Andrew B Herr

List of Publications by Year
in descending order

94 papers	6,000 citations	94433 37 h-index	74163 75 g-index
98 all docs	98 docs citations	98 times ranked	8037 citing authors

#	Article	IF	Citations
1	Endosomal Sequestration of TLR4 Antibody Induces Myeloid-Derived Suppressor Cells and Reverses Acute Type 1 Diabetes. Diabetes, 2022, 71, 470-482.	0.6	4
2	Pregnancy enables antibody protection against intracellular infection. Nature, 2022, 606, 769-775.	27.8	22
3	Solution Structural Studies of Pre-amyloid Oligomer States of the Biofilm Protein Aap. Journal of Molecular Biology, 2022, 434, 167708.	4.2	6
4	Biofilm propensity of Staphylococcus aureus skin isolates is associated with increased atopic dermatitis severity and barrier dysfunction in the MPAACH pediatric cohort. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 302-313.	5.7	33
5	Suppression of IgE-mediated anaphylaxis and food allergy with monovalent anti-FcÎµRIÎ± mAbs. Journal of Allergy and Clinical Immunology, 2021, 147, 1838-1854.e4.	2.9	7
6	Binding Proteins | Antibodies: Structure and Immune Effector Functions. , 2021, , 547-558.		1
7	Modification of cell wall polysaccharide guides cell division in Streptococcus mutans. Nature Chemical Biology, 2021, 17, 878-887.	8.0	18
8	Structural characterization of a novel GPVI-nanobody complex reveals a biologically active domain-swapped GPVI dimer. Blood, 2021, 137, 3443-3453.	1.4	23
9	Seroprevalence of SARS-CoV-2 infection in Cincinnati Ohio USA from August to December 2020. PLoS ONE, 2021, 16, e0254667.	2.5	4
10	The molecular characterization of antibody binding to a superantigen-like protein from a commensal microbe. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	3
11	Rapid desensitization of humanized mice with anti-human FcÎµRIÎ± monoclonal antibodies. Journal of Allergy and Clinical Immunology, 2020, 145, 907-921.e3.	2.9	14
12	On the surface. Annals of Allergy, Asthma and Immunology, 2020, 125, 628-638.	1.0	12
13	Hairpin RNA-induced conformational change of a eukaryotic-specific lysyl-tRNA synthetase extension and role of adjacent anticodon-binding domain. Journal of Biological Chemistry, 2020, 295, 12071-12085.	3.4	0
14	The staphylococcal biofilm protein Aap forms a tetrameric species as a necessary intermediate before amyloidogenesis. Journal of Biological Chemistry, 2020, 295, 12840-12850.	3.4	10
15	Events in Normal Skin Promote Early-Life Atopic Dermatitisâ€"The MPAACH Cohort. Journal of Allergy and Clinical Immunology: in Practice, 2020, 8, 2285-2293.e6.	3.8	20
16	Secret(ory) revealed: the long-awaited structures of secretory IgA. Cell Research, 2020, 30, 558-559.	12.0	6
17	The Mechanisms of Atopic Dermatitis to Asthma in Children (MPAACH) Cohort: Novel Atopic Dermatitis Endotypes. Journal of Allergy and Clinical Immunology, 2020, 145, AB337.	2.9	1
18	The biofilm adhesion protein Aap from Staphylococcus epidermidis forms zinc-dependent amyloid fibers. Journal of Biological Chemistry, 2020, 295, 4411-4427.	3.4	36

