

Andrew B Herr

List of Publications by Year in descending order

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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	The Pathophysiology of IgA Nephropathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2011, 22, 1795-1803.	6.1	584
2	Cyclic GMP-AMP Synthase Is Activated by Double-Stranded DNA-Induced Oligomerization. <i>Immunity</i> , 2013, 39, 1019-1031.	14.3	456
3	FGF binding and FGF receptor activation by synthetic heparan-derived di- and trisaccharides. <i>Science</i> , 1995, 268, 432-436.	12.6	285
4	Insights into IgA-mediated immune responses from the crystal structures of human FcÎ±RI and its complex with IgA1-Fc. <i>Nature</i> , 2003, 423, 614-620.	27.8	260
5	Loss of fibroblast growth factor receptor 2 ligand-binding specificity in Apert syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 14536-14541.	7.1	244
6	Crystal Structure of the Hexameric Traffic ATPase of the Helicobacter pylori Type IV Secretion System. <i>Molecular Cell</i> , 2000, 6, 1461-1472.	9.7	214
7	The Structural Basis of 5â€² Triphosphate Double-Stranded RNA Recognition by RIG-I C-Terminal Domain. <i>Structure</i> , 2010, 18, 1032-1043.	3.3	197
8	A zinc-dependent adhesion module is responsible for intercellular adhesion in staphylococcal biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19456-19461.	7.1	194
9	<i>Pseudomonas aeruginosa</i> hypoxic or anaerobic biofilm infections within cystic fibrosis airways. <i>Trends in Microbiology</i> , 2009, 17, 130-138.	7.7	160
10	Structural basis for platelet collagen responses by the immune-type receptor glycoprotein VI. <i>Blood</i> , 2006, 108, 936-942.	1.4	134
11	A linear lattice model for polyglutamine in CAG-expansion diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11634-11639.	7.1	129
12	The RIG-I-like Receptor LGP2 Recognizes the Termini of Double-stranded RNA. <i>Journal of Biological Chemistry</i> , 2009, 284, 13881-13891.	3.4	128
13	The Chicken Yolk Sac IgY Receptor, a Functional Equivalent of the Mammalian MHC-Related Fc Receptor, Is a Phospholipase A2 Receptor Homolog. <i>Immunity</i> , 2004, 20, 601-610.	14.3	126
14	Structural basis for concerted recruitment and activation of IRF-3 by innate immune adaptor proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3403-12.	7.1	120
15	Mutational analysis of the transferrin receptor reveals overlapping HFE and transferrin binding sites. <i>Journal of Molecular Biology</i> , 2001, 313, 385-397.	4.2	116
16	Preferential self-association of basic fibroblast growth factor is stabilized by heparin during receptor dimerization and activation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 845-850.	7.1	113
17	Bivalent Binding of IgA1 to FcÎ±RI Suggests a Mechanism for Cytokine Activation of IgA Phagocytosis. <i>Journal of Molecular Biology</i> , 2003, 327, 645-657.	4.2	113
18	Structural Basis for the Platelet-Collagen Interaction. <i>Journal of Biological Chemistry</i> , 2007, 282, 1296-1304.	3.4	113

