Martin C Garnett

List of Publications by Year
in descending order

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113 papers	7,504 citations	53751 45 h-index	53190 85 g-index
114 all docs	114 docs citations	114 times ranked	9354 citing authors

#	Article	IF	Citations
1	PLGA nanoparticles prepared by nanoprecipitation: drug loading and release studies of a water soluble drug. Journal of Controlled Release, 1999, 57, 171-185.	4.8	868
2	Quantification of Gastrointestinal Liquid Volumes and Distribution Following a 240 mL Dose of Water in the Fasted State. Molecular Pharmaceutics, 2014, 11, 3039-3047.	2.3	360
3	Polylactideâ^'Poly(ethylene glycol) Copolymers as Drug Delivery Systems. 1. Characterization of Water Dispersible Micelle-Forming Systems. Langmuir, 1996, 12, 2153-2161.	1.6	314
4	Nanomedicines and nanotoxicology: some physiological principles. Occupational Medicine, 2006, 56, 307-311.	0.8	298
5	Physicochemical Evaluation of Nanoparticles Assembled from Poly(lactic acid)â^'Poly(ethylene glycol) (PLAâ^'PEG) Block Copolymers as Drug Delivery Vehicles. Langmuir, 2001, 17, 3168-3174.	1.6	268
6	Surface modification of poly(lactide-co-glycolide) nanospheres by biodegradable poly(lactide)-poly(ethylene glycol) copolymers. Pharmaceutical Research, 1994, 11, 1800-1808.	1.7	265
7	Targeted drug conjugates: principles and progress. Advanced Drug Delivery Reviews, 2001, 53, 171-216.	6.6	250
8	Defining the drug incorporation properties of PLAâ€"PEG nanoparticles. International Journal of Pharmaceutics, 2000, 199, 95-110.	2.6	197
9	Tight junction modulation by chitosan nanoparticles: Comparison with chitosan solution. International Journal of Pharmaceutics, 2010, 400, 183-193.	2.6	197
10	Colloidal stability and drug incorporation aspects of micellar-like PLAâ€"PEG nanoparticles. Colloids and Surfaces B: Biointerfaces, 1999, 16, 147-159.	2.5	190
11	Gene-Delivery Systems Using Cationic Polymers. Critical Reviews in Therapeutic Drug Carrier Systems, 1999, 16, 61.	1.2	186
12	Poly(lactic acid)â^'Poly(ethylene oxide) (PLAâ^'PEG) Nanoparticles:Â NMR Studies of the Central Solidlike PLA Core and the Liquid PEG Corona. Langmuir, 2002, 18, 3669-3675.	1.6	181
13	Multiplexing Spheroid Volume, Resazurin and Acid Phosphatase Viability Assays for High-Throughput Screening of Tumour Spheroids and Stem Cell Neurospheres. PLoS ONE, 2014, 9, e103817.	1.1	176
14	Penetration and Uptake of Nanoparticles in 3D Tumor Spheroids. Bioconjugate Chemistry, 2019, 30, 1371-1384.	1.8	141
15	In vitro cell interaction and in vivo biodistribution of poly(lactide-co-glycolide) nanospheres surface modified by poloxamer and poloxamine copolymers. Journal of Controlled Release, 1997, 44, 65-76.	4.8	136
16	Coreâ^'Shell Structure of PLAâ^'PEG Nanoparticles Used for Drug Delivery. Langmuir, 2003, 19, 8428-8435.	1.6	135
17	Novel Functionalized Biodegradable Polymers for Nanoparticle Drug Delivery Systems. Biomacromolecules, 2005, 6, 1885-1894.	2.6	129
18	The effect of surface coverage and conformation of poly(ethylene oxide) (PEO) chains of poloxamer 407 on the biological fate of model colloidal drug carriers. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1514, 261-279.	1.4	125