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19	Simultaneous skin biome and keratinocyte genomic capture reveals microbiome differences by depth of sampling. Journal of Allergy and Clinical Immunology, 2020, 146, 1442-1445.	2.9	13
20	Skin Staphylococcus aureus Colonization is Associated with Persistent Moderate-to-severe Atopic Dermatitis in Children. Journal of Allergy and Clinical Immunology, 2020, 145, AB195.	2.9	0
21	Gab3 is required for IL-2â€“ and IL-15â€“induced NK cell expansion and limits trophoblast invasion during pregnancy. Science Immunology, 2019, 4, .	11.9	38
22	Biofilm Propensity of Staphylococcus aureus Skin Isolates is Associated with Increased Severity and Barrier Dysfunction in the Mechanisms of the Progression of Atopic Dermatitis to Asthma in Children (MPAACH) Cohort. Journal of Allergy and Clinical Immunology, 2019, 143, AB64.	2.9	0
23	Feasibility of shotgun metagenomics to assess microbial ecology of pediatric tracheostomy tubes. Laryngoscope, 2019, 129, 317-323.	2.0	6
24	Clustering, Spatial Distribution, and Phosphorylation of Discoidin Domain Receptors 1 and 2 in Response to Soluble Collagen I. Journal of Molecular Biology, 2019, 431, 368-390.	4.2	30
25	Exploring the crystal structure and functional role of the lectin domain from the staphylococcal biofilm protein Aap. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, a431-a431.	0.1	0
26	Immobilized fibrinogen activates human platelets through glycoprotein VI. Haematologica, 2018, 103, 898-907.	3.5	101
27	An in vitro proof-of-principle study of sonobactericide. Scientific Reports, 2018, 8, 3411.	3.3	16
28	Evolution of an allosteric â€œoff switchâ€•in apoptotic caspases. Journal of Biological Chemistry, 2018, 293, 5462-5463.	3.4	16
29	FcÎ±RI binding at the IgA1 C _H 2â€“C _H 3 interface induces long-range conformational changes that are transmitted to the hinge region. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8882-E8891.	7.1	26
30	A thumbwheel mechanism for APOA1 activation of LCAT activity in HDL[S]. Journal of Lipid Research, 2018, 59, 1244-1255.	4.2	59
31	Hiding in plain sight: immune evasion by the staphylococcal protein SdrE. Biochemical Journal, 2017, 474, 1803-1806.	3.7	8
32	Functional consequences of B-repeat sequence variation in the staphylococcal biofilm protein Aap: deciphering the assembly code. Biochemical Journal, 2017, 474, 427-443.	3.7	14
33	Staphylococcal Biofilms in Atopic Dermatitis. Current Allergy and Asthma Reports, 2017, 17, 81.	5.3	46
34	Defining the metal specificity of a multifunctional biofilm adhesion protein. Protein Science, 2017, 26, 1964-1973.	7.6	10
35	Charming the Snake. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1266-1268.	2.4	4
36	The Proline/Glycine-Rich Region of the Biofilm Adhesion Protein Aap Forms an Extended Stalk that Resists Compaction. Journal of Molecular Biology, 2017, 429, 261-279.	4.2	26

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37	Fibrin and D-dimer bind to monomeric GPVI. Blood Advances, 2017, 1, 1495-1504.	5.2	72
38	Role of DDR2 ECD Oligomerization in Binding to Collagen. Microscopy and Microanalysis, 2016, 22, 1126-1127.	0.4	1
39	Structural basis for collagen recognition by the immune receptor OSCAR. Blood, 2016, 127, 529-537.	1.4	45
40	Immunoglobulin Glycosylation Effects in Allergy and Immunity. Current Allergy and Asthma Reports, 2016, 16, 79.	5.3	34
41	Structural basis for concerted recruitment and activation of IRF-3 by innate immune adaptor proteins. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3403-12.	7.1	120
42	Elucidating Complicated Assembling Systems in Biology Using Size-and-Shape Analysis of Sedimentation Velocity Data. Methods in Enzymology, 2015, 562, 187-204.	1.0	15
43	Activation of glycoprotein VI (GPVI) and C-type lectin-like receptor-2 (CLEC-2) underlies platelet activation by diesel exhaust particles and other charged/hydrophobic ligands. Biochemical Journal, 2015, 468, 459-473.	3.7	35
44	IgG1 protects against renal disease in a mouse model of cryoglobulinaemia. Nature, 2015, 517, 501-504.	27.8	64
45	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. PLoS ONE, 2015, 10, e0126420.	2.5	71
46	Structural Insights into the Functions of TBK1 in Innate Antimicrobial Immunity. Structure, 2013, 21, 1137-1148.	3.3	90
47	Cyclic GMP-AMP Synthase Is Activated by Double-Stranded DNA-Induced Oligomerization. Immunity, 2013, 39, 1019-1031.	14.3	456
48	Recombinant soluble CD137 prevents type one diabetes in nonobese diabetic mice. Journal of Autoimmunity, 2013, 47, 94-103.	6.5	29
49	Structural basis for Zn ²⁺ -dependent intercellular adhesion in staphylococcal biofilms. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E202-11.	7.1	96
50	Shiga Toxin Binding to Glycolipids and Glycans. PLoS ONE, 2012, 7, e30368.	2.5	81
51	The Pathophysiology of IgA Nephropathy. Journal of the American Society of Nephrology: JASN, 2011, 22, 1795-1803.	6.1	584
52	A human cancer-predisposing polymorphism in Cdc25A is embryonic lethal in the mouse and promotes ASK-1 mediated apoptosis. Cell Division, 2011, 6, 4.	2.4	9
53	Recognition of DNA by the Helix-Turn-Helix Global Regulatory Protein Lrp Is Modulated by the Amino Terminus. Journal of Bacteriology, 2011, 193, 3794-3803.	2.2	13
54	FERM Domain Phosphoinositide Binding Targets Merlin to the Membrane and Is Essential for Its Growth-Suppressive Function. Molecular and Cellular Biology, 2011, 31, 1983-1996.	2.3	47

