

Kang Chen

List of Publications by Year in descending order

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74
papers

4,049
citations

126907

33
h-index

123424

61
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76
all docs

76
docs citations

76
times ranked

6216
citing authors

#	ARTICLE	IF	CITATIONS
1	Immunoglobulin D enhances immune surveillance by activating antimicrobial, proinflammatory and B cell-stimulating programs in basophils. <i>Nature Immunology</i> , 2009, 10, 889-898.	14.5	362
2	Immunoglobulin Responses at the Mucosal Interface. <i>Annual Review of Immunology</i> , 2011, 29, 273-293.	21.8	309
3	Conformation of the Backbone in Unfolded Proteins. <i>Chemical Reviews</i> , 2006, 106, 1877-1897.	47.7	249
4	Length Effects in Antimicrobial Peptides of the (RW) _n Series. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 597-603.	3.2	167
5	Rethinking mucosal antibody responses: IgM, IgG and IgD join IgA. <i>Nature Reviews Immunology</i> , 2020, 20, 427-441.	22.7	165
6	VEGF may contribute to macrophage recruitment and M2 polarization in the decidua. <i>PLoS ONE</i> , 2018, 13, e0191040.	2.5	156
7	Polyproline II propensities from GCXCG peptides reveal an anticorrelation with $\hat{\alpha}$ -sheet scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17964-17968.	7.1	148
8	Vaccination Strategies to Promote Mucosal Antibody Responses. <i>Immunity</i> , 2010, 33, 479-491.	14.3	138
9	Evaluation of Biologically Relevant Short $\hat{\alpha}$ -Helices Stabilized by a Main-Chain Hydrogen-Bond Surrogate. <i>Journal of the American Chemical Society</i> , 2006, 128, 9248-9256.	13.7	136
10	New insights into the enigma of immunoglobulin D. <i>Immunological Reviews</i> , 2010, 237, 160-179.	6.0	111
11	Role of Macrophages in Pregnancy and Related Complications. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2019, 67, 295-309.	2.3	109
12	Functions and Malfunctions of Mammalian DNA-Cytosine Deaminases. <i>Chemical Reviews</i> , 2016, 116, 12688-12710.	47.7	104
13	Inhibition of Mcl-1 enhances cell death induced by the Bcl-2-selective inhibitor ABT-199 in acute myeloid leukemia cells. <i>Signal Transduction and Targeted Therapy</i> , 2017, 2, 17012.	17.1	104
14	The enigmatic function of IgD: some answers at last. <i>European Journal of Immunology</i> , 2018, 48, 1101-1113.	2.9	101
15	The polyproline II conformation in short alanine peptides is noncooperative. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 15352-15357.	7.1	86
16	Interleukin-33-induced expression of PIBF1 by decidual B cells protects against preterm labor. <i>Nature Medicine</i> , 2017, 23, 128-135.	30.7	85
17	Molecular mechanisms for the subversion of MyD88 signaling by TcpC from virulent uropathogenic <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6985-6990.	7.1	77
18	Solvent Dependence of PII Conformation in Model Alanine Peptides. <i>Journal of the American Chemical Society</i> , 2004, 126, 15141-15150.	13.7	75

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19	The function and regulation of immunoglobulin D. <i>Current Opinion in Immunology</i> , 2011, 23, 345-352.	5.5	75
20	The Pentapeptide GGAGG Has PII Conformation. <i>Journal of the American Chemical Society</i> , 2003, 125, 8092-8093.	13.7	67
21	Enabling adoption of 2D-NMR for the higher order structure assessment of monoclonal antibody therapeutics. <i>MAbs</i> , 2019, 11, 94-105.	5.2	67
22	Secreted IgD Amplifies Humoral T Helper 2 Cell Responses by Binding Basophils via Galectin-9 and CD44. <i>Immunity</i> , 2018, 49, 709-724.e8.	14.3	60
23	Maternal vaccination: moving the science forward. <i>Human Reproduction Update</i> , 2015, 21, 119-135.	10.8	57
24	Solution structure of a viral DNA repair polymerase. <i>Nature Structural Biology</i> , 2001, 8, 936-941.	9.7	53
25	Immunology of the Uterine and Vaginal Mucosae. <i>Trends in Immunology</i> , 2018, 39, 302-314.	6.8	53
26	Nucleation and stability of hydrogen-bond surrogate-based α -helices. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 4074-4081.	2.8	50
27	Phosphoinositides Direct Equine Infectious Anemia Virus Gag Trafficking and Release. <i>Traffic</i> , 2011, 12, 438-451.	2.7	50
28	Neighbor Effect on PPII Conformation in Alanine Peptides. <i>Journal of the American Chemical Society</i> , 2005, 127, 10146-10147.	13.7	49
29	Solution NMR Characterizations of Oligomerization and Dynamics of Equine Infectious Anemia Virus Matrix Protein and Its Interaction with PIP2. <i>Biochemistry</i> , 2008, 47, 1928-1937.	2.5	47
30	Simple NMR methods for evaluating higher order structures of monoclonal antibody therapeutics with quinary structure. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 128, 398-407.	2.8	46
31	Comparison of NMR and Dynamic Light Scattering for Measuring Diffusion Coefficients of Formulated Insulin: Implications for Particle Size Distribution Measurements in Drug Products. <i>AAPS Journal</i> , 2017, 19, 1760-1766.	4.4	45
32	Multivalent Antimicrobial Peptides from a Reactive Polymer Scaffold. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 3436-3439.	6.4	42
33	Immunization of pregnant women: Future of early infant protection. <i>Human Vaccines and Immunotherapeutics</i> , 2015, 11, 2549-2555.	3.3	41
34	Tumor-released autophagosomes induces CD4+ T cell-mediated immunosuppression via a TLR2 \rightarrow IL-6 cascade. , 2019, 7, 178.		37
35	Spin Relaxation Enhancement Confirms Dominance of Extended Conformations in Short Alanine Peptides. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 9036-9039.	13.8	29
36	Dopamine inhibits the function of Gr-1+CD115+ myeloid-derived suppressor cells through D1-like receptors and enhances anti-tumor immunity. <i>Journal of Leukocyte Biology</i> , 2015, 97, 191-200.	3.3	29