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19	Copolymers of amine methacrylate with poly(ethylene glycol) as vectors for gene therapy. Journal of Controlled Release, 2001, 73, 359-380.	4.8	125
20	Effect of Polymer Ionization on the Interaction with DNA in Nonviral Gene Delivery Systems. Biomacromolecules, 2003, 4, 683-690.	2.6	123
21	The effect of poly(ethylene glycol) molecular architecture on cellular interaction and uptake of DNA complexes. Journal of Controlled Release, 2004, 97, 143-156.	4.8	118
22	Preparation and properties of a drug-carrier-antibody conjugate showing selective antibody-directed cytotoxicityin vitro. International Journal of Cancer, 1983, 31, 661-670.	2.3	111
23	Thermoresponsive Polymer Colloids for Drug Delivery and Cancer Therapy. Macromolecular Bioscience, 2011, 11, 1722-1734.	2.1	90
24	Polymer chemical structure is a key determinant of physicochemical and colloidal properties of polymerâ€“DNA complexes for gene delivery. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2000, 1517, 1-18.	2.4	77
25	Polylactide-poly(ethylene Glycol) Micellar-like Particles as Potential Drug Carriers: Production, Colloidal Properties and Biological Performance. Journal of Drug Targeting, 2001, 9, 361-378.	2.1	76
26	The colloidal properties of surfactant-free biodegradable nanospheres from poly(Î²-malic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (a and Engineering Aspects, 1995, 97, 235-245.	2.3	75
27	Basement membrane influences intestinal epithelial cell growth and presents a barrier to the movement of macromolecules. Experimental Cell Research, 2014, 323, 218-231.	1.2	68
28	Microscopic Investigations into PEGâ˜Cationic Polymer-Induced DNA Condensation. Langmuir, 2001, 17, 3185-3193.	1.6	65
29	In vitro cytotoxicity of poly(amidoamine)s: relevance to DNA delivery. Biochimica Et Biophysica Acta - General Subjects, 1999, 1427, 161-174.	1.1	63
30	Absorption-promoting effects of chitosan in airway and intestinal cell lines: A comparative study. International Journal of Pharmaceutics, 2012, 430, 151-160.	2.6	63
31	Enhanced uptake of nanoparticle drug carriers via a thermoresponsive shell enhances cytotoxicity in a cancer cell line. Biomaterials Science, 2013, 1, 434.	2.6	63
32	Influence of polymer architecture on the structure of complexes formed by PEGâ€“tertiary amine methacrylate copolymers and phosphorothioate oligonucleotide. Journal of Controlled Release, 2002, 81, 185-199.	4.8	62
33	Drug incorporation and release of water soluble drugs from novel functionalised poly(glycerol) Tj ETQq1 1 0.784314 rgBT /Overlock 1	4.8	62
34	Preparation and characterisation of rose Bengal-loaded surface-modified albumin nanoparticles. Journal of Controlled Release, 2001, 71, 117-126.	4.8	60
35	Preparation of surface-modified albumin nanospheres. Biomaterials, 1997, 18, 559-565.	5.7	58
36	Long circulating biodegradable poly(phosphazene) nanoparticles surface modified with poly(phosphazene)-poly(ethylene oxide) copolymer. Biomaterials, 1997, 18, 1147-1152.	5.7	58

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37	Ligand density and clustering effects on endocytosis of folate modified nanoparticles. RSC Advances, 2012, 2, 3025.	1.7	54
38	MicroRNA-Based Drugs for Brain Tumors. Trends in Cancer, 2018, 4, 222-238.	3.8	54
39	In Vitro Displacement by Rat Serum of Adsorbed Radiolabeled Poloxamer and Poloxamine Copolymers from Model and Biodegradable Nanospheres. Journal of Pharmaceutical Sciences, 1998, 87, 1242-1248.	1.6	53
40	In vitro co-culture model of medulloblastoma and human neural stem cells for drug delivery assessment. Journal of Biotechnology, 2015, 205, 3-13.	1.9	52
41	Gene therapy used for tissue engineering applicationsâ€. Journal of Pharmacy and Pharmacology, 2010, 59, 329-350.	1.2	51
42	Nanoparticle Transport in Epithelial Cells: Pathway Switching Through Bioconjugation. Small, 2013, 9, 3282-3294.	5.2	50
43	Magnetic Resonance Imaging Quantification of Fasted State Colonic Liquid Pockets in Healthy Humans. Molecular Pharmaceutics, 2017, 14, 2629-2638.	2.3	49
44	Uptake and metabolism of novel biodegradable poly (glycerol-adipate) nanoparticles in DAOY monolayer. Journal of Controlled Release, 2006, 116, 314-321.	4.8	47
45	Preparation and in vitro characterization of HSA-mPEG nanoparticles. International Journal of Pharmaceutics, 1999, 189, 161-170.	2.6	46
46	Oral dosing with papaya latex is an effective anthelmintic treatment for sheep infected with Haemonchus contortus. Parasites and Vectors, 2011, 4, 36.	1.0	45
47	Properties of acyl modified poly(glycerol-adipate) comb-like polymers and their self-assembly into nanoparticles. Journal of Polymer Science Part A, 2016, 54, 3267-3278.	2.5	45
48	Three-dimensional cerebrospinal fluid flow within the human ventricular system. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 123-133.	0.9	41
49	Fc-mediated transport of nanoparticles across airway epithelial cell layers. Journal of Controlled Release, 2012, 158, 479-486.	4.8	41
50	Preparation of sterically stabilized human serum albumin nanospheres using a novel Dextranox-MPEG crosslinking agent. Pharmaceutical Research, 1994, 11, 1588-1592.	1.7	38
51	Synthesis and properties of a biodegradable polymer-drug conjugate: Methotrexate-poly(glycerol) Tj ETQq1 1 0.784314 rgBT /Overloc	2.5	38
52	Determination of Protection from Serum Nuclease Activity by DNAâ€“Polyelectrolyte Complexes Using an Electrophoretic Method. Analytical Biochemistry, 2001, 291, 62-68.	1.1	36
53	Uptake and transport of B 12 -conjugated nanoparticles in airway epithelium. Journal of Controlled Release, 2013, 172, 374-381.	4.8	36
54	Intermolecular interaction and solid state characterization of abietic acid/chitosan solid dispersions possessing antimicrobial and antioxidant properties. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 125, 114-123.	2.0	36

