

# Marianne Manchester

## 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.

75  
papers

5,968  
citations

43  
h-index

76  
g-index

76  
ext. papers

6,402  
ext. citations

9.1  
avg, IF

5.52  
L-index

#	Paper	IF	Citations
75	Labeling live cells by copper-catalyzed alkyne-azide click chemistry. <i>Bioconjugate Chemistry</i> , <b>2010</b> , 21, 1912-6	6.3	313
74	Viral nanoparticles as tools for intravital vascular imaging. <i>Nature Medicine</i> , <b>2006</b> , 12, 354-60	50.5	303
73	Complete mutagenesis of the HIV-1 protease. <i>Nature</i> , <b>1989</b> , 340, 397-400	50.4	302
72	Accelerated bioorthogonal conjugation: a practical method for the ligation of diverse functional molecules to a polyvalent virus scaffold. <i>Bioconjugate Chemistry</i> , <b>2005</b> , 16, 1572-9	6.3	263
71	Virus-based nanoparticles (VNPs): platform technologies for diagnostic imaging. <i>Advanced Drug Delivery Reviews</i> , <b>2006</b> , 58, 1505-22	18.5	235
70	Hybrid virus-polymer materials. 1. Synthesis and properties of PEG-decorated cowpea mosaic virus. <i>Biomacromolecules</i> , <b>2003</b> , 4, 472-6	6.9	207
69	Bio-distribution, toxicity and pathology of cowpea mosaic virus nanoparticles in vivo. <i>Journal of Controlled Release</i> , <b>2007</b> , 120, 41-50	11.7	195
68	Folic acid-mediated targeting of cowpea mosaic virus particles to tumor cells. <i>Chemistry and Biology</i> , <b>2007</b> , 14, 1152-62		190
67	Viral MRI contrast agents: coordination of Gd by native virions and attachment of Gd complexes by azide-alkyne cycloaddition. <i>Chemical Communications</i> , <b>2007</b> , 1269-71	5.8	176
66	Viral nanoparticles and virus-like particles: platforms for contemporary vaccine design. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2011</b> , 3, 174-196	9.2	155
65	Systemic trafficking of plant virus nanoparticles in mice via the oral route. <i>Virology</i> , <b>2005</b> , 343, 224-35	3.6	148
64	Metabolomics implicates altered sphingolipids in chronic pain of neuropathic origin. <i>Nature Chemical Biology</i> , <b>2012</b> , 8, 232-4	11.7	141
63	Viruses and their uses in nanotechnology. <i>Drug Development Research</i> , <b>2006</b> , 67, 23-41	5.1	140
62	Evasion of host defenses by measles virus: wild-type measles virus infection interferes with induction of Alpha/Beta interferon production. <i>Journal of Virology</i> , <b>2000</b> , 74, 7478-84	6.6	138
61	Endothelial targeting of cowpea mosaic virus (CPMV) via surface vimentin. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000417	11.7	137
60	Hydrazone ligation strategy to assemble multifunctional viral nanoparticles for cell imaging and tumor targeting. <i>Nano Letters</i> , <b>2010</b> , 10, 1093-7	11.5	133
59	PEGylated viral nanoparticles for biomedicine: the impact of PEG chain length on VNP cell interactions in vitro and ex vivo. <i>Biomacromolecules</i> , <b>2009</b> , 10, 784-92	6.9	116

