Vtor M. Gaspar

List of Publications by Citations

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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.

67 papers	1,974 citations	26 h-index	43 g-index
69 ext. papers	2,589 ext. citations	8.9 avg, IF	5.65 L-index

#	Paper	IF	Citations
67	3D tumor spheroids: an overview on the tools and techniques used for their analysis. *Biotechnology Advances*, **2016**, 34, 1427-1441	17.8	329
66	Chitosan/arginine-chitosan polymer blends for assembly of nanofibrous membranes for wound regeneration. *Carbohydrate Polymers*, **2015**, 130, 104-12	10.3	101
65	Design of spherically structured 3D in vitro tumor models -Advances and prospects. *Acta Biomaterialia*, **2018**, 75, 11-34	10.8	94
64	Optimization of liquid overlay technique to formulate heterogenic 3D co-cultures models. *Biotechnology and Bioengineering*, **2014**, 111, 1672-85	4.9	90
63	Stimuli-Responsive Nanocomposite Hydrogels for Biomedical Applications. *Advanced Functional Materials*, **2021**, 31, 2005941	15.6	78
62	Poly(2-ethyl-2-oxazoline)-PLA-g-PEI amphiphilic triblock micelles for co-delivery of minicircle DNA and chemotherapeutics. *Journal of Controlled Release*, **2014**, 189, 90-104	11.7	69
61	Bioreducible poly(2-ethyl-2-oxazoline)-PLA-PEI-SS triblock copolymer micelles for co-delivery of DNA minicircles and Doxorubicin. *Journal of Controlled Release*, **2015**, 213, 175-191	11.7	68
60	Advanced Bottom-Up Engineering of Living Architectures. *Advanced Materials*, **2020**, 32, e1903975	24	65
59	Nanoparticle mediated delivery of pure P53 supercoiled plasmid DNA for gene therapy. *Journal of Controlled Release*, **2011**, 156, 212-22	11.7	59
58	Minicircle DNA vectors for gene therapy: advances and applications. *Expert Opinion on Biological Therapy*, **2015**, 15, 353-79	5.4	56
57	Preparation of end-capped pH-sensitive mesoporous silica nanocarriers for on-demand drug delivery. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 88, 1012-25	5.7	56
56	Bioactive polymeric-ceramic hybrid 3D scaffold for application in bone tissue regeneration. *Materials Science and Engineering C*, **2013**, 33, 4460-9	8.3	53
55	Stimuli-responsive nanocarriers for delivery of bone therapeutics - Barriers and progresses. *Journal of Controlled Release*, **2018**, 273, 51-67	11.7	52
54	Manufacture of □TCP/alginate scaffolds through a Fab@home model for application in bone tissue engineering. *Biofabrication*, **2014**, 6, 025001	10.5	49
53	In-air production of 3D co-culture tumor spheroid hydrogels for expedited drug screening. *Acta Biomaterialia*, **2019**, 94, 392-409	10.8	48
52	Combinatorial delivery of Crizotinib-Palbociclib-Sildenafil using TPGS-PLA micelles for improved cancer treatment. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 88, 718-29	5.7	45
51	Microencapsulated chitosan□dextran sulfate nanoparticles for controled delivery of bioactive molecules and cells in bone regeneration. *Polymer*, **2013**, 54, 5-15	3.9	44

