Marianne Manchester

List of Publications by Year
in descending order

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75 papers	6,821 citations	50276 46 h-index	79698 73 g-index
76 all docs	76 docs citations	76 times ranked	6963 citing authors

#	Article	IF	Citations
1	Complete mutagenesis of the HIV-1 protease. Nature, 1989, 340, 397-400.	27.8	357
2	Labeling Live Cells by Copper-Catalyzed Alkyneâ˜'Azide Click Chemistry. Bioconjugate Chemistry, 2010, 21, 1912-1916.	3.6	347
3	Viral nanoparticles as tools for intravital vascular imaging. Nature Medicine, 2006, 12, 354-360.	30.7	329
4	Accelerated Bioorthogonal Conjugation:â€‰ A Practical Method for the Ligation of Diverse Functional Molecules to a Polyvalent Virus Scaffold. Bioconjugate Chemistry, 2005, 16, 1572-1579.	3.6	287
5	Virus-based nanoparticles (VNPs): Platform technologies for diagnostic imagingâ˜†. Advanced Drug Delivery Reviews, 2006, 58, 1505-1522.	13.7	268
6	Bio-distribution, toxicity and pathology of cowpea mosaic virus nanoparticles in vivo. Journal of Controlled Release, 2007, 120, 41-50.	9.9	229
7	Hybrid Virusâ˜'Polymer Materials. 1. Synthesis and Properties of PEG-Decorated Cowpea Mosaic Virus. Biomacromolecules, 2003, 4, 472-476.	5.4	218
8	Folic Acid-Mediated Targeting of Cowpea Mosaic Virus Particles to Tumor Cells. Chemistry and Biology, 2007, 14, 1152-1162.	6.0	213
9	Viral nanoparticles and virusâ€like particles: platforms for contemporary vaccine design. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2011, 3, 174-196.	6.1	189
10	Viral MRI contrast agents: coordination of Gd by native virions and attachment of Gd complexes by azideâ€“alkyne cycloaddition. Chemical Communications, 2007, , 1269-1271.	4.1	187
11	Metabolomics implicates altered sphingolipids in chronic pain of neuropathic origin. Nature Chemical Biology, 2012, 8, 232-234.	8.0	183
12	Systemic trafficking of plant virus nanoparticles in mice via the oral route. Virology, 2005, 343, 224-235.	2.4	162
13	Viruses and their uses in nanotechnology. Drug Development Research, 2006, 67, 23-41.	2.9	161
14	Endothelial Targeting of Cowpea Mosaic Virus (CPMV) via Surface Vimentin. PLoS Pathogens, 2009, 5, e1000417.	4.7	160
15	Evasion of Host Defenses by Measles Virus: Wild-Type Measles Virus Infection Interferes with Induction of Alpha/Beta Interferon Production. Journal of Virology, 2000, 74, 7478-7484.	3.4	156
16	Hydrazone Ligation Strategy to Assemble Multifunctional Viral Nanoparticles for Cell Imaging and Tumor Targeting. Nano Letters, 2010, 10, 1093-1097.	9.1	144
17	Virus-Based Nanoparticles as Versatile Nanomachines. Annual Review of Virology, 2015, 2, 379-401.	6.7	136
18	Intravital imaging of embryonic and tumor neovasculature using viral nanoparticles. Nature Protocols, 2010, 5, 1406-1417.	12.0	129

