

# VÃ-tor M. Gaspar

## List of Publications by Year in descending order

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68  
papers

3,268  
citations

159358

30  
h-index

155451

55  
g-index

69  
all docs

69  
docs citations

69  
times ranked

4755  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D tumor spheroids: an overview on the tools and techniques used for their analysis. <i>Biotechnology Advances</i> , 2016, 34, 1427-1441.	6.0	579
2	Stimuli-responsive Nanocomposite Hydrogels for Biomedical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2005941.	7.8	234
3	Design of spherically structured 3D in vitro tumor models -Advances and prospects. <i>Acta Biomaterialia</i> , 2018, 75, 11-34.	4.1	155
4	Chitosan/arginine-chitosan polymer blends for assembly of nanofibrous membranes for wound regeneration. <i>Carbohydrate Polymers</i> , 2015, 130, 104-112.	5.1	131
5	Advanced Bottom-Up Engineering of Living Architectures. <i>Advanced Materials</i> , 2020, 32, e1903975.	11.1	127
6	Optimization of liquid overlay technique to formulate heterogenic 3D cultures models. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1672-1685.	1.7	113
7	Stimuli-responsive nanocarriers for delivery of bone therapeutics – Barriers and progresses. <i>Journal of Controlled Release</i> , 2018, 273, 51-67.	4.8	84
8	Decellularized Extracellular Matrix for Bioengineering Physiomimetic 3D in Vitro Tumor Models. <i>Trends in Biotechnology</i> , 2020, 38, 1397-1414.	4.9	84
9	Poly(2-ethyl-2-oxazoline)-PLA-PEI amphiphilic triblock micelles for co-delivery of minicircle DNA and chemotherapeutics. <i>Journal of Controlled Release</i> , 2014, 189, 90-104.	4.8	75
10	Bioreducible poly(2-ethyl-2-oxazoline)-PLA-PEI-SS triblock copolymer micelles for co-delivery of DNA minicircles and Doxorubicin. <i>Journal of Controlled Release</i> , 2015, 213, 175-191.	4.8	75
11	Minicircle DNA vectors for gene therapy: advances and applications. <i>Expert Opinion on Biological Therapy</i> , 2015, 15, 353-379.	1.4	73
12	In-air production of 3D co-culture tumor spheroid hydrogels for expedited drug screening. <i>Acta Biomaterialia</i> , 2019, 94, 392-409.	4.1	72
13	Hydrogel 3D in vitro tumor models for screening cell aggregation mediated drug response. <i>Biomaterials Science</i> , 2020, 8, 1855-1864.	2.6	70
14	Bioactive polymeric-ceramic hybrid 3D scaffold for application in bone tissue regeneration. <i>Materials Science and Engineering C</i> , 2013, 33, 4460-4469.	3.8	64
15	Nanoparticle mediated delivery of pure P53 supercoiled plasmid DNA for gene therapy. <i>Journal of Controlled Release</i> , 2011, 156, 212-222.	4.8	63
16	Preparation of end-capped pH-sensitive mesoporous silica nanocarriers for on-demand drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 1012-1025.	2.0	61
17	Bioinstructive microparticles for self-assembly of mesenchymal stem Cell-3D tumor spheroids. <i>Biomaterials</i> , 2018, 185, 155-173.	5.7	58
18	Manufacture of $\beta$ -TCP/alginate scaffolds through a Fab@home model for application in bone tissue engineering. <i>Biofabrication</i> , 2014, 6, 025001.	3.7	54

