

Helena Toms

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.

77
papers

4,389
citations

33
h-index

66
g-index

84
ext. papers

4,995
ext. citations

8.7
avg, IF

5.8
L-index

#	Paper	IF	Citations
77	Injectable and biodegradable hydrogels: gelation, biodegradation and biomedical applications. <i>Chemical Society Reviews</i> , 2012 , 41, 2193-221	58.5	974
76	Biodegradable Polymer Nanogels for Drug/Nucleic Acid Delivery. <i>Chemical Reviews</i> , 2015 , 115, 8564-6086	68.1	330
75	Gene delivery using dendrimer-entrapped gold nanoparticles as nonviral vectors. <i>Biomaterials</i> , 2012 , 33, 3025-35	15.6	200
74	Functionalization of poly(amidoamine) dendrimers with hydrophobic chains for improved gene delivery in mesenchymal stem cells. <i>Journal of Controlled Release</i> , 2010 , 144, 55-64	11.7	157
73	Redox-responsive alginate nanogels with enhanced anticancer cytotoxicity. <i>Biomacromolecules</i> , 2013 , 14, 3140-6	6.9	134
72	Dendrimers in combination with natural products and analogues as anti-cancer agents. <i>Chemical Society Reviews</i> , 2018 , 47, 514-532	58.5	122
71	Laponite [®] : A key nanoplatform for biomedical applications?. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 2407-2420	6	121
70	RGD peptide-modified dendrimer-entrapped gold nanoparticles enable highly efficient and specific gene delivery to stem cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4833-43	9.5	121
69	Non-viral gene delivery to mesenchymal stem cells: methods, strategies and application in bone tissue engineering and regeneration. <i>Current Gene Therapy</i> , 2011 , 11, 46-57	4.3	114
68	Thermo/redox/pH-triple sensitive poly(N-isopropylacrylamide-co-acrylic acid) nanogels for anticancer drug delivery. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 4221-4230	7.3	102
67	RGD peptide-modified multifunctional dendrimer platform for drug encapsulation and targeted inhibition of cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 125, 82-9	6	87
66	Bioinspired superhydrophobic poly(L-lactic acid) surfaces control bone marrow derived cells adhesion and proliferation. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 91, 480-8	5.4	87
65	Receptor-mediated gene delivery using PAMAM dendrimers conjugated with peptides recognized by mesenchymal stem cells. <i>Molecular Pharmaceutics</i> , 2010 , 7, 763-74	5.6	85
64	Carbon nanotube-incorporated multilayered cellulose acetate nanofibers for tissue engineering applications. <i>Carbohydrate Polymers</i> , 2013 , 91, 419-27	10.3	84
63	Electrospun laponite-doped poly(lactic-co-glycolic acid) nanofibers for osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23357		82
62	Osteogenic differentiation of mesenchymal stem cells using PAMAM dendrimers as gene delivery vectors. <i>Journal of Controlled Release</i> , 2009 , 134, 141-8	11.7	80
61	Amphiphilic polymer-mediated formation of laponite-based nanohybrids with robust stability and pH sensitivity for anticancer drug delivery. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16687-95	9.5	73

60	Gene delivery into mesenchymal stem cells: a biomimetic approach using RGD nanoclusters based on poly(amidoamine) dendrimers. <i>Biomacromolecules</i> , 2011 , 12, 472-81	6.9	72
59	pH-sensitive Laponite(□)/doxorubicin/alginate nanohybrids with improved anticancer efficacy. <i>Acta Biomaterialia</i> , 2014 , 10, 300-7	10.8	70
58	pH sensitive Laponite/alginate hybrid hydrogels: swelling behaviour and release mechanism. <i>Soft Matter</i> , 2011 , 7, 6231	3.6	68
57	Dendrimer-assisted formation of fluorescent nanogels for drug delivery and intracellular imaging. <i>Biomacromolecules</i> , 2014 , 15, 492-9	6.9	67
56	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 ⁶⁰	4	60
55	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	8.8	53
54	Glycodendron/pyropheophorbide-a (Ppa)-functionalized hyaluronic acid as a nanosystem for tumor photodynamic therapy. <i>Carbohydrate Polymers</i> , 2020 , 247, 116749	10.3	48
53	The Present and the Future of Degradable Dendrimers and Derivatives in Theranostics. <i>Bioconjugate Chemistry</i> , 2015 , 26, 1182-97	6.3	47
52	Zwitterion-functionalized dendrimer-entrapped gold nanoparticles for serum-enhanced gene delivery to inhibit cancer cell metastasis. <i>Acta Biomaterialia</i> , 2019 , 99, 320-329	10.8	45
51	Why and how have drug discovery strategies in pharma changed? What are the new mindsets?. <i>Drug Discovery Today</i> , 2016 , 21, 239-49	8.8	43
50	Volatile metabolomic signature of human breast cancer cell lines. <i>Scientific Reports</i> , 2017 , 7, 43969	4.9	43
49	PAMAM Dendrimer/pDNA Functionalized-Magnetic Iron Oxide Nanoparticles for Gene Delivery. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 1370-84	4	43
48	Antitumor efficacy of doxorubicin-loaded laponite/alginate hybrid hydrogels. <i>Macromolecular Bioscience</i> , 2014 , 14, 110-20	5.5	38
47	Bench-to-bedside translation of dendrimers: Reality or utopia? A concise analysis. <i>Advanced Drug Delivery Reviews</i> , 2018 , 136-137, 73-81	18.5	37
46	Guanidinoacetate methyltransferase deficiency identified in adults and a child with mental retardation 2005 , 133A, 122-7		36
45	PAMAM dendrimers: blood-brain barrier transport and neuronal uptake after focal brain ischemia. <i>Journal of Controlled Release</i> , 2018 , 291, 65-79	11.7	36
44	Fine tuning of the pH-sensitivity of laponite-doxorubicin nanohybrids by polyelectrolyte multilayer coating. <i>Materials Science and Engineering C</i> , 2016 , 60, 348-356	8.3	33
43	A glance over doxorubicin based-nanotherapeutics: From proof-of-concept studies to solutions in the market. <i>Journal of Controlled Release</i> , 2020 , 317, 347-374	11.7	33

