# Richard W Compans

List of Publications by Year
in descending order



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|---|---|---|---|
| 375 papers | 27,808 citations | 4641 85 h-index | 10708 138 g-index |
| 383 all docs | 383 docs citations | 383 times ranked | 16585 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Programming the magnitude and persistence of antibody responses with innate immunity. Nature, 2011, 470, 543-547. | 13.7 | 847 |
| 2 | Characterization of temperature sensitive influenza virus mutants defective in neuraminidase. Virology, 1974, 61, 397-410. | 1.1 | 779 |
| 3 | Broadly cross-reactive antibodies dominate the human B cell response against 2009 pandemic H1N1 influenza virus infection. Journal of Experimental Medicine, 2011, 208, 181-193. | 4.2 | 775 |
| 4 | Dissolving polymer microneedle patches for influenza vaccination. Nature Medicine, 2010, 16, 915-920. | 15.2 | 754 |
| 5 | Critical role for the chemokine receptor CXCR6 in NK cellâ€“mediated antigen-specific memory of haptens and viruses. Nature Immunology, 2010, 11, 1127-1135. | 7.0 | 644 |
| 6 | Identification of -Dystroglycan as a Receptor for Lymphocytic Choriomeningitis Virus and Lassa Fever Virus. , 1998, 282, 2079-2081. | | 609 |
| 7 | The three-dimensional structure of canine parvovirus and its functional implications. Science, 1991, 251, 1456-1464. | 6.0 | 496 |
| 8 | Isolation of paramyxovirus glycoproteins. Association of both hemagglutinating and neuraminidase activities with the larger SV5 glycoprotein. Virology, 1972, 50, 640-652. | 1.1 | 378 |
| 9 | Influenza virus proteins. Virology, 1970, 42, 880-889. | 1.1 | 367 |
| 10 | Influenza virus structural and nonstructural proteins in infected cells and their plasma membranes. Virology, 1971, 46, 830-843. | 1.1 | 358 |
| 11 | Influenza type A virus neuraminidase does not play a role in viral entry, replication, assembly, or budding. Journal of Virology, 1995, 69, 1099-1106. | 1.5 | 331 |
| 12 | Inhibition of Influenza Virus Replication in Tissue Culture by 2-deoxy-2,3-dehydro-N-trifluoroacetylneuraminic acid (FANA): Mechanism of Action. Journal of General Virology, 1976, 33, 159-163. | 1.3 | 315 |
| 13 | The safety, immunogenicity, and acceptability of inactivated influenza vaccine delivered by microneedle patch (TIV-MNP 2015): a randomised, partly blinded, placebo-controlled, phase 1 trial. Lancet, The, 2017, 390, 649-658. | 6.3 | 309 |
| 14 | Protection against vaginal SIV transmission with microencapsulated vaccine. Science, 1993, 260, 1323-1327. | 6.0 | 295 |
| 15 | Virus-Like Particle Vaccine Induces Protective Immunity against Homologous and Heterologous Strains of Influenza Virus. Journal of Virology, 2007, 81, 3514-3524. | 1.5 | 279 |
| 16 | Alpha/Beta Interferons Potentiate Virus-Induced Apoptosis through Activation of the FADD/Caspase-8 Death Signaling Pathway. Journal of Virology, 2000, 74, 1513-1523. | 1.5 | 269 |
| 17 | An electron microscopic study of moderate and virulent virus-cell interactions of the parainfluenza virus SV5. Virology, 1966, 30, 411-426. | 1.1 | 251 |
| 18 | Original Antigenic Sin Responses to Influenza Viruses. Journal of Immunology, 2009, 183, 3294-3301. | 0.4 | 234 |

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|---|---|---|---|
| 19 | Structure of the Ribonucleoprotein of Influenza Virus. Journal of Virology, 1972, 10, 795-800. | 1.5 | 233 |
