

Guangchuan Wang

List of Publications by Year in descending order

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36
papers

2,055
citations

236925

25
h-index

361022

35
g-index

37
all docs

37
docs citations

37
times ranked

3250
citing authors

#	ARTICLE	IF	CITATIONS
1	Systematic Immunotherapy Target Discovery Using Genome-Scale In Vivo CRISPR Screens in CD8 ⁺ T Cells. <i>Cell</i> , 2019, 178, 1189-1204.e23.	28.9	189
2	AAV-mediated direct in vivo CRISPR screen identifies functional suppressors in glioblastoma. <i>Nature Neuroscience</i> , 2017, 20, 1329-1341.	14.8	179
3	Rational design of thermostable vaccines by engineered peptide-induced virus self-biomineralization under physiological conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7619-7624.	7.1	134
4	In vivo CRISPR screening in CD8 T cells with AAV ⁺ Sleeping Beauty hybrid vectors identifies membrane targets for improving immunotherapy for glioblastoma. <i>Nature Biotechnology</i> , 2019, 37, 1302-1313.	17.5	123
5	One-step generation of modular CAR-T cells with AAV ⁺ Cpf1. <i>Nature Methods</i> , 2019, 16, 247-254.	19.0	101
6	In vitro effects of nanophase hydroxyapatite particles on proliferation and osteogenic differentiation of bone marrow-derived mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 1083-1091.	4.0	94
7	Multiplexed activation of endogenous genes by CRISPRa elicits potent antitumor immunity. <i>Nature Immunology</i> , 2019, 20, 1494-1505.	14.5	83
8	Alleviation of high light-induced photoinhibition in cyanobacteria by artificially conferred biosilica shells. <i>Chemical Communications</i> , 2013, 49, 7525.	4.1	76
9	Antigenically shielded universal red blood cells by polydopamine-based cell surface engineering. <i>Chemical Science</i> , 2014, 5, 3463-3468.	7.4	74
10	Shell Nanostructured Fe ₃ O ₄ @NiSiO ₃ for Selective Affinity and Magnetic Separation of His-Tagged Proteins. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19092-19099.	8.0	73
11	CRISPR-GEMM Pooled Mutagenic Screening Identifies KMT2D as a Major Modulator of Immune Checkpoint Blockade. <i>Cancer Discovery</i> , 2020, 10, 1912-1933.	9.4	71
12	A genome-scale gain-of-function CRISPR screen in CD8 ⁺ T cells identifies proline metabolism as a means to enhance CAR-T therapy. <i>Cell Metabolism</i> , 2022, 34, 595-614.e14.	16.2	70
13	Extracellular Silica Nanocoat Confers Thermotolerance on Individual Cells: A Case Study of Material-Based Functionalization of Living Cells. <i>ChemBioChem</i> , 2010, 11, 2368-2373.	2.6	69
14	Human Enterovirus Nonstructural Protein 2CATPase Functions as Both an RNA Helicase and ATP-Independent RNA Chaperone. <i>PLoS Pathogens</i> , 2015, 11, e1005067.	4.7	68
15	Mapping a functional cancer genome atlas of tumor suppressors in mouse liver using AAV-CRISPR-mediated direct in vivo screening. <i>Science Advances</i> , 2018, 4, eaao5508.	10.3	64
16	Calcium phosphate nanoparticles primarily induce cell necrosis through lysosomal rupture: the origination of material cytotoxicity. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3480.	5.8	62
17	Hydrated Silica Exterior Produced by Biomimetic Silicification Confers Viral Vaccine Heat-Resistance. <i>ACS Nano</i> , 2015, 9, 799-808.	14.6	59
18	Biomineralization-Based Virus Shell Engineering: Towards Neutralization Escape and Tropism Expansion. <i>Advanced Healthcare Materials</i> , 2012, 1, 443-449.	7.6	57

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19	In vivo profiling of metastatic double knockouts through CRISPR-Cpf1 screens. <i>Nature Methods</i> , 2019, 16, 405-408.	19.0	52
20	Eggshell-Inspired Biomineralization Generates Vaccines that Do Not Require Refrigeration. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10576-10579.	13.8	50
21	Human IgG Subclasses against Enterovirus Type 71: Neutralization versus Antibody Dependent Enhancement of Infection. <i>PLoS ONE</i> , 2013, 8, e64024.	2.5	45
22	Nanomodification of living organisms by biomimetic mineralization. <i>Nano Research</i> , 2014, 7, 1404-1428.	10.4	39
23	Robust glucose oxidase with a Fe ₃ O ₄ @C-silica nanohybrid structure. <i>Journal of Materials Chemistry B</i> , 2016, 4, 4726-4731.	5.8	29
24	The effect of amorphous calcium phosphate on protein protection against thermal denaturation. <i>Chemical Communications</i> , 2015, 51, 8705-8707.	4.1	27
25	Robust vaccine formulation produced by assembling a hybrid coating of polyethyleneimine-silica. <i>Chemical Science</i> , 2016, 7, 1753-1759.	7.4	27
26	Nano Regulation of Cisplatin Chemotherapeutic Behaviors by Biomineralization Controls. <i>Small</i> , 2014, 10, 3644-3649.	10.0	21
27	Mineralized State of the Avian Influenza Virus in the Environment. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12908-12912.	13.8	21
28	Alumina-encapsulated vaccine formulation with improved thermostability and immunogenicity. <i>Chemical Communications</i> , 2016, 52, 6447-6450.	4.1	18
29	Crystal Structures of Enterovirus 71 (EV71) Recombinant Virus Particles Provide Insights into Vaccine Design. <i>Journal of Biological Chemistry</i> , 2015, 290, 3198-3208.	3.4	17
30	Convergent Identification and Interrogation of Tumor-Intrinsic Factors that Modulate Cancer Immunity In Vivo. <i>Cell Systems</i> , 2019, 8, 136-151.e7.	6.2	14
31	Production of rabbit monoclonal antibodies against mouse embryonic stem cells and identification of pluripotency-associated surface antigens. <i>Journal of Immunological Methods</i> , 2011, 365, 149-157.	1.4	13
32	Intracellular delivery of biomineralized monoclonal antibodies to combat viral infection. <i>Chemical Communications</i> , 2016, 52, 1879-1882.	4.1	12
33	Combination therapy for HCC: from CRISPR screening to the design of clinical therapies. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 359.	17.1	3
34	Mineralized State of the Avian Influenza Virus in the Environment. <i>Angewandte Chemie</i> , 2017, 129, 13088-13092.	2.0	2
35	In vivo combinatorial knockout screens using CRISPR-Cpf1. <i>Protocol Exchange</i> , 0, , .	0.3	1
36	Virus Shell Engineering: Biomineralization-Based Virus Shell Engineering: Towards Neutralization Escape and Tropism Expansion (<i>Adv. Healthcare Mater.</i> 4/2012). <i>Advanced Healthcare Materials</i> , 2012, 1, 366-366.	7.6	0