42	Separation of poly(amidoamine) (PAMAM) dendrimer generations by dynamic coating capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006 , 841, 135-9	3.2	32
41	Breast Cancer Metabolomics: From Analytical Platforms to Multivariate Data Analysis. A Review. <i>Metabolites</i> , 2019 , 9,	5.6	31
40	Calcium phosphate-mediated gene delivery using simulated body fluid (SBF). <i>International Journal of Pharmaceutics</i> , 2012 , 434, 199-208	6.5	31
39	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	4.7	30
38	Polyethylenimine Nanogels Incorporated with Ultrasmall Iron Oxide Nanoparticles and Doxorubicin for MR Imaging-Guided Chemotherapy of Tumors. <i>Bioconjugate Chemistry</i> , 2020 , 31, 907-915	6.3	28
37	Compound high-quality criteria: a new vision to guide the development of drugs, current situation. <i>Drug Discovery Today</i> , 2016 , 21, 573-84	8.8	27
36	Attapulgite-doped electrospun poly(lactic-co-glycolic acid) nanofibers enable enhanced osteogenic differentiation of human mesenchymal stem cells. <i>RSC Advances</i> , 2015 , 5, 2383-2391	3.7	26
35	New anionic poly(alkylideneamine) dendrimers as microbicide agents against HIV-1 infection. <i>Nanoscale</i> , 2019 , 11, 9679-9690	7.7	25
34	Poly(alkylideneimine) Dendrimers Functionalized with the Organometallic Moiety [Ru($\text{ECB}(\text{PPh})_3$)] _n as Promising Drugs Against -Resistant Cancer Cells and Human Mesenchymal Stem Cells. <i>Molecules</i> , 2018 , 23,	4.8	25
33	Polysaccharide-based nanomedicines for cancer immunotherapy: A review. <i>Bioactive Materials</i> , 2021 , 6, 3358-3382	16.7	22
32	Recent therapeutic applications of the theranostic principle with dendrimers in oncology. <i>Science China Materials</i> , 2018 , 61, 1367-1386	7.1	21
31	Gene delivery using biodegradable polyelectrolyte microcapsules prepared through the layer-by-layer technique. <i>Biotechnology Progress</i> , 2012 , 28, 1088-94	2.8	20
30	Insight into the role of N,N-dimethylaminoethyl methacrylate (DMAEMA) conjugation onto poly(ethylenimine): cell viability and gene transfection studies. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 2967-80	4.5	18
29	Poly(alkylideneamines) dendrimers as scaffolds for the preparation of low-generation ruthenium based metallodendrimers. <i>New Journal of Chemistry</i> , 2011 , 35, 1938	3.6	18
28	Antitumor efficacy of doxorubicin encapsulated within PEGylated poly(amidoamine) dendrimers. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	17
27	Implementing a central composite design for the optimization of solid phase microextraction to establish the urinary volatome expression: a first approach for breast cancer. <i>Metabolomics</i> , 2019 , 15, 64	4.7	13
26	The use of rat, rabbit or human bone marrow derived cells for cytocompatibility evaluation of metallic elements. <i>Journal of Materials Science: Materials in Medicine</i> , 1997 , 8, 233-8	4.5	13
25	Electrochemical characterization of cobalt-based alloys using the mini-cell system. <i>Dental Materials</i> , 2007 , 23, 369-73	5.7	13