50	Hydrogel 3D in vitro tumor models for screening cell aggregation mediated drug response. *Biomaterials Science*, **2020**, 8, 1855-1864	7.4	43
49	Bioinstructive microparticles for self-assembly of mesenchymal stem Cell-3D tumor spheroids. *Biomaterials*, **2018**, 185, 155-173	15.6	41
48	Folate-targeted multifunctional amino acid-chitosan nanoparticles for improved cancer therapy. *Pharmaceutical Research*, **2015**, 32, 562-77	4.5	40
47	Evaluation of nanoparticle uptake in co-culture cancer models. *PLoS ONE*, **2013**, 8, e70072	3.7	39
46	Gas-generating TPGS-PLGA microspheres loaded with nanoparticles (NIMPS) for co-delivery of minicircle DNA and anti-tumoral drugs. *Colloids and Surfaces B: Biointerfaces*, **2015**, 134, 287-94	6	33
45	Decellularized Extracellular Matrix for Bioengineering Physiomimetic 3D in Vitro Tumor Models. *Trends in Biotechnology*, **2020**, 38, 1397-1414	15.1	33
44	Bioinspired bone therapies using naringin: applications and advances. *Drug Discovery Today*, **2018**, 23, 1293-1304	8.8	30
43	Co-delivery of Sildenafil (Viagra( )) and Crizotinib for synergistic and improved anti-tumoral therapy. *Pharmaceutical Research*, **2014**, 31, 2516-28	4.5	28
42	Synthesis and characterization of micelles as carriers of non-steroidal anti-inflammatory drugs (NSAID) for application in breast cancer therapy. *Colloids and Surfaces B: Biointerfaces*, **2014**, 113, 375-83	6	27
41	Improved minicircle DNA biosynthesis for gene therapy applications. *Human Gene Therapy Methods*, **2014**, 25, 93-105	4.9	23
40	Preparation of Well-Dispersed Chitosan/Alginate Hollow Multilayered Microcapsules for Enhanced Cellular Internalization. *Molecules*, **2018**, 23,	4.8	21
39	Freeform 3D printing using a continuous viscoelastic supporting matrix. *Biofabrication*, **2020**, 12, 035017	10.5	20
38	Mechanochemical Patternable ECM-Mimetic Hydrogels for Programmed Cell Orientation. *Advanced Healthcare Materials*, **2020**, 9, e1901860	10.1	19
37	Proteinaceous Hydrogels for Bioengineering Advanced 3D Tumor Models. *Advanced Science*, **2021**, 8, 2003129	13.6	19
36	Responsive laminarin-boronic acid self-healing hydrogels for biomedical applications. *Polymer Journal*, **2020**, 52, 997-1006	2.7	18
35	Flavonoid-mediated immunomodulation of human macrophages involves key metabolites and metabolic pathways. *Scientific Reports*, **2019**, 9, 14906	4.9	18
34	GelMA/bioactive silica nanocomposite bioinks for stem cell osteogenic differentiation. *Biofabrication*, **2021**,	10.5	16
33	Oxygen releasing materials: Towards addressing the hypoxia-related issues in tissue engineering. *Materials Science and Engineering C*, **2021**, 122, 111896	8.3	15

32	Bioinstructive Naringin-Loaded Micelles for Guiding Stem Cell Osteodifferentiation. *Advanced Healthcare Materials*, **2018**, 7, e1800890	10.1	12
31	Repurposing Old Drugs into New Epigenetic Inhibitors: Promising Candidates for Cancer Treatment?. *Pharmaceutics*, **2020**, 12,	6.4	11
30	Sensitive detection of peptide-minicircle DNA interactions by surface plasmon resonance. *Analytical Chemistry*, **2013**, 85, 2304-11	7.8	10
29	Mesenchymal Stem Cells Relevance in Multicellular Bioengineered 3D In Vitro Tumor Models. *Biotechnology Journal*, **2017**, 12, 1700079	5.6	9
28	The biological performance of purified supercoiled p53 plasmid DNA in different cancer cell lines. *Process Biochemistry*, **2018**, 75, 240-249	4.8	8
27	3D-bioprinted cancer-on-a-chip: level-up organotypic in vitro models. *Trends in Biotechnology*, **2021**,	15.1	8
26	Double network laminarin-boronic/alginate dynamic bioink for 3D bioprinting cell-laden constructs. *Biofabrication*, **2021**, 13,	10.5	7
25	Screening of dual chemo-photothermal cellular nanotherapies in organotypic breast cancer 3D spheroids. *Journal of Controlled Release*, **2021**, 331, 85-102	11.7	7
24	Organotypic 3D decellularized matrix tumor spheroids for high-throughput drug screening. *Biomaterials*, **2021**, 275, 120983	15.6	7
23	Efficient Single-Dose Induction of Osteogenic Differentiation of Stem Cells Using Multi-Bioactive Hybrid Nanocarriers. *Advanced Biology*, **2020**, 4, e2000123	3.5	6
22	Temperature-responsive nanomagnetic logic gates for cellular hyperthermia. *Materials Horizons*, **2019**, 6, 524-530	14.4	5
21	Highly selective capture of minicircle DNA biopharmaceuticals by a novel zinc-histidine peptide conjugate. *Separation and Purification Technology*, **2017**, 174, 417-424	8.3	4
20	Gelatin Methacryloyl (GelMA) Nanocomposite Hydrogels Embedding Bioactive Naringin Liposomes. *Polymers*, **2020**, 12,	4.5	4
19	Self-Assembled Bioactive Colloidal Gels as Injectable Multiparticle Shedding Platforms. *ACS Applied Materials & Interfaces*, **2020**, 12, 31282-31291	9.5	4
18	Partial Coated Stem Cells with Bioinspired Silica as New Generation of Cellular Hybrid Materials. *Advanced Functional Materials*, **2021**, 31, 2009619	15.6	4
17	Natural Origin Biomaterials for 4D Bioprinting Tissue-Like Constructs. *Advanced Materials Technologies*, **2021**, 6, 2100168	6.8	4
16	Multifunctional nanocarriers for codelivery of nucleic acids and chemotherapeutics to cancer cells **2016**, 163-207		4
15	Bone Tissue Disorders: Healing Through Coordination Chemistry. *Chemistry - A European Journal*, **2020**, 26, 15416-15437	4.8	3