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19	Self-Assembling Peptide-Polymer Hydrogels Designed From the Coiled Coil Region of Fibrin. <i>Biomacromolecules</i> , 2008, 9, 2438-2446.	5.4	104
20	Immobilized fibrinogen activates human platelets through glycoprotein VI. <i>Haematologica</i> , 2018, 103, 898-907.	3.5	101
21	Structural Insights into the Interactions between Platelet Receptors and Fibrillar Collagen. <i>Journal of Biological Chemistry</i> , 2009, 284, 19781-19785.	3.4	100
22	Heparin-induced Self-association of Fibroblast Growth Factor-2. <i>Journal of Biological Chemistry</i> , 1997, 272, 16382-16389.	3.4	97
23	Structural basis for Zn ²⁺ -dependent intercellular adhesion in staphylococcal biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E202-11.	7.1	96
24	Structural Insights into the Functions of TBK1 in Innate Antimicrobial Immunity. <i>Structure</i> , 2013, 21, 1137-1148.	3.3	90
25	Molecular and Functional Characterization of a Novel Cardiac-Specific Human Tropomyosin Isoform. <i>Circulation</i> , 2010, 121, 410-418.	1.6	89
26	Structural basis of nucleotide exchange and client binding by the Hsp70 cochaperone Bag2. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 1309-1317.	8.2	85
27	Shiga Toxin Binding to Glycolipids and Glycans. <i>PLoS ONE</i> , 2012, 7, e30368.	2.5	81
28	Fibrin and D-dimer bind to monomeric GPVI. <i>Blood Advances</i> , 2017, 1, 1495-1504.	5.2	72
29	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. <i>PLoS ONE</i> , 2015, 10, e0126420.	2.5	71
30	Analysis of IgA1 N-Glycosylation and Its Contribution to FcγRI Binding. <i>Biochemistry</i> , 2008, 47, 11285-11299.	2.5	66
31	IgG1 protects against renal disease in a mouse model of cryoglobulinaemia. <i>Nature</i> , 2015, 517, 501-504.	27.8	64
32	Two-pronged survival strategy for the major cystic fibrosis pathogen, <i>Pseudomonas aeruginosa</i> , lacking the capacity to degrade nitric oxide during anaerobic respiration. <i>EMBO Journal</i> , 2007, 26, 3662-3672.	7.8	63
33	A thumbwheel mechanism for APOA1 activation of LCAT activity in HDL[S]. <i>Journal of Lipid Research</i> , 2018, 59, 1244-1255.	4.2	59
34	New insights into heparin-induced FGF oligomerization. <i>Nature Structural Biology</i> , 1998, 5, 527-530.	9.7	50
35	FERM Domain Phosphoinositide Binding Targets Merlin to the Membrane and Is Essential for Its Growth-Suppressive Function. <i>Molecular and Cellular Biology</i> , 2011, 31, 1983-1996.	2.3	47
36	Staphylococcal Biofilms in Atopic Dermatitis. <i>Current Allergy and Asthma Reports</i> , 2017, 17, 81.	5.3	46

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37	Structural basis for collagen recognition by the immune receptor OSCAR. <i>Blood</i> , 2016, 127, 529-537.	1.4	45
38	Crystal Structure of E. coli RecE Protein Reveals a Toroidal Tetramer for Processing Double-Stranded DNA Breaks. <i>Structure</i> , 2009, 17, 690-702.	3.3	38
39	Gab3 is required for IL-2 and IL-15-induced NK cell expansion and limits trophoblast invasion during pregnancy. <i>Science Immunology</i> , 2019, 4, .	11.9	38
40	The biofilm adhesion protein Aap from <i>Staphylococcus epidermidis</i> forms zinc-dependent amyloid fibers. <i>Journal of Biological Chemistry</i> , 2020, 295, 4411-4427.	3.4	36
41	Fluorescence Resonance Energy Transfer Analysis of Merlin Conformational Changes. <i>Molecular and Cellular Biology</i> , 2010, 30, 54-67.	2.3	35
42	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. <i>Biochemical Journal</i> , 2015, 468, 459-473.	3.7	35
43	Immunoglobulin Glycosylation Effects in Allergy and Immunity. <i>Current Allergy and Asthma Reports</i> , 2016, 16, 79.	5.3	34
44	Recognition of Galactose-Deficient <i>N</i> -Glycans in the Hinge Region of IgA1 by <i>N</i> -Acetylgalactosamine-Specific Snail Lectins: A Comparative Binding Study. <i>Biochemistry</i> , 2010, 49, 5671-5682.	2.5	33
45	Biofilm propensity of <i>Staphylococcus aureus</i> skin isolates is associated with increased atopic dermatitis severity and barrier dysfunction in the MPAACH pediatric cohort. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 302-313.	5.7	33
46	Molecular Basis of Differential B-Pentamer Stability of Shiga Toxins 1 and 2. <i>PLoS ONE</i> , 2010, 5, e15153.	2.5	31
47	Identification and Characterization of the Carbohydrate Ligands Recognized by Pertussis Toxin via a Glycan Microarray and Surface Plasmon Resonance. <i>Biochemistry</i> , 2010, 49, 5954-5967.	2.5	31
48	Clustering, Spatial Distribution, and Phosphorylation of Discoidin Domain Receptors 1 and 2 in Response to Soluble Collagen I. <i>Journal of Molecular Biology</i> , 2019, 431, 368-390.	4.2	30
49	Recombinant soluble CD137 prevents type one diabetes in nonobese diabetic mice. <i>Journal of Autoimmunity</i> , 2013, 47, 94-103.	6.5	29
50	Selective Blockade of Glycoprotein VI Clustering on Collagen Helices. <i>Journal of Biological Chemistry</i> , 2006, 281, 33505-33510.	3.4	26
51	The Proline/Glycine-Rich Region of the Biofilm Adhesion Protein Aap Forms an Extended Stalk that Resists Compaction. <i>Journal of Molecular Biology</i> , 2017, 429, 261-279.	4.2	26
52	FcRI binding at the IgA1 C _H 2 interface induces long-range conformational changes that are transmitted to the hinge region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8882-E8891.	7.1	26
53	Functional assessment of perforin C2 domain mutations illustrates the critical role for calcium-dependent lipid binding in perforin cytotoxic function. <i>Blood</i> , 2009, 113, 338-346.	1.4	24
54	Structural characterization of a novel GPVI-nanobody complex reveals a biologically active domain-swapped GPVI dimer. <i>Blood</i> , 2021, 137, 3443-3453.	1.4	23