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55	In Silico Screening for Solid Dispersions: The Trouble with Solubility Parameters and Ï‡FH. Molecular Pharmaceutics, 2018, 15, 4654-4667.	2.3	35
56	Evaluation of Poly (Glycerol-Adipate) Nanoparticle Uptake in an In Vitro 3-D Brain Tumor Co-Culture Model. Experimental Biology and Medicine, 2007, 232, 1100-1108.	1.1	34
57	Barrier characteristics of epithelial cultures modelling the airway and intestinal mucosa: A comparison. Biochemical and Biophysical Research Communications, 2011, 415, 579-585.	1.0	33
58	Development of a slow non-viral DNA release system from PDLLA scaffolds fabricated using a supercritical CO2 technique. Biotechnology and Bioengineering, 2007, 98, 679-693.	1.7	30
59	Enhanced nanoparticle uptake into virus infected cells: Could nanoparticles be useful in antiviral therapy?. International Journal of Pharmaceutics, 2018, 547, 572-581.	2.6	29
60	Poly (glycerol adipate) (PGA), an Enzymatically Synthesized Functionalizable Polyester and Versatile Drug Delivery Carrier: A Literature Update. Polymers, 2019, 11, 1561.	2.0	29
61	Adsorption behaviour and conformation of selected poly(ethylene oxide) copolymers on the surface of a model colloidal drug carrier. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 122, 151-159.	2.3	28
62	The assessment of hookworm calreticulin as a potential vaccine for necatoriasis. Parasite Immunology, 2005, 27, 139-146.	0.7	28
63	Development of multicomponent DNA delivery systems based upon poly(amidoamine)â€“PEG co-polymers. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2002, 1576, 269-286.	2.4	26
64	Targeting of polyamidoamineâ€“DNA nanoparticles using the Staudinger ligation: Attachment of an RGD motif either before or after complexation. Bioorganic and Medicinal Chemistry, 2008, 16, 6641-6650.	1.4	26
65	Synthesis of 2'-deoxyuridine and 5-fluoro-2'-deoxyuridine derivatives and evaluation in antibody targeting studies. Journal of Medicinal Chemistry, 1993, 36, 1570-1579.	2.9	25
66	New N-acyl amino acid-functionalized biodegradable polyesters for pharmaceutical and biomedical applications. RSC Advances, 2016, 6, 109401-109405.	1.7	25
67	Exploring the enzymatic degradation of poly(glycerol adipate). European Journal of Pharmaceutics and Biopharmaceutics, 2019, 142, 377-386.	2.0	24
68	Modification of the copolymers poloxamer 407 and poloxamine 908 can affect the physical and biological properties of surface modified nanospheres. Pharmaceutical Research, 1998, 15, 318-324.	1.7	23
69	The influence of synthetic conditions on the stability of methotrexate-monoclonal antibody conjugates determined by reversed phase high performance liquid chromatography. Biomedical Chromatography, 1992, 6, 128-132.	0.8	22
70	Measurement of tumour reactive antibody and antibody conjugate by competition, quantitated by flow cytofluorimetry. Journal of Immunological Methods, 1986, 90, 165-172.	0.6	21
71	Estimation of the Poly(ethylene glycol) Chain Length of L-Polylactide-Polyethylene Glycol in Aqueous Dispersions Using Viscoelastic Measurements. Langmuir, 1995, 11, 1482-1485.	1.6	21
72	Facile synthesis of responsive nanoparticles with reversible, tunable and rapid thermal transitions from biocompatible constituents. Chemical Communications, 2009, , 6068.	2.2	21