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19	PEGylated Viral Nanoparticles for Biomedicine: The Impact of PEG Chain Length on VNP Cell Interactions In Vitro and Ex Vivo. Biomacromolecules, 2009, 10, 784-792.	5.4	128
20	Dissecting Sites Important for Complement Regulatory Activity in Membrane Cofactor Protein (MCP;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.4	126
21	Clinical Isolates of Measles Virus Use CD46 as a Cellular Receptor. Journal of Virology, 2000, 74, 3967-3974.	3.4	123
22	Buckyballs Meet Viral Nanoparticles: Candidates for Biomedicine. Journal of the American Chemical Society, 2009, 131, 17093-17095.	13.7	119
23	Nanostructure Initiator Mass Spectrometry: Tissue Imaging and Direct Biofluid Analysis. Analytical Chemistry, 2009, 81, 2969-2975.	6.5	117
24	Cowpea mosaic virus nanoparticles target surface vimentin on cancer cells. Nanomedicine, 2011, 6, 351-364.	3.3	107
25	Plasma Clearance of Bacteriophage QÎ² Particles as a Function of Surface Charge. Journal of the American Chemical Society, 2008, 130, 1328-1334.	13.7	105
26	Potato Virus X as a Novel Platform for Potential Biomedical Applications. Nano Letters, 2010, 10, 305-312.	9.1	99
27	Canine parvovirus-like particles, a novel nanomaterial for tumor targeting. Journal of Nanobiotechnology, 2006, 4, 2.	9.1	97
28	Detection of Carbohydrates and Steroids by Cation-Enhanced Nanostructure-Initiator Mass Spectrometry (NIMS) for Biofluid Analysis and Tissue Imaging. Analytical Chemistry, 2010, 82, 121-128.	6.5	94
29	A Soluble Receptor Decoy Protects Rats against Anthrax Lethal Toxin Challenge. Journal of Infectious Diseases, 2005, 192, 1047-1051.	4.0	89
30	A View from Above: Cloud Plots to Visualize Global Metabolomic Data. Analytical Chemistry, 2013, 85, 798-804.	6.5	85
31	Inhibition of fatty acid metabolism ameliorates disease activity in an animal model of multiple sclerosis. Scientific Reports, 2011, 1, 79.	3.3	81
32	A Viral Nanoparticle with Dual Function as an Anthrax Antitoxin and Vaccine. PLoS Pathogens, 2007, 3, e142.	4.7	76
33	Organic and Inorganic Nanoparticle Hybrids. Langmuir, 2005, 21, 2098-2103.	3.5	72
34	Measles Virus Recognizes Its Receptor, CD46, via Two Distinct Binding Domains within SCR1-2. Virology, 1997, 233, 174-184.	2.4	63
35	Measles Virus Infects and Suppresses Proliferation of T Lymphocytes from Transgenic Mice Bearing Human Signaling Lymphocytic Activation Molecule. Journal of Virology, 2003, 77, 3505-3515.	3.4	62
36	Decrease in Measles Virusâ€“Specific CD4 T Cell Memory in Vaccinated Subjects. Journal of Infectious Diseases, 2004, 190, 1387-1395.	4.0	59

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37	Characterization of the inflammatory response during acute measles encephalitis in NSE-CD46 transgenic mice. Journal of Neuroimmunology, 1999, 96, 207-217.	2.3	58
38	Interaction of Cowpea Mosaic Virus (CPMV) Nanoparticles with Antigen Presenting Cells In Vitro and In Vivo. PLoS ONE, 2009, 4, e7981.	2.5	58
39	Targeting and Hematopoietic Suppression of Human CD34+ Cells by Measles Virus. Journal of Virology, 2002, 76, 6636-6642.	3.4	55
40	Siteâ€specific and Spatially Controlled Addressability of a New Viral Nanobuilding Block: Sulfolobus islandicus Rodâ€shaped Virus 2. Advanced Functional Materials, 2008, 18, 3478-3486.	14.9	54
41	Interaction between a 54-Kilodalton Mammalian Cell Surface Protein and Cowpea Mosaic Virus. Journal of Virology, 2007, 81, 1632-1640.	3.4	53
42	Transferrin-mediated targeting of bacteriophage HK97 nanoparticles into tumor cells. Nanomedicine, 2011, 6, 55-68.	3.3	52
43	Endocytic Uptake Pathways Utilized by CPMV Nanoparticles. Molecular Pharmaceutics, 2013, 10, 26-32.	4.6	52
44	Metabolomics. Advances in Virus Research, 2017, 98, 57-81.	2.1	51
45	Guiding plant virus particles to integrin-displaying cells. Nanoscale, 2012, 4, 3698.	5.6	50
46	Viral nanoparticles associate with regions of inflammation and blood brain barrier disruption during CNS infection. Journal of Neuroimmunology, 2009, 211, 66-72.	2.3	49
47	Multivalent Display of Proteins on Viral Nanoparticles Using Molecular Recognition and Chemical Ligation Strategies. Biomacromolecules, 2011, 12, 2293-2301.	5.4	49
48	Anti-toxin antibodies in prophylaxis and treatment of inhalation anthrax. Future Microbiology, 2009, 4, 35-43.	2.0	46
49	Anthrax Toxin Receptor 2â€“Dependent Lethal Toxin Killing In Vivo. PLoS Pathogens, 2006, 2, e111.	4.7	41
50	Structural and Functional Studies of the Measles Virus Hemagglutinin: Identification of a Novel Site Required for CD46 Interaction. Virology, 1999, 256, 142-151.	2.4	38
51	Characterization of polymorphism displayed by the coat protein mutants of tomato bushy stunt virus. Virology, 2006, 349, 222-229.	2.4	38
52	CD46 as a Measles Receptor: Form Follows Function. Virology, 2000, 274, 5-10.	2.4	35
53	Model Systems: Transgenic mouse models for measles pathogenesis. Trends in Microbiology, 2001, 9, 19-23.	7.7	35
54	Novel Strategy for Inhibiting Viral Entry by Use of a Cellular Receptor-Plant Virus Chimera. Journal of Virology, 2002, 76, 4412-4419.	3.4	35

