Peter Cooper

List of Publications by Year in descending order

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118 papers	5,023 citations	87723 38 h-index	102304 66 g-index
124 all docs	124 docs citations	124 times ranked	6220 citing authors

#	Article	IF	Citations
1	Vaccine adjuvants: Current state and future trends. Immunology and Cell Biology, 2004, 82, 488-496.	1.0	790
2	Review of polysaccharide particle-based functional drug delivery. Carbohydrate Polymers, 2019, 221, 94-112.	5.1	240
3	Comparative Safety of Vaccine Adjuvants: A Summary of Current Evidence and Future Needs. Drug Safety, 2015, 38, 1059-1074.	1.4	238
4	Severe Acute Respiratory Syndrome-Associated Coronavirus Vaccines Formulated with Delta Inulin Adjuvants Provide Enhanced Protection while Ameliorating Lung Eosinophilic Immunopathology. Journal of Virology, 2015, 89, 2995-3007.	1.5	186
5	Advaxâ„¢, a polysaccharide adjuvant derived from delta inulin, provides improved influenza vaccine protection through broad-based enhancement of adaptive immune responses. Vaccine, 2012, 30, 5373-5381.	1.7	144
6	A novel hepatitis B vaccine containing Advaxâ„¢, a polysaccharide adjuvant derived from delta inulin, induces robust humoral and cellular immunity with minimal reactogenicity in preclinical testing. Vaccine, 2013, 31, 1999-2007.	1.7	125
7	Genetic predisposition for beta cell fragility underlies type 1 and type 2 diabetes. Nature Genetics, 2016, 48, 519-527.	9.4	117
8	Delta inulin: a novel, immunologically active, stable packing structure comprising Â-D-[2 -> 1] poly(fructo-furanosyl) Â-D-glucose polymers. Glycobiology, 2011, 21, 595-606.	1.3	110
9	Microfluidic formation of core-shell alginate microparticles for protein encapsulation and controlled release. Journal of Colloid and Interface Science, 2019, 539, 497-503.	5.0	102
10	Randomized clinical trial of immunogenicity and safety of a recombinant H1N1/2009 pandemic influenza vaccine containing Advaxâ„¢ polysaccharide adjuvant. Vaccine, 2012, 30, 5407-5416.	1.7	98
11	Inulinâ€derived adjuvants efficiently promote both Th1 and Th2 immune responses. Immunology and Cell Biology, 2004, 82, 611-616.	1.0	95
12	Advaxâ„¢, a novel microcrystalline polysaccharide particle engineered from delta inulin, provides robust adjuvant potency together with tolerability and safety. Vaccine, 2015, 33, 5920-5926.	1.7	95
13	Macrophage migration inhibitory factor exhibits a pronounced circadian rhythm relevant to its role as a glucocorticoid counterâ€regulator. Immunology and Cell Biology, 2003, 81, 137-143.	1.0	90
14	Immunogenicity and safety of Advaxâ„¢, a novel polysaccharide adjuvant based on delta inulin, when formulated with hepatitis B surface antigen: A randomized controlled Phase 1 study. Vaccine, 2014, 32, 6469-6477.	1.7	81
15	A gold glyco-nanoparticle carrying a listeriolysin O peptide and formulated with Advaxâ„¢ delta inulin adjuvant induces robust T-cell protection against listeria infection. Vaccine, 2015, 33, 1465-1473.	1.7	77
16	In silico comparison of SARS-CoV-2 spike protein-ACE2 binding affinities across species and implications for virus origin. Scientific Reports, 2021, 11, 13063.	1.6	77
17	Efficacy of an Adjuvanted Middle East Respiratory Syndrome Coronavirus Spike Protein Vaccine in Dromedary Camels and Alpacas. Viruses, 2019, 11, 212.	1.5	75
