for soft tissue engineering applications: A combined biological and mechanical characterisation. Journal of Biomaterials Applications, 2018, 32, 1276-1288.	2.4	36
30	A Poly(lactic-co-glycolic acid) Knitted Scaffold for Tendon Tissue Engineering: An In Vitro and In Vivo Study. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 1737-1760.	3.5	35
31	The effect of melt electrospun writing fiber orientation onto cellular organization and mechanical properties for application in Anterior Cruciate Ligament tissue engineering. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103631.	3.1	35
32	Additively Manufactured Multiphasic Boneâ€“Ligamentâ€“Bone Scaffold for Scapholunate Interosseous Ligament Reconstruction. Advanced Healthcare Materials, 2019, 8, e1900133.	7.6	32
33	Fibre guiding scaffolds for periodontal tissue engineering. Journal of Periodontal Research, 2020, 55, 331-341.	2.7	29
34	Workflow for highly porous resorbable custom 3D printed scaffolds using medical grade polymer for large volume alveolar bone regeneration. Clinical Oral Implants Research, 2020, 31, 431-441.	4.5	29
35	Systematic Comparison of the Effect of Four Clinical-Grade Platelet Rich Hemoderivatives on Osteoblast Behaviour. International Journal of Molecular Sciences, 2019, 20, 6243.	4.1	28
36	Assessment of static and perfusion methods for decellularization of PCL membrane-supported periodontal ligament cell sheet constructs. Archives of Oral Biology, 2018, 88, 67-76.	1.8	27

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37	Comparison of early osseointegration of SLA^{Â®} and SLActive^{Â®} implants in maxillary sinus augmentation: a pilot study. Clinical Oral Implants Research, 2017, 28, 1325-1333.	4.5	25
38	A histomorphometric assessment of collagenâ€stabilized anorganic bovine bone mineral in maxillary sinus augmentation â€“ a prospective clinical trial. Clinical Oral Implants Research, 2016, 27, 850-858.	4.5	24
39	Layered Antimicrobial Selenium Nanoparticleâ€“Calcium Phosphate Coating on 3D Printed Scaffolds Enhanced Bone Formation in Critical Size Defects. ACS Applied Materials & Interfaces, 2020, 12, 55638-55648.	8.0	24
40	Multiscale porosity in mesoporous bioglass 3D-printed scaffolds for bone regeneration. Materials Science and Engineering C, 2021, 120, 111706.	7.3	24
41	Via precise interface engineering towards bioinspired composites with improved 3D printing processability and mechanical properties. Journal of Materials Chemistry B, 2017, 5, 5037-5047.	5.8	23
42	The use of an electrostatic lens to enhance the efficiency of the electrospinning process. Cell and Tissue Research, 2012, 347, 815-826.	2.9	21
43	Porous 3D Printed Scaffolds For Guided Bone Regeneration In a Rat Calvarial Defect Model. Applied Materials Today, 2020, 20, 100706.	4.3	21
44	Additively Manufactured Device for Dynamic Culture of Large Arrays of 3D Tissue Engineered Constructs. Advanced Healthcare Materials, 2015, 4, 864-873.	7.6	20
45	Tissue Engineering in Hand Surgery: AÂTechnology Update. Journal of Hand Surgery, 2017, 42, 727-735.	1.6	20
46	Combining electrospinning and cell sheet technology for the development of a multiscale tissue engineered ligament construct (TELC). Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 399-409.	3.4	20
47	A histomorphometric assessment of collagenâ€stabilized anorganic bovine bone mineral in maxillary sinus augmentation â€“ a randomized controlled trial in sheep. Clinical Oral Implants Research, 2016, 27, 734-743.	4.5	19
48	The effect of biomimetic mineralization of 3D-printed mesoporous bioglass scaffolds on physical properties and in vitro osteogenicity. Materials Science and Engineering C, 2020, 109, 110572.	7.3	19
49	Zeta-potential and morphology of electrospun nano- and microfibers from biopolymers and their blends used as scaffolds in tissue engineering. Mendeleev Communications, 2008, 18, 38-41.	1.6	18
50	A comprehensive comparison of cell seeding methods using highly porous melt electrowriting scaffolds. Materials Science and Engineering C, 2020, 117, 111282.	7.3	16
51	Combination of BMP2 and EZH2 Inhibition to Stimulate Osteogenesis in a 3D Bone Reconstruction Model. Tissue Engineering - Part A, 2021, 27, 1084-1098.	3.1	16
52	Interleukin-1 Is Overexpressed in Injured Muscles Following Spinal Cord Injury and Promotes Neurogenic Heterotopic Ossification. Journal of Bone and Mineral Research, 2020, 37, 531-546.	2.8	16
53	Towards a Tissue-Engineered Ligament: Design and Preliminary Evaluation of a Dedicated Multi-Chamber Tension-Torsion Bioreactor. Processes, 2014, 2, 167-179.	2.8	15
54	Neurogenic Heterotopic Ossifications Develop Independently of Granulocyte Colonyâ€Stimulating Factor and Neutrophils. Journal of Bone and Mineral Research, 2020, 35, 2242-2251.	2.8	15

