Robert L Flower

List of Publications by Year
in descending order

119 papers	1,611 citations	304743 22 h-index	395702 33 g-index
121 all docs	121 docs citations	121 times ranked	1792 citing authors

#	Article	IF	Citations
1	In vitro antiviral activity of the anthraquinone chrysophanic acid against poliovirus. Antiviral Research, 2001, 49, 169-178.	4.1	134
2	Cytomegalovirus disease in immunocompetent adults. Medical Journal of Australia, 2014, 201, 578-580.	1.7	95
3	Evaluation of nonâ€invasive prenatal RHD genotyping of the fetus. Medical Journal of Australia, 2009, 191, 21-25.	1.7	57
4	Evaluation of targeted exome sequencing for 28 proteinâ€based blood group systems, including the homologous gene systems, for blood group genotyping. Transfusion, 2017, 57, 1078-1088.	1.6	54
5	A coarse-grained red blood cell membrane model to study stomatocyte-discocyte-echinocyte morphologies. PLoS ONE, 2019, 14, e0215447.	2.5	53
6	Canine Parvoviral Disease: Experimental Reproduction of the Enteric Form with a Parvovirus Isolated from a Case of Myocarditis. Veterinary Pathology, 1980, 17, 589-599.	1.7	51
7	Implications of Dengue Outbreaks for Blood Supply, Australia. Emerging Infectious Diseases, 2013, 19, 787-789.	4.3	51
8	Sixty Years of Antibodies to MNS System Hybrid Glycophorins: What Have We Learned?. Transfusion Medicine Reviews, 2011, 25, 111-124.	2.0	44
9	Hepatitis E Virus and Implications for Blood Supply Safety, Australia. Emerging Infectious Diseases, 2014, 20, 1940-1942.	4.3	34
10	Antiâ€D in pregnant women with the RHD(IVS3+1G>A)â€associated DEL phenotype. Transfusion, 2012, 52, 2016-2019.	1.6	33
11	Investigation of red blood cell mechanical properties using AFM indentation and coarse-grained particle method. BioMedical Engineering OnLine, 2017, 16, 140.	2.7	31
12	IMMUNOHEMATOLOGY: Novel antibody screening cells, MUT+Mur kodecytes, created by attaching peptides onto red blood cells. Transfusion, 2010, 50, 635-641.	1.6	30
13	Surface and Intracellular Interleukin-2 Receptor Expression on Various Resting and Activated Populations Involved in Cell-Mediated Immunity in Human Peripheral Blood. Scandinavian Journal of Immunology, 2000, 51, 67-72.	2.7	29
14	Hepatitis E virus <scp>RNA</scp> in Australian blood donors: prevalence and risk assessment. Vox Sanguinis, 2017, 112, 614-621.	1.5	29
15	Approaches to Determination of a Full Profile of Blood Group Genotypes: Single Nucleotide Variant Mapping and Massively Parallel Sequencing. Computational and Structural Biotechnology Journal, 2014, 11, 147-151.	4.1	28
16	Targeted exome sequencing defines novel and rare variants in complex blood group serology cases for a red blood cell reference laboratory setting. Transfusion, 2018, 58, 284-293.	1.6	28
17	Hepatitis E virus RNA in Australian blood donations. Transfusion, 2016, 56, 3086-3093.	1.6	27
18	Procoagulant role of microparticles in routine storage of packed red blood cells: potential risk for prothrombotic post-transfusion complications. Pathology, 2017, 49, 62-69.	0.6	27

