

Jordan D Dimitrov

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

2,209
citations

25
h-index

42
g-index

115
ext. papers

2,785
ext. citations

8.1
avg, IF

4.81
L-index

#	Paper	IF	Citations
102	Complement activation by heme as a secondary hit for atypical hemolytic uremic syndrome. <i>Blood</i> , 2013 , 122, 282-92	2.2	155
101	Hyperfunctional C3 convertase leads to complement deposition on endothelial cells and contributes to atypical hemolytic uremic syndrome. <i>Blood</i> , 2009 , 114, 2837-45	2.2	119
100	Molecular basis for bacterial peptidoglycan recognition by LysM domains. <i>Nature Communications</i> , 2014 , 5, 4269	17.4	108
99	Intravascular hemolysis activates complement via cell-free heme and heme-loaded microvesicles. <i>JCI Insight</i> , 2018 , 3,	9.9	87
98	Heme: Modulator of Plasma Systems in Hemolytic Diseases. <i>Trends in Molecular Medicine</i> , 2016 , 22, 200-213		81
97	Antibody polyreactivity in health and disease: statu variabilis. <i>Journal of Immunology</i> , 2013 , 191, 993-9	5.3	74
96	Antibodies use heme as a cofactor to extend their pathogen elimination activity and to acquire new effector functions. <i>Journal of Biological Chemistry</i> , 2007 , 282, 26696-26706	5.4	62
95	Ferrous ions and reactive oxygen species increase antigen-binding and anti-inflammatory activities of immunoglobulin G. <i>Journal of Biological Chemistry</i> , 2006 , 281, 439-46	5.4	56
94	Intravenous immunoglobulin induces proliferation and immunoglobulin synthesis from B cells of patients with common variable immunodeficiency: a mechanism underlying the beneficial effect of IVIg in primary immunodeficiencies. <i>Journal of Autoimmunity</i> , 2011 , 36, 9-15	15.5	55
93	The interaction between factor H and VWF increases factor H cofactor activity and regulates VWF prothrombotic status. <i>Blood</i> , 2014 , 123, 121-5	2.2	54
92	P-selectin drives complement attack on endothelium during intravascular hemolysis in TLR-4/heme-dependent manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6280-6285	11.5	51
91	TCR stimulation drives cleavage and shedding of the ITIM receptor CD31. <i>Journal of Immunology</i> , 2010 , 184, 5485-92	5.3	49
90	Inflammation-induced enhancement of IgG immunoreactivity. <i>Inflammation Research</i> , 2008 , 57, 1-3	7.2	43
89	Heme interacts with c1q and inhibits the classical complement pathway. <i>Journal of Biological Chemistry</i> , 2011 , 286, 16459-69	5.4	42
88	Factor VIII hydrolysis mediated by anti-factor VIII autoantibodies in acquired hemophilia. <i>Journal of Immunology</i> , 2008 , 180, 7714-20	5.3	40
87	Exposure of IgG to an acidic environment results in molecular modifications and in enhanced protective activity in sepsis. <i>FEBS Journal</i> , 2010 , 277, 3039-50	5.7	39
86	Breaking the law: unconventional strategies for antibody diversification. <i>Nature Reviews Immunology</i> , 2019 , 19, 355-368	36.5	39

