

Alan C. Hunter

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.

52 papers	6,174 citations	31 h-index	52 g-index
52 ext. papers	6,620 ext. citations	8.3 avg, IF	5.91 L-index

#	Paper	IF	Citations
52	Nanomedicine: current status and future prospects. <i>FASEB Journal</i> , 2005 , 19, 311-30	0.9	1492
51	A two-stage poly(ethylenimine)-mediated cytotoxicity: implications for gene transfer/therapy. <i>Molecular Therapy</i> , 2005 , 11, 990-5	11.7	875
50	Factors controlling nanoparticle pharmacokinetics: an integrated analysis and perspective. <i>Annual Review of Pharmacology and Toxicology</i> , 2012 , 52, 481-503	17.9	409
49	Molecular hurdles in polyfectin design and mechanistic background to polycation induced cytotoxicity. <i>Advanced Drug Delivery Reviews</i> , 2006 , 58, 1523-31	18.5	385
48	Poloxamers and poloxamines in nanoparticle engineering and experimental medicine. <i>Trends in Biotechnology</i> , 2000 , 18, 412-20	15.1	313
47	Distinct polymer architecture mediates switching of complement activation pathways at the nanosphere-serum interface: implications for stealth nanoparticle engineering. <i>ACS Nano</i> , 2010 , 4, 6629-38	16.7	235
46	Poly(ethylene glycol)s generate complement activation products in human serum through increased alternative pathway turnover and a MASP-2-dependent process. <i>Molecular Immunology</i> , 2008 , 46, 225-32	4.3	197
45	Material properties in complement activation. <i>Advanced Drug Delivery Reviews</i> , 2011 , 63, 1000-7	18.5	193
44	Polycation cytotoxicity: a delicate matter for nucleic acid therapy focus on polyethylenimine. <i>Soft Matter</i> , 2010 , 6, 4001	3.6	173
43	Complement activation cascade triggered by PEG-PL engineered nanomedicines and carbon nanotubes: the challenges ahead. <i>Journal of Controlled Release</i> , 2010 , 146, 175-81	11.7	142
42	Bypassing adverse injection reactions to nanoparticles through shape modification and attachment to erythrocytes. <i>Nature Nanotechnology</i> , 2017 , 12, 589-594	28.7	121
41	PEGylation of microspheres generates a heterogeneous population of particles with differential surface characteristics and biological performance. <i>FEBS Letters</i> , 2002 , 532, 338-44	3.8	119
40	Complement activation by PEGylated single-walled carbon nanotubes is independent of C1q and alternative pathway turnover. <i>Molecular Immunology</i> , 2008 , 45, 3797-803	4.3	112
39	Recognition by macrophages and liver cells of opsonized phospholipid vesicles and phospholipid headgroups. <i>Pharmaceutical Research</i> , 2001 , 18, 1-8	4.5	109
38	Cationic carriers of genetic material and cell death: a mitochondrial tale. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 1203-9	4.6	102
37	Single-walled carbon nanotube surface control of complement recognition and activation. <i>ACS Nano</i> , 2013 , 7, 1108-19	16.7	100
36	Low and high molecular weight poly(L-lysine)s/poly(L-lysine)-DNA complexes initiate mitochondrial-mediated apoptosis differently. <i>FEBS Letters</i> , 2005 , 579, 6191-8	3.8	98

35	Therapeutic synthetic polymers: a game of Russian roulette?. <i>Drug Discovery Today</i> , 2002 , 7, 998-1001	8.8	73
34	Complement: alive and kicking nanomedicines. <i>Journal of Biomedical Nanotechnology</i> , 2009 , 5, 364-72	4	64
33	Cellular distribution of nonionic micelles. <i>Science</i> , 2004 , 303, 626-8; author reply 626-8	33.3	56
32	Particulate systems for targeting of macrophages: basic and therapeutic concepts. <i>Journal of Innate Immunity</i> , 2012 , 4, 509-28	6.9	53
31	Activation of the human complement system by cholesterol-rich and PEGylated liposomes-modulation of cholesterol-rich liposome-mediated complement activation by elevated serum LDL and HDL levels. <i>Journal of Liposome Research</i> , 2006 , 16, 167-74	6.1	51
30	Concentration dependent structural ordering of poloxamine 908 on polystyrene nanoparticles and their modulatory role on complement consumption. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 3126-33	1.3	50
29	Smart polymers in drug delivery: a biological perspective. <i>Polymer Chemistry</i> , 2017 , 8, 41-51	4.9	45
28	Polyethylenimine-mediated impairment of mitochondrial membrane potential, respiration and membrane integrity: implications for nucleic acid delivery and gene therapy. <i>Mitochondrion</i> , 2012 , 12, 162-8	4.9	41
27	Transformation of 5-ene steroids by the fungus <i>Aspergillus tamarii</i> KITA: mixed molecular fate in lactonization and hydroxylation pathways with identification of a putative 3beta-hydroxy-steroid dehydrogenase/Delta5-Delta4 isomerase pathway. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009 , 1791, 110-7	5	41
26	Complement monitoring of Pluronic 127 gel and micelles: suppression of copolymer-mediated complement activation by elevated serum levels of HDL, LDL, and apolipoproteins AI and B-100. <i>Journal of Controlled Release</i> , 2013 , 170, 167-74	11.7	37
25	The Interplay Between Blood Proteins, Complement, and Macrophages on Nanomedicine Performance and Responses. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019 , 370, 581-592	4.7	35
24	Genomic perspectives in inter-individual adverse responses following nanomedicine administration: The way forward. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 1385-93	18.5	34
23	Complement activation by PEG-functionalized multi-walled carbon nanotubes is independent of PEG molecular mass and surface density. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 469-73	6	32
22	Ordering of binary polymeric nanoparticles on hydrophobic surfaces assembled from low volume fraction dispersions. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13390-1	16.4	32
21	Polymeric particulate technologies for oral drug delivery and targeting: a pathophysiological perspective. <i>Maturitas</i> , 2012 , 73, 5-18	5	28
20	Real-time evidence of surface modification at polystyrene lattices by poloxamine 908 in the presence of serum: in vivo conversion of macrophage-prone nanoparticles to stealth entities by poloxamine 908. <i>FEBS Letters</i> , 2003 , 547, 177-82	3.8	26
19	An unusual ring--a opening and other reactions in steroid transformation by the thermophilic fungus <i>Myceliophthora thermophila</i> . <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2009 , 116, 171-7	5.1	25
18	Application of the quartz crystal microbalance to nanomedicine. <i>Journal of Biomedical Nanotechnology</i> , 2009 , 5, 669-75	4	24