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37	Analytical considerations for measuring the globule size distribution of cyclosporine ophthalmic emulsions. <i>International Journal of Pharmaceutics</i> , 2018, 550, 229-239.	5.2	28
38	Chemical Structure and Composition of Major Glycans Covalently Linked to Therapeutic Monoclonal Antibodies by Middle-Down Nuclear Magnetic Resonance. <i>Analytical Chemistry</i> , 2018, 90, 11016-11024.	6.5	28
39	The small molecule tyrosine kinase inhibitor NVP-BHG712 antagonizes ABCC10-mediated paclitaxel resistance: a preclinical and pharmacokinetic study. <i>Oncotarget</i> , 2015, 6, 510-521.	1.8	28
40	Extended Model Free Approach To Analyze Correlation Functions of Multidomain Proteins in the Presence of Motional Coupling. <i>Journal of the American Chemical Society</i> , 2008, 130, 12745-12751.	13.7	24
41	Brain-derived neurotrophic factor precursor in the immune system is a novel target for treating multiple sclerosis. <i>Theranostics</i> , 2021, 11, 715-730.	10.0	24
42	Dendritic cell-derived nitric oxide inhibits the differentiation of effector dendritic cells. <i>Oncotarget</i> , 2016, 7, 74834-74845.	1.8	23
43	Water proton spin saturation affects measured protein backbone ¹⁵ N spin relaxation rates. <i>Journal of Magnetic Resonance</i> , 2011, 213, 151-157.	2.1	22
44	NMR profiling of biomolecules at natural abundance using 2D ¹ H- ¹⁵ N and ¹ H- ¹³ C multiplicity-separated (MS) HSQC spectra. <i>Journal of Magnetic Resonance</i> , 2015, 251, 65-70.	2.1	22
45	Maspin expression in prostate tumor elicits host anti-tumor immunity. <i>Oncotarget</i> , 2014, 5, 11225-11236.	1.8	22
46	PII structure in the model peptides for unfolded proteins: Studies on ubiquitin fragments and several alanine-rich peptides containing QQQ, SSS, FFF, and VVV. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 63, 312-321.	2.6	21
47	T follicular helper cells restricted by IRF8 contribute to T cell-mediated inflammation. <i>Journal of Autoimmunity</i> , 2019, 96, 113-122.	6.5	21
48	Chemometric Methods to Quantify 1D and 2D NMR Spectral Differences Among Similar Protein Therapeutics. <i>AAPS PharmSciTech</i> , 2018, 19, 1011-1019.	3.3	20
49	Tackling tumor heterogeneity and phenotypic plasticity in cancer precision medicine: our experience and a literature review. <i>Cancer and Metastasis Reviews</i> , 2018, 37, 655-663.	5.9	18
50	An NMR-Based Similarity Metric for Higher Order Structure Quality Assessment Among U.S. Marketed Insulin Therapeutics. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 1519-1528.	3.3	16
51	Stress Forces First Lineage Differentiation of Mouse Embryonic Stem Cells; Validation of a High-Throughput Screen for Toxicant Stress. <i>Stem Cells and Development</i> , 2019, 28, 101-113.	2.1	15
52	A Simple and Noninvasive DOSY NMR Method for Droplet Size Measurement of Intact Oil-In-Water Emulsion Drug Products. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 815-820.	3.3	15
53	The Maturation Refolding of the β -Hairpin Motif of Equine Infectious Anemia Virus Capsid Protein Extends Its Helix ± 1 at Capsid Assembly Locus. <i>Journal of Biological Chemistry</i> , 2013, 288, 15111-15120.	3.4	12
54	Anergic B Cells: Precarious On-Call Warriors at the Nexus of Autoimmunity and False-Flagged Pathogens. <i>Frontiers in Immunology</i> , 2015, 6, 580.	4.8	12

