Rui M A Domingues

List of Publications by Citations

54 papers	1,788 citations	25 h-index	42 g-index
56 ext. papers	2,195 ext. citations	7.7 avg, IF	5.12 L-index

#	Paper	IF	Citations
54	The potential of cellulose nanocrystals in tissue engineering strategies. *Biomacromolecules*, **2014**, 15, 2327-46	6.9	344
53	Development of Injectable Hyaluronic Acid/Cellulose Nanocrystals Bionanocomposite Hydrogels for Tissue Engineering Applications. *Bioconjugate Chemistry*, **2015**, 26, 1571-81	6.3	138
52	Tissue Engineering and Regenerative Medicine: New Trends and Directions-A Year in Review. *Tissue Engineering - Part B: Reviews*, **2017**, 23, 211-224	7.9	106
51	3D Mimicry of Native-Tissue-Fiber Architecture Guides Tendon-Derived Cells and Adipose Stem Cells into Artificial Tendon Constructs. *Small*, **2017**, 13, 1700689	11	74
50	Enhancing the Biomechanical Performance of Anisotropic Nanofibrous Scaffolds in Tendon Tissue Engineering: Reinforcement with Cellulose Nanocrystals. *Advanced Healthcare Materials*, **2016**, 5, 1364-75	10.1	72
49	Eucalyptus globulus biomass residues from pulping industry as a source of high value triterpenic compounds. *Industrial Crops and Products*, **2010**, 31, 65-70	5.9	68
48	Injectable and tunable hyaluronic acid hydrogels releasing chemotactic and angiogenic growth factors for endodontic regeneration. *Acta Biomaterialia*, **2018**, 77, 155-171	10.8	66
47	High value triterpenic compounds from the outer barks of several Eucalyptus species cultivated in Brazil and in Portugal. *Industrial Crops and Products*, **2011**, 33, 158-164	5.9	65
46	Optimization of the supercritical fluid extraction of triterpenic acids from Eucalyptus globulus bark using experimental design. *Journal of Supercritical Fluids*, **2013**, 74, 105-114	4.2	58
45	Multifunctional magnetic-responsive hydrogels to engineer tendon-to-bone interface. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 2375-2385	6	49
44	Bioactive Triterpenic Acids: From Agroforestry Biomass Residues to Promising Therapeutic Tools. *Mini-Reviews in Organic Chemistry*, **2014**, 11, 382-399	1.7	43
43	Supercritical fluid extraction of Eucalyptus globulus bark-A promising approach for triterpenoid production. *International Journal of Molecular Sciences*, **2012**, 13, 7648-62	6.3	42
42	Miscanthus x giganteus extractives: a source of valuable phenolic compounds and sterols. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 3626-31	5.7	41
41	Magneto-mechanical actuation of magnetic responsive fibrous scaffolds boosts tenogenesis of human adipose stem cells. *Nanoscale*, **2019**, 11, 18255-18271	7.7	38
40	Blood derivatives awaken in regenerative medicine strategies to modulate wound healing. *Advanced Drug Delivery Reviews*, **2018**, 129, 376-393	18.5	38
39	Injectable and Magnetic Responsive Hydrogels with Bioinspired Ordered Structures. *ACS Biomaterials Science and Engineering*, **2019**, 5, 1392-1404	5.5	34
38	Magnetic Nanocomposite Hydrogels for Tissue Engineering: Design Concepts and Remote Actuation Strategies to Control Cell Fate. *ACS Nano*, **2021**, 15, 175-209	16.7	34