18	An Inactivated Cell Culture Japanese Encephalitis Vaccine (JE-ADVAX) Formulated with Delta Inulin Adjuvant Provides Robust Heterologous Protection against West Nile Encephalitis via Cross-Protective Memory B Cells and Neutralizing Antibody. Journal of Virology, 2013, 87, 10324-10333.	1.5	73

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19	Genome-wide association study for sight-threatening diabetic retinopathy reveals association with genetic variation near the GRB2 gene. Diabetologia, 2015, 58, 2288-2297.	2.9	73
20	Novel human polysaccharide adjuvants with dual Th1 and Th2 potentiating activity. Vaccine, 2006, 24, S26-S29.	1.7	71
21	Induction of mucosal and systemic antibody and T-cell responses following prime-boost immunization with novel adjuvanted human immunodeficiency virus-1-vaccine formulations. Journal of General Virology, 2011, 92, 128-140.	1.3	69
22	Analysis of the hydrolysis of inulin using real time 1H NMR spectroscopy. Carbohydrate Research, 2012, 352, 117-125.	1.1	68
23	Anti-complementary action of polymorphic â€œsolubility formsâ€•of particulate inulin. Molecular Immunology, 1986, 23, 895-901.	1.0	58
24	Delta inulin polysaccharide adjuvant enhances the ability of split-virion H5N1 vaccine to protect against lethal challenge in ferrets. Vaccine, 2011, 29, 6242-6251.	1.7	58
25	Delta inulin-based adjuvants promote the generation of polyfunctional CD4+ T cell responses and protection against Mycobacterium tuberculosis infection. Scientific Reports, 2017, 7, 8582.	1.6	57
26	Influenza immunization during pregnancy: Benefits for mother and infant. Human Vaccines and Immunotherapeutics, 2016, 12, 3065-3071.	1.4	54
27	The adjuvanticity of gamma inulin. Immunology and Cell Biology, 1988, 66, 345-352.	1.0	53
28	A single-nucleotide polymorphism in the MicroRNA-146a gene is associated with diabetic nephropathy and sight-threatening diabetic retinopathy in Caucasian patients. Acta Diabetologica, 2016, 53, 643-650.	1.2	53
29	A fresh perspective from immunologists and vaccine researchers: Active vaccination strategies to prevent and reverse Alzheimer's disease. Alzheimer's and Dementia, 2015, 11, 1246-1259.	0.4	50
30	Advax-Adjuvanted Recombinant Protective Antigen Provides Protection against Inhalational Anthrax That Is Further Enhanced by Addition of Murabutide Adjuvant. Vaccine Journal, 2014, 21, 580-586.	3.2	49
31	Human Phase 1 trial of low-dose inactivated seasonal influenza vaccine formulated with Advaxâ„¢ delta inulin adjuvant. Vaccine, 2016, 34, 3780-3786.	1.7	49
32	Genome-wide association studies for diabetic macular edema and proliferative diabetic retinopathy. BMC Medical Genetics, 2018, 19, 71.	2.1	49
33	Molecular Adjuvants for DNA Vaccines. Current Issues in Molecular Biology, 2017, 22, 17-40.	1.0	49
34	JE-ADVAX Vaccine Protection against Japanese Encephalitis Virus Mediated by Memory B Cells in the Absence of CD8⁺T Cells and Pre-Exposure Neutralizing Antibody. Journal of Virology, 2013, 87, 4395-4402.	1.5	46
35	The anti-melanoma activity of inulin in mice. Molecular Immunology, 1986, 23, 903-908.	1.0	45
36	The polysaccharide inulin is characterized by an extensive series of periodic isoforms with varying biological actions. Glycobiology, 2013, 23, 1164-1174.	1.3	45

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37	Immunisation of ferrets and mice with recombinant SARS-CoV-2 spike protein formulated with Advax-SM adjuvant protects against COVID-19 infection. Vaccine, 2021, 39, 5940-5953.	1.7	44
