

R Holland Cheng

List of Publications by Year in descending order

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74
papers

3,140
citations

218677

26
h-index

155660

55
g-index

77
all docs

77
docs citations

77
times ranked

4123
citing authors

#	ARTICLE	IF	CITATIONS
1	A Model-Based Approach for Determining Orientations of Biological Macromolecules Imaged by Cryoelectron Microscopy. <i>Journal of Structural Biology</i> , 1996, 116, 120-130.	2.8	374
2	Architecture of ribonucleoprotein complexes in influenza A virus particles. <i>Nature</i> , 2006, 439, 490-492.	27.8	352
3	Biological and immunological characteristics of hepatitis E virus-like particles based on the crystal structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12986-12991.	7.1	214
4	A self-assembling nanoparticle for paclitaxel delivery in ovarian cancer. <i>Biomaterials</i> , 2009, 30, 6006-6016.	11.4	211
5	Congo red and thioflavin β analogs detect A β oligomers. <i>Journal of Neurochemistry</i> , 2008, 104, 457-468.	3.9	198
6	Well-Defined, Size-Tunable, Multifunctional Micelles for Efficient Paclitaxel Delivery for Cancer Treatment. <i>Bioconjugate Chemistry</i> , 2010, 21, 1216-1224.	3.6	142
7	Structure of Hepatitis E Virion-sized Particle Reveals an RNA-dependent Viral Assembly Pathway*. <i>Journal of Biological Chemistry</i> , 2010, 285, 33175-33183.	3.4	140
8	Recombinant Hepatitis E Capsid Protein Self-Assembles into a Dual-Domain T = 1 Particle Presenting Native Virus Epitopes. <i>Virology</i> , 1999, 265, 35-45.	2.4	136
9	Copper β -Doxorubicin as a Nanoparticle Cargo Retains Efficacy with Minimal Toxicity. <i>Molecular Pharmaceutics</i> , 2010, 7, 1948-1958.	4.6	99
10	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021, 592, 195-204.	27.8	84
11	Spatial Configuration of Hepatitis E Virus Antigenic Domain. <i>Journal of Virology</i> , 2011, 85, 1117-1124.	3.4	81
12	Combining the rapid MTT formazan exocytosis assay and the MC65 protection assay led to the discovery of carbazole analogs as small molecule inhibitors of A β oligomer-induced cytotoxicity. <i>Brain Research</i> , 2007, 1130, 223-234.	2.2	59
13	Structural and Functional Analysis of Integrin β 2I Domain Interaction with Echovirus 1. <i>Journal of Biological Chemistry</i> , 2004, 279, 11632-11638.	3.4	55
14	Structural Evidence of Glycoprotein Assembly in Cellular Membrane Compartments prior to Alphavirus Budding. <i>Journal of Virology</i> , 2010, 84, 11145-11151.	3.4	53
15	Multiple Assembly States of Lumazine Synthase: A Model Relating Catalytic Function and Molecular Assembly. <i>Journal of Molecular Biology</i> , 2006, 362, 753-770.	4.2	43
16	Tumor-specific delivery of gemcitabine with activatable liposomes. <i>Journal of Controlled Release</i> , 2019, 309, 277-288.	9.9	42
17	Developmentally Regulated Post-translational Modification of Nucleoplasmin Controls Histone Sequestration and Deposition. <i>Cell Reports</i> , 2015, 10, 1735-1748.	6.4	41
18	Comparative evaluation of trimeric envelope glycoproteins derived from subtype C and B HIV-1 R5 isolates. <i>Virology</i> , 2008, 372, 273-290.	2.4	39

