Gennara Cavallaro

List of Publications by Year
in descending order

81 papers	2,155 citations	186265 28 h-index	276875 41 g-index
82 all docs	82 docs citations	82 times ranked	2813 citing authors

#	Article	IF	Citations
1	Polymeric nanoparticles for siRNA delivery: Production and applications. International Journal of Pharmaceutics, 2017, 525, 313-333.	5.2	87
2	Folate-mediated targeting of polymeric conjugates of gemcitabine. International Journal of Pharmaceutics, 2006, 307, 258-269.	5.2	83
3	Pegylated Polyaspartamideâ€"Polylactide-Based Nanoparticles Penetrating Cystic Fibrosis Artificial Mucus. Biomacromolecules, 2016, 17, 767-777.	5.4	74
4	Galactosylated polymeric carriers for liver targeting of sorafenib. International Journal of Pharmaceutics, 2014, 466, 172-180.	5.2	72
5	PEGylated Nanoparticles Based on a Polyaspartamide. Preparation, Physico-Chemical Characterization, and Intracellular Uptake. Biomacromolecules, 2006, 7, 3083-3092.	5.4	70
6	Near-Infrared Light Responsive Folate Targeted Gold Nanorods for Combined Photothermal-Chemotherapy of Osteosarcoma. ACS Applied Materials & Interfaces, 2017, 9, 14453-14469.	8.0	70
7	Highly Homogeneous Biotinylated Carbon Nanodots: Red-Emitting Nanoheaters as Theranostic Agents toward Precision Cancer Medicine. ACS Applied Materials & Interfaces, 2019, 11, 19854-19866.	8.0	61
8	Mucus and Cell-Penetrating Nanoparticles Embedded in <i>Nano</i>-<i>into</i>-<i>Micro</i> Formulations for Pulmonary Delivery of Ivacaftor in Patients with Cystic Fibrosis. ACS Applied Materials & Interfaces, 2018, 10, 165-181.	8.0	59
9	Reversibly stable thiopolyplexes for intracellular delivery of genes. Journal of Controlled Release, 2006, 115, 322-334.	9.9	55
10	Biotin-Containing Reduced Graphene Oxide-Based Nanosystem as a Multieffect Anticancer Agent: Combining Hyperthermia with Targeted Chemotherapy. Biomacromolecules, 2015, 16, 2766-2775.	5.4	49
11	Tamoxifen-Loaded Polymeric Micelles: Preparation, Physico-Chemical Characterization and In Vitro Evaluation Studies. Macromolecular Bioscience, 2004, 4, 1028-1038.	4.1	48
12	Synthesis and characterization of polyaminoacidic polycations for gene delivery. Biomaterials, 2006, 27, 2066-2075.	11.4	48
13	A new water-soluble synthetic polymer, Î±,Î²-polyasparthydrazide, as potential plasma expander and drug carrier. Journal of Controlled Release, 1994, 29, 63-72.	9.9	47
14	Poly(hydroxyethylaspartamide) derivatives as colloidal drug carrier systems. Journal of Controlled Release, 2003, 89, 285-295.	9.9	47
15	Nanocomplexes for gene therapy of respiratory diseases: Targeting and overcoming the mucus barrier. Pulmonary Pharmacology and Therapeutics, 2015, 34, 8-24.	2.6	43
16	Branched High Molecular Weight Glycopolypeptide With Broad-Spectrum Antimicrobial Activity for the Treatment of Biofilm Related Infections. ACS Applied Materials & Interfaces, 2018, 10, 318-331.	8.0	43
17	Galactosylated Micelles for a Ribavirin Prodrug Targeting to Hepatocytes. Biomacromolecules, 2013, 14, 1838-1849.	5.4	42
18	Cell Uptake Enhancement of Folate Targeted Polymer Coated Magnetic Nanoparticles. Journal of Biomedical Nanotechnology, 2013, 9, 949-964.	1.1	42

