

Helena Tomás

List of Publications by Year in descending order

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80
papers

5,555
citations

94415

37
h-index

79691

73
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84
all docs

84
docs citations

84
times ranked

8723
citing authors

#	ARTICLE	IF	CITATIONS
1	Dendrimer nanoplatfoms for veterinary medicine applications: A concise overview. Drug Discovery Today, 2022, 27, 1251-1260.	6.4	7
2	Polyester Dendrimers Based on Bis-MPA for Doxorubicin Delivery. Biomacromolecules, 2022, 23, 20-33.	5.4	5
3	Antitumor Efficacy of Doxorubicin-Loaded Electrospun Attapulgate-Poly(lactic-co-glycolic acid) Composite Nanofibers. Journal of Functional Biomaterials, 2022, 13, 55.	4.4	6
4	Cyclotriphosphazene-based Derivatives for Antibacterial Applications: An Update on Recent Advances. Current Organic Chemistry, 2021, 25, 301-314.	1.6	10
5	Self-Assembly of Cholesterol-Doxorubicin and TPGS into Prodrug-Based Nanoparticles with Enhanced Cellular Uptake and Lysosome-Dependent Pathway in Breast Cancer Cells. European Journal of Lipid Science and Technology, 2021, 123, 2000337.	1.5	6
6	Engineered non-invasive functionalized dendrimer/dendron-entrapped/complexed gold nanoparticles as a novel class of theranostic (radio)pharmaceuticals in cancer therapy. Journal of Controlled Release, 2021, 332, 346-366.	9.9	29
7	Use of Half-Generation PAMAM Dendrimers (G0.5-G3.5) with Carboxylate End-Groups to Improve the DACHPtCl ₂ and 5-FU Efficacy as Anticancer Drugs. Molecules, 2021, 26, 2924.	3.8	13
8	Engineered Fluorescent Carbon Dots and G4-G6 PAMAM Dendrimer Nanohybrids for Bioimaging and Gene Delivery. Biomacromolecules, 2021, 22, 2436-2450.	5.4	25
9	First-in-class and best-in-class dendrimer nanoplatfoms from concept to clinic: Lessons learned moving forward. European Journal of Medicinal Chemistry, 2021, 219, 113456.	5.5	22
10	Surface Bioactivation of Polyether Ether Ketone (PEEK) by Sulfuric Acid and Piranha Solution: Influence of the Modification Route in Capacity for Inducing Cell Growth. Biomolecules, 2021, 11, 1260.	4.0	13
11	An integrative approach based on GC-qMS and NMR metabolomics data as a comprehensive strategy to search potential breast cancer biomarkers. Metabolomics, 2021, 17, 72.	3.0	6
12	Polysaccharide-based nanomedicines for cancer immunotherapy: A review. Bioactive Materials, 2021, 6, 3358-3382.	15.6	74
13	A glance over doxorubicin based-nanotherapeutics: From proof-of-concept studies to solutions in the market. Journal of Controlled Release, 2020, 317, 347-374.	9.9	53
14	Glycodendron/pyropheophorbide-a (Ppa)-functionalized hyaluronic acid as a nanosystem for tumor photodynamic therapy. Carbohydrate Polymers, 2020, 247, 116749.	10.2	58
15	Physicochemical Properties and Cell Viability of Shrimp Chitosan Films as Affected by Film Casting Solvents. I-Potential Use as Wound Dressing. Materials, 2020, 13, 5005.	2.9	15
16	New insights into the blue intrinsic fluorescence of oxidized PAMAM dendrimers considering their use as bionanomaterials. Journal of Materials Chemistry B, 2020, 8, 10314-10326.	5.8	16
17	Polyethylenimine Nanogels Incorporated with Ultrasmall Iron Oxide Nanoparticles and Doxorubicin for MR Imaging-Guided Chemotherapy of Tumors. Bioconjugate Chemistry, 2020, 31, 907-915.	3.6	38
18	Morpholino-functionalized phosphorus dendrimers for precision regenerative medicine: osteogenic differentiation of mesenchymal stem cells. Nanoscale, 2019, 11, 17230-17234.	5.6	5