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55	Mechanical and Biological characterization of A Porous Polyâ€<scp>L</scp>â€Lactic Acidâ€Coâ€Ïµâ€Caprolactone scaffold for Tissue Engineering. Soft Materials, 2008, 6, 25-33.	1.7	13
56	Local delivery of hydrogel encapsulated vascular endothelial growth factor for the prevention of medication-related osteonecrosis of the jaw. Scientific Reports, 2021, 11, 23371.	3.3	12
57	Recent Advances in Vertical Alveolar Bone Augmentation Using Additive Manufacturing Technologies. Frontiers in Bioengineering and Biotechnology, 2021, 9, 798393.	4.1	12
58	Fabrication and Characterization of Decellularized Periodontal Ligament Cell Sheet Constructs. Methods in Molecular Biology, 2017, 1537, 403-412.	0.9	11
59	The influence of highâ€dose systemic zoledronate administration on osseointegration of implants with different surface topography. Journal of Periodontal Research, 2019, 54, 633-643.	2.7	11
60	Multiphasic scaffold for scapholunate interosseous ligament reconstruction: A study in the rabbit knee. Journal of Orthopaedic Research, 2021, 39, 1811-1824.	2.3	11
61	Fibre-guiding biphasic scaffold for perpendicular periodontal ligament attachment. Acta Biomaterialia, 2022, 150, 221-237.	8.3	10
62	A novel bioreactor for ligament tissue engineering. Bio-Medical Materials and Engineering, 2008, 18, 283-287.	0.6	9
63	Enamel matrix derivative promotes new bone formation in xenograft assisted maxillary anterior ridge preservationâ€"A randomized controlled clinical trial. Clinical Oral Implants Research, 2021, 32, 732-744.	4.5	9
64	Effect of Dual Pore Size Architecture on In Vitro Osteogenic Differentiation in Additively Manufactured Hierarchical Scaffolds. ACS Biomaterials Science and Engineering, 2021, 7, 2615-2626.	5.2	9
65	The Mechanosensing and Global DNA Methylation of Human Osteoblasts on MEW Fibers. Nanomaterials, 2021, 11, 2943.	4.1	9
66	Iron accumulation is associated with periodontal destruction in a mouse model of HFEâ€related haemochromatosis. Journal of Periodontal Research, 2022, 57, 294-304.	2.7	8
67	The utilisation of resolvins in medicine and tissue engineering. Acta Biomaterialia, 2022, 140, 116-135.	8.3	7
68	Blocking neuromuscular junctions with botulinum toxin A injection enhances neurological heterotopic ossification development after spinal cord injury in mice. Annals of Physical and Rehabilitation Medicine, 2019, 62, 189-192.	2.3	6
69	Evaluation of surface layer stability of surface-modified polyester biomaterials. Biointerphases, 2020, 15, 061010.	1.6	6
70	Finite element analysis of the performance of additively manufactured scaffolds for scapholunate ligament reconstruction. PLoS ONE, 2021, 16, e0256528.	2.5	6
71	In vitro evaluation of porous poly(hydroxybutyrate-co-hydroxyvalerate)/akermanite composite scaffolds manufactured using selective laser sintering. , 2022, 135, 212748.		6
72	Fibroblastic differentiation of mesenchymal stem/stromal cells (MSCs) is enhanced by hypoxia in 3D cultures treated with bone morphogenetic protein 6 (BMP6) and growth and differentiation factor 5 (GDF5). Gene, 2021, 788, 145662.	2.2	3

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73	Lymphocytes Are Not Required for Neurogenic Heterotopic Ossification Development after Spinal Cord Injury. Neurotrauma Reports, 2022, 3, 87-96.	1.4	2
74	Scaffolds for engineering toothâ€"ligament interfaces. , 2019, , 595-613.		1
75	Current Developments in 3D Printing for Craniofacial Regeneration. Current Oral Health Reports, 2016, 3, 319-327.	1.6	0
76	Additively Manufactured Multiphasic Bone-Ligament-Bone Scaffold for Scapholunate Interosseous Ligament Reconstruction. SSRN Electronic Journal, 0, , .	0.4	0
77	Electrospinning for Regenerative Medicine. , 2013, , 539-592.		0