38	Advax delta inulin adjuvant overcomes immune immaturity in neonatal mice thereby allowing singleâ€“dose influenza vaccine protection. Vaccine, 2015, 33, 4892-4900.	1.7	43
39	Advax augments B and T cell responses upon influenza vaccination via the respiratory tract and enables complete protection of mice against lethal influenza virus challenge. Journal of Controlled Release, 2018, 288, 199-211.	4.8	43
40	Advax, a Delta Inulin Microparticle, Potentiates In-built Adjuvant Property of Co-administered Vaccines. EBioMedicine, 2017, 15, 127-136.	2.7	39
41	A single immunization with inactivated H1N1 influenza vaccine formulated with delta inulin adjuvant (Advaxâ„¢) overcomes pregnancy-associated immune suppression and enhances passive neonatal protection. Vaccine, 2014, 32, 4651-4659.	1.7	38
42	Alzheimerâ€™s disease AdvaxCpG- adjuvanted MultiTEP-based dual and single vaccines induce high-titer antibodies against various forms of tau and AÎ² pathological molecules. Scientific Reports, 2016, 6, 28912.	1.6	37
43	Algammulin, a new vaccine adjuvant comprising gamma inulin particles containing alum: preparation and in vitro properties. Vaccine, 1991, 9, 351-357.	1.7	36
44	An epitope-based malaria vaccine targeting the junctional region of circumsporozoite protein. Npj Vaccines, 2021, 6, 13.	2.9	34
45	Physical characterization and in silico modeling of inulin polymer conformation during vaccine adjuvant particle formation. Carbohydrate Polymers, 2016, 143, 108-115.	5.1	33
46	Vaccine-Induced Th1-Type Response Protects against Invasive Group A Streptococcus Infection in the Absence of Opsonizing Antibodies. MBio, 2020, 11, .	1.8	33
47	Safety and immunogenicity of a delta inulin-adjuvanted inactivated Japanese encephalitis virus vaccine in pregnant mares and foals. Veterinary Research, 2014, 45, 130.	1.1	32
48	Calcium Signaling As a Therapeutic Target for Liver Steatosis. Trends in Endocrinology and Metabolism, 2019, 30, 270-281.	3.1	30
49	Adjuvant Strategies for More Effective Tuberculosis Vaccine Immunity. Microorganisms, 2019, 7, 255.	1.6	28
50	Immunomodulation with microbial vaccines to prevent type 1 diabetes mellitus. Nature Reviews Endocrinology, 2010, 6, 131-138.	4.3	27
51	Covax-19/SpikogenÂ® vaccine based on recombinant spike protein extracellular domain with Advax-CpG55.2 adjuvant provides single dose protection against SARS-CoV-2 infection in hamsters. Vaccine, 2022, 40, 3182-3192.	1.7	25
52	Inulin crystal initiation via a glucose-fructose cross-link of adjacent polymer chains: Atomic force microscopy and static molecular modelling. Carbohydrate Polymers, 2015, 117, 964-972.	5.1	23
53	Relative Adipose Tissue Failure in AlstrÃ¶m Syndrome Drives Obesity-Induced Insulin Resistance. Diabetes, 2021, 70, 364-376.	0.3	23
54	Delta Inulin Adjuvant Enhances Plasmablast Generation, Expression of Activation-Induced Cytidine Deaminase and B-Cell Affinity Maturation in Human Subjects Receiving Seasonal Influenza Vaccine. PLoS ONE, 2015, 10, e0132003.	1.1	21

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55	Identification and characterisation of T-cell epitopes for incorporation into dendritic cell-delivered Listeria vaccines. Journal of Immunological Methods, 2015, 424, 111-119.	0.6	20
56	Common Sequence Variation in the VEGFC Gene Is Associated with Diabetic Retinopathy and Diabetic Macular Edema. Ophthalmology, 2015, 122, 1828-1836.	2.5	20
57	Doxorubicin-Loaded Delta Inulin Conjugates for Controlled and Targeted Drug Delivery: Development, Characterization, and In Vitro Evaluation. Pharmaceutics, 2019, 11, 581.	2.0	20