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19	Zwitterion-functionalized dendrimer-entrapped gold nanoparticles for serum-enhanced gene delivery to inhibit cancer cell metastasis. <i>Acta Biomaterialia</i> , 2019, 99, 320-329.	8.3	71
20	Breast Cancer Metabolomics: From Analytical Platforms to Multivariate Data Analysis. A Review. <i>Metabolites</i> , 2019, 9, 102.	2.9	46
21	Volatonic pattern of breast cancer and cancer-free tissues as a powerful strategy to identify potential biomarkers. <i>Analyst</i> , 2019, 144, 4153-4161.	3.5	19
22	Implementing a central composite design for the optimization of solid phase microextraction to establish the urinary volatonic expression: a first approach for breast cancer. <i>Metabolomics</i> , 2019, 15, 64.	3.0	24
23	New anionic poly(alkylideneamine) dendrimers as microbicide agents against HIV-1 infection. <i>Nanoscale</i> , 2019, 11, 9679-9690.	5.6	33
24	Untargeted Urinary ¹ H NMR-Based Metabolomic Pattern as a Potential Platform in Breast Cancer Detection. <i>Metabolites</i> , 2019, 9, 269.	2.9	21
25	Evaluation of <i>Rubus grandifolius</i> L. (wild blackberries) activities targeting management of type-2 diabetes and obesity using in vitro models. <i>Food and Chemical Toxicology</i> , 2019, 123, 443-452.	3.6	44
26	Recent therapeutic applications of the theranostic principle with dendrimers in oncology. <i>Science China Materials</i> , 2018, 61, 1367-1386.	6.3	26
27	Present drug-likeness filters in medicinal chemistry during the hit and lead optimization process: how far can they be simplified?. <i>Drug Discovery Today</i> , 2018, 23, 605-615.	6.4	77
28	Laponite®: A key nanoplatform for biomedical applications?. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2407-2420.	3.3	210
29	Dendrimers in combination with natural products and analogues as anti-cancer agents. <i>Chemical Society Reviews</i> , 2018, 47, 514-532.	38.1	156
30	Bench-to-bedside translation of dendrimers: Reality or utopia? A concise analysis. <i>Advanced Drug Delivery Reviews</i> , 2018, 136-137, 73-81.	13.7	47
31	PAMAM dendrimers: blood-brain barrier transport and neuronal uptake after focal brain ischemia. <i>Journal of Controlled Release</i> , 2018, 291, 65-79.	9.9	65
32	Multifunctional Dendrimer-Entrapped Gold Nanoparticles Conjugated with Doxorubicin for pH-Responsive Drug Delivery and Targeted Computed Tomography Imaging. <i>Langmuir</i> , 2018, 34, 12428-12435.	3.5	79
33	Poly(alkylidenimine) Dendrimers Functionalized with the Organometallic Moiety [Ru(̇-5-C5H5)(PPh3)2] ⁺ as Promising Drugs Against Cisplatin-Resistant Cancer Cells and Human Mesenchymal Stem Cells. <i>Molecules</i> , 2018, 23, 1471.	3.8	32
34	Volatile metabolomic signature of human breast cancer cell lines. <i>Scientific Reports</i> , 2017, 7, 43969.	3.3	54
35	Laponite-based nanohybrids for enhanced solubility of dexamethasone and osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Controlled Release</i> , 2017, 259, e121-e122.	9.9	1
36	Design, synthesis and biological evaluation of Arylpiperazine-based novel Phthalimides: Active inducers of testicular germ cell apoptosis. <i>Journal of Chemical Sciences</i> , 2016, 128, 1245-1263.	1.5	5