| 20 | Functional interactions between the fusion protein and hemagglutinin-neuraminidase of human parainfluenza viruses. Journal of Virology, 1992, 66, 1528-1534. | 1.5 | 220 |
| 21 | Formulation and coating of microneedles with inactivated influenza virus to improve vaccine stability and immunogenicity. Journal of Controlled Release, 2010, 142, 187-195. | 4.8 | 217 |
| 22 | The membrane structure of lipid-containing viruses. BBA - Biomembranes, 1974, 344, 51-94. | 7.9 | 210 |
| 23 | Vaccination inducing broad and improved cross protection against multiple subtypes of influenza A virus. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 757-761. | 3.3 | 206 |
| 24 | Human immunodeficiency virus envelope protein determines the site of virus release in polarized epithelial cells.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 3987-3991. | 3.3 | 200 |
| 25 | Immunization by vaccine-coated microneedle arrays protects against lethal influenza virus challenge. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7968-7973. | 3.3 | 190 |
| 26 | Proteins of Vesicular Stomatitis Virus and of Phenotypically Mixed Vesicular Stomatitis Virus-Simian Virus 5 Virions. Journal of Virology, 1971, 8, 722-729. | 1.5 | 180 |
| 27 | The M1 and M2 Proteins of Influenza A Virus Are Important Determinants in Filamentous Particle Formation. Virology, 1998, 240, 127-137. | 1.1 | 179 |
| 28 | Reproduction of Paramyxoviruses. , 1975, , 95-178. | | 174 |
| 29 | Proteins and Glycoproteins of Paramyxoviruses: a Comparison of Simian Virus 5, Newcastle Disease Virus, and Sendai Virus. Journal of Virology, 1971, 7, 47-52. | 1.5 | 174 |
| 30 | Inhibition of influenza infection by glutathione. Free Radical Biology and Medicine, 2003, 34, 928-936. | 1.3 | 173 |
| 31 | Effects of glucosamine, 2-deoxyglucose, and tunicamycin on glycosylation, sulfation, and assembly of influenza viral proteins. Virology, 1978, 84, 303-319. | 1.1 | 168 |
| 32 | Transdermal Influenza Immunization with Vaccine-Coated Microneedle Arrays. PLoS ONE, 2009, 4, e4773. | 1.1 | 160 |
| 33 | Influenza virus hemagglutinin expression is polarized in cells infected with recombinant SV40 viruses carrying cloned hemagglutinin DNA. Cell, 1983, 33, 435-443. | 13.5 | 148 |
| 34 | Induction of Heterosubtypic Immunity to Influenza Virus by Intranasal Immunization. Journal of Virology, 2008, 82, 1350-1359. | 1.5 | 147 |
| 35 | Double-layered protein nanoparticles induce broad protection against divergent influenza A viruses. Nature Communications, 2018, 9, 359. | 5.8 | 147 |
| 36 | Antigenic Subversion: A Novel Mechanism of Host Immune Evasion by Ebola Virus. PLoS Pathogens, 2012, 8, e1003065. | 2.1 | 146 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Cytoplasmic domain truncation enhances fusion activity by the exterior glycoprotein complex of human immunodeficiency virus type 2 in selected cell types. Journal of Virology, 1992, 66, 3971-3975. | 1.5 | 145 |
| 38 | Influenza virus proteins. Virology, 1973, 51, 56-70. | 1.1 | 142 |
| 39 | A Specific Labeling Procedure for Proteins on the Outer Surface of Membranes. Journal of Biological Chemistry, 1972, 247, 6432-6437. | 1.6 | 142 |
| 40 | Cell Fusion Activity of the Simian Immunodeficiency Virus Envelope Protein Is Modulated by the Intracytoplasmic Domain. Virology, 1993, 197, 255-264. | 1.1 | 140 |
| 41 | Oral Immunization with Influenza Virus in Biodegradable Microspheres. Journal of Infectious Diseases, 1993, 167, 84-90. | 1.9 | 140 |
