

# Jordan D Dimitrov

## List of Publications by Year in descending order

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Version: 2024-02-01

108  
papers

3,119  
citations

147726

31  
h-index

189801

50  
g-index

115  
all docs

115  
docs citations

115  
times ranked

3696  
citing authors

#	ARTICLE	IF	CITATIONS
1	Complement activation by heme as a secondary hit for atypical hemolytic uremic syndrome. <i>Blood</i> , 2013, 122, 282-292.	0.6	207
2	Molecular basis for bacterial peptidoglycan recognition by LysM domains. <i>Nature Communications</i> , 2014, 5, 4269.	5.8	167
3	Hyperfunctional C3 convertase leads to complement deposition on endothelial cells and contributes to atypical hemolytic uremic syndrome. <i>Blood</i> , 2009, 114, 2837-2845.	0.6	140
4	Intravascular hemolysis activates complement via cell-free heme and heme-loaded microvesicles. <i>JCI Insight</i> , 2018, 3, .	2.3	135
5	Heme: Modulator of Plasma Systems in Hemolytic Diseases. <i>Trends in Molecular Medicine</i> , 2016, 22, 200-213.	3.5	126
6	Antibody Polyreactivity in Health and Disease: Statu Variabilis. <i>Journal of Immunology</i> , 2013, 191, 993-999.	0.4	100
7	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.	3.3	90
8	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.	1.6	81
9	Ferrous Ions and Reactive Oxygen Species Increase Antigen-binding and Anti-inflammatory Activities of Immunoglobulin G. <i>Journal of Biological Chemistry</i> , 2006, 281, 439-446.	1.6	72
10	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.	3.0	67
11	The interaction between factor H and VWF increases factor H cofactor activity and regulates VWF prothrombotic status. <i>Blood</i> , 2014, 123, 121-125.	0.6	63
12	Breaking the law: unconventional strategies for antibody diversification. <i>Nature Reviews Immunology</i> , 2019, 19, 355-368.	10.6	63
13	Natural Antibodies: from First-Line Defense Against Pathogens to Perpetual Immune Homeostasis. <i>Clinical Reviews in Allergy and Immunology</i> , 2020, 58, 213-228.	2.9	60
14	TCR Stimulation Drives Cleavage and Shedding of the ITIM Receptor CD31. <i>Journal of Immunology</i> , 2010, 184, 5485-5492.	0.4	58
15	Heme Interacts with C1q and Inhibits the Classical Complement Pathway. <i>Journal of Biological Chemistry</i> , 2011, 286, 16459-16469.	1.6	56
16	Exposure of IgG to an acidic environment results in molecular modifications and in enhanced protective activity in sepsis. <i>FEBS Journal</i> , 2010, 277, 3039-3050.	2.2	53
17	Inflammation-induced enhancement of IgG immunoreactivity. <i>Inflammation Research</i> , 2008, 57, 1-3.	1.6	52
18	Important parameters for evaluation of antibody avidity by immunosorbent assay. <i>Analytical Biochemistry</i> , 2011, 418, 149-151.	1.1	46

