John T Wilson

List of Publications by Year in descending order

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57 papers	3,078 citations	236925 25 h-index	182427 51 g-index
60 all docs	60 docs citations	60 times ranked	3930 citing authors

#	Article	IF	Citations
1	Endosomolytic polymersomes increase the activity of cyclic dinucleotide STING agonists to enhance cancer immunotherapy. Nature Nanotechnology, 2019, 14, 269-278.	31.5	406
2	pH-Responsive Nanoparticle Vaccines for Dual-Delivery of Antigens and Immunostimulatory Oligonucleotides. ACS Nano, 2013, 7, 3912-3925.	14.6	280
3	Challenges and emerging technologies in the immunoisolation of cells and tissues. Advanced Drug Delivery Reviews, 2008, 60, 124-145.	13.7	183
4	Cell Surface Engineering with Polyelectrolyte Multilayer Thin Films. Journal of the American Chemical Society, 2011, 133, 7054-7064.	13.7	178
5	Layer-by-Layer Assembly of a Conformal Nanothin PEG Coating for Intraportal Islet Transplantation. Nano Letters, 2008, 8, 1940-1948.	9.1	177
6	Therapeutically Active RIG-I Agonist Induces Immunogenic Tumor Cell Killing in Breast Cancers. Cancer Research, 2018, 78, 6183-6195.	0.9	130
7	Neutral polymer micelle carriers with pH-responsive, endosome-releasing activity modulate antigen trafficking to enhance CD8+ T cell responses. Journal of Controlled Release, 2014, 191, 24-33.	9.9	119
8	Noncovalent Cell Surface Engineering with Cationic Graft Copolymers. Journal of the American Chemical Society, 2009, 131, 18228-18229.	13.7	107
9	Co-delivery of Peptide Neoantigens and Stimulator of Interferon Genes Agonists Enhances Response to Cancer Vaccines. ACS Nano, 2020, 14, 9904-9916.	14.6	97
10	Potent STING activation stimulates immunogenic cell death to enhance antitumor immunity in neuroblastoma. , 2020, 8, e000282.		95
11	Chemical and Biomolecular Strategies for STING Pathway Activation in Cancer Immunotherapy. Chemical Reviews, 2022, 122, 5977-6039.	47.7	92
12	Surface Re-engineering of Pancreatic Islets with Recombinant azido-Thrombomodulin. Bioconjugate Chemistry, 2007, 18, 1713-1715.	3.6	89
13	Mucosal Immunization with a pH-Responsive Nanoparticle Vaccine Induces Protective CD8⁺ Lung-Resident Memory T Cells. ACS Nano, 2019, 13, 10939-10960.	14.6	89
14	Poly(propylacrylic acid)-peptide nanoplexes as a platform for enhancing the immunogenicity of neoantigen cancer vaccines. Biomaterials, 2018, 182, 82-91.	11.4	77
15	Gold Nanoantenna-Mediated Photothermal Drug Delivery from Thermosensitive Liposomes in Breast Cancer. ACS Omega, 2016, 1, 234-243.	3.5	62
16	Nanoparticle delivery improves the pharmacokinetic properties of cyclic dinucleotide STING agonists to open a therapeutic window for intravenous administration. Journal of Controlled Release, 2021, 330, 1118-1129.	9.9	58
17	Enhancement of MHC-I Antigen Presentation via Architectural Control of pH-Responsive, Endosomolytic Polymer Nanoparticles. AAPS Journal, 2015, 17, 358-369.	4.4	52
18	Delivery of 5â€²-triphosphate RNA with endosomolytic nanoparticles potently activates RIG-I to improve cancer immunotherapy. Biomaterials Science, 2019, 7, 547-559.	5.4	49

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19	Multimodal Multiplexed Immunoimaging with Nanostars to Detect Multiple Immunomarkers and Monitor Response to Immunotherapies. ACS Nano, 2020, 14, 651-663.	14.6	49
20	Recent advances in polymeric materials for the delivery of RNA therapeutics. Expert Opinion on Drug Delivery, 2019, 16, 1149-1167.	5.0	46
21	A high-throughput Galectin-9 imaging assay for quantifying nanoparticle uptake, endosomal escape and functional RNA delivery. Communications Biology, 2021, 4, 211.	4.4	45
22	Thrombomodulin Improves Early Outcomes After Intraportal Islet Transplantation. American Journal of Transplantation, 2009, 9, 1308-1316.	4.7	40
23	Gentisuric acid: Metabolic formation in animals and identification as a metabolite of aspirin in man. Clinical Pharmacology and Therapeutics, 1978, 23, 635-643.	4.7	39
24	Biomolecular surface engineering of pancreatic islets with thrombomodulin. Acta Biomaterialia, 2010, 6, 1895-1903.	8.3	38
25	Dynamic intracellular delivery of antibiotics via pH-responsive polymersomes. Polymer Chemistry, 2015, 6, 1255-1266.	3.9	34
26	Construction of pegylated multilayer architectures via (strept)avidin/biotin interactions. Materials Science and Engineering C, 2007, 27, 402-408.	7.3	29
27	In vivo biocompatibility and stability of a substrate-supported polymerizable membrane-mimetic film. Biomaterials, 2007, 28, 609-617.	11.4	26
28	Thrombosis and Inflammation in Intraportal Islet Transplantation: A Review of Pathophysiology and Emerging Therapeutics. Journal of Diabetes Science and Technology, 2008, 2, 746-759.	2.2	26
29	An Automated Process for Layerâ€byâ€Layer Assembly of Polyelectrolyte Multilayer Thin Films on Viable Cell Aggregates. Advanced Healthcare Materials, 2013, 2, 266-270.	7.6	25
30	Fatty Acid-Mimetic Micelles for Dual Delivery of Antigens and Imidazoquinoline Adjuvants. ACS Biomaterials Science and Engineering, 2017, 3, 179-194.	5.2	25
31	Chemoselective Immobilization of Peptides on Abiotic and Cell Surfaces at Controlled Densities. Langmuir, 2010, 26, 7675-7678.	3.5	22
32	A sweeter approach to vaccine design. Science, 2019, 363, 584-585.	12.6	22
33	At the bench: Engineering the next generation of cancer vaccines. Journal of Leukocyte Biology, 2020, 108, 1435-1453.	3.3	22
34	Disposition of propoxyphene and propranolol in children. Clinical Pharmacology and Therapeutics, 1976, 19, 264-270.	4.7	21
35	Vaccine delivery: where polymer chemistry meets immunology. Therapeutic Delivery, 2016, 7, 193-196.	2.2	21
36	Structural Optimization of Polymeric Carriers to Enhance the Immunostimulatory Activity of Molecularly Defined RIG-I Agonists. ACS Central Science, 2020, 6, 2008-2022.	11.3	20