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19	The <scp>RHD</scp>(1227<scp>G</scp>><scp>A</scp>)â€¦<scp>DEL</scp>â€associated allele is the most prevalent <scp>DEL</scp> allele in <scp>A</scp>ustralian <scp>D</scp>â€“ blood donors with <scp>C</scp>+ and/or <scp>E</scp>+ phenotypes. Transfusion, 2014, 54, 2931-2940.	1.6	26
20	Soluble Mediators in Platelet Concentrates Modulate Dendritic Cell Inflammatory Responses in an Experimental Model of Transfusion. Journal of Interferon and Cytokine Research, 2015, 35, 821-830.	1.2	24
21	Antigenic differences between canine parvovirus and feline panleucopenia virus. Veterinary Record, 1980, 107, 254-256.	0.3	24
22	A Comparative Study of Assay Performance of Commercial Hepatitis E Virus Enzyme-Linked Immunosorbent Assay Kits in Australian Blood Donor Samples. Journal of Blood Transfusion, 2016, 2016, 1-6.	3.3	23
23	Assessment of In Vitro-Generated Platelet Microparticles Using a Modified Flow Cytometric Strategy. Thrombosis Research, 2001, 103, 47-55.	1.7	22
24	Noninvasive fetal RHD genotyping by microfluidics digital PCR using maternal plasma from two alloimmunized women with the variant RHD(IVS3+1G>A) allele. Prenatal Diagnosis, 2013, 33, 1214-1216.	2.3	21
25	The distribution of <scp>MNS</scp> hybrid glycophorins with Mur antigen expression in Chinese donors including identification of a novel <scp>GYP</scp>.Bun allele. Vox Sanguinis, 2016, 111, 308-314.	1.5	19
26	Diverse and novel <scp>RHD</scp> variants in Australian blood donors with a weak D phenotype: implication for transfusion management. Vox Sanguinis, 2017, 112, 279-287.	1.5	19
27	Seroprevalence of Antibodies to Ross River and Barmah Forest Viruses: Possible Implications for Blood Transfusion Safety After Extreme Weather Events. EcoHealth, 2015, 12, 347-353.	2.0	18
28	Genotyping confirms inheritance of the rare At(aâ^') type in a case of haemolytic disease of the newborn. Journal of Pathology: Clinical Research, 2016, 2, 53-55.	3.0	18
29	SPH-DEM approach to numerically simulate the deformation of three-dimensional RBCs in non-uniform capillaries. BioMedical Engineering OnLine, 2016, 15, 161.	2.7	18
30	Non-invasive fetal RHD genotyping for RhD negative women stratified into RHD gene deletion or variant groups: comparative accuracy using two blood collection tube types. Pathology, 2017, 49, 757-764.	0.6	18
31	Comprehensive blood group antigen profile predictions for Western Desert Indigenous Australians from whole exome sequence data. Transfusion, 2019, 59, 768-778.	1.6	18
32	Duffy blood group phenotypeâ€“genotype correlations using highâ€resolution melting analysis <scp>PCR</scp> and microarray reveal complex cases including a new null <scp>FY</scp>*A allele: the role for sequencing in genotyping algorithms. Vox Sanguinis, 2015, 109, 296-303.	1.5	16
33	Nonâ€invasive prenatal testing (NIPT) for fetal Kell, Duffy and Rh blood group antigen prediction in alloimmunised pregnant women: power of droplet digital PCR. British Journal of Haematology, 2020, 189, e90-e94.	2.5	16
34	GYP*Kip, a novel GYP(Bâ€Aâ€B) hybrid allele, encoding the MNS48 (KIPP) antigen. Transfusion, 2016, 56, 539-541.	1.6	15
35	Hepatitis E virus seroepidemiology: a post-earthquake study among blood donors in Nepal. BMC Infectious Diseases, 2016, 16, 707.	2.9	15
36	Platelet concentrates modulate myeloid dendritic cell immune responses. Platelets, 2018, 29, 373-382.	2.3	15

