

John D Roback

List of Publications by Citations

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Version: 2024-04-09

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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.

99 papers	2,601 citations	22 h-index	50 g-index
108 ext. papers	3,417 ext. citations	5.2 avg, IF	5.74 L-index

#	Paper	IF	Citations
99	Clinical Practice Guidelines From the AABB: Red Blood Cell Transfusion Thresholds and Storage. <i>JAMA - Journal of the American Medical Association</i> , 2016 , 316, 2025-2035	27.4	557
98	Rapid Generation of Neutralizing Antibody Responses in COVID-19 Patients. <i>Cell Reports Medicine</i> , 2020 , 1, 100040	18	268
97	Evidence-based practice guidelines for plasma transfusion. <i>Transfusion</i> , 2010 , 50, 1227-39	2.9	222
96	Association of Red Blood Cell Transfusion, Anemia, and Necrotizing Enterocolitis in Very Low-Birth-Weight Infants. <i>JAMA - Journal of the American Medical Association</i> , 2016 , 315, 889-97	27.4	157
95	Blood transfusion and breast milk transmission of cytomegalovirus in very low-birth-weight infants: a prospective cohort study. <i>JAMA Pediatrics</i> , 2014 , 168, 1054-62	8.3	104
94	Metabolomics of ADSOL (AS-1) red blood cell storage. <i>Transfusion Medicine Reviews</i> , 2014 , 28, 41-55	7.4	68
93	CMV DNA is rarely detected in healthy blood donors using validated PCR assays. <i>Transfusion</i> , 2003 , 43, 314-21	2.9	59
92	CMV and blood transfusions. <i>Reviews in Medical Virology</i> , 2002 , 12, 211-9	11.7	58
91	Insufficient nitric oxide bioavailability: a hypothesis to explain adverse effects of red blood cell transfusion. <i>Transfusion</i> , 2011 , 51, 859-66	2.9	51
90	Metabolic pathways that correlate with post-transfusion circulation of stored murine red blood cells. <i>Haematologica</i> , 2016 , 101, 578-86	6.6	51
89	Multicenter evaluation of PCR methods for detecting CMV DNA in blood donors. <i>Transfusion</i> , 2001 , 41, 1249-57	2.9	49
88	Daratumumab (anti-CD38) induces loss of CD38 on red blood cells. <i>Blood</i> , 2017 , 129, 3033-3037	2.2	47
87	Convalescent Plasma: Therapeutic Hope or Hopeless Strategy in the SARS-CoV-2 Pandemic. <i>Transfusion Medicine Reviews</i> , 2020 , 34, 145-150	7.4	47
86	Vascular effects of the red blood cell storage lesion. <i>Hematology American Society of Hematology Education Program</i> , 2011 , 2011, 475-9	3.1	41
85	The SARS-CoV-2 receptor-binding domain preferentially recognizes blood group A. <i>Blood Advances</i> , 2021 , 5, 1305-1309	7.8	37
84	An automatable format for accurate immunohematology testing by flow cytometry. <i>Transfusion</i> , 2003 , 43, 918-27	2.9	32
83	The role of photochemical treatment with amotosalen and UV-A light in the prevention of transfusion-transmitted cytomegalovirus infections. <i>Transfusion Medicine Reviews</i> , 2006 , 20, 45-56	7.4	31