| 42 | Virus-like Particles Containing Multiple M2 Extracellular Domains Confer Improved Cross-protection Against Various Subtypes of Influenza Virus. Molecular Therapy, 2013, 21, 485-492. | 3.7 | 138 |
| 43 | Nucleocapsid Protein Subunits of Simian Virus 5, Newcastle Disease Virus, and Sendai Virus. Journal of Virology, 1970, 6, 677-684. | 1.5 | 138 |
| 44 | An electron microscopic study of single-cycle infection of chick embryo fibroblasts by influenza virus. Virology, 1969, 39, 499-515. | 1.1 | 136 |
| 45 | Respiratory syncytial virus matures at the apical surfaces of polarized epithelial cells. Journal of Virology, 1995, 69, 2667-2673. | 1.5 | 134 |
| 46 | Proteolytic cleavage of the hemagglutinin polypeptide of influenza virus. Function of the uncleaved polypeptide HA. Virology, 1973, 52, 199-212. | 1.1 | 133 |
| 47 | Peptides Corresponding to the Heptad Repeat Sequence of Human Parainfluenza Virus Fusion Protein Are Potent Inhibitors of Virus Infection. Virology, 1996, 223, 103-112. | 1.1 | 128 |
| 48 | Influenza vaccines based on virus-like particles. Virus Research, 2009, 143, 140-146. | 1.1 | 123 |
| 49 | Host cell dependence of viral morphology. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 5746-5751. | 3.3 | 119 |
| 50 | A specific labeling procedure for proteins on the outer surface of membranes. Journal of Biological Chemistry, 1972, 247, 6432-7. | 1.6 | 119 |
| 51 | Incorporation of Membrane-Anchored Flagellin into Influenza Virus-Like Particles Enhances the Breadth of Immune Responses. Journal of Virology, 2008, 82, 11813-11823. | 1.5 | 118 |
| 52 | Intradermal Vaccination with Influenza Virus-Like Particles by Using Microneedles Induces Protection Superior to That with Intramuscular Immunization. Journal of Virology, 2010, 84, 7760-7769. | 1.5 | 118 |
| 53 | Viruslike Particle Vaccine Induces Protection Against Respiratory Syncytial Virus Infection in Mice. Journal of Infectious Diseases, 2011, 204, 987-995. | 1.9 | 117 |
| 54 | Polarity of influenza and vesicular stomatitis virus maturation in MDCK cells: lack of a requirement for glycosylation of viral glycoproteins.. Proceedings of the National Academy of Sciences of the United States of America, 1979, 76, 6430-6434. | 3.3 | 115 |

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|---|---|---|---|
| 55 | Identification of the spike proteins of Rous sarcoma virus. Virology, 1971, 46, 485-489. | 1.1 | 114 |
| 56 | Phenotypic Mixing of Envelope Proteins of the Parainfluenza Virus SV5 and Vesicular Stomatitis Virus. Journal of Virology, 1970, 5, 609-616. | 1.5 | 112 |
| 57 | Improved influenza vaccination in the skin using vaccine coated microneedles. Vaccine, 2009, 27, 6932-6938. | 1.7 | 110 |
| 58 | Nontemplated bases at the 5â€² ends of tacaribe virus mRNAs. Virology, 1990, 174, 53-59. | 1.1 | 108 |
| 59 | Location of the Glycoprotein in the Membrane of Sindbis Virus. Nature: New Biology, 1971, 229, 114-116. | 4.5 | 107 |
| 60 | Enhanced Memory Responses to Seasonal H1N1 Influenza Vaccination of the Skin with the Use of Vaccineâ€Coated Microneedles. Journal of Infectious Diseases, 2010, 201, 190-198. | 1.9 | 107 |
| 61 | Stability of influenza vaccine coated onto microneedles. Biomaterials, 2012, 33, 3756-3769. | 5.7 | 106 |
| 62 | Spin-Label Electron Spin Resonance Study of the Lipid-Containing Membrane of Influenza Virus. Proceedings of the National Academy of Sciences of the United States of America, 1971, 68, 2579-2583. | 3.3 | 104 |