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55	Chemically modified viruses: principles and applications. Current Opinion in Chemical Biology, 2010, 14, 810-817.	6.1	34
56	Interaction of cowpea mosaic virus nanoparticles with surface vimentin and inflammatory cells in atherosclerotic lesions. Nanomedicine, 2012, 7, 877-888.	3.3	34
57	Amiodarone and Bepridil Inhibit Anthrax Toxin Entry into Host Cells. Antimicrobial Agents and Chemotherapy, 2007, 51, 2403-2411.	3.2	33
58	Response and Recovery in the Plasma Metabolome Tracks the Acute LCMV-Induced Immune Response. Journal of Proteome Research, 2009, 8, 3578-3587.	3.7	32
59	A model of measles virusâ€“induced immunosuppression: Enhanced susceptibility of neonatal human PBLs. Nature Medicine, 1996, 2, 1250-1254.	30.7	31
60	Tomato bushy stunt virus (TBSV), a versatile platform for polyvalent display of antigenic epitopes and vaccine design. Virology, 2009, 388, 185-190.	2.4	30
61	Efficient Neutralization of Antibody-Resistant Forms of Anthrax Toxin by a Soluble Receptor Decoy Inhibitor. Antimicrobial Agents and Chemotherapy, 2009, 53, 1210-1212.	3.2	27
62	Readily Accessible Fluorescent Probes for Sensitive Biological Imaging of Hydrogen Peroxide. ChemBioChem, 2013, 14, 593-598.	2.6	26
63	Microscale memory characteristics of virus-quantum dot hybrids. Applied Physics Letters, 2007, 90, 214104.	3.3	25
64	Chemical Addressability of Ultraviolet-Inactivated Viral Nanoparticles (VNPs). PLoS ONE, 2008, 3, e3315.	2.5	25
65	Differential Uptake of Chemically Modified Cowpea Mosaic Virus Nanoparticles in Macrophage Subpopulations Present in Inflammatory and Tumor Microenvironments. Biomacromolecules, 2012, 13, 3320-3326.	5.4	19
66	Synthesis and Characterization of Iron Oxide Derivatized Mutant Cowpea Mosaic Virus Hybrid Nanoparticles. Advanced Materials, 2008, 20, 4816-4820.	21.0	17
67	Single-Point Mutations in QÎ² Virus-like Particles Change Binding to Cells. Biomacromolecules, 2021, 22, 3332-3341.	5.4	14
68	Viruses and nanotechnology. Preface. Current Topics in Microbiology and Immunology, 2009, 327, v-vi.	1.1	14
69	Disease model: dissecting the pathogenesis of the measles virus. Trends in Molecular Medicine, 2001, 7, 85-88.	6.7	13
70	Lysine Addressability and Mammalian Cell Interactions of Bacteriophage Î» Procapsids. Biomacromolecules, 2013, 14, 4169-4176.	5.4	13
71	Delayed Toxicity Associated with Soluble Anthrax Toxin Receptor Decoy-Ig Fusion Protein Treatment. PLoS ONE, 2012, 7, e34611.	2.5	13
72	Alterations in Spinal Cord Metabolism during Treatment of Neuropathic Pain. Journal of NeuroImmune Pharmacology, 2015, 10, 396-401.	4.1	8

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73	Localization of gadolinium-loaded CPMV to sites of inflammation during central nervous system autoimmunity. Journal of Materials Chemistry B, 2013, 1, 5256.	5.8	6
74	The Use of Viruses in Biomedical Nanotechnology. , 2010, , 289-311.		1
75	Why Provide an Opinions Section in PLoS Pathogens?. PLoS Pathogens, 2005, 1, e13.	4.7	0