58	Clinical isolates of measles virus use CD46 as a cellular receptor. <i>Journal of Virology</i> , <b>2000</b> , 74, 3967-74	6.6	115
57	Nanostructure initiator mass spectrometry: tissue imaging and direct biofluid analysis. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 2969-75	7.8	110
56	Intravital imaging of embryonic and tumor neovasculature using viral nanoparticles. <i>Nature Protocols</i> , <b>2010</b> , 5, 1406-17	18.8	108
55	Buckyballs meet viral nanoparticles: candidates for biomedicine. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17093-5	16.4	108
54	Dissecting sites important for complement regulatory activity in membrane cofactor protein (MCP; CD46). <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 37692-701	5.4	106
53	Virus-Based Nanoparticles as Versatile Nanomachines. <i>Annual Review of Virology</i> , <b>2015</b> , 2, 379-401	14.6	100
52	Cowpea mosaic virus nanoparticles target surface vimentin on cancer cells. <i>Nanomedicine</i> , <b>2011</b> , 6, 351-64	6.46	97
51	Potato virus X as a novel platform for potential biomedical applications. <i>Nano Letters</i> , <b>2010</b> , 10, 305-12	11.5	89
50	Plasma clearance of bacteriophage Qbeta particles as a function of surface charge. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 1328-34	16.4	88
49	Detection of carbohydrates and steroids by cation-enhanced nanostructure-initiator mass spectrometry (NIMS) for biofluid analysis and tissue imaging. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 121-8	7.8	87
48	A soluble receptor decoy protects rats against anthrax lethal toxin challenge. <i>Journal of Infectious Diseases</i> , <b>2005</b> , 192, 1047-51	7	80
47	Canine parvovirus-like particles, a novel nanomaterial for tumor targeting. <i>Journal of Nanobiotechnology</i> , <b>2006</b> , 4, 2	9.4	79
46	A view from above: cloud plots to visualize global metabolomic data. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 798-804	7.84	72
45	A viral nanoparticle with dual function as an anthrax antitoxin and vaccine. <i>PLoS Pathogens</i> , <b>2007</b> , 3, 1422-31	7.31	68
44	Organic and inorganic nanoparticle hybrids. <i>Langmuir</i> , <b>2005</b> , 21, 2098-103	4	64
43	Inhibition of fatty acid metabolism ameliorates disease activity in an animal model of multiple sclerosis. <i>Scientific Reports</i> , <b>2011</b> , 1, 79	4.9	61
42	Measles virus recognizes its receptor, CD46, via two distinct binding domains within SCR1-2. <i>Virology</i> , <b>1997</b> , 233, 174-84	3.6	58
41	Interaction of Cowpea mosaic virus (CPMV) nanoparticles with antigen presenting cells in vitro and in vivo. <i>PLoS ONE</i> , <b>2009</b> , 4, e7981	3.7	56

40	Measles virus infects and suppresses proliferation of T lymphocytes from transgenic mice bearing human signaling lymphocytic activation molecule. <i>Journal of Virology</i> , <b>2003</b> , 77, 3505-15	6.6	54
39	Characterization of the inflammatory response during acute measles encephalitis in NSE-CD46 transgenic mice. <i>Journal of Neuroimmunology</i> , <b>1999</b> , 96, 207-17	3.5	52
38	Decrease in measles virus-specific CD4 T cell memory in vaccinated subjects. <i>Journal of Infectious Diseases</i> , <b>2004</b> , 190, 1387-95	7	49
37	Interaction between a 54-kilodalton mammalian cell surface protein and cowpea mosaic virus. <i>Journal of Virology</i> , <b>2007</b> , 81, 1632-40	6.6	48
36	Site-specific and Spatially Controlled Addressability of a New Viral Nanobuilding Block: Sulfolobus islandicus Rod-shaped Virus 2. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3478-3486	15.6	47
35	Guiding plant virus particles to integrin-displaying cells. <i>Nanoscale</i> , <b>2012</b> , 4, 3698-705	7.7	45
34	Transferrin-mediated targeting of bacteriophage HK97 nanoparticles into tumor cells. <i>Nanomedicine</i> , <b>2011</b> , 6, 55-68	5.6	45
33	Targeting and hematopoietic suppression of human CD34+ cells by measles virus. <i>Journal of Virology</i> , <b>2002</b> , 76, 6636-42	6.6	44
32	Viral nanoparticles associate with regions of inflammation and blood brain barrier disruption during CNS infection. <i>Journal of Neuroimmunology</i> , <b>2009</b> , 211, 66-72	3.5	43
31	Multivalent display of proteins on viral nanoparticles using molecular recognition and chemical ligation strategies. <i>Biomacromolecules</i> , <b>2011</b> , 12, 2293-301	6.9	42
30	Endocytic uptake pathways utilized by CPMV nanoparticles. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 26-32	5.6	40
29	Anti-toxin antibodies in prophylaxis and treatment of inhalation anthrax. <i>Future Microbiology</i> , <b>2009</b> , 4, 35-43	2.9	39
28	Anthrax toxin receptor 2-dependent lethal toxin killing in vivo. <i>PLoS Pathogens</i> , <b>2006</b> , 2, e111	7.6	38
27	Characterization of polymorphism displayed by the coat protein mutants of tomato bushy stunt virus. <i>Virology</i> , <b>2006</b> , 349, 222-9	3.6	35
26	Structural and functional studies of the measles virus hemagglutinin: identification of a novel site required for CD46 interaction. <i>Virology</i> , <b>1999</b> , 256, 142-51	3.6	35
25	CD46 as a measles receptor: form follows function. <i>Virology</i> , <b>2000</b> , 274, 5-10	3.6	34
24	Interaction of cowpea mosaic virus nanoparticles with surface vimentin and inflammatory cells in atherosclerotic lesions. <i>Nanomedicine</i> , <b>2012</b> , 7, 877-88	5.6	32
23	Response and recovery in the plasma metabolome tracks the acute LCMV-induced immune response. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 3578-87	5.6	31