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73	Mouse IgG2b monoclonal antibody fragmentation. Journal of Immunological Methods, 1989, 121, 209-217.	0.6	20
74	Penetration and intracellular uptake of poly(glycerol-adipate) nanoparticles into three-dimensional brain tumour cell culture models. Experimental Biology and Medicine, 2016, 241, 466-477.	1.1	19
75	Self-consistent field modelling of poly(lactic acid)â€“poly(ethylene glycol) particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 179, 79-91.	2.3	17
76	Synthesis of nucleoside-boronic esters hydrophobic pro-drugs: A possible route to improve hydrophilic nucleoside drug loading into polymer nanoparticles. Journal of Drug Delivery Science and Technology, 2018, 46, 354-364.	1.4	17
77	Medulloblastoma in childhood: revisiting intrathecal therapy in infants and children. Cancer Chemotherapy and Pharmacology, 2010, 65, 1173-1189.	1.1	16
78	Epithelial Toxicity of Alkylglycoside Surfactants. Journal of Pharmaceutical Sciences, 2013, 102, 114-125.	1.6	16
79	Sensitivity of newly established colorectal cell lines to cytotoxic drugs and monoclonal antibody drug conjugates. British Journal of Cancer, 1987, 56, 722-726.	2.9	15
80	Application of biorelevant saliva-based dissolution for optimisation of orally disintegrating formulations of felodipine. International Journal of Pharmaceutics, 2019, 555, 228-236.	2.6	15
81	Poly (Glycerol Adipate): From a Functionalized Nanocarrier to a Polymeric-Prodrug Matrix to Create Amorphous Solid Dispersions. Journal of Pharmaceutical Sciences, 2020, 109, 1347-1355.	1.6	14
82	A simple and efficient method for polymer coating of iron oxide nanoparticles. Journal of Drug Delivery Science and Technology, 2020, 55, 101460.	1.4	14
83	Rapid Nanogram Scale Screening Method of Microarrays to Evaluate Drugâ€“Polymer Blends Using High-Throughput Printing Technology. Molecular Pharmaceutics, 2017, 14, 2079-2087.	2.3	12
84	Nanoformulation-by-design: an experimental and molecular dynamics study for polymer coated drug nanoparticles. RSC Advances, 2020, 10, 19521-19533.	1.7	12
85	Polymer nanoparticle as a delivery system for ribavirin: Do nanoparticle avoid uptake by Red Blood Cells?. Journal of Drug Delivery Science and Technology, 2020, 56, 101552.	1.4	12
86	Sterically stabilized self-assembling reversibly cross-linked polyelectrolyte complexes with nucleic acids for environmental and medical applications. Biochemical Society Transactions, 2009, 37, 713-716.	1.6	11
87	Comparison of Gene Transfection and Cytotoxicity Mechanisms of Linear Poly(amidoamine) and Branched Poly(ethyleneimine) Polyplexes. Pharmaceutical Research, 2018, 35, 86.	1.7	11
88	Screening and Matching Polymers with Drugs to Improve Drug Incorporation and Retention in Nanoparticles. Molecular Pharmaceutics, 2020, 17, 2083-2098.	2.3	11
89	Biodistribution of methotrexate-monoclonal antibody conjugates and complexes: experimental and clinical studies. Cancer Treatment Reviews, 1987, 14, 411-420.	3.4	10
90	Water Solubility Enhancement of Pyrazolo[3,4-d]pyrimidine Derivatives via Miniaturized Polymerâ€“Drug Microarrays. ACS Medicinal Chemistry Letters, 2018, 9, 193-197.	1.3	10