| 63 | Immunity to Pre-1950 H1N1 Influenza Viruses Confers Cross-Protection against the Pandemic Swine-Origin 2009 A (H1N1) Influenza Virus. Journal of Immunology, 2010, 185, 1642-1649. | 0.4 | 104 |
| 64 | Influenza Virus-Like Particles Containing M2 Induce Broadly Cross Protective Immunity. PLoS ONE, 2011, 6, e14538. | 1.1 | 104 |
| 65 | Host cell- and virus strain-dependent differences in oligosaccharides of hemagglutinin glycoproteins of influenza A viruses. Virology, 1979, 95, 8-23. | 1.1 | 102 |
| 66 | Antiviral effects of apolipoprotein A-I and its synthetic amphipathic peptide analogs. Virology, 1990, 176, 48-57. | 1.1 | 102 |
| 67 | Enhanced Immunogenicity of Stabilized Trimeric Soluble Influenza Hemagglutinin. PLoS ONE, 2010, 5, e12466. | 1.1 | 102 |
| 68 | An electron microscopic study of the presence or absence of neuraminic acid in enveloped viruses. Virology, 1970, 42, 1158-1162. | 1.1 | 101 |
| 69 | Apolipoprotein A-I and its amphipathic helix peptide analogues inhibit human immunodeficiency virus-induced syncytium formation.. Journal of Clinical Investigation, 1990, 86, 1142-1150. | 3.9 | 101 |
| 70 | Dose sparing enabled by skin immunization with influenza virus-like particle vaccine using microneedles. Journal of Controlled Release, 2010, 147, 326-332. | 4.8 | 99 |
| 71 | Salmonella flagellins are potent adjuvants for intranasally administered whole inactivated influenza vaccine. Vaccine, 2010, 28, 4103-4112. | 1.7 | 99 |
| 72 | Long-term stability of influenza vaccine in a dissolving microneedle patch. Drug Delivery and Translational Research, 2017, 7, 195-205. | 3.0 | 98 |

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| 73 | The P gene of human parainfluenza virus type 1 encodes P and C proteins but not a cysteine-rich V protein. Journal of Virology, 1991, 65, 3406-3410. | 1.5 | 98 |
| 74 | Virus Infection of Polarized Epithelial Cells. Advances in Virus Research, 1993, 42, 187-247. | 0.9 | 97 |
| 75 | An Infectious Clone of the West Nile Flavivirus. Virology, 2001, 281, 294-304. | 1.1 | 97 |
| 76 | Ebola virus-like particles produced in insect cells exhibit dendritic cell stimulating activity and induce neutralizing antibodies. Virology, 2006, 351, 260-270. | 1.1 | 96 |
| 77 | The human and simian immunodeficiency virus envelope glycoprotein transmembrane subunits are palmitoylated.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 9871-9875. | 3.3 | 94 |
| 78 | H1N1 influenza virus infection results in adverse pregnancy outcomes by disrupting tissue-specific hormonal regulation. PLoS Pathogens, 2017, 13, e1006757. | 2.1 | 94 |
| 79 | Assembly of SIV Virus-like Particles Containing Envelope Proteins Using a Baculovirus Expression System. Virology, 1995, 214, 50-58. | 1.1 | 93 |
| 80 | Influenza virus inhibits ENaC and lung fluid clearance. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 287, L366-L373. | 1.3 | 93 |
| 81 | Induction of Long-Term Protective Immune Responses by Influenza H5N1 Virus-Like Particles. PLoS ONE, 2009, 4, e4667. | 1.1 | 93 |
| 82 | Release of simian virus 40 virions from epithelial cells is polarized and occurs without cell lysis. Journal of Virology, 1989, 63, 2278-2288. | 1.5 | 93 |
| 83 | Inactivation of Human Immunodeficiency Virus Type 1 by Porphyrins. Antimicrobial Agents and Chemotherapy, 2002, 46, 3917-3925. | 1.4 | 92 |