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37	A novel <scp>FY</scp>*A allele with the 265T and 298A <scp>SNP</scp>s formerly associated exclusively with the <scp>FY</scp>*B allele and weak Fy^b antigen expression: implication for genotyping interpretative algorithms. Vox Sanguinis, 2015, 108, 52-57.	1.5	14
38	An alloantibody in a homozygous GYP*Mur individual defines JENU (MNS49), a new highâ€frequency antigen on glycophorin B. Transfusion, 2017, 57, 716-717.	1.6	14
39	Noninvasive fetal RHD genotyping of <scp>RhD</scp> negative pregnant women for targeted antiâ€<scp>D</scp> therapy in Australia: A costâ€effectiveness analysis. Prenatal Diagnosis, 2017, 37, 1245-1253.	2.3	14
40	Modelling of Red Blood Cell Morphological and Deformability Changes during In-Vitro Storage. Applied Sciences (Switzerland), 2020, 10, 3209.	2.5	14
41	Coronary artery bypass grafting is associated with immunoparalysis of monocytes and dendritic cells. Journal of Cellular and Molecular Medicine, 2020, 24, 4791-4803.	3.6	14
42	Genotyping for Glycophorin GYP(B-A-B) Hybrid Genes Using a Single Nucleotide Polymorphism-Based Algorithm by Matrix-Assisted Laser Desorption/Ionisation, Time-of-Flight Mass Spectrometry. Molecular Biotechnology, 2016, 58, 665-671.	2.4	13
43	<scp>SARA</scp>: a â€œnewâ€•lowâ€frequency <scp>MNS</scp> antigen (<scp>MNS47</scp>) provides further evidence of the extreme diversity of the <scp>MNS</scp> blood group system. Transfusion, 2015, 55, 1451-1456.	1.6	12
44	Genotyping analysis of MNS blood group GP(Bâ€Aâ€B) hybrid glycophorins in the Chinese Southern Han population using a highâ€resolution melting assay. Transfusion, 2018, 58, 1763-1771.	1.6	12
45	Non-invasive prenatal testing for management of haemolytic disease of the fetus and newborn induced by maternal alloimmunisation. Transfusion and Apheresis Science, 2020, 59, 102947.	1.0	12
46	Molecular typing for the Indian blood group associated 252G>C single nucleotide polymorphism in a selected cohort of Australian blood donors. Blood Transfusion, 2015, 13, 78-85.	0.4	12
47	Diffusion chamber method for in situ measurement of pathogen inactivation in groundwater. Water Research, 1998, 32, 1144-1150.	11.3	11
48	Frequency of Mi^a (MNS7) and Classification of Mi^a-Positive Hybrid Glycophorins in an Australian Blood Donor Population. Transfusion Medicine and Hemotherapy, 2020, 47, 279-287.	1.6	11
49	Targeted exome sequencing designed for blood group, platelet, and neutrophil antigen investigations: Proofâ€ofâ€principle study for a customized singleâ€test system. Transfusion, 2020, 60, 2108-2120.	1.6	11
50	Genetic factors associated with iron storage in Australian blood donors. Blood Transfusion, 2018, 16, 123-129.	0.4	11
51	Hepatitis E virus: do locally acquired infections in Australia necessitate laboratory testing in acute hepatitis patients with no overseas travel history?. Pathology, 2015, 47, 97-100.	0.6	10
52	A coupled SPH-DEM approach to model the interactions between multiple red blood cells in motion in capillaries. International Journal of Mechanics and Materials in Design, 2016, 12, 477-494.	3.0	10
53	<scp>R</scp>oss <scp>R</scp>iver virus in <scp>A</scp>ustralian blood donors: possible implications for blood transfusion safety. Transfusion, 2018, 58, 485-492.	1.6	10
54	Strategy for managing maternal variantRHDalleles in Rhesus D negative obstetric populations during fetalRHDgenotyping. Prenatal Diagnosis, 2014, 34, 56-62.	2.3	9

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55	Mitigating the Risk of Transfusion-Transmitted Dengue in Australia. Journal of Blood Transfusion, 2016, 2016, 1-6.	3.3	9
56	A D+ blood donor with a novelRHD*Dâ€CE(5â€6)â€Dgene variant exhibits the lowâ€frequency antigen RH23 (DW) characteristic of the partial DVa phenotype. Transfusion, 2016, 56, 2322-2330.	1.6	9
57	A proposed new lowâ€frequency antigen in the <scp>A</scp>ugustine blood group system associated with a severe case of hemolytic disease of the fetus and newborn. Transfusion, 2018, 58, 1320-1322.	1.6	9
58	Identification of genetic polymorphisms that predict responder/non-responder profiles to the RhD antigen. Molecular Immunology, 2015, 68, 628-633.	2.2	8
59	Immunomodulatory effect of cryopreserved platelets: altered BDCA3⁺ dendritic cell maturation and activation in vitro. Transfusion, 2017, 57, 2878-2887.	1.6	8
60	Packed Red Blood Cell Transfusion Modulates Myeloid Dendritic Cell Activation and Inflammatory Response In Vitro. Journal of Interferon and Cytokine Research, 2018, 38, 111-121.	1.2	8
61	Severe hemolytic disease of the fetus and newborn due to alloâ€antiâ€D in a patient with a partial DEL phenotype arising from the variant allele described as RHD*148+1T (RHD*01EL.31). Transfusion, 2018, 58, 2260-2264.	1.6	8
62	No evidence for widespread Babesia microti transmission in Australia. Transfusion, 2019, 59, 2368-2374.	1.6	8
63	HLA Antigens and the Response to Influenza A Virus. Vox Sanguinis, 1979, 37, 201-208.	1.5	7
64	A DEL phenotype attributed to RHD Exon 9 sequence deletion: slippedâ€strand mispairing and blood group polymorphisms. Transfusion, 2018, 58, 685-691.	1.6	7
65	Epidemic potential of Zika virus in Australia: implications for blood transfusion safety. Transfusion, 2019, 59, 648-658.	1.6	7
66	Glycophorins and the MNS blood group system: a narrative review. Annals of Blood, 0, 6, 39-39.	0.4	7
67	Epidemic Potential for Local Transmission of Zika Virus in 2015 and 2016 in Queensland, Australia. PLOS Currents, 2016, 8, .	1.4	7
68	A plasma ferritin is not always a serum ferritin. Pathology, 2015, 47, S89-S90.	0.6	6
69	Numerical Investigation of Motion and Deformation of a Single Red Blood Cell in a Stenosed Capillary. International Journal of Computational Methods, 2015, 12, 1540003.	1.3	6
70	Antiâ€D in a mother, hemizygous for the variant RHD*DNB gene, associated with hemolytic disease of the fetus and newborn. Transfusion, 2017, 57, 1938-1943.	1.6	6
71	Genetic Variants Within the Erythroid Transcription Factor, KLF1, and Reduction of the Expression of Lutheran and Other Blood Group Antigens: Review of the In(Lu) Phenotype. Transfusion Medicine Reviews, 2019, 33, 111-117.	2.0	6
72	RBCeq: A robust and scalable algorithm for accurate genetic blood typing. EBioMedicine, 2022, 76, 103759.	6.1	6