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19	Phospholipidâ€“polyaspartamide micelles for pulmonary delivery of corticosteroids. International Journal of Pharmaceutics, 2011, 406, 135-144.	5.2	40
20	Novel Composed Galactosylated Nanodevices Containing a Ribavirin Prodrug as Hepatic Cell-Targeted Carriers for HCV Treatment. Journal of Biomedical Nanotechnology, 2013, 9, 1107-1122.	1.1	40
21	Functionalization of Metal and Carbon Nanoparticles with Potential in Cancer Theranostics. Molecules, 2021, 26, 3085.	3.8	39
22	Polymeric Nanocarriers for Magnetic Targeted Drug Delivery: Preparation, Characterization, and in Vitro and in Vivo Evaluation. Molecular Pharmaceutics, 2013, 10, 4397-4407.	4.6	38
23	PHEA-graft-polybutylmethacrylate copolymer microparticles for delivery of hydrophobic drugs. International Journal of Pharmaceutics, 2012, 433, 16-24.	5.2	36
24	PHEAâ€“PLA biocompatible nanoparticles by technique of solvent evaporation from multiple emulsions. International Journal of Pharmaceutics, 2015, 495, 719-727.	5.2	35
25	Î±,Î²-poly(asparthylhydrazide)â€“glycidyltrimethylammonium chloride copolymers (PAHyâ€“GTA): novel polymers with potential for DNA delivery. Journal of Controlled Release, 2001, 77, 139-153.	9.9	31
26	Hepatocyte-targeted fluorescent nanoparticles based on a polyaspartamide for potential theranostic applications. Polymer, 2015, 70, 257-270.	3.8	30
27	When Functionalization of PLA Surfaces Meets Thiolâ€“Yne Photochemistry: Case Study with Antibacterial Polyaspartamide Derivatives. Biomacromolecules, 2014, 15, 4351-4362.	5.4	29
28	Evaluation of mucoadhesive properties of Î±,Î²-poly(N-hydroxyethyl)-dl-aspartamide and Î±,Î²-poly(aspartylhydrazide) using ATRâ€“FTIR spectroscopy. Polymer, 2002, 43, 6281-6286.	3.8	28
29	Synthesis and biopharmaceutical characterisation of new poly(hydroxyethylaspartamide) copolymers as drug carriers. Biochimica Et Biophysica Acta - General Subjects, 2001, 1528, 177-186.	2.4	27
30	Targeted delivery of siRNAs against hepatocellular carcinoma-related genes by a galactosylated polyaspartamide copolymer. Journal of Controlled Release, 2021, 330, 1132-1151.	9.9	27
31	Novel Lipid and Polymeric Materials as Delivery Systems for Nucleic Acid Based Drugs. Current Drug Metabolism, 2015, 16, 427-452.	1.2	26
32	Inulin-Ethylenediamine Coated SPIONs Magnetoplexes: A Promising Tool for Improving siRNA Delivery. Pharmaceutical Research, 2015, 32, 3674-3687.	3.5	25
33	Galactosylated polyaspartamide copolymers for siRNA targeted delivery to hepatocellular carcinoma cells. International Journal of Pharmaceutics, 2017, 525, 397-406.	5.2	23
34	Synthesis, characterization and in vitro cytotoxicity studies of a macromolecular conjugate of paclitaxel bearing oxytocin as targeting moiety. European Journal of Pharmaceutics and Biopharmaceutics, 2007, 66, 182-192.	4.3	22
35	Gold nanostarâ€“polymer hybrids for siRNA delivery: Polymer design towards colloidal stability and in vitro studies on breast cancer cells. International Journal of Pharmaceutics, 2017, 519, 113-124.	5.2	22
36	Preparation of Polymeric Nanoparticles by Photo-Crosslinking of an Acryloylated Polyaspartamide in w/o Microemulsion. Macromolecular Chemistry and Physics, 2004, 205, 1955-1964.	2.2	21