| 84 | Ebola Vaccination Using a DNA Vaccine Coated on PLGAâ€PLL/Î³PGA Nanoparticles Administered Using a Microneedle Patch. Advanced Healthcare Materials, 2017, 6, 1600750. | 3.9 | 92 |
| 85 | Stabilization of Influenza Vaccine Enhances Protection by Microneedle Delivery in the Mouse Skin. PLoS ONE, 2009, 4, e7152. | 1.1 | 92 |
| 86 | Formulation of Microneedles Coated with Influenza Virus-like Particle Vaccine. AAPS PharmSciTech, 2010, 11, 1193-1201. | 1.5 | 91 |
| 87 | Virus-Like Particle Vaccine Protects against 2009 H1N1 Pandemic Influenza Virus in Mice. PLoS ONE, 2010, 5, e9161. | 1.1 | 91 |
| 88 | Stability Kinetics of Influenza Vaccine Coated onto Microneedles During Drying and Storage. Pharmaceutical Research, 2011, 28, 135-144. | 1.7 | 91 |
| 89 | Delivery of subunit influenza vaccine to skin with microneedles improves immunogenicity and long-lived protection. Scientific Reports, 2012, 2, 357. | 1.6 | 91 |
| 90 | Parainfluenza Virus Surface Projections: Glycoproteins with Haemagglutinin and Neuraminidase Activities. Journal of General Virology, 1971, 11, 53-58. | 1.3 | 90 |

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| 91 | Murine model for evaluation of protective immunity to influenza virus. Vaccine, 1993, 11, 55-60. | 1.7 | 90 |
| 92 | Human immunodeficiency virus type 1 envelope glycoprotein is modified by O-linked oligosaccharides. Journal of Virology, 1994, 68, 463-468. | 1.5 | 90 |
| 93 | Glycopeptide components of influenza viral glycoproteins. Virology, 1978, 86, 432-442. | 1.1 | 89 |
| 94 | Transcutaneous immunization with inactivated influenza virus induces protective immune responses. Vaccine, 2006, 24, 6110-6119. | 1.7 | 87 |
| 95 | Regulation of the Late Events in Flavivirus Protein Processing and Maturation. Virology, 1993, 192, 38-51. | 1.1 | 86 |
| 96 | Protection against lethal challenge by Ebola virus-like particles produced in insect cells. Virology, 2009, 383, 12-21. | 1.1 | 84 |
| 97 | Protective immunity against H5N1 influenza virus by a single dose vaccination with virus-like particles. Virology, 2010, 405, 165-175. | 1.1 | 84 |
| 98 | Isolation and structural analysis of influenza C virion glycoproteins. Virology, 1981, 113, 439-451. | 1.1 | 83 |
| 99 | Effect of Antibody to Neuraminidase on the Maturation and Hemagglutinating Activity of an Influenza A <sub>2</sub> Virus. Journal of Virology, 1969, 4, 528-534. | 1.5 | 83 |
| 100 | Improved immunogenicity of individual influenza vaccine components delivered with a novel dissolving microneedle patch stable at room temperature. Drug Delivery and Translational Research, 2015, 5, 360-371. | 3.0 | 82 |
| 101 | Intranasal Immunization with Influenza VLPs Incorporating Membrane-Anchored Flagellin Induces Strong Heterosubtypic Protection. PLoS ONE, 2010, 5, e13972. | 1.1 | 82 |
| 102 | Effect of Adjuvants on Responses to Skin Immunization by Microneedles Coated with Influenza Subunit Vaccine. PLoS ONE, 2012, 7, e41501. | 1.1 | 81 |
| 103 | Heterosubtypic influenza protection elicited by double-layered polypeptide nanoparticles in mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7758-E7767. | 3.3 | 81 |
| 104 | Incorporation of High Levels of Chimeric Human Immunodeficiency Virus Envelope Glycoproteins into Virus-Like Particles. Journal of Virology, 2007, 81, 10869-10878. | 1.5 | 80 |
| 105 | Entry and Release of Measles Virus Are Polarized in Epithelial Cells. Virology, 1995, 210, 91-99. | 1.1 | 79 |