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37	Gene delivery using dendrimer/pDNA complexes immobilized in electrospun fibers using the Layer-by-Layer technique. RSC Advances, 2016, 6, 97116-97128.	3.6	17
38	Compound high-quality criteria: a new vision to guide the development of drugs, current situation. Drug Discovery Today, 2016, 21, 573-584.	6.4	32
39	Fine tuning of the pH-sensitivity of laponite-doxorubicin nanohybrids by polyelectrolyte multilayer coating. Materials Science and Engineering C, 2016, 60, 348-356.	7.3	42
40	Why and how have drug discovery strategies in pharma changed? What are the new mindsets?. Drug Discovery Today, 2016, 21, 239-249.	6.4	62
41	PAMAM Dendrimer/pDNA Functionalized-Magnetic Iron Oxide Nanoparticles for Gene Delivery. Journal of Biomedical Nanotechnology, 2015, 11, 1370-1384.	1.1	45
42	Attapulgitte-doped electrospun poly(lactic-co-glycolic acid) nanofibers enable enhanced osteogenic differentiation of human mesenchymal stem cells. RSC Advances, 2015, 5, 2383-2391.	3.6	31
43	RGD Peptide-Modified Dendrimer-Entrapped Gold Nanoparticles Enable Highly Efficient and Specific Gene Delivery to Stem Cells. ACS Applied Materials & Interfaces, 2015, 7, 4833-4843.	8.0	132
44	Thermo/redox/pH-triple sensitive poly(N-isopropylacrylamide-co-acrylic acid) nanogels for anticancer drug delivery. Journal of Materials Chemistry B, 2015, 3, 4221-4230.	5.8	119
45	The Present and the Future of Degradable Dendrimers and Derivatives in Theranostics. Bioconjugate Chemistry, 2015, 26, 1182-1197.	3.6	55
46	Biodegradable Polymer Nanogels for Drug/Nucleic Acid Delivery. Chemical Reviews, 2015, 115, 8564-8608.	47.7	401
47	RGD peptide-modified multifunctional dendrimer platform for drug encapsulation and targeted inhibition of cancer cells. Colloids and Surfaces B: Biointerfaces, 2015, 125, 82-89.	5.0	96
48	Antitumor Efficacy of Doxorubicin-Loaded Laponite/Alginate Hybrid Hydrogels. Macromolecular Bioscience, 2014, 14, 110-120.	4.1	48
49	Antitumor efficacy of doxorubicin encapsulated within PEGylated poly(amidoamine) dendrimers. Journal of Applied Polymer Science, 2014, 131, .	2.6	20
50	Dendrimer-Assisted Formation of Fluorescent Nanogels for Drug Delivery and Intracellular Imaging. Biomacromolecules, 2014, 15, 492-499.	5.4	76
51	Amphiphilic Polymer-Mediated Formation of Laponite-Based Nanohybrids with Robust Stability and pH Sensitivity for Anticancer Drug Delivery. ACS Applied Materials & Interfaces, 2014, 6, 16687-16695.	8.0	87
52	pH-sensitive Laponite®/doxorubicin/alginate nanohybrids with improved anticancer efficacy. Acta Biomaterialia, 2014, 10, 300-307.	8.3	91
53	Redox-Responsive Alginate Nanogels with Enhanced Anticancer Cytotoxicity. Biomacromolecules, 2013, 14, 3140-3146.	5.4	153
54	Carbon nanotube-incorporated multilayered cellulose acetate nanofibers for tissue engineering applications. Carbohydrate Polymers, 2013, 91, 419-427.	10.2	97