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37	Carbon Nanodots for On Demand Chemophotothermal Therapy Combination to Elicit Necroptosis: Overcoming Apoptosis Resistance in Breast Cancer Cell Lines. Cancers, 2020, 12, 3114.	3.7	21
38	Hyaluronic acid dressing of hydrophobic carbon nanodots: A self-assembling strategy of hybrid nanocomposites with theranostic potential. Carbohydrate Polymers, 2021, 267, 118213.	10.2	21
39	Glycosilated Macromolecular Conjugates of Antiviral Drugs with a Polyaspartamide. Journal of Drug Targeting, 2004, 12, 593-605.	4.4	20
40	New Self-Assembling Polyaspartamide-Based Brush Copolymers Obtained by Atom Transfer Radical Polymerization. Macromolecules, 2009, 42, 3247-3257.	4.8	20
41	Amphiphilic Copolymers Based on Poly[(hydroxyethyl)-<scp>d</scp>,<scp>l</scp>-aspartamide]: A Suitable Functional Coating for Biocompatible Gold Nanostars. Biomacromolecules, 2013, 14, 4260-4270.	5.4	20
42	Polyaspartamideâ€“Polylactide Graft Copolymers with Tunable Properties for the Realization of Fluorescent Nanoparticles for Imaging. Macromolecular Rapid Communications, 2015, 36, 1409-1415.	3.9	20
43	Preparation and Characterization of Inulin Coated Gold Nanoparticles for Selective Delivery of Doxorubicin to Breast Cancer Cells. Journal of Nanomaterials, 2016, 2016, 1-12.	2.7	20
44	Nano into Micro Formulations of Tobramycin for the Treatment of <i>Pseudomonas aeruginosa</i> Infections in Cystic Fibrosis. Biomacromolecules, 2017, 18, 3924-3935.	5.4	20
45	Effect of actively targeted copolymer coating on solid tumors eradication by gold nanorods-induced hyperthermia. International Journal of Pharmaceutics, 2020, 587, 119641.	5.2	20
46	Microfibrillar polymeric ocular inserts for triamcinolone acetonide delivery. International Journal of Pharmaceutics, 2019, 567, 118459.	5.2	19
47	Nanoparticles based on novel amphiphilic polyaspartamide copolymers. Journal of Nanoparticle Research, 2010, 12, 2629-2644.	1.9	18
48	Effects in cigarette smoke stimulated bronchial epithelial cells of a corticosteroid entrapped into nanostructured lipid carriers. Journal of Nanobiotechnology, 2014, 12, 46.	9.1	18
49	Evaluation of biodegradability on polyaspartamide-polylactic acid based nanoparticles by chemical hydrolysis studies. Polymer Degradation and Stability, 2015, 119, 56-67.	5.8	18
50	Improvements in Rational Design Strategies of Inulin Derivative Polycation for siRNA Delivery. Biomacromolecules, 2016, 17, 2352-2366.	5.4	18
51	Carbon Nanodots as Functional Excipient to Develop Highly Stable and Smart PLGA Nanoparticles Useful in Cancer Theranostics. Pharmaceutics, 2020, 12, 1012.	4.5	18
52	Photothermal Ablation of Cancer Cells Using Folate-Coated Gold/ Graphene Oxide Composite. Current Drug Delivery, 2017, 14, 433-443.	1.6	18
53	Polyaspartamide<i>â€graftâ€</i>Polymethacrylate Nanoparticles for Doxorubicin Delivery. Macromolecular Bioscience, 2011, 11, 445-454.	4.1	17
54	Novel cationic polyaspartamide with covalently linked carboxypropyl-trimethyl ammonium chloride as a candidate vector for gene delivery. European Polymer Journal, 2006, 42, 823-834.	5.4	16