| 106 | Effects of hexose starvation and the role of sialic acid in influenza virus release. Virology, 1983, 125, 324-334. | 1.1 | 78 |
| 107 | Structure of the influenza C glycoprotein gene as determined from cloned DNA. Virus Research, 1984, 1, 281-296. | 1.1 | 78 |
| 108 | Effects of Cytoplasmic Domain Length on Cell Surface Expression and Syncytium-Forming Capacity of the Simian Immunodeficiency Virus Envelope Glycoprotein. Virology, 1994, 203, 8-19. | 1.1 | 78 |

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| 109 | Effects of Antibody to the Influenza A Virus M2 Protein on M2 Surface Expression and Virus Assembly. Virology, 1995, 212, 411-421. | 1.1 | 78 |
| 110 | A target site for template-based design of measles virus entry inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5628-5633. | 3.3 | 78 |
| 111 | A bivalent influenza VLP vaccine confers complete inhibition of virus replication in lungs. Vaccine, 2008, 26, 3352-3361. | 1.7 | 77 |
| 112 | A precursor glycoprotein in influenza C virus. Virology, 1979, 99, 49-56. | 1.1 | 76 |
| 113 | The human immunodeficiency virus type 1 envelope glycoprotein precursor acquires aberrant intermolecular disulfide bonds that may prevent normal proteolytic processing. Virology, 1990, 179, 827-833. | 1.1 | 75 |
| 114 | Ginseng and Salviae herbs play a role as immune activators and modulate immune responses during influenza virus infection. Vaccine, 2007, 25, 272-282. | 1.7 | 75 |
| 115 | Proteolytic Cleavage of Subunits of the Nucleocapsid of the Paramyxovirus Simian Virus 5. Journal of Virology, 1974, 14, 1253-1261. | 1.5 | 75 |
| 116 | Nucleotide sequence conservation at the 3â€² termini of the virion RNA species of new World and Old World arenaviruses. Virology, 1982, 121, 200-203. | 1.1 | 74 |
| 117 | Incorporation of Glycosylphosphatidylinositol-Anchored Granulocyte-MacrophageColony-Stimulating Factor or CD40 Ligand Enhances Immunogenicity of Chimeric Simian Immunodeficiency Virus-Like Particles. Journal of Virology, 2007, 81, 1083-1094. | 1.5 | 73 |
| 118 | Virus-like particles as universal influenza vaccines. Expert Review of Vaccines, 2012, 11, 995-1007. | 2.0 | 73 |
| 119 | Protective Effect of Ginseng Polysaccharides on Influenza Viral Infection. PLoS ONE, 2012, 7, e33678. | 1.1 | 73 |
| 120 | Induction of CD4+ T-Cell-Independent Immunoglobulin Responses by Inactivated Influenza Virus. Journal of Virology, 2000, 74, 4999-5005. | 1.5 | 72 |
| 121 | Microneedle delivery of an M2e-TLR5 ligand fusion protein to skin confers broadly cross-protective influenza immunity. Journal of Controlled Release, 2014, 178, 1-7. | 4.8 | 72 |
| 122 | Microneedle Vaccination with Stabilized Recombinant Influenza Virus Hemagglutinin Induces Improved Protective Immunity. Vaccine Journal, 2011, 18, 647-654. | 3.2 | 71 |
| 123 | Increased immunogenicity of avian influenza DNA vaccine delivered to the skin using a microneedle patch. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 81, 239-247. | 2.0 | 71 |
| 124 | Processing of the intracellular form of the west Nile virus capsid protein by the viral NS2B-NS3 protease: an in vitro study. Journal of Virology, 1994, 68, 5765-5771. | 1.5 | 71 |
| 125 | Role of Actin Microfilaments in Black Creek Canal Virus Morphogenesis. Journal of Virology, 1998, 72, 2865-2870. | 1.5 | 70 |
| 126 | Distinct carbohydrate components of influenza virus glycoproteins in smooth and rough cytoplasmic membranes. Virology, 1973, 55, 541-545. | 1.1 | 69 |

