

Rui L Reis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

1,417
papers

56,894
citations

109
h-index

176
g-index

1,491
ext. papers

64,121
ext. citations

6.5
avg, IF

8.25
L-index

#	Paper	IF	Citations
1417	Kefiran in Tissue Engineering and Regenerative Medicine 2022 , 975-995		
1416	Sulfated Seaweed Polysaccharides 2022 , 307-340		
1415	Microfluidic platforms for extracellular vesicle isolation, analysis and therapy in cancer.. <i>Lab on A Chip</i> , 2022 ,	7	1
1414	Chitin and Its Derivatives 2022 , 205-228		
1413	Injectable Polymeric System Based on Polysaccharides for Therapy 2022 , 1045-1062		
1412	Polysaccharides in Cancer Therapy 2022 , 723-743		
1411	Glycosaminoglycans 2022 , 167-184		
1410	METTL3 promotes oxaliplatin resistance of gastric cancer CD133+ stem cells by promoting PARP1 mRNA stability.. <i>Cellular and Molecular Life Sciences</i> , 2022 , 79, 135	10	1
1409	Development and Characterization of Highly Stable Silver NanoParticles as Novel Potential Antimicrobial Agents for Wound Healing Hydrogels.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.1	1
1408	Challenges and opportunities on vegetable oils derived systems for biomedical applications.. <i>Materials Science and Engineering C</i> , 2022 , 112720	8.1	1
1407	Nanoparticles for neurotrophic factor delivery in nerve guidance conduits for peripheral nerve repair.. <i>Nanomedicine</i> , 2022 , 17, 477-494	5.4	0
1406	Histological Biomarkers and Protein Expression in Hyphessobrycon eques Fish Exposed to Atrazine. <i>Water, Air, and Soil Pollution</i> , 2022 , 233, 1	2.6	1
1405	Comparing deep eutectic solvents and cyclodextrin complexes as curcumin vehicles for blue-light antimicrobial photodynamic therapy approaches.. <i>Photochemical and Photobiological Sciences</i> , 2022 , 1	4.1	
1404	Multifunctional PA/FL Dual-mode Imaging Gold-based Theranostic Nanoformulation without External Laser Limitations.. <i>Advanced Materials</i> , 2022 , e2110690	23.6	1
1403	Osteogenic lithium-doped brushite cements for bone regeneration.. <i>Bioactive Materials</i> , 2022 , 16, 403-417.	17.2	0
1402	Erythrocyte-derived liposomes for the treatment of inflammatory diseases.. <i>Journal of Drug Targeting</i> , 2022 , 1-44	5.2	
1401	Pushing the Natural Frontier: Progress on the Integration of Biomaterial Cues towards Combinatorial Biofabrication and Tissue Engineering.. <i>Advanced Materials</i> , 2022 , e2105645	23.6	0

1400	Microfluidic-driven mixing of high molecular weight polymeric complexes for precise nanoparticle downsizing.. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022 , 102560	5.8	
1399	Diagnosis of Cartilage and Osteochondral Defect 2022 , 95-106		
1398	Natural polymeric biomaterials for tissue engineering 2022 , 75-110		
1397	Recent approaches towards bone tissue engineering. <i>Bone</i> , 2022 , 154, 116256	4.5	2
1396	Biocomposites and Bioceramics in Tissue Engineering: Beyond the Next Decade. <i>Springer Series in Biomaterials Science and Engineering</i> , 2022 , 319-350	0.6	
1395	Study of the immunologic response of marine-derived collagen and gelatin extracts for tissue engineering applications.. <i>Acta Biomaterialia</i> , 2022 ,	10.5	1
1394	Adhesive and biodegradable membranes made of sustainable catechol-functionalized marine collagen and chitosan.. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 213, 112409	5.8	1
1393	Marine origin biomaterials using a compressive and absorption methodology as cell-laden hydrogel envisaging cartilage tissue engineering 2022 , 212843		
1392	Injectable Hydrogels as a Stem Cell Delivery Platform for Wound Healing 2022 , 323-355		
1391	Hyaluronan-Based Hydrogels as Modulators of Cellular Behavior 2022 , 217-232		
1390	Supramolecular Assemblies for Cancer Diagnosis and Treatment 2022 , 161-194		
1389	Embedding Hydrogels into Microfluidic Chips: Vascular Transport Analyses and Drug Delivery Optimization 2022 , 275-294		
1388	Enzyme-Assisted Hydrogel Formation for Tissue Engineering Applications 2022 , 63-95		
1387	Hydrogel Fibers Produced via Microfluidics 2022 , 233-274		
1386	Supramolecular Assemblies of Glycopeptides as Mimics of the Extracellular Matrix 2022 , 149-159		
1385	Hierarchical Peptide- and Protein-Based Biomaterials: From Molecular Structure to Directed Self-assembly and Applications 2022 , 97-126		
1384	A Design of Experiments (DoE) Approach to Optimize Cryogel Manufacturing for Tissue Engineering Applications. <i>Polymers</i> , 2022 , 14, 2026	4.4	
1383	Biomimetic Antibacterial Pro-Osteogenic Cu-Sericin MOFs for Osteomyelitis Treatment. <i>Biomimetics</i> , 2022 , 7, 64	3.6	