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19	Conformational Plasticity in Broadly Neutralizing HIV-1 Antibodies Triggers Polyreactivity. <i>Cell Reports</i> , 2018, 23, 2568-2581.	2.9	46
20	Factor VIII Hydrolysis Mediated by Anti-Factor VIII Autoantibodies in Acquired Hemophilia. <i>Journal of Immunology</i> , 2008, 180, 7714-7720.	0.4	45
21	Functional Characterization of Autoantibodies against Complement Component C3 in Patients with Lupus Nephritis. <i>Journal of Biological Chemistry</i> , 2015, 290, 25343-25355.	1.6	44
22	Heme induces human and mouse platelet activation through C-type-lectin-like receptor-2. <i>Haematologica</i> , 2021, 106, 626-629.	1.7	44
23	Regulation of immune responses to protein therapeutics by transplacental induction of T cell tolerance. <i>Science Translational Medicine</i> , 2015, 7, 275ra21.	5.8	43
24	Characterization of Renal Injury and Inflammation in an Experimental Model of Intravascular Hemolysis. <i>Frontiers in Immunology</i> , 2018, 9, 179.	2.2	41
25	Impact of Antigen Density on the Binding Mechanism of IgG Antibodies. <i>Scientific Reports</i> , 2017, 7, 3767.	1.6	40
26	Proteolytic antibodies activate factor IX in patients with acquired hemophilia. <i>Blood</i> , 2011, 117, 2257-2264.	0.6	38
27	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.	2.2	36
28	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.	1.5	36
29	Potent human broadly neutralizing antibodies to hepatitis B virus from natural controllers. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	34
30	Potent human broadly SARS-CoV-2 neutralizing IgA and IgG antibodies effective against Omicron BA.1 and BA.2. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	34
31	Transition towards antigen-binding promiscuity of a monospecific antibody. <i>Molecular Immunology</i> , 2007, 44, 1854-1863.	1.0	33
32	Metrics: journal's impact factor skewed by a single paper. <i>Nature</i> , 2010, 466, 179-179.	13.7	33
33	Iron Ions and Haeme Modulate the Binding Properties of Complement Subcomponent C1q and of Immunoglobulins. <i>Scandinavian Journal of Immunology</i> , 2007, 65, 230-239.	1.3	32
34	Sequence features of variable region determining physicochemical properties and polyreactivity of therapeutic antibodies. <i>Molecular Immunology</i> , 2019, 112, 338-346.	1.0	32
35	Intravenous immunoglobulins exposed to heme (heme IVIG) are more efficient than IVIG in attenuating autoimmune diabetes. <i>Clinical Immunology</i> , 2011, 138, 162-171.	1.4	30
36	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, 1650-1655.	1.7	29

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37	Induction of heme oxygenase-1 in factor VIII-deficient mice reduces the immune response to therapeutic factor VIII. <i>Blood</i> , 2010, 115, 2682-2685.	0.6	28
38	Antibody Polyspecificity. <i>Advances in Experimental Medicine and Biology</i> , 2012, 750, 213-226.	0.8	28
39	Prevalence and Gene Characteristics of Antibodies with Cofactor-induced HIV-1 Specificity. <i>Journal of Biological Chemistry</i> , 2015, 290, 5203-5213.	1.6	28
40	Identification of target antigens of self-reactive IgG in intravenous immunoglobulin preparations. <i>Proteomics</i> , 2009, 9, 2253-2262.	1.3	27
41	Heterogeneous antigen recognition behavior of induced polyspecific antibodies. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 266-271.	1.0	27
42	A Cellular Viewpoint of Anti-FVIII Immune Response in Hemophilia A. <i>Clinical Reviews in Allergy and Immunology</i> , 2009, 37, 105-113.	2.9	24
43	Antibody-mediated catalysis: Induction and therapeutic relevance. <i>Autoimmunity Reviews</i> , 2013, 12, 648-652.	2.5	24
44	Intravenous Immunoglobulin with Enhanced Polyspecificity Improves Survival in Experimental Sepsis and Aseptic Systemic Inflammatory Response Syndromes. <i>Molecular Medicine</i> , 2015, 21, 1002-1010.	1.9	24
45	Materno-Fetal Transfer of Preproinsulin Through the Neonatal Fc Receptor Prevents Autoimmune Diabetes. <i>Diabetes</i> , 2015, 64, 3532-3542.	0.3	24
46	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, 8455-8460.	0.4	22
47	Longitudinal and Integrative Biomodeling of Effector and Memory Immune Compartments after Inactivated Influenza Vaccination. <i>Journal of Immunology</i> , 2013, 191, 623-631.	0.4	21
48	HIV-1 Envelope Recognition by Polyreactive and Cross-Reactive Intestinal B Cells. <i>Cell Reports</i> , 2019, 27, 572-585.e7.	2.9	21
49	Heme binds to factor VIII and inhibits its interaction with activated factor IX. <i>Journal of Thrombosis and Haemostasis</i> , 2012, 10, 1062-1071.	1.9	20
50	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, 17767-17779.	1.6	19
51	Neutralization of Japanese Encephalitis Virus by heme-induced broadly reactive human monoclonal antibody. <i>Scientific Reports</i> , 2015, 5, 16248.	1.6	19
52	Heme oxygenase-1 is dispensable for the anti-inflammatory activity of intravenous immunoglobulin. <i>Scientific Reports</i> , 2016, 6, 19592.	1.6	19
53	Functional variability of antibodies upon oxidative processes. <i>Autoimmunity Reviews</i> , 2008, 7, 574-578.	2.5	18
54	Auditing Protein Therapeutics Management by Professional APCs: Toward Prevention of Immune Responses against Therapeutic Proteins. <i>Journal of Immunology</i> , 2008, 181, 1609-1615.	0.4	18