37	Human platelet lysate-based nanocomposite bioink for bioprinting hierarchical fibrillar structures. *Biofabrication*, **2019**, 12, 015012	10.5	32
36	Lipophilic extractives from the bark of Eucalyptus grandis x globulus, a rich source of methyl morolate: Selective extraction with supercritical CO2. *Industrial Crops and Products*, **2013**, 43, 340-348	5.9	30
35	Scale-up studies of the supercritical fluid extraction of triterpenic acids from Eucalyptus globulus bark. *Journal of Supercritical Fluids*, **2014**, 95, 44-50	4.2	28
34	Human-based fibrillar nanocomposite hydrogels as bioinstructive matrices to tune stem cell behavior. *Nanoscale*, **2018**, 10, 17388-17401	7.7	28
33	Measurement and modeling of supercritical fluid extraction curves of Eucalyptus globulus bark: Influence of the operating conditions upon yields and extract composition. *Journal of Supercritical Fluids*, **2012**, 72, 176-185	4.2	27
32	Biphasic Hydrogels Integrating Mineralized and Anisotropic Features for Interfacial Tissue Engineering. *ACS Applied Materials & Interfaces*, **2019**, 11, 47771-47784	9.5	27
31	Biomaterials for Sequestration of Growth Factors and Modulation of Cell Behavior. *Advanced Functional Materials*, **2020**, 30, 1909011	15.6	26
30	Development of Inhalable Superparamagnetic Iron Oxide Nanoparticles (SPIONs) in Microparticulate System for Antituberculosis Drug Delivery. *Advanced Healthcare Materials*, **2018**, 7, e1800124	10.1	25
29	Tropoelastin-Coated Tendon Biomimetic Scaffolds Promote Stem Cell Tenogenic Commitment and Deposition of Elastin-Rich Matrix. *ACS Applied Materials & Interfaces*, **2019**, 11, 19830-19840	9.5	23
28	Natural-Based Hydrogels for Tissue Engineering Applications. *Molecules*, **2020**, 25,	4.8	22
27	Secondary metabolites from Eucalyptus grandis wood cultivated in Portugal, Brazil and South Africa. *Industrial Crops and Products*, **2017**, 95, 357-364	5.9	21
26	Cell-laden composite suture threads for repairing damaged tendons. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 1039-1048	4.4	20
25	Extraction and Purification of Triterpenoids using Supercritical Fluids: From Lab to Exploitation. *Mini-Reviews in Organic Chemistry*, **2014**, 11, 362-381	1.7	16
24	Exploring inhalable polymeric dry powders for anti-tuberculosis drug delivery. *Materials Science and Engineering C*, **2018**, 93, 1090-1103	8.3	15
23	Intrinsically Bioactive Cryogels Based on Platelet Lysate Nanocomposites for Hemostasis Applications. *Biomacromolecules*, **2020**, 21, 3678-3692	6.9	13
22	Injectable Hyaluronic Acid Hydrogels Enriched with Platelet Lysate as a Cryostable Off-the-Shelf System for Cell-Based Therapies. *Regenerative Engineering and Translational Medicine*, **2017**, 3, 53-69	2.4	12
21	Biomaterials as Tendon and Ligament Substitutes: Current Developments. *Studies in Mechanobiology, Tissue Engineering and Biomaterials*, **2017**, 349-371	0.5	12
20	Engineering next-generation bioinks with nanoparticles: moving from reinforcement fillers to multifunctional nanoelements. *Journal of Materials Chemistry B*, **2021**, 9, 5025-5038	7.3	12

19	Exploring platelet lysate hydrogel-coated suture threads as biofunctional composite living fibers for cell delivery in tissue repair. *Biomedical Materials (Bristol)*, **2019**, 14, 034104	3.5	11
18	Injectable hyaluronic acid and platelet lysate-derived granular hydrogels for biomedical applications. *Acta Biomaterialia*, **2021**, 119, 101-113	10.8	11
17	Epitope-Imprinted Nanoparticles as Transforming Growth Factor-β Sequestering Ligands to Modulate Stem Cell Fate. *Advanced Functional Materials*, **2021**, 31, 2003934	15.6	10
16	Engineering magnetically responsive tropoelastin spongy-like hydrogels for soft tissue regeneration. *Journal of Materials Chemistry B*, **2018**, 6, 1066-1075	7.3	9
15	Human Platelet Lysate-Loaded Poly(ethylene glycol) Hydrogels Induce Stem Cell Chemotaxis. *Biomacromolecules*, **2021**, 22, 3486-3496	6.9	6
14	3D Bioprinting of Miniaturized Tissues Embedded in Self-Assembled Nanoparticle-Based Fibrillar Platforms. *Advanced Functional Materials*,2104245	15.6	6
13	Cellulose nanocrystals of variable sulfation degrees can sequester specific platelet lysate-derived biomolecules to modulate stem cell response. *Chemical Communications*, **2020**, 56, 6882-6885	5.8	5
12	Fabrication of Hierarchical and Biomimetic Fibrous Structures to Support the Regeneration of Tendon Tissues **2015**, 259-280		5
11	Catalytic activity of tetravalent metal phosphates and phosphonates on the oxidation of (+)-3-carene. *Applied Catalysis A: General*, **2009**, 353, 236-242	5.1	5
10	Bioengineered 3D living fibers as in vitro human tissue models of tendon physiology and pathology. *Advanced Healthcare Materials*,2102863	10.1	5
9	Epitope-imprinted polymers: Design principles of synthetic binding partners for natural biomacromolecules. *Science Advances*, **2021**, 7, eabi9884	14.3	4
8	Multifunctional Surfaces for Improving Soft Tissue Integration. *Advanced Healthcare Materials*, **2021**, 10, e2001985	10.1	4
7	The Tendon Microenvironment: Engineered In Vitro Models to Study Cellular Crosstalk.. *Advanced Drug Delivery Reviews*, **2022**, 114299	18.5	3
6	Tuneable cellulose nanocrystal and tropoelastin-laden hyaluronic acid hydrogels. *Journal of Biomaterials Applications*, **2019**, 34, 560-572	2.9	2
5	Texturing Hierarchical Tissues by Gradient Assembling of Microengineered Platelet-Lysates Activated Fibers.. *Advanced Healthcare Materials*, **2021**, e2102076	10.1	1
4	Multiscale Multifactorial Approaches for Engineering Tendon Substitutes **2020**, 1-24		
3	Natural Materials **2020**, 361-375		
2	Future Directions: What the Future Holds for TERM **2019**, 1-1		

List of Publications

1 Multiscale Multifactorial Approaches for Engineering Tendon Substitutes. *Reference Series in Biomedical Engineering*, **2021**, 507-530