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|---|---|---|---|
| 127 | Organization of the lipid phase in viral membranes. Effects of independent variation of the lipid and the protein composition. Biochemistry, 1973, 12, 4498-4502. | 1.2 | 69 |
| 128 | Stability of whole inactivated influenza virus vaccine during coating onto metal microneedles. Journal of Controlled Release, 2013, 166, 159-171. | 4.8 | 69 |
| 129 | Human immunodeficiency virus-like particles activate multiple types of immune cells. Virology, 2007, 362, 331-341. | 1.1 | 68 |
| 130 | Microneedle Delivery of H5N1 Influenza Virus-Like Particles to the Skin Induces Long-Lasting B- and T-Cell Responses in Mice. Vaccine Journal, 2010, 17, 1381-1389. | 3.2 | 68 |
| 131 | DNA Vaccination in the Skin Using Microneedles Improves Protection Against Influenza. Molecular Therapy, 2012, 20, 1472-1480. | 3.7 | 68 |
| 132 | Structure and Cytopathic Effects of Nelson Bay Virus. Journal of Virology, 1970, 6, 100-106. | 1.5 | 67 |
| 133 | Emergence and Evolution of Avian H5N2 Influenza Viruses in Chickens in Taiwan. Journal of Virology, 2014, 88, 5677-5686. | 1.5 | 66 |
| 134 | Enhanced Stability of Inactivated Influenza Vaccine Encapsulated in Dissolving Microneedle Patches. Pharmaceutical Research, 2016, 33, 868-878. | 1.7 | 66 |
| 135 | Isolation and characterization of the nonglycosylated membrane protein and a nucleocapsid complex from the paramyxovirus SV5. Virology, 1975, 67, 365-374. | 1.1 | 65 |
| 136 | Nonpeptide Inhibitors of Measles Virus Entry. Journal of Medicinal Chemistry, 2006, 49, 5080-5092. | 2.9 | 65 |
| 137 | Improved protection against avian influenza H5N1 virus by a single vaccination with virus-like particles in skin using microneedles. Antiviral Research, 2010, 88, 244-247. | 1.9 | 65 |
| 138 | Local Response to Microneedle-Based Influenza Immunization in the Skin. MBio, 2012, 3, e00012-12. | 1.8 | 64 |
| 139 | Influenza virus-like particles coated onto microneedles can elicit stimulatory effects on Langerhans cells in human skin. Vaccine, 2010, 28, 6104-6113. | 1.7 | 63 |
| 140 | Sin nombre virus glycoprotein trafficking. Virology, 2003, 308, 48-63. | 1.1 | 62 |
| 141 | Mucosal Immunization with Virus-Like Particles of Simian Immunodeficiency Virus Conjugated with Cholera Toxin Subunit B. Journal of Virology, 2003, 77, 9823-9830. | 1.5 | 62 |
| 142 | Enhanced Mucosal Immune Responses to HIV Virus-Like Particles Containing a Membrane-Anchored Adjuvant. MBio, 2011, 2, e00328-10. | 1.8 | 62 |
| 143 | Viral Membranes: Model Systems for Studying Biological Membrane. CRC Critical Reviews in Biochemistry, 1979, 6, 165-217. | 2.0 | 61 |
| 144 | Influenza M1 VLPs containing neuraminidase induce heterosubtypic cross-protection. Virology, 2012, 430, 127-135. | 1.1 | 61 |

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| 145 | Multiple heterologous M2 extracellular domains presented on virus-like particles confer broader and stronger M2 immunity than live influenza A virus infection. Antiviral Research, 2013, 99, 328-335. | 1.9 | 61 |
| 146 | Tetanus vaccination with a dissolving microneedle patch confers protective immune responses in pregnancy. Journal of Controlled Release, 2016, 236, 47-56. | 4.8 | 61 |
| 147 | Expression and characterization of a functional human immunodeficiency virus envelope glycoprotein in insect cells. Virology, 1990, 176, 575-586. | 1.1 | 60 |