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55	Factor VIII-hydrolyzing IgG in acquired and congenital hemophilia. <i>FEBS Letters</i> , 2009, 583, 2565-2572.	1.3	18
56	Protein destabilizing agents induce polyreactivity and enhanced immunomodulatory activity in IVIg preparations. <i>Autoimmunity</i> , 2009, 42, 365-367.	1.2	17
57	Thermodynamic Analysis of the Interaction of Factor VIII with von Willebrand Factor. <i>Biochemistry</i> , 2012, 51, 4108-4116.	1.2	17
58	Noncanonical Functions of Antibodies. <i>Trends in Immunology</i> , 2020, 41, 379-393.	2.9	17
59	Cofactor-mediated protein promiscuity. <i>Nature Biotechnology</i> , 2009, 27, 892-892.	9.4	16
60	The receptor for advanced glycation end products is a sensor for cell-free heme. <i>FEBS Journal</i> , 2021, 288, 3448-3464.	2.2	16
61	Insight into the mechanism of the acquired antibody auto-reactivity. <i>Autoimmunity Reviews</i> , 2008, 7, 410-414.	2.5	15
62	Epitope convergence of broadly HIV-1 neutralizing IgA and IgG antibody lineages in a viremic controller. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	14
63	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, 1524-1531.	1.9	13
64	Mechanism and Functional Implications of the Heme-Induced Binding Promiscuity of IgE. <i>Biochemistry</i> , 2015, 54, 2061-2072.	1.2	13
65	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.	1.4	13
66	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, 719-728.	1.9	12
67	Rational Vaccine Design for HIV Should Take into Account the Adaptive Potential of Polyreactive Antibodies. <i>PLoS Pathogens</i> , 2011, 7, e1002095.	2.1	12
68	Thermodynamic stability contributes to immunoglobulin specificity. <i>Trends in Biochemical Sciences</i> , 2014, 39, 221-226.	3.7	12
69	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.	0.4	12
70	Predictive immunogenicity of Refact <sup>®</sup> AF. <i>Haemophilia</i> , 2014, 20, 486-492.	1.0	11
71	Relevance of the Materno-Fetal Interface for the Induction of Antigen-Specific Immune Tolerance. <i>Frontiers in Immunology</i> , 2020, 11, 810.	2.2	10
72	Cryptic polyreactivity of IgG expressed by splenic marginal zone B-cell lymphoma. <i>Molecular Immunology</i> , 2014, 60, 54-61.	1.0	9