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55	NMR Spectroscopy for Protein Higher Order Structure Similarity Assessment in Formulated Drug Products. <i>Molecules</i> , 2021, 26, 4251.	3.8	11
56	Application of Ultra-Centrifugation and Bench-Top 19F NMR for Measuring Drug Phase Partitioning for the Ophthalmic Oil-in-Water Emulsion Products. <i>AAPS PharmSciTech</i> , 2018, 19, 1647-1651.	3.3	10
57	Minor N-Glycan Mapping of Monoclonal Antibody Therapeutics Using Middle-Down NMR Spectroscopy. <i>Molecular Pharmaceutics</i> , 2021, 18, 441-450.	4.6	9
58	The ELISA Detectability and Potency of Pegfilgrastim Decrease in Physiological Conditions: Key Roles for Aggregation and Individual Variability. <i>Scientific Reports</i> , 2020, 10, 2476.	3.3	8
59	Seroprevalence of SARS-CoV-2 immunoglobulins in pregnant women and neonatal cord blood from a highly impacted region. <i>Placenta</i> , 2021, 115, 146-150.	1.5	8
60	Top-down approach in protein RDC data analysis: de novo estimation of the alignment tensor. <i>Journal of Biomolecular NMR</i> , 2007, 38, 303-313.	2.8	6
61	Determining Interdomain Structure and Dynamics of a Retroviral Capsid Protein in the Presence of Oligomerization: Implication for Structural Transition in Capsid Assembly. <i>Biochemistry</i> , 2013, 52, 5365-5371.	2.5	6
62	An NMR Protocol for In Vitro Paclitaxel Release from an Albumin-Bound Nanoparticle Formulation. <i>AAPS PharmSciTech</i> , 2020, 21, 136.	3.3	6
63	Migration-inducing gene 7 promotes tumorigenesis and angiogenesis and independently predicts poor prognosis of epithelial ovarian cancer. <i>Oncotarget</i> , 2016, 7, 27552-27566.	1.8	5
64	Prognostic modeling of the immune-centric transcriptome reveals interleukin signaling candidates contributing to differential patient outcomes. <i>Carcinogenesis</i> , 2018, 39, 1447-1454.	2.8	4
65	2D NMR Peak Profiling to Compare Chemical Differences between Batches of Pentosan Polysulfate Sodium. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 211, 114589.	2.8	3
66	A Real-Time NMR Method for Measurement of In Vitro Aggregation Kinetics Of Degarelix Drug Products. <i>AAPS PharmSciTech</i> , 2021, 22, 73.	3.3	2
67	Multiphase Drug Distribution and Exchange in Oil-in-Water Nanoemulsion Revealed by High-Resolution ¹⁹ F qNMR. <i>Molecular Pharmaceutics</i> , 0, , .	4.6	2
68	Sedimentation Velocity Analytical Ultracentrifugation Analysis of Marketed Rituximab Drug Product Size Distribution. <i>Pharmaceutical Research</i> , 2020, 37, 238.	3.5	1
69	Malignant B Cells from Hairy Cell Leukemia Express an Innate Phenotype and Undergo IgD Class Switching in Response to Innate Environmental Factors, Including BAFF and APRIL. <i>Blood</i> , 2007, 110, 4707-4707.	1.4	1
70	Reply: Maternal vaccination: moving the science forward. <i>Human Reproduction Update</i> , 2015, 21, 408-409.	10.8	0
71	Transcriptional programs of tumor infiltrating T-cells provide insight into mechanisms of immune response and new targets for immunotherapy. <i>Journal of Thoracic Disease</i> , 2017, 9, 4162-4164.	1.4	0
72	A Novel Frameshift Variant of the <i>MITF</i> Gene in a Chinese Family with Waardenburg Syndrome Type 2. <i>Molecular Syndromology</i> , 2021, 12, 244-249.	0.8	0

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73	Long-Distance Tunneling Nanotubules Shuttle Viral Immunoglobulin Class Switch-Suppressing Factors from HIV-Infected Macrophages to B Cells.. Blood, 2007, 110, 2278-2278.	1.4	0
74	CD4 ⁺ CD ⁺ Class Switch Recombination and IgD Production Contribute to Mucosal Immunity. FASEB Journal, 2008, 22, 854.7.	0.5	0