1382	Highly elastic and bioactive bone biomimetic scaffolds based on platelet lysate and biomineralized cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2022 , 292, 119638	10.1	0
1381	A Novel Method for the Preparation of Poly (Acrylamide-co-Acrylonitrile) Upper Critical Solution Temperature Thermosensitive Hydrogel by the Partial Dehydration of Acrylamide Grafted Polypropylene Sheets. <i>Gels</i> , 2022 , 8, 345	4.1	0
1380	Thermosensitive chitosan/poly(N-isopropyl acrylamide) nanoparticles embedded in aniline pentamer/silk fibroin/polyacrylamide as an electroactive injectable hydrogel for healing critical-sized calvarial bone defect in aging rat model. <i>International Journal of Biological Macromolecules</i> , 2022 , 213, 352-368	7.7	
1379	Emerging Microfluidic and Biosensor Technologies for Improved Cancer Theranostics. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 461-495	3.4	
1378	Microfluidic-Driven Biofabrication and the Engineering of Cancer-Like Microenvironments. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 205-230	3.4	
1377	Biosensors Advances: Contributions to Cancer Diagnostics and Treatment. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 259-273	3.4	
1376	Coupling Micro-Physiological Systems and Biosensors for Improving Cancer Biomarkers Detection. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 307-318	3.4	
1375	The Tumor Microenvironment: An Introduction to the Development of Microfluidic Devices. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 115-138	3.4	
1374	Current Trends in Microfluidics and Biosensors for Cancer Research Applications. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 81-112	3.4	0
1373	Biomedical Applications of Fibers Produced by Electrospinning, Microfluidic Spinning and Combinations of Both 2022 , 251-295		
1372	Enzymatically crosslinked tyramine-gellan gum hydrogels as drug delivery system for rheumatoid arthritis treatment. <i>Drug Delivery and Translational Research</i> , 2021 , 11, 1288-1300	5.9	8
1371	Extracellular Matrix Mimics Using Hyaluronan-Based Biomaterials. <i>Trends in Biotechnology</i> , 2021 , 39, 90-104	14.8	27
1370	Common gene variants within 3'-untranslated regions as modulators of multiple myeloma risk and survival. <i>International Journal of Cancer</i> , 2021 , 148, 1887-1894	7.3	1
1369	In vitro temporal HIF-mediated deposition of osteochondrogenic matrix governed by hypoxia and osteogenic factors synergy. <i>Journal of Cellular Physiology</i> , 2021 , 236, 3991-4007	6.8	1
1368	Engineering Silk Fibroin-Based Nerve Conduit with Neurotrophic Factors for Proximal Protection after Peripheral Nerve Injury. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2000753	9.4	8
1367	Electrochemical and optical detection and machine learning applied to images of genosensors for diagnosis of prostate cancer with the biomarker PCA3. <i>Talanta</i> , 2021 , 222, 121444	6.1	20
1366	Platelet-Derived Products in Veterinary Medicine: A New Trend or an Effective Therapy?. <i>Trends in Biotechnology</i> , 2021 , 39, 225-243	14.8	6
1365	Prionace glauca skin collagen bioengineered constructs as a promising approach to trigger cartilage regeneration. <i>Materials Science and Engineering C</i> , 2021 , 120, 111587	8.1	7