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55	Decagram-Scale Synthesis of Multicolor Carbon Nanodots: Self-Tracking Nanoheaters with Inherent and Selective Anticancer Properties. ACS Applied Materials & Interfaces, 2022, 14, 2551-2563.	8.0	15
56	Gold nanostars coated with neutral and charged polyethylene glycols: A comparative study of in-vitro biocompatibility and of their interaction with SH-SY5Y neuroblastoma cells. Journal of Inorganic Biochemistry, 2015, 151, 123-131.	3.5	14
57	mPEG-PLGA Nanoparticles Labelled with Loaded or Conjugated Rhodamine-B for Potential Nose-to-Brain Delivery. Pharmaceutics, 2021, 13, 1508.	4.5	14
58	Conformational analysis of Î±,Î²-poly(N-hydroxyethyl)-dl-aspartamide (PHEA) and Î±,Î²-polyasparthydrazide (PAHy) polymers in aqueous solution. Polymer, 1998, 39, 4159-4164.	3.8	13
59	Development of a novel rapamycin loaded nano- into micro-formulation for treatment of lung inflammation. Drug Delivery and Translational Research, 2022, 12, 1859-1872.	5.8	13
60	Cationic polyaspartamide-based nanocomplexes mediate siRNA entry and down-regulation of the pro-inflammatory mediator high mobility group box 1 in airway epithelial cells. International Journal of Pharmaceutics, 2015, 491, 359-366.	5.2	12
61	Rapamycin-Loaded Polymeric Nanoparticles as an Advanced Formulation for Macrophage Targeting in Atherosclerosis. Pharmaceutics, 2021, 13, 503.	4.5	12
62	Multicomponent polymeric micelles based on polyaspartamide as tunable fluorescent pH-window biosensors. Biosensors and Bioelectronics, 2010, 26, 29-35.	10.1	11
63	Design of New Polyaspartamide Copolymers for siRNA Delivery in Antiasthmatic Therapy. Pharmaceutics, 2020, 12, 89.	4.5	11
64	Macromolecular Prodrugs Based on Synthetic Polyaminoacids: Drug Delivery and Drug Targeting in Antitumor Therapy. Current Topics in Medicinal Chemistry, 2011, 11, 2382-2389.	2.1	10
65	Production of polymeric micro- and nanostructures with tunable properties as pharmaceutical delivery systems. Polymer, 2020, 200, 122596.	3.8	10
66	Supramolecular association of recombinant human growth hormone with hydrophobized polyhydroxyethylaspartamides. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 68, 656-666.	4.3	9
67	Development of polymer-based nanoparticles for zileuton delivery to the lung: PMeOx and PMeOzi surface chemistry reduces interactions with mucins. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 37, 102451.	3.3	9
68	Polyaspartamide-Based Nanoparticles Loaded with Fluticasone Propionate and the In Vitro Evaluation towards Cigarette Smoke Effects. Nanomaterials, 2017, 7, 222.	4.1	8
69	Pressure-Dependent Tuning of Photoluminescence and Size Distribution of Carbon Nanodots for Theranostic Anticancer Applications. Materials, 2020, 13, 4899.	2.9	8
70	Inulin Derivatives Obtained <i>Via</i> Enhanced Microwave Synthesis for Nucleic Acid Based Drug Delivery. Current Drug Targets, 2015, 16, 1650-1659.	2.1	8
71	Printable Thermo- and Photo-stable Poly(D,L-lactide)/Carbon Nanodots Nanocomposites via Heterophase Melt-Extrusion Transesterification. Chemical Engineering Journal, 2022, 443, 136525.	12.7	8
72	Polyanionâ€“tobramycin nanocomplexes into functional microparticles for the treatment of <i>Pseudomonas aeruginosa</i> infections in cystic fibrosis. Nanomedicine, 2017, 12, 25-42.	3.3	7

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73	Combining Inulin Multifunctional Polycation and Magnetic Nanoparticles: Redox-Responsive siRNA-Loaded Systems for Magnetofection. Polymers, 2019, 11, 889.	4.5	7
74	Preparation and Characterization of Gold Nanorods Coated with Gellan Gum and Lipoic Acid. Applied Sciences (Switzerland), 2020, 10, 8322.	2.5	7
75	New copolymers graft of Î±,Î²-poly(N-2-hydroxyethyl)-d,l-aspartamide obtained from atom transfer radical polymerization as vector for gene delivery. Reactive and Functional Polymers, 2012, 72, 268-278.	4.1	6
76	Inhalable nano into micro dry powders for ivacaftor delivery: The role of mannitol and cysteamine as mucus-active agents. International Journal of Pharmaceutics, 2020, 582, 119304.	5.2	6
77	Development of New Targeted Inulin Complex Nanoaggregates for siRNA Delivery in Antitumor Therapy. Molecules, 2021, 26, 1713.	3.8	6
78	Nanometric ion pair complexes of tobramycin forming microparticles for the treatment of Pseudomonas aeruginosa infections in cystic fibrosis. International Journal of Pharmaceutics, 2019, 563, 347-357.	5.2	4
79	Margination of Fluorescent Polylactic Acidâ€“Polyaspartamide based Nanoparticles in Microcapillaries In Vitro: the Effect of Hematocrit and Pressure. Molecules, 2017, 22, 1845.	3.8	3
80	Novel dual-flow perfusion bioreactor for in vitro pre-screening of nanoparticles delivery: design, characterization and testing. Bioprocess and Biosystems Engineering, 2021, 44, 2361-2374.	3.4	2
81	Bioactive Scaffolds Based on Amine-Functionalized Gellan Gum for the Osteogenic Differentiation of Gingival Mesenchymal Stem Cells. ACS Applied Polymer Materials, 2022, 4, 1805-1815.	4.4	1