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19	Combinatorial delivery of Crizotinib and Palbociclib and Sildenafil using TPGS-PLA micelles for improved cancer treatment. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 718-729.	2.0	53
20	Microencapsulated chitosan and dextran sulfate nanoparticles for controlled delivery of bioactive molecules and cells in bone regeneration. <i>Polymer</i> , 2013, 54, 5-15.	1.8	52
21	Bioinspired bone therapies using naringin: applications and advances. <i>Drug Discovery Today</i> , 2018, 23, 1293-1304.	3.2	49
22	Freeform 3D printing using a continuous viscoelastic supporting matrix. <i>Biofabrication</i> , 2020, 12, 035017.	3.7	49
23	Folate-Targeted Multifunctional Amino Acid-Chitosan Nanoparticles for Improved Cancer Therapy. <i>Pharmaceutical Research</i> , 2015, 32, 562-577.	1.7	48
24	GelMA/bioactive silica nanocomposite bioinks for stem cell osteogenic differentiation. <i>Biofabrication</i> , 2021, 13, 035012.	3.7	48
25	Evaluation of Nanoparticle Uptake in Co-culture Cancer Models. <i>PLoS ONE</i> , 2013, 8, e70072.	1.1	48
26	Oxygen releasing materials: Towards addressing the hypoxia-related issues in tissue engineering. <i>Materials Science and Engineering C</i> , 2021, 122, 111896.	3.8	46
27	Proteinaceous Hydrogels for Bioengineering Advanced 3D Tumor Models. <i>Advanced Science</i> , 2021, 8, 2003129.	5.6	41
28	Gas-generating TPGS-PLGA microspheres loaded with nanoparticles (NIMPS) for co-delivery of minicircle DNA and anti-tumoral drugs. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 134, 287-294.	2.5	39
29	Flavonoid-mediated immunomodulation of human macrophages involves key metabolites and metabolic pathways. <i>Scientific Reports</i> , 2019, 9, 14906.	1.6	36
30	3D-bioprinted cancer-on-a-chip: level-up organotypic in vitro models. <i>Trends in Biotechnology</i> , 2022, 40, 432-447.	4.9	36
31	Co-delivery of Sildenafil (Viagra®) and Crizotinib for Synergistic and Improved Anti-tumoral Therapy. <i>Pharmaceutical Research</i> , 2014, 31, 2516-2528.	1.7	33
32	Double network laminarin-boronic/alginate dynamic bioink for 3D bioprinting cell-laden constructs. <i>Biofabrication</i> , 2021, 13, 035045.	3.7	33
33	Preparation of Well-Dispersed Chitosan/Alginate Hollow Multilayered Microcapsules for Enhanced Cellular Internalization. <i>Molecules</i> , 2018, 23, 625.	1.7	31
34	Responsive laminarin-boronic acid self-healing hydrogels for biomedical applications. <i>Polymer Journal</i> , 2020, 52, 997-1006.	1.3	31
35	Synthesis and characterization of micelles as carriers of non-steroidal anti-inflammatory drugs (NSAID) for application in breast cancer therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 375-383.	2.5	29
36	Mechanochemical Patternable ECM-mimetic Hydrogels for Programmed Cell Orientation. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901860.	3.9	29