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19	In situ T-cell transfection by anti-CD3-conjugated lipid nanoparticles leads to T-cell activation, migration, and phenotypic shift. <i>Biomaterials</i> , 2022, 281, 121339.	11.4	36
20	Structural Evolution of <i>Reoviridae</i> Revealed by <i>Oryzavirus</i> in Acquiring the Second Capsid Shell. <i>Journal of Virology</i> , 2008, 82, 11344-11353.	3.4	35
21	Chimeric hepatitis E virus-like particle as a carrier for oral-delivery. <i>Vaccine</i> , 2013, 31, 417-424.	3.8	34
22	Comparable Antigenicity and Immunogenicity of Oligomeric Forms of a Novel, Acute HIV-1 Subtype C gp145 Envelope for Use in Preclinical and Clinical Vaccine Research. <i>Journal of Virology</i> , 2015, 89, 7478-7493.	3.4	33
23	Development of thermosensitive resiquimod-loaded liposomes for enhanced cancer immunotherapy. <i>Journal of Controlled Release</i> , 2021, 330, 1080-1094.	9.9	32
24	Quaternary structures of HIV Env immunogen exhibit conformational vicissitudes and interface diminution elicited by ligand binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6091-6096.	7.1	30
25	Calcium Bridge Triggers Capsid Disassembly in the Cell Entry Process of Simian Virus 40. <i>Journal of Biological Chemistry</i> , 2009, 284, 34703-34712.	3.4	29
26	Compensation of Missing Wedge Effects with Sequential Statistical Reconstruction in Electron Tomography. <i>PLoS ONE</i> , 2014, 9, e108978.	2.5	29
27	Cell-free production of a functional oligomeric form of a <i>Chlamydia major</i> outer-membrane protein (MOMP) for vaccine development. <i>Journal of Biological Chemistry</i> , 2017, 292, 15121-15132.	3.4	28
28	Three-Dimensional Structure of the Enveloped Bacteriophage ϕ 12: An Incomplete T=13 Lattice Is Superposed on an Enclosed T=1 Shell. <i>PLoS ONE</i> , 2009, 4, e6850.	2.5	27
29	The structure of avian polyomavirus reveals variably sized capsids, non-conserved inter-capsomere interactions, and a possible location of the minor capsid protein VP4. <i>Virology</i> , 2011, 411, 142-152.	2.4	26
30	Crystal structure of the FERM-folded talin head reveals the determinants for integrin binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32402-32412.	7.1	26
31	Chemically activatable viral capsid functionalized for cancer targeting. <i>Nanomedicine</i> , 2016, 11, 377-390.	3.3	24
32	Calpains promote β 2 integrin turnover in nonrecycling integrin pathway. <i>Molecular Biology of the Cell</i> , 2012, 23, 448-463.	2.1	23
33	The Dynamic Envelope of a Fusion Class II Virus. <i>Journal of Biological Chemistry</i> , 2007, 282, 6752-6762.	3.4	21
34	Candidate anti- $A\beta$ fluorene compounds selected from analogs of amyloid imaging agents. <i>Neurobiology of Aging</i> , 2010, 31, 1690-1699.	3.1	21
35	NDAT Targets PI3K-Mediated PD-L1 Upregulation to Reduce Proliferation in Gefitinib-Resistant Colorectal Cancer. <i>Cells</i> , 2020, 9, 1830.	4.1	21
36	Fabrication of Massive Sheets of Single Layer Patterned Arrays Using Lipid Directed Reengineered Phi29 Motor Dodecamer. <i>ACS Nano</i> , 2009, 3, 100-107.	14.6	20

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37	Crystallization and preliminary X-ray diffraction analysis of recombinant hepatitis E virus-like particle. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 318-322.	0.7	18
38	The F1 loop of the talin head domain acts as a gatekeeper in integrin activation and clustering. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	18
39	Efficient implementation of a filtered back-projection algorithm using a voxel-by-voxel approach. <i>Journal of Structural Biology</i> , 2006, 154, 287-296.	2.8	17
40	Positron emission tomography imaging of novel AAV capsids maps rapid brain accumulation. <i>Nature Communications</i> , 2020, 11, 2102.	12.8	17
41	The functional organization of the internal components of Rice dwarf virus. <i>Journal of Biochemistry</i> , 2010, 147, 843-850.	1.7	16
42	Controlling the diameter, monodispersity, and solubility of ApoA1 nanolipoprotein particles using telodendrimer chemistry. <i>Protein Science</i> , 2013, 22, 1078-1086.	7.6	16
43	Nanodelivery of a functional membrane receptor to manipulate cellular phenotype. <i>Scientific Reports</i> , 2018, 8, 3556.	3.3	15
44	Toxicologic Concerns with Current Medical Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7597.	4.1	15
45	Adjustable Ellipsoid Nanoparticles Assembled from Re-engineered Connectors of the Bacteriophage Phi29 DNA Packaging Motor. <i>ACS Nano</i> , 2009, 3, 2163-2170.	14.6	14
46	Structural characterization of site-modified nanocapsid with monodispersed gold clusters. <i>Scientific Reports</i> , 2017, 7, 17048.	3.3	13
47	Immunological equivalence between mouse brain-derived and Vero cell-derived Japanese encephalitis vaccines. <i>Virus Research</i> , 2006, 121, 152-160.	2.2	12
48	Tissue targeted nanocapsids for oral insulin delivery via drink. <i>Pharmaceutical Patent Analyst</i> , 2018, 7, 121-127.	1.1	12
49	Pleomorphic Configuration of the Trimeric Capsid Proteins of Rice dwarf virus that Allows Formation of Both the Outer Capsid and Tubular Crystals. <i>Journal of Molecular Biology</i> , 2008, 383, 252-265.	4.2	10
50	Trimeric HIV Env provides epitope occlusion mediated by hypervariable loops. <i>Scientific Reports</i> , 2015, 4, 7025.	3.3	9
51	Integrin $\alpha 2 \beta 1$ in nonactivated conformation can induce focal adhesion kinase signaling. <i>Scientific Reports</i> , 2017, 7, 3414.	3.3	8
52	Structural Insight into CVB3-VLP Non-Adjuvanted Vaccine. <i>Microorganisms</i> , 2020, 8, 1287.	3.6	8
53	Soluble CD40L activates soluble and cell-surface integrin $\alpha v \beta 3$, $\alpha 5 \beta 1$, and $\alpha 4 \beta 1$ by binding to the allosteric ligand-binding site (site 2). <i>Journal of Biological Chemistry</i> , 2021, 296, 100399.	3.4	8
54	Importance of Calcium-Binding Site 2 in Simian Virus 40 Infection. <i>Journal of Virology</i> , 2007, 81, 6099-6105.	3.4	7