58	The Immunomodulatory Role of Adjuvants in Vaccines Formulated with the Recombinant Antigens Ov-103 and Ov-RAL-2 against Onchocerca volvulus in Mice. PLoS Neglected Tropical Diseases, 2016, 10, e0004797.	1.3	20
59	Vaccine Therapies for the Prevention of Type 1 Diabetes Mellitus. Paediatric Drugs, 2003, 5, 575-582.	1.3	19
60	Inulin isoforms differ by repeated additions of one crystal unit cell. Carbohydrate Polymers, 2014, 103, 392-397.	5.1	19
61	Novel nanoparticle vaccines for Listeriosis. Human Vaccines and Immunotherapeutics, 2015, 11, 2501-2503.	1.4	19
62	Testing a MultiTEP-based combination vaccine to reduce AÎ² and tau pathology in Tau22/5xFAD bigenic mice. Alzheimer's Research and Therapy, 2019, 11, 107.	3.0	19
63	Complement and Cancer: Activation of the Alternative Pathway as a Theoretical Base for Immunotherapy. , 1985, 1, 125-166.		19
64	Enhanced pulmonary immunization with aerosolized inactivated influenza vaccine containing delta inulin adjuvant. European Journal of Pharmaceutical Sciences, 2015, 66, 118-122.	1.9	18
65	Norovirus drug candidates that inhibit viral capsid attachment to human histo-blood group antigens. Antiviral Research, 2016, 133, 14-22.	1.9	18
66	Passive inhalation of dry powder influenza vaccine formulations completely protects chickens against H5N1 lethal viral challenge. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 133, 85-95.	2.0	18
67	Investigation of the biodistribution, breakdown and excretion of delta inulin adjuvant. Vaccine, 2017, 35, 4382-4388.	1.7	17
68	Randomized controlled trial demonstrating the benefits of delta inulin adjuvanted immunotherapy in patients with bee venom allergy. Journal of Allergy and Clinical Immunology, 2019, 144, 504-513.e16.	1.5	17
69	An appeal for an objective, open, and transparent scientific debate about the origin of SARS-CoV-2. Lancet, The, 2021, 398, 1402-1404.	6.3	17
70	Immunotherapy â€“ 2076. A controlled study of delta inulin-adjuvanted honey bee venom immunotherapy. World Allergy Organization Journal, 2013, 6, P158.	1.6	16
71	Synthesis and Characterization of pH-Sensitive Inulin Conjugate of Isoniazid for Monocyte-Targeted Delivery. Pharmaceutics, 2019, 11, 555.	2.0	16
72	Protein a treatment of cancer: Activation of a serum component with trans-species anti-B16 melanoma activity. International Journal of Cancer, 1983, 32, 737-744.	2.3	15

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73	Vaccine adjuvant safety: the elephant in the room. Expert Review of Vaccines, 2013, 12, 715-717.	2.0	15
74	X-ray crystal structure of rivoglitazone bound to PPARÎ³ and PPAR subtype selectivity of TZDs. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1981-1991.	1.1	15
75	Strategies for active and passive pediatric RSV immunization. , 2021, 9, 251513552098151.	1.4	13
76	Neonatal vaccine effectiveness and the role of adjuvants. Expert Review of Clinical Immunology, 2019, 15, 869-878.	1.3	12
77	MicroRNA-Related Genetic Variants Are Associated With Diabetic Retinopathy in Type 1 Diabetes Mellitus. , 2019, 60, 3937.		11
78	Developing Translational Vaccines against Heroin and Fentanyl through Investigation of Adjuvants and Stability. Molecular Pharmaceutics, 2021, 18, 228-235.	2.3	11
79	Advax-CpG Adjuvant Provides Antigen Dose-Sparing and Enhanced Immunogenicity for Inactivated Poliomyelitis Virus Vaccines. Pathogens, 2021, 10, 500.	1.2	11