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73	Heme-Exposed Pooled Therapeutic IgG Improves Endotoxemia Survival. <i>Inflammation</i> , 2017, 40, 117-122.	1.7	9
74	Methods for Posttranslational Induction of Polyreactivity of Antibodies. <i>Methods in Molecular Biology</i> , 2017, 1643, 135-145.	0.4	9
75	Harnessing the Therapeutic Potential of "Rogue"™ Antibodies. <i>Trends in Pharmacological Sciences</i> , 2020, 41, 409-417.	4.0	9
76	Interaction of clinical-stage antibodies with heme predicts their physiochemical and binding qualities. <i>Communications Biology</i> , 2021, 4, 391.	2.0	9
77	Sialylated therapeutic IgG: a sweet remedy for inflammatory diseases?. <i>Nephrology Dialysis Transplantation</i> , 2007, 22, 1301-1304.	0.4	8
78	Anti-inflammatory activity of intravenous immunoglobulin through scavenging of heme. <i>Molecular Immunology</i> , 2019, 111, 205-208.	1.0	8
79	Anti-IgE IgG autoantibodies isolated from therapeutic normal IgG intravenous immunoglobulin induce basophil activation. <i>Cellular and Molecular Immunology</i> , 2020, 17, 426-429.	4.8	8
80	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, 821-826.	0.8	7
81	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.	0.4	7
82	How can polyreactive antibodies conquer rapidly evolving viruses?. <i>Trends in Immunology</i> , 2021, 42, 654-657.	2.9	7
83	Functional Changes of Therapeutic Antibodies upon Exposure to Pro-Oxidative Agents. <i>Antibodies</i> , 2022, 11, 11.	1.2	7
84	Kinetics and thermodynamics of interaction of coagulation factor VIII with a pathogenic human antibody. <i>Molecular Immunology</i> , 2009, 47, 290-297.	1.0	6
85	Relationship between natural and heme-mediated antibody polyreactivity. <i>Biochemical and Biophysical Research Communications</i> , 2016, 472, 281-286.	1.0	6
86	Method for identification of heme-binding proteins and quantification of their interactions. <i>Analytical Biochemistry</i> , 2020, 607, 113865.	1.1	5
87	Natural and Induced Antibody Polyreactivity. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2015, 15, 1230-1241.	0.9	5
88	Oxidation of factor VIII increases its immunogenicity in mice with severe hemophilia A. <i>Cellular Immunology</i> , 2018, 325, 64-68.	1.4	4
89	Enhanced Pro-apoptotic Effects of Fe(II)-Modified IVIG on Human Neutrophils. <i>Frontiers in Immunology</i> , 2020, 11, 973.	2.2	4
90	Inhibitors of Factor VIII in Hemophilia. <i>New England Journal of Medicine</i> , 2009, 361, 308-310.	13.9	3

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91	Stimulation with FITC-labeled antigens confers B cells with regulatory properties. <i>Cellular Immunology</i> , 2020, 355, 104151.	1.4	3
92	Heme: driver of erythrocyte elimination. <i>Blood</i> , 2021, 138, 1092-1094.	0.6	3
93	Induced antigen-binding polyreactivity in human serum IgA. <i>Immunobiology</i> , 2022, 227, 152213.	0.8	3
94	Anaerobic Bacteriology in 75 Cases of Thoracic Empyema in Sofia, Bulgaria. <i>Anaerobe</i> , 2000, 6, 81-85.	1.0	2
95	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.	1.7	2
96	Thermodynamic Analysis of Hepatitis C Virus Vitality in Syringes. <i>Journal of Infectious Diseases</i> , 2011, 203, 1696-1697.	1.9	2
97	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, 4170-4172.	2.4	2
98	Gain of function of immunoglobulins after partial unfolding or cofactor binding. <i>Molecular Immunology</i> , 2013, 55, 195-196.	1.0	2
99	Serum or breast milk immunoglobulins mask the self-reactivity of human natural IgG antibodies. <i>Apmis</i> , 2014, 122, 329-340.	0.9	2
100	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.	0.4	2
101	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.	1.0	2
102	Implementation and evaluation of classroom simulation for trainee teacher using second life environments. , 2013, , .		1
103	Aromatic Guanyldrazones for the Control of Heme-Induced Antibody Polyreactivity. <i>ACS Omega</i> , 2019, 4, 20450-20458.	1.6	1
104	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.	0.4	1
105	Atypical hemolytic uremic syndrome – Why the kidney?. <i>Molecular Immunology</i> , 2017, 89, 172-173.	1.0	0
106	Noncanonical antibody strategy for broad and potent neutralization of influenza virus. <i>Cellular and Molecular Immunology</i> , 2021, 18, 1615-1617.	4.8	0
107	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.	0.6	0
108	Microbial symphony orchestrated by mucosal IgA. <i>Cellular and Molecular Immunology</i> , 2022, , .	4.8	0