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55	Injectable and biodegradable hydrogels: gelation, biodegradation and biomedical applications. Chemical Society Reviews, 2012, 41, 2193-2221.	38.1	1,190
56	Electrospun laponite-doped poly(lactic-co-glycolic acid) nanofibers for osteogenic differentiation of human mesenchymal stem cells. Journal of Materials Chemistry, 2012, 22, 23357.	6.7	91
57	Insight into the role of N,N-dimethylaminoethyl methacrylate (DMAEMA) conjugation onto poly(ethylenimine): cell viability and gene transfection studies. Journal of Materials Science: Materials in Medicine, 2012, 23, 2967-2980.	3.6	21
58	Gene delivery using biodegradable polyelectrolyte microcapsules prepared through the layer-by-layer technique. Biotechnology Progress, 2012, 28, 1088-1094.	2.6	23
59	Calcium phosphate-mediated gene delivery using simulated body fluid (SBF). International Journal of Pharmaceutics, 2012, 434, 199-208.	5.2	36
60	Gene delivery using dendrimer-entrapped gold nanoparticles as nonviral vectors. Biomaterials, 2012, 33, 3025-3035.	11.4	226
61	The Effect of PAMAM Dendrimers on Mesenchymal Stem Cell Viability and Differentiation. Current Medicinal Chemistry, 2012, 19, 4969-4975.	2.4	12
62	Gene Delivery into Mesenchymal Stem Cells: A Biomimetic Approach Using RGD Nanoclusters Based on Poly(amidoamine) Dendrimers. Biomacromolecules, 2011, 12, 472-481.	5.4	80
63	Poly(alkylidenamines) dendrimers as scaffolds for the preparation of low-generation ruthenium based metallodendrimers. New Journal of Chemistry, 2011, 35, 1938.	2.8	21
64	pH sensitive Laponite/alginate hybrid hydrogels: swelling behaviour and release mechanism. Soft Matter, 2011, 7, 6231.	2.7	74
65	Injectable hybrid laponite/alginate hydrogels for sustained release of methylene blue. Journal of Controlled Release, 2011, 152, e55-e57.	9.9	8
66	Non-Viral Gene Delivery to Mesenchymal Stem Cells: Methods, Strategies and Application in Bone Tissue Engineering and Regeneration. Current Gene Therapy, 2011, 11, 46-57.	2.0	132
67	Functionalization of poly(amidoamine) dendrimers with hydrophobic chains for improved gene delivery in mesenchymal stem cells. Journal of Controlled Release, 2010, 144, 55-64.	9.9	176
68	Receptor-Mediated Gene Delivery Using PAMAM Dendrimers Conjugated with Peptides Recognized by Mesenchymal Stem Cells. Molecular Pharmaceutics, 2010, 7, 763-774.	4.6	100
69	Osteoblastic Behavior of Human Bone Marrow Cells Cultured Over Adsorbed Collagen Layer, Over Surface of Collagen Gels, and Inside Collagen Gels. Connective Tissue Research, 2009, 50, 336-346.	2.3	2
70	Osteoblastic Behavior of Human Bone Marrow Cells Cultured Over Adsorbed Collagen Layer, Over Surface of Collagen Gels, and Inside Collagen Gels. Connective Tissue Research, 2009, 50, 336-346.	2.3	11
71	Osteogenic differentiation of mesenchymal stem cells using PAMAM dendrimers as gene delivery vectors. Journal of Controlled Release, 2009, 134, 141-148.	9.9	87
72	Bioinspired superhydrophobic poly(L-lactic acid) surfaces control bone marrow derived cells adhesion and proliferation. Journal of Biomedical Materials Research - Part A, 2009, 91A, 480-488.	4.0	94

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73	Electrochemical characterization of cobalt-based alloys using the mini-cell system. Dental Materials, 2007, 23, 369-373.	3.5	18
74	Separation of poly(amidoamine) (PAMAM) dendrimer generations by dynamic coating capillary electrophoresis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 841, 135-139.	2.3	34
75	Electrochemical characterization of titanium biomaterials using the Mini-cell System. Journal of Materials Science, 2006, 41, 3323-3327.	3.7	3
76	Guanidinoacetate methyltransferase deficiency identified in adults and a child with mental retardation. , 2005, 133A, 122-127.		47
77	The use of rat, rabbit or human bone marrow derived cells for cytocompatibility evaluation of metallic elements. Journal of Materials Science: Materials in Medicine, 1997, 8, 233-238.	3.6	15
78	Effects of Co?Cr corrosion products and corresponding separate metal ions on human osteoblast-like cell cultures. Journal of Materials Science: Materials in Medicine, 1996, 7, 291-296.	3.6	15
79	Activity of Plasma Proteins Regarding Biomaterials Corrosion - pH Effects. , 1995, , 61-71.		1
80	Cast Co-Cr alloy and pure chromium in proteinaceous media: an electrochemical characterization. Journal of Materials Science: Materials in Medicine, 1994, 5, 446-451.	3.6	7