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37	Three-dimensional localization of polymer nanoparticles in cells using ToF-SIMS. Biointerphases, 2016, 11, 02A304.	1.6	19
38	The efficiency of cytosolic drug delivery using pH-responsive endosomolytic polymers does not correlate with activation of the NLRP3 inflammasome. Biomaterials Science, 2019, 7, 1888-1897.	5.4	19
39	Discovering protective CD8 T cell epitopesâ€"no single immunologic property predicts it!. Current Opinion in Immunology, 2015, 34, 43-51.	5.5	18
40	High-Throughput Automation of Endosomolytic Polymers for mRNA Delivery. ACS Applied Bio Materials, 2021, 4, 1640-1654.	4.6	15
41	A nanovaccine for enhancing cellular immunity via cytosolic co-delivery of antigen and polyIC RNA. Journal of Controlled Release, 2022, 345, 354-370.	9.9	14
42	Environmentally Triggerable Retinoic Acid-Inducible Gene I Agonists Using Synthetic Polymer Overhangs. Bioconjugate Chemistry, 2018, 29, 742-747.	3.6	13
43	Engineering Vaccines for Tissueâ€Resident Memory T Cells. Advanced Therapeutics, 2021, 4, 2000230.	3.2	13
44	Pharmacological Activation of cGAS for Cancer Immunotherapy. Frontiers in Immunology, 2021, 12, 753472.	4.8	13
45	Bioinspired vaccines to enhance MHC class-I antigen cross-presentation. Current Opinion in Immunology, 2022, 77, 102215.	5.5	12
46	Amphiphilic Polyelectrolyte Graft Copolymers Enhance the Activity of Cyclic Dinucleotide STING Agonists. Advanced Healthcare Materials, 2021, 10, e2001056.	7.6	10
47	Microparticle Depots for Controlled and Sustained Release of Endosomolytic Nanoparticles. Cellular and Molecular Bioengineering, 2019, 12, 429-442.	2.1	9
48	Heterotypic immunity against vaccinia virus in an HLA-B*07:02 transgenic mousepox infection model. Scientific Reports, 2020, 10, 13167.	3.3	9
49	Eliciting Epitope-Specific CD8+ T Cell Response by Immunization with Microbial Protein Antigens Formulated with Î±-Galactosylceramide: Theory, Practice, and Protocols. Methods in Molecular Biology, 2017, 1494, 321-352.	0.9	8
50	Abstract 4978: Digital spatial profiling of molecular responses to nanoparticle STING agonists identify S100A9 and B7-H3 as possible escape mechanisms. Cancer Research, 2019, 79, 4978-4978.	0.9	3
51	Molecular Engineering of Cell and Tissue Surfaces with Polymer Thin Films. , 2014, , 281-314.		2
52	Targeting. , 2013, , 1028-1036.		1
53	Effect of the Conjugation of Peg to the PLL on the Micro- and Mesoscopic Properties of a POPC Bilayer. Biophysical Journal, 2010, 98, 91a.	0.5	0
54	Building new roads to stronger immunity. Science Advances, 2021, 7, .	10.3	0

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55	Endosomal Escape: Amphiphilic Polyelectrolyte Graft Copolymers Enhance the Activity of Cyclic Dinucleotide STING Agonists (Adv. Healthcare Mater. 2/2021). Advanced Healthcare Materials, 2021, 10, 2170004.	7.6	0
56	Abstract A187: RIG-I agonists reinforce antitumor adaptive immunity and decrease Treg activity in breast cancer. , 2019, , .		0
57	Nano-Particulate Platforms for Vaccine Delivery to Enhance Antigen-Specific CD8+ T-Cell Response. Methods in Molecular Biology, 2022, 2412, 367-398.	0.9	0