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37	Natural Origin Biomaterials for 4D Bioprinting Tissue-Like Constructs. <i>Advanced Materials Technologies</i> , 2021, 6, 2100168.	3.0	27
38	Improved Minicircle DNA Biosynthesis for Gene Therapy Applications. <i>Human Gene Therapy Methods</i> , 2014, 25, 93-105.	2.1	25
39	Organotypic 3D decellularized matrix tumor spheroids for high-throughput drug screening. <i>Biomaterials</i> , 2021, 275, 120983.	5.7	25
40	Gelatin Methacryloyl (GelMA) Nanocomposite Hydrogels Embedding Bioactive Naringin Liposomes. <i>Polymers</i> , 2020, 12, 2944.	2.0	23
41	Brewer's yeast polysaccharides – A review of their exquisite structural features and biomedical applications. <i>Carbohydrate Polymers</i> , 2022, 277, 118826.	5.1	23
42	Advancing Tissue Decellularized Hydrogels for Engineering Human Organoids. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	21
43	Repurposing Old Drugs into New Epigenetic Inhibitors: Promising Candidates for Cancer Treatment?. <i>Pharmaceutics</i> , 2020, 12, 410.	2.0	20
44	Bioinstructive Naringin-Loaded Micelles for Guiding Stem Cell Osteodifferentiation. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800890.	3.9	19
45	Screening of dual chemo-photothermal cellular nanotherapies in organotypic breast cancer 3D spheroids. <i>Journal of Controlled Release</i> , 2021, 331, 85-102.	4.8	19
46	Self-Assembled Bioactive Colloidal Gels as Injectable Multiparticle Shedding Platforms. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31282-31291.	4.0	15
47	Stratified 3D Microtumors as Organotypic Testing Platforms for Screening Pancreatic Cancer Therapies. <i>Small Methods</i> , 2021, 5, e2001207.	4.6	15
48	Partial Coated Stem Cells with Bioinspired Silica as New Generation of Cellular Hybrid Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2009619.	7.8	14
49	Sensitive Detection of Peptide-Minicircle DNA Interactions by Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2013, 85, 2304-2311.	3.2	11
50	Mesenchymal Stem Cells Relevance in Multicellular Bioengineered 3D In Vitro Tumor Models. <i>Biotechnology Journal</i> , 2017, 12, 1700079.	1.8	10
51	Coordination Compounds As Multi-Delivery Systems for Osteoporosis. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 35469-35483.	4.0	10
52	Temperature-responsive nanomagnetic logic gates for cellular hyperthermia. <i>Materials Horizons</i> , 2019, 6, 524-530.	6.4	9
53	Programmable Living Units for Emulating Pancreatic Tumor-Stroma Interplay. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102574.	3.9	9
54	G9a inhibition by CM-272: Developing a novel anti-tumoral strategy for castration-resistant prostate cancer using 2D and 3D in vitro models. <i>Biomedicine and Pharmacotherapy</i> , 2022, 150, 113031.	2.5	9

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55	The biological performance of purified supercoiled p53 plasmid DNA in different cancer cell lines. <i>Process Biochemistry</i> , 2018, 75, 240-249.	1.8	8
56	Engineering mammalian living materials towards clinically relevant therapeutics. <i>EBioMedicine</i> , 2021, 74, 103717.	2.7	8
57	Differential Modulation of the Phospholipidome of Proinflammatory Human Macrophages by the Flavonoids Quercetin, Naringin and Naringenin. <i>Molecules</i> , 2020, 25, 3460.	1.7	7
58	Efficient Single-Dose Induction of Osteogenic Differentiation of Stem Cells Using Multi-Bioactive Hybrid Nanocarriers. <i>Advanced Biology</i> , 2020, 4, e2000123.	3.0	7
59	Advances in bioengineering pancreatic tumor-stroma physiometric Biomodels. <i>Biomaterials</i> , 2022, 287, 121653.	5.7	7
60	Macrophage-targeted shikonin-loaded nanogels for modulation of inflammasome activation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 42, 102548.	1.7	6
61	Multifunctional nanocarriers for codelivery of nucleic acids and chemotherapeutics to cancer cells. , 2016, , 163-207.		5
62	Bone Tissue Disorders: Healing Through Coordination Chemistry. <i>Chemistry - A European Journal</i> , 2020, 26, 15416-15437.	1.7	5
63	Highly selective capture of minicircle DNA biopharmaceuticals by a novel zinc-histidine peptide conjugate. <i>Separation and Purification Technology</i> , 2017, 174, 417-424.	3.9	4
64	Bioinspired biomaterials to develop cell-rich spherical microtissues for 3D in vitro tumor modeling. , 2020, , 43-65.		3
65	Cell-Based Therapy: Partial Coated Stem Cells with Bioinspired Silica as New Generation of Cellular Hybrid Materials ( <i>Adv. Funct. Mater.</i> 29/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170211.	7.8	1
66	Frontispiece: Bone Tissue Disorders: Healing Through Coordination Chemistry. <i>Chemistry - A European Journal</i> , 2020, 26, .	1.7	0
67	Consistent Inclusion of Mesenchymal Stem Cells into In Vitro Tumor Models. <i>Methods in Molecular Biology</i> , 2021, 2269, 3-23.	0.4	0
68	Bioimaging of Mesenchymal Stem Cells Spatial Distribution and Interactions with 3D In Vitro Tumor Spheroids. <i>Methods in Molecular Biology</i> , 2021, 2269, 49-61.	0.4	0