17	Predominant allylic hydroxylation at carbons 6 and 7 of 4 and 5-ene functionalized steroids by the thermophilic fungus <i>Rhizomucor tauricus</i> IMI23312. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2008 , 108, 155-63	5.1	24
16	Ring-B functionalized androst-4-en-3-ones and ring-C substituted pregn-4-en-3-ones undergo differential transformation in <i>Aspergillus tamarii</i> KITA: ring-A transformation with all C-6 substituted steroids and ring-D transformation with C-11 substituents. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2008 , 1761, 360-6	5	24
15	Novel quartz crystal microbalance based biosensor for detection of oral epithelial cell-microparticle interaction in real-time. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1259-65	11.8	23
14	An efficient one-pot synthesis generating 4-ene-3,6-dione functionalised steroids from steroidal 5-en-3beta-ols using a modified Jones oxidation methodology. <i>Steroids</i> , 2006 , 71, 30-3	2.8	22
13	Complement system and the brain: selected pathologies and avenues toward engineering of neurological nanomedicines. <i>Journal of Controlled Release</i> , 2012 , 161, 283-9	11.7	21
12	Transformation of some 3alpha-substituted steroids by <i>Aspergillus tamarii</i> KITA reveals stereochemical restriction of steroid binding orientation in the minor hydroxylation pathway. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010 , 118, 171-6	5.1	19
11	Modification of the Stewart biphasic colorimetric assay for stable and accurate quantitative determination of Pluronic and Tetronic block copolymers for application in biological systems. <i>Analytical Biochemistry</i> , 2007 , 361, 287-93	3.1	19
10	Distinct metabolic handling of 3beta-hydroxy-17a-oxa-D-homo-5alpha-androstan-17-one by the filamentous fungus <i>Aspergillus tamarii</i> KITA: Evidence in support of steroid/hydroxylase binding hypothesis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2007 , 1771, 1254-61	5	17
9	Platelet mimicry: The emperor's new clothes?. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 245-8	6	14
8	AFM visualization of sub-50nm polyplex disposition to the nuclear pore complex without compromising the integrity of the nuclear envelope. <i>Journal of Controlled Release</i> , 2016 , 244, 24-29	11.7	13
7	Fate of novel Quasi reverse steroidal substrates by <i>Aspergillus tamarii</i> KITA: bypass of lactonisation and an exclusive role for the minor hydroxylation pathway. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005 , 1734, 190-7	5	13
6	Volume-activated chloride currents in HeLa cells are blocked by tamoxifen but not by a membrane impermeant quaternary analogue. <i>Cellular Physiology and Biochemistry</i> , 2001 , 11, 99-104	3.9	12
5	Transformation of a series of saturated isomeric steroidal diols by <i>Aspergillus tamarii</i> KITA reveals a precise stereochemical requirement for entrance into the lactonization pathway. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010 , 122, 352-8	5.1	9
4	Transformation of structurally diverse steroidal analogues by the fungus <i>Corynespora cassiicola</i> CBS 161.60 results in generation of 8monohydroxylated metabolites with evidence in favour of 8hydroxylation through inverted binding in the 9hydroxylase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011 , 1811, 1054-61	5	8
3	Surfactant-mediated complement activation in beagle dogs. <i>International Immunopharmacology</i> , 2013 , 17, 33-4	5.8	7
2	Synthetic polymers in 21st century therapeutics: the way forward. <i>Drug Discovery Today</i> , 2003 , 8, 154-6	8.8	4
1	Quartz Crystal Microbalance Assay of Clinical Calcinosis Samples and Their Synthetic Models Differentiates the Efficacy of Chelation-Based Treatments. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27544-27552	9.5	3