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55	Surface modulatable nanocapsids for targeting and tracking toward nanotheranostic delivery. <i>Pharmaceutical Patent Analyst</i> , 2016, 5, 307-317.	1.1	7
56	A Scalable Method for Squalenoylation and Assembly of Multifunctional ⁶⁴ Cu-Labeled Squalenoylated Gemcitabine Nanoparticles. <i>Nanotheranostics</i> , 2018, 2, 387-402.	5.2	7
57	A Bayesian approach for suppression of limited angular sampling artifacts in single particle 3D reconstruction. <i>Journal of Structural Biology</i> , 2015, 191, 318-331.	2.8	6
58	Surface Functionalization of Hepatitis E Virus Nanoparticles Using Chemical Conjugation Methods. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	6
59	Self-Assembly of Heptameric Nanoparticles Derived from Tag-Functionalized Phi29 Connectors. <i>ACS Nano</i> , 2010, 4, 7651-7659.	14.6	5
60	Permeability Changes of Integrin-Containing Multivesicular Structures Triggered by Picornavirus Entry. <i>PLoS ONE</i> , 2014, 9, e108948.	2.5	5
61	Putative role of Tat-Env interaction in HIV infection. <i>Aids</i> , 2013, 27, 2345-2354.	2.2	3
62	Hepatitis E Nanoparticle: A Capsid-Based Platform for Non-Invasive Vaccine Delivery and Imaging-Guided Cancer Treatment. <i>Advanced Research in Gastroenterology & Hepatology</i> , 2018, 9, .	0.0	3
63	HIV-1 Tat protein induces viral internalization through Env-mediated interactions in dose-dependent manner. <i>Aids</i> , 2013, 27, 2355-2364.	2.2	2
64	Outer-capsid P8 proteins of phytoreoviruses mediate secretion of assembled virus-like particles from insect cells. <i>Journal of General Virology</i> , 2010, 91, 2857-2861.	2.9	1
65	Challenges in Designing HIV Env Immunogens for Developing a Vaccine. , 2008, , 327-379.		1
66	Hepatitis E Virus Nanoparticle Encapsulating Nano-Theranostic Reagent as Modularized Capsule. <i>Advanced Research in Gastroenterology & Hepatology</i> , 2017, 5, .	0.0	1
67	Structure-specific THz response on DNA condensation. , 2013, , .		0
68	Protein-based nanoplatform for detection of tumorigenic polyps in the colon via noninvasive mucosal routes. <i>Pharmaceutical Patent Analyst</i> , 2021, 10, 13-24.	1.1	0
69	Life Cycles of Polyomaviridae " DNA Tumor Virus. , 2008, , 609-629.		0
70	The Assembly of the Double-Layered Capsids of Phytoreoviruses. , 2008, , 463-482.		0
71	Transmission Electron Microscopy and Computer-Aided Image Processing for 3D Structural Analysis of Macromolecules. , 2010, , 155-183.		0
72	Multiresolution MAPEM Method for 3D Reconstruction of Symmetrical Particles with Electron Microscopy. <i>IFMBE Proceedings</i> , 2018, , 141-144.	0.3	0

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73	Abstract 2171: Activatable nanodelivery of high payload gemcitabine augments therapeutic efficacy in murine breast and pancreatic cancer models. , 2019, , .		0
74	Development of HEVNP as a Multifunctional Strategy to Combat SARS-CoV2 as Preventive Vaccine and Antiviral Drug. Acta Scientific Microbiology, 2020, 3, 133-141.	0.1	0