80	Onchocerca volvulus bivalent subunit vaccine induces protective immunity in genetically diverse collaborative cross recombinant inbred intercross mice. Npj Vaccines, 2021, 6, 17.	2.9	11
81	Advax4 delta inulin combination adjuvant together with ECMX, a fusion construct of four protective mTB antigens, induces a potent Th1 immune response and protects mice against Mycobacterium tuberculosis infection. Human Vaccines and Immunotherapeutics, 2017, 13, 2967-2976.	1.4	10
82	Adjuvant selection impacts the correlates of vaccine protection against Ebola infection. Vaccine, 2020, 38, 4601-4608.	1.7	10
83	Computationally repurposed drugs and natural products against RNA dependent RNA polymerase as potential COVID-19 therapies. Molecular Biomedicine, 2021, 2, 28.	1.7	10
84	A randomized controlled study to assess the immunogenicity and tolerability of a 2012 trivalent seasonal inactivated influenza vaccine administered via a disposable syringe jet injector device versus a traditional pre-filled syringe and needle. Trials in Vaccinology, 2013, 2, 39-44.	1.2	9
85	Proteomic analysis of influenza haemagglutinin-specific antibodies following vaccination reveals convergent immunoglobulin variable region signatures. Vaccine, 2017, 35, 5576-5580.	1.7	9
86	Maternal immunization with adjuvanted RSV prefusion F protein effectively protects offspring from RSV challenge and alters innate and T cell immunity. Vaccine, 2020, 38, 7885-7891.	1.7	9
87	Intranasal powder live attenuated influenza vaccine is thermostable, immunogenic, and protective against homologous challenge in ferrets. Npj Vaccines, 2021, 6, 59.	2.9	9
88	A M2 protein-based universal influenza vaccine containing Advax-SM adjuvant provides newborn protection via maternal or neonatal immunization. Vaccine, 2021, 39, 5162-5172.	1.7	9
89	A truncated glycoprotein G vaccine formulated with Advax-CpG adjuvant provides protection of mice against genital herpes simplex virus 2 infection. Vaccine, 2021, 39, 5866-5875.	1.7	9
90	Novel adjuvants enhance immune responses elicited by a replication-defective human cytomegalovirus vaccine in nonhuman primates. Vaccine, 2021, 39, 7446-7456.	1.7	9

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91	Properties of cell lines derived from altered-cell foci in baby mouse skin cultures. Journal of Cellular Physiology, 1982, 113, 344-349.	2.0	7
92	Promoter polymorphism at the tumour necrosis factor/lymphotoxin-alpha locus is associated with type of diabetes but not with susceptibility to sight-threatening diabetic retinopathy. Diabetes and Vascular Disease Research, 2016, 13, 164-167.	0.9	7
93	Pharmaceutical and preclinical evaluation of Advax adjuvant as a dose-sparing strategy for ant venom immunotherapy. Journal of Pharmaceutical and Biomedical Analysis, 2019, 172, 1-8.	1.4	7
94	Computational Repurposing of Drugs and Natural Products Against SARS-CoV-2 Main Protease (Mpro) as Potential COVID-19 Therapies. Frontiers in Molecular Biosciences, 2022, 9, 781039.	1.6	7
95	Rapid induction of foci escaping density-dependent inhibition in baby mouse skin cultures. Journal of Cellular Physiology, 1982, 113, 329-336.	2.0	6
96	Plasmids Encoding Protein Aggregation Domains Act As Molecular Adjuvants for DNA Vaccines. Current Gene Therapy, 2014, 14, 161-169.	0.9	6
97	Combined delivery of TLR2 and TLR7 agonists by Nanostructured lipid carriers induces potent vaccine adjuvant activity in mice. International Journal of Pharmaceutics, 2022, 613, 121378.	2.6	6