| 148 | Palmitoylation of the Murine Leukemia Virus Envelope Protein Is Critical for Lipid Raft Association and Surface Expression. Journal of Virology, 2002, 76, 11845-11852. | 1.5 | 60 |
| 149 | Universal Influenza Vaccines, a Dream to Be Realized Soon. Viruses, 2014, 6, 1974-1991. | 1.5 | 60 |
| 150 | Kinetics of Immune Responses to Influenza Virus-Like Particles and Dose-Dependence of Protection with a Single Vaccination. Journal of Virology, 2009, 83, 4489-4497. | 1.5 | 59 |
| 151 | Long-Term Protective Immunity from an Influenza Virus-Like Particle Vaccine Administered with a Microneedle Patch. Vaccine Journal, 2013, 20, 1433-1439. | 3.2 | 59 |
| 152 | STUDIES ON PNEUMONIA VIRUS OF MICE (PVM) IN CELL CULTURE. Journal of Experimental Medicine, 1967, 126, 267-276. | 4.2 | 58 |
| 153 | Effect of membrane protein on lipid bilayer structure: a spin-label electron spin resonance study of vesicular stomatitis virus. Biochemistry, 1976, 15, 2356-2360. | 1.2 | 58 |
| 154 | Current options for vaccine delivery systems by mucosal routes. Journal of Controlled Release, 1997, 48, 243-257. | 4.8 | 58 |
| 155 | Pause on Avian Flu Transmission Research. Science, 2012, 335, 400-401. | 6.0 | 58 |
| 156 | Golgi complex localization of the Punta Toro virus G2 protein requires its association with the G1 protein. Virology, 1991, 183, 351-365. | 1.1 | 57 |
| 157 | Synthesis of mumps virus polypeptides in infected vero cells. Virology, 1982, 119, 430-438. | 1.1 | 56 |
| 158 | Function of the KKXX Motif in Endoplasmic Reticulum Retrieval of a Transmembrane Protein Depends on the Length and Structure of the Cytoplasmic Domain. Journal of Biological Chemistry, 1998, 273, 950-956. | 1.6 | 56 |
| 159 | The nucleic acid of the parainfluenza virus SV5. Virology, 1968, 35, 289-296. | 1.1 | 55 |
| 160 | Nonpolarized expression of a secreted murine leukemia virus glycoprotein in polarized epithelial cells. Cell, 1986, 47, 1053-1059. | 13.5 | 55 |
| 161 | Cross-protection by co-immunization with influenza hemagglutinin DNA and inactivated virus vaccine using coated microneedles. Journal of Controlled Release, 2013, 172, 579-588. | 4.8 | 55 |
| 162 | Nanoclusters self-assembled from conformation-stabilized influenza M2e as broadly cross-protective influenza vaccines. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 473-482. | 1.7 | 55 |

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| 163 | Modified HIV envelope proteins with enhanced binding to neutralizing monoclonal antibodies. Virology, 2005, 331, 20-32. | 1.1 | 54 |
| 164 | Serological Memory and Long-term Protection to Novel H1N1 Influenza Virus After Skin Vaccination. Journal of Infectious Diseases, 2011, 204, 582-591. | 1.9 | 54 |
| 165 | Reproduction of Myxoviruses. , 1975, , 179-252. | | 53 |
| 166 | Time Course of Synthesis and Assembly of Influenza Virus Proteins. Journal of Virology, 1974, 14, 1083-1091. | 1.5 | 53 |
| 167 | Mutations in the Putative HR-C Region of the Measles Virus F 2 Glycoprotein Modulate Syncytium Formation. Journal of Virology, 2003, 77, 4181-4190. | 1.5 | 52 |
| 168 | Design of a Small-Molecule Entry Inhibitor with Activity against Primary Measles Virus Strains. Antimicrobial Agents and Chemotherapy, 2005, 49, 3755-3761. | 1.4 | 52 |
| 169 | Intracellular accumulation of punta toro virus glycoproteins expressed from cloned cDNA. Virology, 1988, 167, 251-260. | 1.1 | 51 |
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