1364	Epitope-Imprinted Nanoparticles as Transforming Growth Factor- β Sequestering Ligands to Modulate Stem Cell Fate. <i>Advanced Functional Materials</i> , 2021 , 31, 2003934	15.4	8
1363	Co-localization and crosstalk between CD44 and RHAMM depend on hyaluronan presentation. <i>Acta Biomaterialia</i> , 2021 , 119, 114-124	10.5	10
1362	3D-printed cryomilled poly(ϵ -caprolactone)/graphene composite scaffolds for bone tissue regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 961-972	3.3	7
1361	Development and characterisation of cytocompatible polyester substrates with tunable mechanical properties and degradation rate. <i>Acta Biomaterialia</i> , 2021 , 121, 303-315	10.5	2
1360	Advances in 3D neural, vascular and neurovascular models for drug testing and regenerative medicine. <i>Drug Discovery Today</i> , 2021 , 26, 754-768	8.4	3
1359	Adaptable hydrogel with reversible linkages for regenerative medicine: Dynamic mechanical microenvironment for cells. <i>Bioactive Materials</i> , 2021 , 6, 1375-1387	16.2	37
1358	Rescuing key native traits in cultured dermal papilla cells for human hair regeneration. <i>Journal of Advanced Research</i> , 2021 , 30, 103-112	12.3	3
1357	Microscopy-guided laser ablation for the creation of complex skin models with folliculoid appendages. <i>Bioengineering and Translational Medicine</i> , 2021 , 6, e10195	14.3	2
1356	Current nanotechnology advances in diagnostic biosensors. <i>Medical Devices & Sensors</i> , 2021 , 4, e10156	1.6	1
1355	Adaptive epigenetic response of glutathione (GSH)-related genes against lead (Pb)-induced toxicity, in individuals chronically exposed to the metal. <i>Chemosphere</i> , 2021 , 269, 128758	8.4	6
1354	Injectable hyaluronic acid and platelet lysate-derived granular hydrogels for biomedical applications. <i>Acta Biomaterialia</i> , 2021 , 119, 101-113	10.5	10
1353	Biofunctionalized Liposomes to Monitor Rheumatoid Arthritis Regression Stimulated by Interleukin-23 Neutralization. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001570	9.4	11
1352	3D hydrogel mimics of the tumor microenvironment: the interplay among hyaluronic acid, stem cells and cancer cells. <i>Biomaterials Science</i> , 2021 , 9, 252-260	7.2	6
1351	Multilayer platform to model the bioactivity of hyaluronic acid in gastric cancer. <i>Materials Science and Engineering C</i> , 2021 , 119, 111616	8.1	3
1350	A Graded, Porous Composite of Natural Biopolymers and Octacalcium Phosphate Guides Osteochondral Differentiation of Stem Cells. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001692	9.4	4
1349	Synthesis of mussel-inspired polydopamine-gallium nanoparticles for biomedical applications. <i>Nanomedicine</i> , 2021 , 16, 5-17	5.4	0
1348	Injectable Polymeric System Based on Polysaccharides for Therapy 2021 , 1-18		
1347	Macro and Microstructural Characteristics of North Atlantic Deep-Sea Sponges as Bioinspired Models for Tissue Engineering Scaffolding. <i>Frontiers in Marine Science</i> , 2021 , 7,	4.4	3

1346	In vitro vascularization of tissue engineered constructs by non-viral delivery of pro-angiogenic genes. <i>Biomaterials Science</i> , 2021 , 9, 2067-2081	7.2	1
1345	Interfollicular epidermal stem-like cells for the recreation of the hair follicle epithelial compartment. <i>Stem Cell Research and Therapy</i> , 2021 , 12, 62	8	3
1344	Modulation of inflammation by anti-TNF α Ab-dendrimer nanoparticles loaded in tyramine-modified gellan gum hydrogels in a cartilage-on-a-chip model. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 4211-4218	7.1	3
1343	Kefiran in Tissue Engineering and Regenerative Medicine 2021 , 1-21		
1342	Dendrimers in tissue engineering 2021 , 327-336		
1341	Innovative methodology for marine collagen α chitosan β ucoidan hydrogels production, tailoring rheological properties towards biomedical application. <i>Green Chemistry</i> , 2021 , 23, 7016-7029	9.9	5
1340	Fabrication of biocompatible porous SAIB/silk fibroin scaffolds using ionic liquids. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 6582-6591	7.7	1
1339	Engineering next-generation bioinks with nanoparticles: moving from reinforcement fillers to multifunctional nanoelements. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 5025-5038	7.1	7
1338	Untangling the bioactive properties of therapeutic deep eutectic solvents based on natural terpenes. <i>Current Research in Chemical Biology</i> , 2021 , 1, 100003		2
1337	Nonbiological Adjuncts for Ankle Stabilization 2021 , 357-363		
1336	Influence of natural deep eutectic systems in water thermal behavior and their applications in cryopreservation. <i>Journal of Molecular Liquids</i> , 2021 , 329, 115533	5.9	3
1335	Dermal papilla cells and melanocytes response to physiological oxygen levels depends on their interactions. <i>Cell Proliferation</i> , 2021 , 54, e13013	7.7	1
1334	Glutathione Reductase-Sensitive Polymeric Micelles for Controlled Drug Delivery on Arthritic Diseases. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3229-3241	5.3	3
1333	Potential strategies to prevent encrustations on urinary stents and catheters - thinking outside the box: a European network of multidisciplinary research to improve urinary stents (ENIUS) initiative. <i>Expert Review of Medical Devices</i> , 2021 , 18, 697-705	3.4	4
1332	adipoSIGHT in Therapeutic Response: Consequences in Osteosarcoma Treatment. <i>Bioengineering</i> , 2021 , 8,	5.1	2
1331	Fucoidan Hydrogels Significantly Alleviate Oxidative Stress and Enhance the Endocrine Function of Encapsulated Beta Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2011205	15.4	1
1330	3D flow-focusing microfluidic biofabrication: One-chip-fits-all hydrogel fiber architectures. <i>Applied Materials Today</i> , 2021 , 23, 101013	6.4	4
1329	Conotoxin loaded dextran microgel particles alleviate effects of spinal cord injury by inhibiting neuronal excitotoxicity. <i>Applied Materials Today</i> , 2021 , 23, 101064	6.4	1