98	Temporal regulation of the human immune system. Expert Review of Clinical Immunology, 2005, 1, 379-383.	1.3	5
99	Panblok-H1+advax H1N1/2009pdm vaccine: Insights into rapid development of a delta inulin adjuvanted recombinant pandemic influenza vaccine. Human Vaccines and Immunotherapeutics, 2017, 13, 1261-1271.	1.4	5
100	The Safety of an Adjuvanted Autologous Cancer Vaccine Platform in Canine Cancer Patients. Veterinary Sciences, 2018, 5, 87.	0.6	5
101	Prediction of novel mouseÂTLR9 agonists using a random forest approach. BMC Molecular and Cell Biology, 2019, 20, 56.	1.0	5
102	Impaired Ca²⁺ signaling due to hepatic steatosis mediates hepatic insulin resistance in AlstrÃ¶m syndrome mice that is reversed by GLP-1 analog treatment. American Journal of Physiology - Cell Physiology, 2021, 321, C187-C198.	2.1	5
103	An Advax-Adjuvanted Inactivated Cell-Culture Derived Japanese Encephalitis Vaccine Induces Broadly Neutralising Anti-Flavivirus Antibodies, Robust Cellular Immunity and Provides Single Dose Protection. Vaccines, 2021, 9, 1235.	2.1	5
104	Co-Administration of Adjuvanted Recombinant Ov-103 and Ov-RAL-2 Vaccines Confer Protection against Natural Challenge in A Bovine Onchocerca ochengi Infection Model of Human Onchocerciasis. Vaccines, 2022, 10, 861.	2.1	5
105	Advax adjuvant formulations promote protective immunity against aerosol Mycobacterium tuberculosis in the absence of deleterious inflammation and reactogenicity. Vaccine, 2021, 39, 1990-1996.	1.7	4
106	A typhoid fever protein capsular matrix vaccine candidate formulated with Advax-CpG adjuvant induces a robust and durable anti-typhoid Vi polysaccharide antibody response in mice, rabbits and nonhuman primates. Vaccine, 2022, 40, 4625-4634.	1.7	4
107	Enhancement of altered-cell foci in baby mouse skin cultures by antitubulin treatment: Nuclear mechanisms. Journal of Cellular Physiology, 1982, 113, 337-343.	2.0	2
108	A Real Fifth Dimension?. Explore: the Journal of Science and Healing, 2017, 13, 62-67.	0.4	2

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109	Mitochondrial haplogroups are not associated with diabetic retinopathy in a large Australian and British Caucasian sample. Scientific Reports, 2019, 9, 612.	1.6	2
110	Pharmacological Management of Endocrine Conditions in the Elderly Patient. , 0, , 391-401.		1
111	Editorial (Thematic Issue: The Coming of Age of DNA Vaccines). Current Gene Therapy, 2014, 14, 147-148.	0.9	1
112	A Reverse-Paradigm Creed for the 21st Century: Why Many Scientists Still Have the Cart Before the Horse. Explore: the Journal of Science and Healing, 2015, 11, 387-393.	0.4	1
113	Rescue of Moribund Chicken Embryos by Extremely Low-Frequency Electric Fields. Explore: the Journal of Science and Healing, 2016, 12, 451-454.	0.4	1
114	Purpose: A Slow Dawning For Us All?. Explore: the Journal of Science and Healing, 2018, 14, 144-148.	0.4	1
115	Our Great Leap Forward and Usâ€"Right Now. Explore: the Journal of Science and Healing, 2018, 14, 305-308.	0.4	1
116	Enhanced Immunogenicity of Inactivated Dengue Vaccines by Novel Polysaccharide-Based Adjuvants in Mice. Microorganisms, 2022, 10, 1034.	1.6	1
117	The Power of an Integrated Informatic and Molecular Approach to Type 1 Diabetes Research. Annals of the New York Academy of Sciences, 2004, 1037, 216-224.	1.8	0
118	The importance of sharing for humanity and its planet. Explore: the Journal of Science and Healing, 2019, 15, 376-379.	0.4	0