85	Important parameters for evaluation of antibody avidity by immunosorbent assay. <i>Analytical Biochemistry</i> , 2011 , 418, 149-51	3.1	34
84	Regulation of immune responses to protein therapeutics by transplacental induction of T cell tolerance. <i>Science Translational Medicine</i> , 2015 , 7, 275ra21	17.5	33
83	Proteolytic antibodies activate factor IX in patients with acquired hemophilia. <i>Blood</i> , 2011 , 117, 2257-64	2.2	33
82	Natural Antibodies: From First-Line Defense Against Pathogens to Perpetual Immune Homeostasis. <i>Clinical Reviews in Allergy and Immunology</i> , 2020 , 58, 213-228	12.3	32
81	Functional Characterization of Autoantibodies against Complement Component C3 in Patients with Lupus Nephritis. <i>Journal of Biological Chemistry</i> , 2015 , 290, 25343-55	5.4	31
80	Transition towards antigen-binding promiscuity of a monospecific antibody. <i>Molecular Immunology</i> , 2007 , 44, 1854-63	4.3	30
79	Impact of Antigen Density on the Binding Mechanism of IgG Antibodies. <i>Scientific Reports</i> , 2017 , 7, 3767	4.9	28
78	Identification of target antigens of self-reactive IgG in intravenous immunoglobulin preparations. <i>Proteomics</i> , 2009 , 9, 2253-62	4.8	26
77	Antibody polyspecificity: what does it matter?. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 750, 213-26	3.6	25
76	Induction of heme oxygenase-1 in factor VIII-deficient mice reduces the immune response to therapeutic factor VIII. <i>Blood</i> , 2010 , 115, 2682-5	2.2	25
75	Iron ions and haeme modulate the binding properties of complement subcomponent C1q and of immunoglobulins. <i>Scandinavian Journal of Immunology</i> , 2007 , 65, 230-9	3.4	25
74	Conformational Plasticity in Broadly Neutralizing HIV-1 Antibodies Triggers Polyreactivity. <i>Cell Reports</i> , 2018 , 23, 2568-2581	10.6	25
73	Characterization of Renal Injury and Inflammation in an Experimental Model of Intravascular Hemolysis. <i>Frontiers in Immunology</i> , 2018 , 9, 179	8.4	24
72	Heterogeneous antigen recognition behavior of induced polyspecific antibodies. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 398, 266-71	3.4	24
71	Metrics: journal's impact factor skewed by a single paper. <i>Nature</i> , 2010 , 466, 179	50.4	23
70	Heme Drives Susceptibility of Glomerular Endothelium to Complement Overactivation Due to Inefficient Upregulation of Heme Oxygenase-1. <i>Frontiers in Immunology</i> , 2018 , 9, 3008	8.4	23
69	Intravenous immunoglobulin induces IL-4 in human basophils by signaling through surface-bound IgE. <i>Journal of Allergy and Clinical Immunology</i> , 2019 , 144, 524-535.e8	11.5	22
68	Prevalence and gene characteristics of antibodies with cofactor-induced HIV-1 specificity. <i>Journal of Biological Chemistry</i> , 2015 , 290, 5203-5213	5.4	22

67	Development of inhibitory antibodies to therapeutic factor VIII in severe hemophilia A is associated with microsatellite polymorphisms in the HMOX1 promoter. <i>Haematologica</i> , 2013 , 98, 1650-5	6.6	22
66	Hydrolysis of coagulation factors by circulating IgG is associated with a reduced risk for chronic allograft nephropathy in renal transplanted patients. <i>Journal of Immunology</i> , 2008 , 180, 8455-60	5.3	21
65	Potent human broadly neutralizing antibodies to hepatitis B virus from natural controllers. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	20
64	Heme induces human and mouse platelet activation through C-type-lectin-like receptor-2. <i>Haematologica</i> , 2021 , 106, 626-629	6.6	20
63	Materno-Fetal Transfer of Preproinsulin Through the Neonatal Fc Receptor Prevents Autoimmune Diabetes. <i>Diabetes</i> , 2015 , 64, 3532-42	0.9	19
62	Longitudinal and integrative biomodeling of effector and memory immune compartments after inactivated influenza vaccination. <i>Journal of Immunology</i> , 2013 , 191, 623-31	5.3	19
61	Intravenous immunoglobulins exposed to heme (heme IVIG) are more efficient than IVIG in attenuating autoimmune diabetes. <i>Clinical Immunology</i> , 2011 , 138, 162-71	9	19
60	Factor VIII-hydrolyzing IgG in acquired and congenital hemophilia. <i>FEBS Letters</i> , 2009 , 583, 2565-72	3.8	18
59	Antibody-mediated catalysis: induction and therapeutic relevance. <i>Autoimmunity Reviews</i> , 2013 , 12, 648-526	17	17
58	Thermodynamic analysis of the interaction of factor VIII with von Willebrand factor. <i>Biochemistry</i> , 2012 , 51, 4108-16	3.2	17
57	A cellular viewpoint of anti-FVIII immune response in hemophilia A. <i>Clinical Reviews in Allergy and Immunology</i> , 2009 , 37, 105-13	12.3	17
56	Functional variability of antibodies upon oxidative processes. <i>Autoimmunity Reviews</i> , 2008 , 7, 574-8	13.6	17
55	Intravenous Immunoglobulin with Enhanced Polyspecificity Improves Survival in Experimental Sepsis and Aseptic Systemic Inflammatory Response Syndromes. <i>Molecular Medicine</i> , 2016 , 21, 1002-1010	6.2	16
54	Heme oxygenase-1 is dispensable for the anti-inflammatory activity of intravenous immunoglobulin. <i>Scientific Reports</i> , 2016 , 6, 19592	4.9	15
53	Sequence features of variable region determining physicochemical properties and polyreactivity of therapeutic antibodies. <i>Molecular Immunology</i> , 2019 , 112, 338-346	4.3	15
52	Heme binds to factor VIII and inhibits its interaction with activated factor IX. <i>Journal of Thrombosis and Haemostasis</i> , 2012 , 10, 1062-71	15.4	15
51	A cryptic polyreactive antibody recognizes distinct clades of HIV-1 glycoprotein 120 by an identical binding mechanism. <i>Journal of Biological Chemistry</i> , 2014 , 289, 17767-79	5.4	14
50	Neutralization of Japanese Encephalitis Virus by heme-induced broadly reactive human monoclonal antibody. <i>Scientific Reports</i> , 2015 , 5, 16248	4.9	14