1328	Clinicopathological and molecular characterization of Brazilian families at risk for Lynch syndrome. <i>Cancer Genetics</i> , 2021 , 254-255, 82-91	1.2	1
1327	Recapitulation of Thymic Function by Tissue Engineering Strategies. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100773	9.4	0
1326	3D-Printed Gelatin Methacrylate Scaffolds with Controlled Architecture and Stiffness Modulate the Fibroblast Phenotype towards Dermal Regeneration. <i>Polymers</i> , 2021 , 13,	4.4	4
1325	Reproduction of the Cancer Genome Atlas (TCGA) and Asian Cancer Research Group (ACRG) Gastric Cancer Molecular Classifications and Their Association with Clinicopathological Characteristics and Overall Survival in Moroccan Patients. <i>Disease Markers</i> , 2021 , 2021, 9980410	3.1	2
1324	Porous aligned ZnSr-doped β -TCP/silk fibroin scaffolds using ice-templating method for bone tissue engineering applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2021 , 32, 1966-1982	3.4	3
1323	Angiogenic potential of airbrushed fucoidan/polycaprolactone nanofibrous meshes. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 695-706	7.7	2
1322	Tumor-Associated Protrusion Fluctuations as a Signature of Cancer Invasiveness. <i>Advanced Biology</i> , 2021 , 5, e2101019		3
1321	Keratinocyte Growth Factor-Based Strategies for Wound Re-Epithelialization. <i>Tissue Engineering - Part B: Reviews</i> , 2021 ,	7.5	1
1320	Hyaluronic Acid Oligomer Immobilization as an Angiogenic Trigger for the Neovascularization of TE Constructs.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 6023-6035	4	0
1319	Hyaluronic acid hydrogels reinforced with laser spun bioactive glass micro- and nanofibres doped with lithium. <i>Materials Science and Engineering C</i> , 2021 , 126, 112124	8.1	1
1318	Decellularized kidney extracellular matrix bioinks recapitulate renal 3D microenvironment. <i>Biofabrication</i> , 2021 , 13,	10	3
1317	Cellular Uptake of Three Different Nanoparticles in an Inflammatory Arthritis Scenario versus Normal Conditions. <i>Molecular Pharmaceutics</i> , 2021 , 18, 3235-3246	5.4	1
1316	Wearable Collector for Noninvasive Sampling of SARS-CoV-2 from Exhaled Breath for Rapid Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41445-41453	9.4	6
1315	Development and Evaluation of Gellan Gum/Silk Fibroin/Chondroitin Sulfate Ternary Injectable Hydrogel for Cartilage Tissue Engineering. <i>Biomolecules</i> , 2021 , 11,	5.7	2
1314	Fishroosomes as carriers with antioxidant and anti-inflammatory bioactivities. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 140, 111680	7.2	0
1313	PARP1 Inhibitor Combined With Oxaliplatin Efficiently Suppresses Oxaliplatin Resistance in Gastric Cancer-Derived Organoids via Homologous Recombination and the Base Excision Repair Pathway. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 719192	5.4	
1312	Corrosion behavior of Mg wires for ureteral stent in artificial urine solution. <i>Corrosion Science</i> , 2021 , 189, 109567	6.7	6
1311	Fucoidan Hydrogels Significantly Alleviate Oxidative Stress and Enhance the Endocrine Function of Encapsulated Beta Cells (Adv. Funct. Mater. 35/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170255	15.4	