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55	Thermodynamic Analysis of Metal Ion-Induced Protein Assembly. Methods in Enzymology, 2011, 488, 101-121.	1.0	8
56	The Structural Basis of 5â€² Triphosphate Double-Stranded RNA Recognition by RIG-I C-Terminal Domain. Structure, 2010, 18, 1032-1043.	3.3	197
57	Molecular and Functional Characterization of a Novel Cardiac-Specific Human Tropomyosin Isoform. Circulation, 2010, 121, 410-418.	1.6	89
58	Fluorescence Resonance Energy Transfer Analysis of Merlin Conformational Changes. Molecular and Cellular Biology, 2010, 30, 54-67.	2.3	35
59	Molecular Basis of Differential B-Pentamer Stability of Shiga Toxins 1 and 2. PLoS ONE, 2010, 5, e15153.	2.5	31
60	Recognition of Galactose-Deficient O-Glycans in the Hinge Region of IgA1 by N-Acetylgalactosamine-Specific Snail Lectins: A Comparative Binding Study. Biochemistry, 2010, 49, 5671-5682.	2.5	33
61	Identification and Characterization of the Carbohydrate Ligands Recognized by Pertussis Toxin via a Glycan Microarray and Surface Plasmon Resonance. Biochemistry, 2010, 49, 5954-5967.	2.5	31
62	Structural Insights into the Interactions between Platelet Receptors and Fibrillar Collagen. Journal of Biological Chemistry, 2009, 284, 19781-19785.	3.4	100
63	The RIG-I-like Receptor LGP2 Recognizes the Termini of Double-stranded RNA. Journal of Biological Chemistry, 2009, 284, 13881-13891.	3.4	128
64	Crystal Structure of E. coli RecE Protein Reveals a Toroidal Tetramer for Processing Double-Stranded DNA Breaks. Structure, 2009, 17, 690-702.	3.3	38
65	Direct evidence of a native GPVI dimer at the platelet surface. Journal of Thrombosis and Haemostasis, 2009, 7, 1344-1346.	3.8	10
66	Development of a high-throughput screening system for the compounds that inhibit collagenâ€“protein interactions. Analytical Biochemistry, 2009, 394, 125-131.	2.4	18
67	Convulxin Forms a Dimer in Solution and Can Bind Eight Copies of Glycoprotein VI: Implications for Platelet Activation. Biochemistry, 2009, 48, 2907-2914.	2.5	22
68	Pseudomonas aeruginosa hypoxic or anaerobic biofilm infections within cystic fibrosis airways. Trends in Microbiology, 2009, 17, 130-138.	7.7	160
69	Functional assessment of perforin C2 domain mutations illustrates the critical role for calcium-dependent lipid binding in perforin cytotoxic function. Blood, 2009, 113, 338-346.	1.4	24
70	Crystal structure of E. coli RecE exonuclease reveals a toroidal tetramer and a conserved architecture for processive DNA digestion.. FASEB Journal, 2009, 23, 655.5.	0.5	0
71	Structural basis of nucleotide exchange and client binding by the Hsp70 cochaperone Bag2. Nature Structural and Molecular Biology, 2008, 15, 1309-1317.	8.2	85
72	Characterization and Importance of the Dimer Interface of Human Calcium-Activated Nucleotidase. Biochemistry, 2008, 47, 771-778.	2.5	2