49	Auditing protein therapeutics management by professional APCs: toward prevention of immune responses against therapeutic proteins. <i>Journal of Immunology</i> , 2008 , 181, 1609-15	5.3	14
48	"Rational vaccine design" for HIV should take into account the adaptive potential of polyreactive antibodies. <i>PLoS Pathogens</i> , 2011 , 7, e1002095	7.6	12
47	Mechanism and functional implications of the heme-induced binding promiscuity of IgE. <i>Biochemistry</i> , 2015 , 54, 2061-72	3.2	11
46	Thermodynamic stability contributes to immunoglobulin specificity. <i>Trends in Biochemical Sciences</i> , 2014 , 39, 221-6	10.3	11
45	Cofactor-mediated protein promiscuity. <i>Nature Biotechnology</i> , 2009 , 27, 892	44.5	11
44	A human FVIII inhibitor modulates FVIII surface electrostatics at a VWF-binding site distant from its epitope. <i>Journal of Thrombosis and Haemostasis</i> , 2010 , 8, 1524-31	15.4	11
43	Insight into the mechanism of the acquired antibody auto-reactivity. <i>Autoimmunity Reviews</i> , 2008 , 7, 410-4	13.6	11
42	Bortezomib delays the onset of factor VIII inhibitors in experimental hemophilia A, but fails to eliminate established anti-factor VIII IgG-producing cells. <i>Journal of Thrombosis and Haemostasis</i> , 2011 , 9, 719-28	15.4	10
41	Protein destabilizing agents induce polyreactivity and enhanced immunomodulatory activity in IVIg preparations. <i>Autoimmunity</i> , 2009 , 42, 365-7	3	10
40	HIV-1 Envelope Recognition by Polyreactive and Cross-Reactive Intestinal B Cells. <i>Cell Reports</i> , 2019 , 27, 572-585.e7	10.6	9
39	Cryptic polyreactivity of IgG expressed by splenic marginal zone B-cell lymphoma. <i>Molecular Immunology</i> , 2014 , 60, 54-61	4.3	9
38	Predictive immunogenicity of Refacto AF. <i>Haemophilia</i> , 2014 , 20, 486-92	3.3	9
37	Anti-inflammatory activity of intravenous immunoglobulin through scavenging of heme. <i>Molecular Immunology</i> , 2019 , 111, 205-208	4.3	8
36	Noncanonical Functions of Antibodies. <i>Trends in Immunology</i> , 2020 , 41, 379-393	14.4	8
35	Potential Predictive Role of Lipid Peroxidation Markers for Type 2 Diabetes in the Adult Tunisian Population. <i>Canadian Journal of Diabetes</i> , 2018 , 42, 263-271	2.1	8
34	Methods for Posttranslational Induction of Polyreactivity of Antibodies. <i>Methods in Molecular Biology</i> , 2017 , 1643, 135-145	1.4	8
33	Use of cysteine as a spectroscopic probe for determination of heme-scavenging capacity of serum proteins and whole human serum. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 172, 311-319	3.5	6
32	Sialylated therapeutic IgG: a sweet remedy for inflammatory diseases?. <i>Nephrology Dialysis Transplantation</i> , 2007 , 22, 1301-4	4.3	6