1310	Nonmulberry silk proteins: multipurpose ingredient in bio-functional assembly. <i>Biomedical Materials (Bristol)</i> , 2021 , 16,	3.3	3
1309	An Outlook on Implantable Biosensors for Personalized Medicine. <i>Engineering</i> , 2021 , 7, 1696-1696	9.3	0
1308	Methacrylated Gellan Gum/Poly-L-lysine Polyelectrolyte Complex Beads for Cell-Based Therapies. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4898-4913	5.3	1
1307	Marine-derived polymeric nanostructures for cancer treatment. <i>Nanomedicine</i> , 2021 , 16, 1931-1935	5.4	0
1306	PAMAM dendrimers functionalised with an anti-TNF antibody and chondroitin sulphate for treatment of rheumatoid arthritis. <i>Materials Science and Engineering C</i> , 2021 , 121, 111845	8.1	7
1305	Long-term preservation effects on biological properties of acellular placental sponge patches. <i>Materials Science and Engineering C</i> , 2021 , 121, 111814	8.1	0
1304	Multifunctional Surfaces for Improving Soft Tissue Integration. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001985	9.4	4
1303	Microsatellite Instability Analysis in Gastric Carcinomas of Moroccan Patients. <i>Genetic Testing and Molecular Biomarkers</i> , 2021 , 25, 116-123	1.5	1
1302	Vescalagin and Castalagin Present Bactericidal Activity toward Methicillin-Resistant Bacteria. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 1022-1030	5.3	1
1301	Liposomes embedded in layer by layer constructs as simplistic extracellular vesicles transfer model. <i>Materials Science and Engineering C</i> , 2021 , 121, 111813	8.1	5
1300	Horseradish Peroxidase-Crosslinked Calcium-Containing Silk Fibroin Hydrogels as Artificial Matrices for Bone Cancer Research. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000425	5.3	2
1299	Breast tumor-on-chip models: From disease modeling to personalized drug screening. <i>Journal of Controlled Release</i> , 2021 , 331, 103-120	11.4	5
1298	Impact of dietary phosphorus on turbot bone mineral density and content. <i>Aquaculture Nutrition</i> , 2021 , 27, 1128-1134	3.2	0
1297	Engineering 3D printed bioactive composite scaffolds based on the combination of aliphatic polyester and calcium phosphates for bone tissue regeneration. <i>Materials Science and Engineering C</i> , 2021 , 122, 111928	8.1	9
1296	Expression quantitative trait loci of genes predicting outcome are associated with survival of multiple myeloma patients. <i>International Journal of Cancer</i> , 2021 , 149, 327-336	7.3	1
1295	Glucosamine and Its Analogues as Modulators of Amyloid- β Toxicity. <i>ACS Medicinal Chemistry Letters</i> , 2021 , 12, 548-554	4.1	0
1294	Ion-doped Brushite Cements for Bone Regeneration. <i>Acta Biomaterialia</i> , 2021 , 123, 51-71	10.5	9
1293	Scaffold Fabrication Technologies and Structure/Function Properties in Bone Tissue Engineering. <i>Advanced Functional Materials</i> , 2021 , 31, 2010609	15.4	52