82	Quantification of Occupational and Community Risk Factors for SARS-CoV-2 Seropositivity Among Health Care Workers in a Large U.S. Health Care System. <i>Annals of Internal Medicine</i> , 2021 , 174, 649-654	8	29
81	Differences in Steap3 expression are a mechanism of genetic variation of RBC storage and oxidative damage in mice. <i>Blood Advances</i> , 2019 , 3, 2272-2285	7.8	29
80	Transfusion-Transmitted Infections: an Update on Product Screening, Diagnostic Techniques, and the Path Ahead. <i>Journal of Clinical Microbiology</i> , 2018 , 56,	9.7	24
79	Allogeneic T cells treated with amotosalen prevent lethal cytomegalovirus disease without producing graft-versus-host disease following bone marrow transplantation. <i>Journal of Immunology</i> , 2003 , 171, 6023-31	5.3	23
78	Effects of storage-aged red blood cell transfusions on endothelial function in hospitalized patients. <i>Transfusion</i> , 2015 , 55, 782-90	2.9	21
77	Therapeutic plasma exchange for COVID-19-associated hyperviscosity. <i>Transfusion</i> , 2021 , 61, 1029-1034	2.9	21
76	AABB Committee Report: reducing transfusion-transmitted cytomegalovirus infections. <i>Transfusion</i> , 2016 , 56, 1581-7	2.9	20
75	Genotyping Applications for Transplantation and Transfusion Management: The Emory Experience. <i>Archives of Pathology and Laboratory Medicine</i> , 2017 , 141, 329-340	5	18
74	Glucose-6-phosphate-dehydrogenase deficient red blood cell units are associated with decreased posttransfusion red blood cell survival in children with sickle cell disease. <i>American Journal of Hematology</i> , 2018 , 93, 630-634	7.1	18
73	COVID-19 convalescent plasma clears SARS-CoV-2 refractory to remdesivir in an infant with congenital heart disease. <i>Blood Advances</i> , 2020 , 4, 4278-4281	7.8	18
72	RBC Transfusion Strategies in the ICU: A Concise Review. <i>Critical Care Medicine</i> , 2019 , 47, 1637-1644	1.4	16
71	Examining the Role of Complement in Predicting, Preventing, and Treating Hemolytic Transfusion Reactions. <i>Transfusion Medicine Reviews</i> , 2019 , 33, 217-224	7.4	15
70	Transfusion-transmitted cytomegalovirus: lessons from a murine model. <i>Transfusion Medicine Reviews</i> , 2007 , 21, 26-36	7.4	15
69	Comparison of Antibody Class-Specific SARS-CoV-2 Serologies for the Diagnosis of Acute COVID-19. <i>Journal of Clinical Microbiology</i> , 2021 , 59,	9.7	13
68	Challenges in preventing and treating hemolytic complications associated with red blood cell transfusion. <i>Transfusion Clinique Et Biologique</i> , 2019 , 26, 130-134	1.9	10
67	Quantitative phase imaging of erythrocytes under microfluidic constriction in a high refractive index medium reveals water content changes. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 63	7.7	10
66	Using an old test for new tricks: Measuring direct oral anti-Xa drug levels by conventional heparin-calibrated anti-Xa assay. <i>American Journal of Hematology</i> , 2019 , 94, E132-E134	7.1	9
65	Hemoglobin A clearance in children with sickle cell anemia on chronic transfusion therapy. <i>Transfusion</i> , 2018 , 58, 1363-1371	2.9	9

64	Multiple hemolytic transfusion reactions misinterpreted as severe vaso-occlusive crisis in a patient with sickle cell disease. <i>Transfusion</i> , 2019 , 59, 448-453	2.9	9
63	Enteral iron supplementation, red blood cell transfusion, and risk of bronchopulmonary dysplasia in very-low-birth-weight infants. <i>Transfusion</i> , 2019 , 59, 1675-1682	2.9	8
62	The value of area-based analyses of donation patterns for recruitment strategies. <i>Transfusion</i> , 2014 , 54, 3051-60	2.9	8
61	Comparison of cytomegalovirus polymerase chain reaction and serology for screening umbilical cord blood components. <i>Transfusion</i> , 2005 , 45, 1722-8	2.9	8
60	Marginal zone B cells mediate a CD4 T-cell-dependent extrafollicular antibody response following RBC transfusion in mice. <i>Blood</i> , 2021 , 138, 706-721	2.2	8
59	One-Stop Serum Assay Identifies COVID-19 Disease Severity and Vaccination Responses. <i>ImmunoHorizons</i> , 2021 , 5, 322-335	2.7	8
58	Integrated automated particle tracking microfluidic enables high-throughput cell deformability cytometry for red cell disorders. <i>American Journal of Hematology</i> , 2019 , 94, 189-199	7.1	8
57	Transfusion-transmitted cytomegalovirus (CMV) infections in a murine model: characterization of CMV-infected donor mice. <i>Transfusion</i> , 2006 , 46, 889-95	2.9	7
56	Observational study of cytomegalovirus from breast milk and necrotising enterocolitis. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2019 ,	4.7	7
55	Pleomorphic Structures in Human Blood Are Red Blood Cell-Derived Microparticles, Not Bacteria. <i>PLoS ONE</i> , 2016 , 11, e0163582	3.7	6
54	Does red blood cell irradiation and/or anemia trigger intestinal injury in premature infants with birth weight ≤ 250 g? An observational birth cohort study. <i>BMC Pediatrics</i> , 2018 , 18, 270	2.6	5
53	Quantification of occupational and community risk factors for SARS-CoV-2 seropositivity among healthcare workers in a large U.S. healthcare system 2020 ,		5
52	Are We Forgetting About IgA? A Re-examination of Coronavirus Disease 2019 Convalescent Plasma. <i>Transfusion</i> , 2021 , 61, 1740-1748	2.9	5
51	Angiogenin-mediated tRNA cleavage as a novel feature of stored red blood cells. <i>British Journal of Haematology</i> , 2019 , 185, 760-764	4.5	5
50	Refractory thrombotic thrombocytopenic purpura related to checkpoint inhibitor immunotherapy. <i>Transfusion</i> , 2021 , 61, 322-328	2.9	5
49	The Role of the Laboratory and Transfusion Service in the Management of Ebola Virus Disease. <i>Transfusion Medicine Reviews</i> , 2017 , 31, 149-153	7.4	4
48	Effect of storage-aged red blood cell transfusions on endothelial function in healthy subjects. <i>Transfusion</i> , 2015 , 55, 2768-70	2.9	4
47	Recombinant human CD40 ligand inhibits simian immunodeficiency virus replication: a role for interleukin- 16. <i>Journal of Medical Primatology</i> , 1999 , 28, 190-4	0.7	4