List of Publications

14	Brewer's yeast polysaccharides - A review of their exquisite structural features and biomedical applications. *Carbohydrate Polymers*, **2022**, 277, 118826	10.3	2
13	Differential Modulation of the Phospholipidome of Proinflammatory Human Macrophages by the Flavonoids Quercetin, Naringin and Naringenin. *Molecules*, **2020**, 25,	4.8	2
12	Stratified 3D Microtumors as Organotypic Testing Platforms for Screening Pancreatic Cancer Therapies.. *Small Methods*, **2021**, 5, e2001207	12.8	2
11	Coordination Compounds As Multi-Delivery Systems for Osteoporosis. *ACS Applied Materials & Interfaces*, **2021**, 13, 35469-35483	9.5	2
10	Macrophage-Targeted Shikonin-Loaded Nanogels for Modulation of Inflammasome Activation.. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2022**, 102548	6	2
9	Programmable Living Units for Emulating Pancreatic Tumor-Stroma Interplay.. *Advanced Healthcare Materials*, **2022**, e2102574	10.1	2
8	Advancing Tissue Decellularized Hydrogels for Engineering Human Organoids. *Advanced Functional Materials*,2202825	15.6	2
7	Engineering mammalian living materials towards clinically relevant therapeutics. *EBioMedicine*, **2021**, 74, 103717	8.8	1
6	Bioinspired biomaterials to develop cell-rich spherical microtissues for 3D in vitro tumor modeling **2020**, 43-65		1
5	Cell-Based Therapy: Partial Coated Stem Cells with Bioinspired Silica as New Generation of Cellular Hybrid Materials (Adv. Funct. Mater. 29/2021). *Advanced Functional Materials*, **2021**, 31, 2170211	15.6	1
4	G9a inhibition by CM-272: Developing a novel anti-tumoral strategy for castration-resistant prostate cancer using 2D and 3D in vitro models.. *Biomedicine and Pharmacotherapy*, **2022**, 150, 113031	7.5	1
3	Consistent Inclusion of Mesenchymal Stem Cells into In Vitro Tumor Models. *Methods in Molecular Biology*, **2021**, 2269, 3-23	1.4	
2	Bioimaging of Mesenchymal Stem Cells Spatial Distribution and Interactions with 3D In Vitro Tumor Spheroids. *Methods in Molecular Biology*, **2021**, 2269, 49-61	1.4	
1	Multifunctional Granular Hydrogels for Tissue-Specific Repair **2022**, 295-321		