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55	Convulxin Forms a Dimer in Solution and Can Bind Eight Copies of Glycoprotein VI: Implications for Platelet Activation. <i>Biochemistry</i> , 2009, 48, 2907-2914.	2.5	22
56	Pregnancy enables antibody protection against intracellular infection. <i>Nature</i> , 2022, 606, 769-775.	27.8	22
57	Events in Normal Skin Promote Early-Life Atopic Dermatitisâ€”The MPAACH Cohort. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2020, 8, 2285-2293.e6.	3.8	20
58	Development of a high-throughput screening system for the compounds that inhibit collagenâ€™protein interactions. <i>Analytical Biochemistry</i> , 2009, 394, 125-131.	2.4	18
59	Modification of cell wall polysaccharide guides cell division in <i>Streptococcus mutans</i> . <i>Nature Chemical Biology</i> , 2021, 17, 878-887.	8.0	18
60	Structural Insights into Antibody-Mediated Mucosal Immunity. , 2006, 308, 173-204.		18
61	IgA and IgA-specific receptors in human disease: structural and functional insights into pathogenesis and therapeutic potential. <i>Seminars in Immunopathology</i> , 2006, 28, 383-395.	4.0	16
62	An in vitro proof-of-principle study of sonobactericide. <i>Scientific Reports</i> , 2018, 8, 3411.	3.3	16
63	Evolution of an allosteric â€œoff switchâ€”in apoptotic caspases. <i>Journal of Biological Chemistry</i> , 2018, 293, 5462-5463.	3.4	16
64	Elucidating Complicated Assembling Systems in Biology Using Size-and-Shape Analysis of Sedimentation Velocity Data. <i>Methods in Enzymology</i> , 2015, 562, 187-204.	1.0	15
65	Functional consequences of B-repeat sequence variation in the staphylococcal biofilm protein Aap: deciphering the assembly code. <i>Biochemical Journal</i> , 2017, 474, 427-443.	3.7	14
66	Rapid desensitization of humanized mice with anti-human FcÎ¼R1Î± monoclonal antibodies. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, 907-921.e3.	2.9	14
67	Recognition of DNA by the Helix-Turn-Helix Global Regulatory Protein Lrp Is Modulated by the Amino Terminus. <i>Journal of Bacteriology</i> , 2011, 193, 3794-3803.	2.2	13
68	Simultaneous skin biome and keratinocyte genomic capture reveals microbiome differences by depth of sampling. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 1442-1445.	2.9	13
69	On the surface. <i>Annals of Allergy, Asthma and Immunology</i> , 2020, 125, 628-638.	1.0	12
70	Direct evidence of a native GPVI dimer at the platelet surface. <i>Journal of Thrombosis and Haemostasis</i> , 2009, 7, 1344-1346.	3.8	10
71	Defining the metal specificity of a multifunctional biofilm adhesion protein. <i>Protein Science</i> , 2017, 26, 1964-1973.	7.6	10
72	The staphylococcal biofilm protein Aap forms a tetrameric species as a necessary intermediate before amyloidogenesis. <i>Journal of Biological Chemistry</i> , 2020, 295, 12840-12850.	3.4	10