1292	Modulating inflammation through the neutralization of Interleukin-6 and tumor necrosis factor- β by biofunctionalized nanoparticles. <i>Journal of Controlled Release</i> , 2021 , 331, 491-502	11.4	4
1291	An Overview of the Antimicrobial Properties of Lignocellulosic Materials. <i>Molecules</i> , 2021 , 26,	4.7	4
1290	Physicochemical features assessment of acemannan-based ternary blended films for biomedical purposes. <i>Carbohydrate Polymers</i> , 2021 , 257, 117601	10.1	
1289	Genetically determined telomere length and multiple myeloma risk and outcome. <i>Blood Cancer Journal</i> , 2021 , 11, 74	6.7	2
1288	Vascularization Approaches in Tissue Engineering: Recent Developments on Evaluation Tests and Modulation.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 2941-2956	4	11
1287	Green Solvents Combined with Bioactive Compounds as Delivery Systems: Present Status and Future Trends.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 4000-4013	4	4
1286	Micropatterned Silk-Fibroin/Eumelanin Composite Films for Bioelectronic Applications. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2466-2474	5.3	4
1285	Diverse and Productive Source of Biopolymer Inspiration: Marine Collagens. <i>Biomacromolecules</i> , 2021 , 22, 1815-1834	6.7	5
1284	Synthesis and Characterization of Biocompatible Methacrylated Kefiran Hydrogels: Towards Tissue Engineering Applications. <i>Polymers</i> , 2021 , 13,	4.4	2
1283	Emerging biofabrication approaches for gastrointestinal organoids towards patient specific cancer models. <i>Cancer Letters</i> , 2021 , 504, 116-124	9.7	0
1282	Engineering Hydrogel-Based Biomedical Photonics: Design, Fabrication, and Applications. <i>Advanced Materials</i> , 2021 , 33, e2006582	23.6	11
1281	Engineering bioinks for 3D bioprinting. <i>Biofabrication</i> , 2021 , 13,	10	38
1280	Carbohydrate amphiphiles for supramolecular biomaterials: Design, self-assembly, and applications. <i>CheM</i> , 2021 ,	15.8	2
1279	Fucoidan/chitosan nanoparticles functionalized with anti-ErbB-2 target breast cancer cells and impair tumor growth in vivo. <i>International Journal of Pharmaceutics</i> , 2021 , 600, 120548	6.3	5
1278	Influence of the Molecular Orientation and Ionization of Self-Assembled Monolayers in Biosensors: Application to Genosensors of Prostate Cancer Antigen 3. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 498-506	3.7	5
1277	Texturing Hierarchical Tissues by Gradient Assembling of Microengineered Platelet-Lysates Activated Fibers.. <i>Advanced Healthcare Materials</i> , 2021 , e2102076	9.4	
1276	Macromolecular modulation of a 3D hydrogel construct differentially regulates human stem cell tissue-to-tissue interface.. <i>Materials Science and Engineering C</i> , 2021 , 112611	8.1	0
1275	Mineralized collagen as a bioactive ink to support encapsulation of human adipose stem cells: A step towards the future of bone regeneration.. <i>Materials Science and Engineering C</i> , 2021 , 112600	8.1	

1274	Development of alginate-based hydrogels for blood vessel engineering.. <i>Materials Science and Engineering C</i> , 2021 , 112588	8.1	0
1273	Enhanced Silk Fibroin-Based Film Scaffold Using Curcumin for Corneal Endothelial Cell Regeneration. <i>Macromolecular Research</i> , 2021 , 29, 713-719	1.9	
1272	Microfluidic mixing system for precise PLGA-PEG nanoparticles size control. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 40, 102482	5.8	2
1271	Precision biomaterials in cancer theranostics and modelling. <i>Biomaterials</i> , 2021 , 280, 121299	15.2	3
1270	Expanding the Conformational Landscape of Minimalistic Tripeptides by Their -Glycosylation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19703-19710	16	0
1269	An Efficient Carbon-Based Drug Delivery System for Cancer Therapy through the Nucleus Targeting and Mitochondria Mediated Apoptotic Pathway.. <i>Small Methods</i> , 2021 , 5, e2100539	12.6	3
1268	Chondrogenic differentiation induced by extracellular vesicles bound to a nanofibrous substrate. <i>Npj Regenerative Medicine</i> , 2021 , 6, 79	15.2	1
1267	Evaluation of Injectable Hyaluronic Acid-Based Hydrogels for Endodontic Tissue Regeneration. <i>Materials</i> , 2021 , 14,	3.4	1
1266	Towards the Development of a Female Animal Model of T1DM Using Hyaluronic Acid Nanocoated Cell Transplantation: Refinements and Considerations for Future Protocols. <i>Pharmaceutics</i> , 2021 , 13,	6.1	5
1265	Microfluidic-assisted electrospinning, an alternative to coaxial, as a controlled dual drug release system to treat inflammatory arthritic diseases.. <i>Materials Science and Engineering C</i> , 2021 , 112585	8.1	
1264	Cytocompatible manganese dioxide-based hydrogel nanoreactors for MRI imaging.. <i>Materials Science and Engineering C</i> , 2021 , 112575	8.1	0
1263	Sulfated Seaweed Polysaccharides 2021 , 1-34		
1262	A Fibrin Coating Method of Polypropylene Meshes Enables the Adhesion of Menstrual Blood-Derived Mesenchymal Stromal Cells: A New Delivery Strategy for Stem Cell-Based Therapies.. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.1	2
1261	An efficient and user-friendly method for cytohistological analysis of organoids. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021 , 15, 1012-1022	4.2	0
1260	3DICE coding matrix multidirectional macro-architecture modulates cell organization, shape, and co-cultures endothelization network. <i>Biomaterials</i> , 2021 , 277, 121112	15.2	0
1259	Modulation of stem cell response using biodegradable polyester films with different stiffness. <i>Biomedical Engineering Advances</i> , 2021 , 2, 100007		1
1258	Marine origin materials on biomaterials and advanced therapies to cartilage tissue engineering and regenerative medicine. <i>Biomaterials Science</i> , 2021 , 9, 6718-6736	7.2	2
1257	A biocompatible and injectable hydrogel to boost the efficacy of stem cells in neurodegenerative diseases treatment. <i>Life Sciences</i> , 2021 , 287, 120108	6.6	3