24	Gene delivery using dendrimer/pDNA complexes immobilized in electrospun fibers using the Layer-by-Layer technique. <i>RSC Advances</i> , 2016 , 6, 97116-97128	3.7	12
23	Untargeted Urinary H NMR-Based Metabolomic Pattern as a Potential Platform in Breast Cancer Detection. <i>Metabolites</i> , 2019 , 9,	5.6	12
22	Effects of CoCr corrosion products and corresponding separate metal ions on human osteoblast-like cell cultures. <i>Journal of Materials Science: Materials in Medicine</i> , 1996 , 7, 291-296	4.5	11
21	Osteoblastic Behavior of Human Bone Marrow Cells Cultured Over Adsorbed Collagen Layer, Over Surface of Collagen Gels, and Inside Collagen Gels. <i>Connective Tissue Research</i> , 2009 , 50, 336-346	3.3	10
20	Engineered non-invasive functionalized dendrimer/dendron-entrapped/complexed gold nanoparticles as a novel class of theranostic (radio)pharmaceuticals in cancer therapy. <i>Journal of Controlled Release</i> , 2021 , 332, 346-366	11.7	10
19	The effect of PAMAM dendrimers on mesenchymal stem cell viability and differentiation. <i>Current Medicinal Chemistry</i> , 2012 , 19, 4969-75	4.3	9
18	Engineered Fluorescent Carbon Dots and G4-G6 PAMAM Dendrimer Nanohybrids for Bioimaging and Gene Delivery. <i>Biomacromolecules</i> , 2021 , 22, 2436-2450	6.9	9
17	Volatomic pattern of breast cancer and cancer-free tissues as a powerful strategy to identify potential biomarkers. <i>Analyst, The</i> , 2019 , 144, 4153-4161	5	8
16	Injectable hybrid laponite/alginate hydrogels for sustained release of methylene blue. <i>Journal of Controlled Release</i> , 2011 , 152 Suppl 1, e55-7	11.7	7
15	Cast Co-Cr alloy and pure chromium in proteinaceous media: an electrochemical characterization. <i>Journal of Materials Science: Materials in Medicine</i> , 1994 , 5, 446-451	4.5	7
14	New insights into the blue intrinsic fluorescence of oxidized PAMAM dendrimers considering their use as bionanomaterials. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 10314-10326	7.3	6
13	Physicochemical Properties and Cell Viability of Shrimp Chitosan Films as Affected by Film Casting Solvents. I-Potential Use as Wound Dressing. <i>Materials</i> , 2020 , 13,	3.5	6
12	First-in-class and best-in-class dendrimer nanoplatforms from concept to clinic: Lessons learned moving forward. <i>European Journal of Medicinal Chemistry</i> , 2021 , 219, 113456	6.8	6
11	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	1.8	4
10	Use of Half-Generation PAMAM Dendrimers (G0.5-G3.5) with Carboxylate End-Groups to Improve the DACHPtCl and 5-FU Efficacy as Anticancer Drugs. <i>Molecules</i> , 2021 , 26,	4.8	4
9	Electrochemical characterization of titanium biomaterials using the Mini-cell System. <i>Journal of Materials Science</i> , 2006 , 41, 3323-3327	4.3	3
8	Self-Assembly of Cholesterol-Doxorubicin and TPGS into Prodrug-Based Nanoparticles with Enhanced Cellular Uptake and Lysosome-Dependent Pathway in Breast Cancer Cells. <i>European Journal of Lipid Science and Technology</i> , 2021 , 123, 2000337	3	3
7	Cyclotriphosphazene-based Derivatives for Antibacterial Applications: An Update on Recent Advances. <i>Current Organic Chemistry</i> , 2021 , 25, 301-314	1.7	3

6	Morpholino-functionalized phosphorus dendrimers for precision regenerative medicine: osteogenic differentiation of mesenchymal stem cells. <i>Nanoscale</i> , 2019 , 11, 17230-17234	7.7	2
5	Osteoblastic Behavior of Human Bone Marrow Cells Cultured Over Adsorbed Collagen Layer, Over Surface of Collagen Gels, and Inside Collagen Gels. <i>Connective Tissue Research</i> , 2009 , 50, 336-346	3.3	2
4	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	11.7	1
3	Activity of Plasma Proteins Regarding Biomaterials Corrosion - pH Effects 1995 , 61-71		1
2	An integrative approach based on GC-qMS and NMR metabolomics data as a comprehensive strategy to search potential breast cancer biomarkers. <i>Metabolomics</i> , 2021 , 17, 72	4.7	0
1	Antitumor Efficacy of Doxorubicin-Loaded Electrospun Attapulgite/Poly(lactic-co-glycolic acid) Composite Nanofibers. <i>Journal of Functional Biomaterials</i> , 2022 , 13, 55	4.8	0