22	Novel strategy for inhibiting viral entry by use of a cellular receptor-plant virus chimera. <i>Journal of Virology</i> , <b>2002</b> , 76, 4412-9	6.6	31
21	Chemically modified viruses: principles and applications. <i>Current Opinion in Chemical Biology</i> , <b>2010</b> , 14, 810-7	9.7	29
20	Amiodarone and bepridil inhibit anthrax toxin entry into host cells. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2007</b> , 51, 2403-11	5.9	29
19	Model Systems: transgenic mouse models for measles pathogenesis. <i>Trends in Microbiology</i> , <b>2001</b> , 9, 19-23	12.4	29
18	Tomato bushy stunt virus (TBSV), a versatile platform for polyvalent display of antigenic epitopes and vaccine design. <i>Virology</i> , <b>2009</b> , 388, 185-90	3.6	28
17	Metabolomics: Strategies to Define the Role of Metabolism in Virus Infection and Pathogenesis. <i>Advances in Virus Research</i> , <b>2017</b> , 98, 57-81	10.7	27
16	Efficient neutralization of antibody-resistant forms of anthrax toxin by a soluble receptor decoy inhibitor. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2009</b> , 53, 1210-2	5.9	24
15	A model of measles virus-induced immunosuppression: enhanced susceptibility of neonatal human PBLs. <i>Nature Medicine</i> , <b>1996</b> , 2, 1250-4	50.5	23
14	Chemical addressability of ultraviolet-inactivated viral nanoparticles (VNPs). <i>PLoS ONE</i> , <b>2008</b> , 3, e3315	3.7	23
13	Differential uptake of chemically modified cowpea mosaic virus nanoparticles in macrophage subpopulations present in inflammatory and tumor microenvironments. <i>Biomacromolecules</i> , <b>2012</b> , 13, 3320-6	6.9	19
12	Readily accessible fluorescent probes for sensitive biological imaging of hydrogen peroxide. <i>ChemBioChem</i> , <b>2013</b> , 14, 593-8	3.8	19
11	Microscale memory characteristics of virus-quantum dot hybrids. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 21410-4	3.4	19
10	Synthesis and Characterization of Iron Oxide Derivatized Mutant Cowpea Mosaic Virus Hybrid Nanoparticles. <i>Advanced Materials</i> , <b>2008</b> , 20, 4816-4820	24	15
9	Viruses and nanotechnology. Preface. <i>Current Topics in Microbiology and Immunology</i> , <b>2009</b> , 327, v-vi	3.3	14
8	Lysine addressability and mammalian cell interactions of bacteriophage $\phi$ procapsids. <i>Biomacromolecules</i> , <b>2013</b> , 14, 4169-76	6.9	12
7	Disease model: dissecting the pathogenesis of the measles virus. <i>Trends in Molecular Medicine</i> , <b>2001</b> , 7, 85-8	11.5	11
6	Delayed toxicity associated with soluble anthrax toxin receptor decoy-Ig fusion protein treatment. <i>PLoS ONE</i> , <b>2012</b> , 7, e34611	3.7	10
5	Alterations in Spinal Cord Metabolism during Treatment of Neuropathic Pain. <i>Journal of NeuroImmune Pharmacology</i> , <b>2015</b> , 10, 396-401	6.9	7

4	Localization of gadolinium-loaded CPMV to sites of inflammation during central nervous system autoimmunity. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 5256-5263	7.3	6
3	The Use of Viruses in Biomedical Nanotechnology <b>2010</b> , 289-311		1
2	Single-Point Mutations in Q Virus-like Particles Change Binding to Cells. <i>Biomacromolecules</i> , <b>2021</b> , 22, 3332-3341	6.9	1
1	Why provide an opinions section in PLoS pathogens?. <i>PLoS Pathogens</i> , <b>2005</b> , 1, e13	7.6	