1256	Epitope-imprinted polymers: Design principles of synthetic binding partners for natural biomacromolecules. <i>Science Advances</i> , 2021 , 7, eabi9884	13.9	2
1255	Micropatterned gellan gum-based hydrogels tailored with laminin-derived peptides for skeletal muscle tissue engineering. <i>Biomaterials</i> , 2021 , 279, 121217	15.2	2
1254	Therapeutic deep eutectic solvents assisted the encapsulation of curcumin in alginate-chitosan hydrogel beads. <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 24, 100553	3.8	0
1253	Carbon nanotube-reinforced cell-derived matrix-silk fibroin hierarchical scaffolds for bone tissue engineering applications. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 9561-9574	7.1	0
1252	Glycosaminoglycans 2021 , 1-18		
1251	Combining experiments and in silico modeling to infer the role of adhesion and proliferation on the collective dynamics of cells. <i>Scientific Reports</i> , 2021 , 11, 19894	4.7	0
1250	Influence of Hyaluronan Density on the Behavior of Breast Cancer Cells with Different CD44 Expression. <i>Advanced Healthcare Materials</i> , 2021 , e2101309	9.4	
1249	Antithrombotic and hemocompatible properties of nanostructured coatings assembled from block copolymers. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 1608-1618	9.1	0
1248	Engineering Polysaccharide-Based Hydrogel Photonic Constructs: From Multiscale Detection to the Biofabrication of Living Optical Fibers. <i>Advanced Materials</i> , 2021 , e2105361	23.6	7
1247	Electroactive polyamide/cotton fabrics for biomedical applications. <i>Organic Electronics</i> , 2020 , 77, 105401	3.5	2
1246	Acid and enzymatic extraction of collagen from Atlantic cod () swim bladders envisaging health-related applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020 , 31, 20-37	3.4	26
1245	Intra-articular injection of culture-expanded mesenchymal stem cells with or without addition of platelet-rich plasma is effective in decreasing pain and symptoms in knee osteoarthritis: a controlled, double-blind clinical trial. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020 , 28, 1989-1999	5.4	25
1244	Electric Phenomenon: A Disregarded Tool in Tissue Engineering and Regenerative Medicine. <i>Trends in Biotechnology</i> , 2020 , 38, 24-49	14.8	45
1243	A Physiology-Inspired Multifactorial Toolbox in Soft-to-Hard Musculoskeletal Interface Tissue Engineering. <i>Trends in Biotechnology</i> , 2020 , 38, 83-98	14.8	21
1242	Micro-CT based finite element modelling and experimental characterization of the compressive mechanical properties of 3-D zirconia scaffolds for bone tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 102, 103516	3.9	16
1241	Phospholipid-induced silk fibroin hydrogels and their potential as cell carriers for tissue regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 160-172	4.2	9
1240	Replication of GWAS identifies RTEL1, CDKN2A/B, and PHLDB1 SNPs as risk factors in Portuguese gliomas patients. <i>Molecular Biology Reports</i> , 2020 , 47, 877-886	2.7	4
1239	Loss of SPINT2 expression frequently occurs in glioma, leading to increased growth and invasion via MMP2. <i>Cellular Oncology (Dordrecht)</i> , 2020 , 43, 107-121	7	5