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73	Calcium-dependent Dimerization of Human Soluble Calcium Activated Nucleotidase. <i>Journal of Biological Chemistry</i> , 2006, 281, 28307-28317.	3.4	9
74	A human cancer-predisposing polymorphism in Cdc25A is embryonic lethal in the mouse and promotes ASK-1 mediated apoptosis. <i>Cell Division</i> , 2011, 6, 4.	2.4	9
75	Thermodynamic Analysis of Metal Ion-Induced Protein Assembly. <i>Methods in Enzymology</i> , 2011, 488, 101-121.	1.0	8
76	Hiding in plain sight: immune evasion by the staphylococcal protein SdrE. <i>Biochemical Journal</i> , 2017, 474, 1803-1806.	3.7	8
77	Suppression of IgE-mediated anaphylaxis and food allergy with monovalent anti-Fc μ R1 \pm mAbs. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 1838-1854.e4.	2.9	7
78	Feasibility of shotgun metagenomics to assess microbial ecology of pediatric tracheostomy tubes. <i>Laryngoscope</i> , 2019, 129, 317-323.	2.0	6
79	Secret(ory) revealed: the long-awaited structures of secretory IgA. <i>Cell Research</i> , 2020, 30, 558-559.	12.0	6
80	Solution Structural Studies of Pre-amyloid Oligomer States of the Biofilm Protein Aap. <i>Journal of Molecular Biology</i> , 2022, 434, 167708.	4.2	6
81	Charming the Snake. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1266-1268.	2.4	4
82	Seroprevalence of SARS-CoV-2 infection in Cincinnati Ohio USA from August to December 2020. <i>PLoS ONE</i> , 2021, 16, e0254667.	2.5	4
83	Endosomal Sequestration of TLR4 Antibody Induces Myeloid-Derived Suppressor Cells and Reverses Acute Type 1 Diabetes. <i>Diabetes</i> , 2022, 71, 470-482.	0.6	4
84	The molecular characterization of antibody binding to a superantigen-like protein from a commensal microbe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	3
85	Characterization and Importance of the Dimer Interface of Human Calcium-Activated Nucleotidase. <i>Biochemistry</i> , 2008, 47, 771-778.	2.5	2
86	Role of DDR2 ECD Oligomerization in Binding to Collagen. <i>Microscopy and Microanalysis</i> , 2016, 22, 1126-1127.	0.4	1
87	The Mechanisms of Atopic Dermatitis to Asthma in Children (MPAACH) Cohort: Novel Atopic Dermatitis Endotypes. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, AB337.	2.9	1
88	Binding Proteins Antibodies: Structure and Immune Effector Functions. , 2021, , 547-558.		1
89	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. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, AB64.	2.9	0
90	Hairpin RNA-induced conformational change of a eukaryotic-specific lysyl-tRNA synthetase extension and role of adjacent anticodon-binding domain. <i>Journal of Biological Chemistry</i> , 2020, 295, 12071-12085.	3.4	0

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91	Skin Staphylococcus aureus Colonization is Associated with Persistent Moderate-to-severe Atopic Dermatitis in Children. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, AB195.	2.9	0
92	Studies of the Affinity and Stoichiometry of Convulxin Binding to Glycoprotein VI: Clues into Its Potent Agonism.. <i>Blood</i> , 2007, 110, 3657-3657.	1.4	0
93	Crystal structure of E. coli RecE exonuclease reveals a toroidal tetramer and a conserved architecture for processive DNA digestion.. <i>FASEB Journal</i> , 2009, 23, 655.5.	0.5	0
94	Exploring the crystal structure and functional role of the lectin domain from the staphylococcal biofilm protein Aap. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, a431-a431.	0.1	0