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91	Development and optimisation of simulated salivary fluid for biorelevant oral cavity dissolution. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 160, 125-133.	2.0	10
92	Delivery of acetogenin-enriched Annona muricata Linn leaf extract by folic acid-conjugated and triphenylphosphonium-conjugated poly(glycerol adipate) nanoparticles to enhance toxicity against ovarian cancer cells. International Journal of Pharmaceutics, 2022, 618, 121636.	2.6	9
93	Unsuitability of monoclonal antibodies to oncogene proteins for anti-tumour drug-targeting. International Journal of Cancer, 1986, 38, 821-827.	2.3	8
94	Characterisation of poly(lactic acid):poly(ethyleneoxide) (PLA:PEG) nanoparticles using the self-consistent theory modelling approach. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 212, 57-64.	2.3	8
95	The anthelmintic efficacy of papaya latex in a rodentâ€“nematode model is not dependent on fasting before treatment. Journal of Helminthology, 2012, 86, 311-316.	0.4	8
96	Correction: Potentiation of Anti-Carcinoembryonic Antigen Immunotoxin Cytotoxicity by Monoclonal Antibodies Reacting with Co-Expressed Carcinoembryonic Antigen Epitopes. Journal of Immunology, 2013, 191, 2019-2019.	0.4	8
97	High-Throughput Spheroid Screens Using Volume, Resazurin Reduction, and Acid Phosphatase Activity. Methods in Molecular Biology, 2017, 1601, 43-59.	0.4	8
98	Highâ€Throughput Miniaturized Screening of Nanoparticle Formation via Inkjet Printing. Macromolecular Materials and Engineering, 2018, 303, 1800146.	1.7	8
99	A novel flow cytometric method for measuring protein digestion within the phagocytic vacuole of polymorphonuclear neutrophils. Journal of Immunological Methods, 1990, 135, 155-161.	0.6	7
100	Increased serum stability and prolonged biological half-life of neocarzinostatin covalently bound to monoclonal antibodies.. Journal of Antibiotics, 1991, 44, 1148-1154.	1.0	7
101	Use of Viscoelastic Measurements for Investigating Interparticle Interactions in Dispersions of Micellar-like Poly(lactic acid)â^Poly(ethylene glycol) Nanoparticles. Langmuir, 2002, 18, 7663-7668.	1.6	7
102	Antigenicity and drug susceptibility of human osteogenic sarcoma cells â€œescapingâ€•a cytotoxic methotrexate-albumin-monoclonal antibody conjugate. British Journal of Cancer, 1984, 49, 559-565.	2.9	6
103	Evaluation of calcium depletion as a strategy for enhancement of mucosal absorption of macromolecules. Biochemical and Biophysical Research Communications, 2012, 418, 128-133.	1.0	6
104	Nanospheres prepared from poly(?-malic acid) benzyl ester copolymers: evidence for their in vitro degradation. Journal of Materials Science: Materials in Medicine, 1996, 7, 161-166.	1.7	5
105	NANOMEDICINES: DELIVERING DRUGS USING BOTTOM UP NANOTECHNOLOGY. International Journal of Nanoscience, 2005, 04, 855-861.	0.4	5
106	Is rat a good model for assessment of particulate-based taste-masked formulations?. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 146, 1-9.	2.0	5
107	Differences in the adsorption behaviour of poly(ethylene oxide) copolymers onto model polystyrene nanoparticles assessed by isothermal titration microcalorimetry correspond to the biological differences. Journal of Drug Targeting, 2005, 13, 449-458.	2.1	4
108	Studies on the mechanism of action of a drugâ€”carrier-antibody conjugate. Biochemical Society Transactions, 1984, 12, 1035-1036.	1.6	3

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109	Mechanism of Free and Conjugated Neocarzinostatin Activity: Studies on Chromophore and Protein Uptake Using a Transferrin-Neocarzinostatin Conjugate. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1997, 52, 245-254.	0.6	2
110	Effect of methotrexate-albumin-monoclonal antibody conjugates on methotrexate-resistant cells. European Journal of Cancer & Clinical Oncology, 1985, 21, 1382.	0.9	1
111	715 Biodistribution of radiolabelled liposomal doxorublcin in mice by scintigraphic imaging. European Journal of Cancer, Supplement, 2003, 1, S215-S216.	2.2	1
112	Tetramethyl rhodamine isothiocyanate-human serum albumin-antibody conjugates: a useful reagent for the assessment of endocytosis of cell-surface antigens. Biochemical Society Transactions, 1987, 15, 431-432.	1.6	0
113	Demonstration of the potentiation of endocytosis of an anti-CEA antibody by a colon carcinoma cell line using anti-CEA/NCA antibodies. European Journal of Cancer & Clinical Oncology, 1987, 23, 1734.	0.9	0