1238	Silk fibroin for skin injury repair: Where do things stand?. <i>Advanced Drug Delivery Reviews</i> , 2020 , 153, 28-53	17.9	55
1237	Improved vascularisation but inefficient in vivo bone regeneration of adipose stem cells and poly-3-hydroxybutyrate-co-3-hydroxyvalerate scaffolds in xeno-free conditions. <i>Materials Science and Engineering C</i> , 2020 , 107, 110301	8.1	5
1236	Gene expression changes are associated with severe bone loss and deficient fracture callus formation in rats with complete spinal cord injury. <i>Spinal Cord</i> , 2020 , 58, 365-376	2.5	2
1235	Layer-by-layer films based on catechol-modified polysaccharides produced by dip- and spin-coating onto different substrates. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 1412-1427	3.3	8
1234	Sardine Roe as a Source of Lipids To Produce Liposomes. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1017-1029	5.3	5
1233	Decellularized matrices for tumor cell modeling. <i>Methods in Cell Biology</i> , 2020 , 157, 169-183	1.7	1
1232	Could 3D models of cancer enhance drug screening?. <i>Biomaterials</i> , 2020 , 232, 119744	15.2	62
1231	Silk fibroin promotes mineralization of gellan gum hydrogels. <i>International Journal of Biological Macromolecules</i> , 2020 , 153, 1328-1334	7.7	14
1230	Comparison between calcium carbonate and tricalcium phosphate as additives of 3D printed scaffolds with polylactic acid matrix. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 272-283	4.2	13
1229	Decellularized hASCs-derived matrices as biomaterials for 3D in vitro approaches. <i>Methods in Cell Biology</i> , 2020 , 156, 45-58	1.7	6
1228	Platelet-rich Blood Derivatives for Tendon Regeneration. <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , 2020 , 28, e202-e205	4.3	4
1227	Finding the perfect match between nanoparticles and microfluidics to respond to cancer challenges. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 24, 102139	5.8	9
1226	Marine invertebrates are a source of bioadhesives with biomimetic interest. <i>Materials Science and Engineering C</i> , 2020 , 108, 110467	8.1	14
1225	Bioinspired materials and tissue engineering approaches applied to the regeneration of musculoskeletal tissues 2020 , 73-105		
1224	Pulsed Electromagnetic Field Modulates Tendon Cells Response in IL-1 β -Conditioned Environment. <i>Journal of Orthopaedic Research</i> , 2020 , 38, 160-172	3.6	7
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1221	Hyaluronic Acid of Low Molecular Weight Triggers the Invasive "Hummingbird" Phenotype on Gastric Cancer Cells. <i>Advanced Biology</i> , 2020 , 4, e2000122	3	4

1220	Feasibility of methylated ctDNA detection in plasma samples of oropharyngeal squamous cell carcinoma patients. <i>Head and Neck</i> , 2020 , 42, 3307-3315	4.1	4
1219	Toward Spinning Greener Advanced Silk Fibers by Feeding Silkworms with Nanomaterials. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11872-11887	8.2	6
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1217	Tubular Fibrous Scaffolds Functionalized with Tropoelastin as a Small-Diameter Vascular Graft. <i>Biomacromolecules</i> , 2020 , 21, 3582-3595	6.7	6
1216	Natural Materials 2020 , 361-375		
1215	Trends in biomaterials for three-dimensional cancer modeling 2020 , 3-41		1
1214	Optimal Design of THEDES Based on Perillyl Alcohol and Ibuprofen. <i>Pharmaceutics</i> , 2020 , 12,	6.1	6
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1211	Biomatrices that mimic the cancer extracellular environment 2020 , 91-106		1
1210	Biomaterials as ECM-like matrices for 3D in vitro tumor models 2020 , 157-173		1
1209	Metastasis in three-dimensional biomaterials 2020 , 191-216		1
1208	3D cancer spheroids and microtissues 2020 , 217-234		
1207	Microfluidic systems in cancer research 2020 , 331-377		4
1206	Marine-derived biomaterials for cancer treatment 2020 , 551-576		0
1205	Biodetection and sensing for cancer diagnostics 2020 , 643-660		2
1204	Skin-Integrated Wearable Systems and Implantable Biosensors: A Comprehensive Review. <i>Biosensors</i> , 2020 , 10,	5.7	48
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1199	The combination of coffee compounds attenuates early fibrosis-associated hepatocarcinogenesis in mice: involvement of miRNA profile modulation. <i>Journal of Nutritional Biochemistry</i> , 2020 , 85, 108479	6.1	7
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1194	Biotechnological Valorization of Marine Collagens 2020 , 855-883		2
1193	3D Bioprinted Highly Elastic Hybrid Constructs for Advanced Fibrocartilaginous Tissue Regeneration. <i>Chemistry of Materials</i> , 2020 , 32, 8733-8746	9.5	12
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1180	Seaweed polysaccharides as sustainable building blocks for biomaterials in tissue engineering 2020 , 543-587		4
1179	Biomaterials for Sequestration of Growth Factors and Modulation of Cell Behavior. <i>Advanced Functional Materials</i> , 2020 , 30, 1909011	15.4	24
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1166	Fundamentals on biopolymers and global demand 2020 , 3-34		2
1165	Biopolymer membranes in tissue engineering 2020 , 141-163		
1164	Tailoring Gellan Gum Spongy-Like Hydrogels' Microstructure by Controlling Freezing Parameters. <i>Polymers</i> , 2020 , 12,	4.4	5
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1154	Dendrimer nanoparticles for colorectal cancer applications. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 1128-1138	7.1	37
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1113	Meniscal allograft transplants and new scaffolding techniques. <i>EFORT Open Reviews</i> , 2019 , 4, 279-295	5.3	24

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