31	Optimization of casein-based semisynthetic medium for growing of toxigenic <i>Corinebacterium diphtheriae</i> in a fermenter. <i>Canadian Journal of Microbiology</i> , 2004 , 50, 821-6	3.2	6
30	Relevance of the Materno-Fetal Interface for the Induction of Antigen-Specific Immune Tolerance. <i>Frontiers in Immunology</i> , 2020 , 11, 810	8.4	5
29	Kinetics and thermodynamics of interaction of coagulation factor VIII with a pathogenic human antibody. <i>Molecular Immunology</i> , 2009 , 47, 290-7	4.3	5
28	The receptor for advanced glycation end products is a sensor for cell-free heme. <i>FEBS Journal</i> , 2021 , 288, 3448-3464	5.7	5
27	Harnessing the Therapeutic Potential of Rogue Antibodies. <i>Trends in Pharmacological Sciences</i> , 2020 , 41, 409-417	13.2	4
26	Natural and Induced Antibody Polyreactivity. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2015 , 15, 1230-41.2	4.2	4
25	Anti-IgE IgG autoantibodies isolated from therapeutic normal IgG intravenous immunoglobulin induce basophil activation. <i>Cellular and Molecular Immunology</i> , 2020 , 17, 426-429	15.4	4
24	Interaction of clinical-stage antibodies with heme predicts their physicochemical and binding qualities. <i>Communications Biology</i> , 2021 , 4, 391	6.7	4
23	Heme-Exposed Pooled Therapeutic IgG Improves Endotoxemia Survival. <i>Inflammation</i> , 2017 , 40, 117-122.1	5.1	3
22	Oxidation of factor VIII increases its immunogenicity in mice with severe hemophilia A. <i>Cellular Immunology</i> , 2018 , 325, 64-68	4.4	3
21	Relationship between natural and heme-mediated antibody polyreactivity. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 472, 281-6	3.4	3
20	Inhibitors of factor VIII in hemophilia. <i>New England Journal of Medicine</i> , 2009 , 361, 308; author reply 310	59.2	3
19	V Region of IgG Controls the Molecular Properties of the Binding Site for Neonatal Fc Receptor. <i>Journal of Immunology</i> , 2020 , 205, 2850-2860	5.3	3
18	Method for identification of heme-binding proteins and quantification of their interactions. <i>Analytical Biochemistry</i> , 2020 , 607, 113865	3.1	3
17	Gain of function of immunoglobulins after partial unfolding or cofactor binding. <i>Molecular Immunology</i> , 2013 , 55, 195-6	4.3	2
16	Serum or breast milk immunoglobulins mask the self-reactivity of human natural IgG antibodies. <i>Apmis</i> , 2014 , 122, 329-40	3.4	2
15	Comment on Enhancement of the catalytic activity of a 27 kDa subtilisin-like enzyme from <i>Bacillus amyloliquefaciens</i> CH51 by in vitro mutagenesis. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 4170-2	5.7	2
14	Thermodynamic analysis of hepatitis C virus vitality in syringes. <i>Journal of Infectious Diseases</i> , 2011 , 203, 1696-7	7	2

13	Molecular composition of diphtheria toxoid produced using semi-synthetic and meat extract-based broths. <i>World Journal of Microbiology and Biotechnology</i> , 2004 , 20, 211-217	4.4	2
12	Stimulation with FITC-labeled antigens confers B cells with regulatory properties. <i>Cellular Immunology</i> , 2020 , 355, 104151	4.4	1
11	Enhanced Pro-apoptotic Effects of Fe(II)-Modified IVIG on Human Neutrophils. <i>Frontiers in Immunology</i> , 2020 , 11, 973	8.4	1
10	Implementation and evaluation of classroom simulation for trainee teacher using second life environments 2013 ,		1
9	Anaerobic Bacteriology in 75 Cases of Thoracic Empyema in Sofia, Bulgaria. <i>Anaerobe</i> , 2000 , 6, 81-85	2.8	1
8	Interaction with 2,4-dinitrophenol correlates with polyreactivity, self-binding, and stability of clinical-stage therapeutic antibodies. <i>Molecular Immunology</i> , 2021 , 140, 233-239	4.3	1
7	Aromatic Guanylylhydrazones for the Control of Heme-Induced Antibody Polyreactivity. <i>ACS Omega</i> , 2019 , 4, 20450-20458	3.9	1
6	Induced antigen-binding polyreactivity in human serum IgA.. <i>Immunobiology</i> , 2022 , 227, 152213	3.4	1
5	Evaluation of Binding Kinetics and Thermodynamics of Antibody-Antigen Interactions and Interactions Involving Complement Proteins. <i>Methods in Molecular Biology</i> , 2021 , 2227, 237-247	1.4	0
4	Methods for Assessment of Interactions of Proteins with Heme: Application for Complement Proteins and Immunoglobulins. <i>Methods in Molecular Biology</i> , 2021 , 2227, 227-236	1.4	0
3	How can polyreactive antibodies conquer rapidly evolving viruses?. <i>Trends in Immunology</i> , 2021 , 42, 654-657	1.4	0
2	Development of Inhibitory Antibodies to Therapeutic Factor VIII in Severe Hemophilia A Is Associated with Microsatellite Polymorphism in the HMOX1 promoter. <i>Blood</i> , 2012 , 120, 38-38	2.2	
1	Noncanonical antibody strategy for broad and potent neutralization of influenza virus. <i>Cellular and Molecular Immunology</i> , 2021 , 18, 1615-1617	15.4	