46	Erythropoietic properties of human induced pluripotent stem cells-derived red blood cells in immunodeficient mice. <i>American Journal of Hematology</i> , 2021 , 97, 194	7.1	4
45	Passenger Lymphocyte Syndrome; a Review of the Diagnosis, Treatment, and Proposed Detection Protocol. <i>Transfusion Medicine Reviews</i> , 2020 , 34, 178-187	7.4	4
44	BMI1 enables extensive expansion of functional erythroblasts from human peripheral blood mononuclear cells. <i>Molecular Therapy</i> , 2021 , 29, 1918-1932	11.7	4
43	Current Evidence for the Use of Prophylactic Transfusion to Treat Sickle Cell Disease During Pregnancy. <i>Transfusion Medicine Reviews</i> , 2018 , 32, 220-224	7.4	4
42	Trends in transfusion rates after the FOCUS trial. <i>Journal of Comparative Effectiveness Research</i> , 2018 , 7, 113-120	2.1	3
41	Epidemiological Profiles of Foreign-Born and US-Born Hispanic Blood Donors in a Major Metropolitan Area in the United States. <i>Journal of Blood Transfusion</i> , 2012 , 2012, 820514		3
40	Existing and Emerging Blood-Borne Pathogens: Impact on the Safety of Blood Transfusion for the Hematology/Oncology Patient. <i>Hematology/Oncology Clinics of North America</i> , 2019 , 33, 739-748	3.1	3
39	Covid-19 will not "magically disappear": Why access to widespread testing is paramount. <i>American Journal of Hematology</i> , 2021 , 96, 174-178	7.1	3
38	Stability of anti-A blood group titers among blood group B renal transplant candidates. <i>Transfusion</i> , 2018 , 58, 2747-2751	2.9	3
37	Testing for Platelet Refractoriness: Optimizing Testing Algorithms. <i>American Journal of Clinical Pathology</i> , 2018 , 150, S151-S151	1.9	3
36	Antigen density dictates RBC clearance, but not antigen modulation, following incompatible RBC transfusion in mice. <i>Blood Advances</i> , 2021 , 5, 527-538	7.8	3
35	Determinants of Neutralizing Antibody Response After SARS CoV-2 Vaccination in Patients With Myeloma.. <i>Journal of Clinical Oncology</i> , 2022 , JCO2102257	2.2	3
34	Automated Serum Protein Electrophoresis Interpretation Using Machine Learning-Based Algorithm for Paraprotein Detection. <i>American Journal of Clinical Pathology</i> , 2020 , 154, S7-S8	1.9	2
33	Critical developments of 2017: a review of the literature from selected topics in transfusion. A committee report from the AABB Clinical Transfusion Medicine Committee. <i>Transfusion</i> , 2018 , 58, 1065-1075	7.9	2
32	Evidence-based guidelines for blood transfusion. <i>Journal of Infusion Nursing</i> , 2012 , 35, 187-90	1	2
31	How do I implement diagnostic management teams in transfusion medicine?. <i>Transfusion</i> , 2020 , 60, 237-244	2.9	2
30	NIH Workshop 2018: Towards Minimally Invasive or Noninvasive Approaches to Assess Tissue Oxygenation Pre- and Post-transfusion. <i>Transfusion Medicine Reviews</i> , 2021 , 35, 46-55	7.4	2
29	Impacts of New Concepts and Technologies on the Practice of Diagnostic Pathology: An Emory University Perspective. <i>Archives of Pathology and Laboratory Medicine</i> , 2017 , 141, 325-328	5	1