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73	Analysis of IgA1 N-Glycosylation and Its Contribution to FcÎ±RI Binding. Biochemistry, 2008, 47, 11285-11299.	2.5	66
74	A zinc-dependent adhesion module is responsible for intercellular adhesion in staphylococcal biofilms. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19456-19461.	7.1	194
75	Self-Assembling Peptide-Polymer Hydrogels Designed From the Coiled Coil Region of Fibrin. Biomacromolecules, 2008, 9, 2438-2446.	5.4	104
76	Structural Basis for the Platelet-Collagen Interaction. Journal of Biological Chemistry, 2007, 282, 1296-1304.	3.4	113
77	Two-pronged survival strategy for the major cystic fibrosis pathogen, Pseudomonas aeruginosa, lacking the capacity to degrade nitric oxide during anaerobic respiration. EMBO Journal, 2007, 26, 3662-3672.	7.8	63
78	Studies of the Affinity and Stoichiometry of Convulxin Binding to Glycoprotein VI: Clues into Its Potent Agonism.. Blood, 2007, 110, 3657-3657.	1.4	0
79	Structural basis for platelet collagen responses by the immune-type receptor glycoprotein VI. Blood, 2006, 108, 936-942.	1.4	134
80	IgA and IgA-specific receptors in human disease: structural and functional insights into pathogenesis and therapeutic potential. Seminars in Immunopathology, 2006, 28, 383-395.	4.0	16
81	Calcium-dependent Dimerization of Human Soluble Calcium Activated Nucleotidase. Journal of Biological Chemistry, 2006, 281, 28307-28317.	3.4	9
82	Selective Blockade of Glycoprotein VI Clustering on Collagen Helices. Journal of Biological Chemistry, 2006, 281, 33505-33510.	3.4	26
83	Structural Insights into Antibody-Mediated Mucosal Immunity. , 2006, 308, 173-204.		18
84	The Chicken Yolk Sac IgY Receptor, a Functional Equivalent of the Mammalian MHC-Related Fc Receptor, Is a Phospholipase A2 Receptor Homolog. Immunity, 2004, 20, 601-610.	14.3	126
85	Insights into IgA-mediated immune responses from the crystal structures of human FcÎ±RI and its complex with IgA1-Fc. Nature, 2003, 423, 614-620.	27.8	260
86	Bivalent Binding of IgA1 to FcÎ±RI Suggests a Mechanism for Cytokine Activation of IgA Phagocytosis. Journal of Molecular Biology, 2003, 327, 645-657.	4.2	113
87	A linear lattice model for polyglutamine in CAG-expansion diseases. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11634-11639.	7.1	129
88	Mutational analysis of the transferrin receptor reveals overlapping HFE and transferrin binding sites. Journal of Molecular Biology, 2001, 313, 385-397.	4.2	116
89	Loss of fibroblast growth factor receptor 2 ligand-binding specificity in Apert syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 14536-14541.	7.1	244
90	Crystal Structure of the Hexameric Traffic ATPase of the Helicobacter pylori Type IV Secretion System. Molecular Cell, 2000, 6, 1461-1472.	9.7	214

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91	New insights into heparin-induced FGF oligomerization. Nature Structural Biology, 1998, 5, 527-530.	9.7	50
92	Heparin-induced Self-association of Fibroblast Growth Factor-2. Journal of Biological Chemistry, 1997, 272, 16382-16389.	3.4	97
93	Preferential self-association of basic fibroblast growth factor is stabilized by heparin during receptor dimerization and activation.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 845-850.	7.1	113
94	FGF binding and FGF receptor activation by synthetic heparan-derived di- and trisaccharides. Science, 1995, 268, 432-436.	12.6	285