28	New Insights in the Potential Effect of Transfusing Red Blood Cells that Have Been Stored for Different Periods. <i>Blood</i> , 2015 , 126, SCI-37-SCI-37	2.2	1
27	Development of iron deficiency anemia in patients undergoing extracorporeal photopheresis: Comparison of the UVAR and CELLEX instruments. <i>Journal of Clinical Apheresis</i> , 2021 , 36, 34-40	3.2	1
26	Mizuho hemoglobinopathy, presenting with severe hemolytic anemia and multisystem organ failure secondary to exertion. <i>Transfusion</i> , 2021 , 61, 1996-1997	2.9	1
25	The need for new test verification and regulatory support for innovative diagnostics. <i>Nature Biotechnology</i> , 2021 , 39, 1060-1062	44.5	1
24	Association of Blood Donor Sex and Age With Outcomes in Very Low-Birth-Weight Infants Receiving Blood Transfusion. <i>JAMA Network Open</i> , 2021 , 4, e2123942	10.4	1
23	Daratumumab: Beyond Multiple Myeloma. <i>Transfusion Medicine Reviews</i> , 2021 , 35, 36-43	7.4	0
22	An open-source python library for detection of known and novel Kell, Duffy and Kidd variants from exome sequencing. <i>Vox Sanguinis</i> , 2021 , 116, 451-463	3.1	0
21	The making of a grans fan. <i>Transfusion</i> , 2019 , 59, 3288-3289	2.9	
20	Electronic charting of transfusion medicine consults: implementation, challenges and opportunities. <i>Vox Sanguinis</i> , 2020 , 115, 443-450	3.1	
19	A Sticky Situation: Poor Correlation Between Platelet Inhibition Assays. <i>American Journal of Clinical Pathology</i> , 2019 , 152, S5-S6	1.9	
18	Diagnostic Management Team: Platelet Refractory Algorithm and Consult. <i>American Journal of Clinical Pathology</i> , 2019 , 152, S6-S6	1.9	
17	Cytomegalovirus-safe blood: the unclear effect of sickle hemoglobin. <i>Transfusion</i> , 2017 , 57, 1582-1583	2.9	
16	Lyle T. Sinor, PhD: May 24, 1957-January 12, 2015. <i>Transfusion</i> , 2015 , 55, 1135	2.9	
15	Characteristics of in Vitro Differentiated Erythrocytes Derived from Human Bmi-1 Extensively Expanded Erythroblasts (E3). <i>Blood</i> , 2020 , 136, 30-30	2.2	
14	Effective Erythropoiesis from Human iPSC-Derived RBC in Immunodeficient Mice. <i>Blood</i> , 2020 , 136, 42-42.2	2.2	
13	Efficient Enucleation and In Vivo Circulation of Differentiated Human Erythroblasts Derived from Peripheral Blood Mononuclear Cells after Extensive Expansion. <i>Blood</i> , 2020 , 136, 23-24	2.2	
12	371. Estimating SARS-CoV-2 Seroprevalence from Spent Blood Samples, January-March 2021. <i>Open Forum Infectious Diseases</i> , 2021 , 8, S287-S288	1	
11	Donor Plasmacytoid Dendritic Cells Regulate GvHD in a VIP Dependent Manner in Allogeneic BMT Recipients. <i>Blood</i> , 2021 , 138, 1687-1687	2.2	

- 10 Effects of Amotosalen Hydrochloride and Ultraviolet a Light on CD4 and CD8 Cells.. *Blood*, **2004**, 104, 4981-4981 2.2
- 9 MCMV Infection Lowers the Threshold for the Development of Clinical GvHD after Allogeneic Bone Marrow Transplantation.. *Blood*, **2004**, 104, 2125-2125 2.2
- 8 Immunization with Live-Attenuated Listeria Encoding CMV Antigen Induces Extensive Expansion of CMV-Specific CD8+ T-Cells Following HSCT: An Alternative to Adoptive Antiviral Immunotherapy.. *Blood*, **2004**, 104, 2129-2129 2.2
- 7 Host Inflammation Increases Alloimmunization to Transfused Red Blood Cells.. *Blood*, **2005**, 106, 1887-1887 2.2
- 6 Live-Attenuated and Novel Non-Replicating Listeria Vaccines Encoding CMV Antigen Produce Persistent Functional Antiviral Immunity.. *Blood*, **2005**, 106, 575-575 2.2
- 5 Inactivation of Infectious CMV in Platelet Products: Comparison of INTERCEPT Blood System and Leukofiltration.. *Blood*, **2007**, 110, 2886-2886 2.2
- 4 Flagellin, a TLR5 Agonist, Down-Regulate CD62L on Donor T Cells and Limit GvHD in Allogeneic Hematopoietic Stem Cell Transplantation. *Blood*, **2008**, 112, 3521-3521 2.2
- 3 Prophylactic Use of Flagellin: A Novel Method to Boost Immune Reconstitution in Allogeneic HSCT Recipients with Limited GvHD.. *Blood*, **2009**, 114, 3561-3561 2.2
- 2 Flagellin, a TLR5 Agonist, Reduces GvHD in Allogeneic HSCT Recipients While Enhancing Anti-Viral Immunity: A Novel Therapeutic Approach. *Blood*, **2011**, 118, 144-144 2.2
- 1 COVID-19 convalescent plasma donor recruitment experience from the perspective of a hospital transfusion medicine service. *Transfusion*, **2021**, 61, 2213-2215 2.9