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73	Blood group genotype analysis of Australian reagent red blood cell donors across three genotyping platforms: consistent detection of 7Â·0% phenotype genotype nonconcordance. ISBT Science Series, 2014, 9, 309-314.	1.1	5
74	Cytomegalovirus in <scp>A</scp>ustralian blood donors: seroepidemiology and seronegative red blood cell component inventories. Transfusion, 2016, 56, 1616-1621.	1.6	5
75	Investigation of the variable In(Lu) phenotype caused by KLF1 variants. Transfusion, 2018, 58, 2414-2420.	1.6	5
76	Mechanism of an action of an antibacterial murine lymphokine. Nature, 1975, 254, 459-460.	27.8	4
77	Identification of six new RHCE variant alleles in individuals of diverse racial origin. Transfusion, 2016, 56, 244-248.	1.6	4
78	Dâ€immunized blood donors who are female and who possess at least one HLAâ€DRB1*15 allele show a propensity for high serum RhIG production. Transfusion, 2018, 58, 1182-1188.	1.6	4
79	Emerging infectious disease outbreaks: estimating disease risk in Australian blood donors travelling overseas. Vox Sanguinis, 2018, 113, 21-30.	1.5	4
80	Estimation of mosquito-borne and sexual transmission of Zika virus in Australia: Risks to blood transfusion safety. PLoS Neglected Tropical Diseases, 2020, 14, e0008438.	3.0	4
81	Understanding occult hepatitis C infection. Transfusion, 2020, 60, 2144-2152.	1.6	4
82	The genomic landscape of blood groups in Indigenous Australians in remote communities. Transfusion, 2022, , .	1.6	4
83	Detection of emergent strains of <scp>W</scp>est <scp>N</scp>ile virus with a blood screening assay. Transfusion, 2016, 56, 1503-1507.	1.6	3
84	Genotyping by sequencing defines independent novel RHD variants for an antenatal patient and a blood donor. Transfusion, 2017, 57, 2281-2283.	1.6	3
85	Is Zika virus a potential threat to the Australian Blood Supply?. Australian and New Zealand Journal of Public Health, 2018, 42, 104-105.	1.8	3
86	Modeling the parvovirus B19 blood safety risk in Australia. Transfusion, 2019, 59, 295-302.	1.6	3
87	In Silico Analysis of Genetic Diversity of Human Hepatitis B Virus in Southeast Asia, Australia and New Zealand. Viruses, 2020, 12, 427.	3.3	3
88	Low Genetic Diversity of Hepatitis B Virus Surface Gene amongst Australian Blood Donors. Viruses, 2021, 13, 1275.	3.3	3
89	Hepatitis E virus infections in travellers: assessing the threat to the Australian blood supply. Blood Transfusion, 2017, 15, 191-198.	0.4	3
90	CHARACTERIZATION OF ENU-INDUCED MUTATIONS IN RED BLOOD CELL STRUCTURAL PROTEINS. Computational and Structural Biotechnology Journal, 2013, 6, e201303012.	4.1	2

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91	Incorporation of fluorescein conjugated function-spacer-lipid constructs into the red blood cell membrane facilitates detection of labeled cells for the duration of ex-vivo storage. Journal of Immunological Methods, 2016, 429, 66-70.	1.4	2
92	Whole-genome sequencing algorithm for blood-group typing. Lancet Haematology,the, 2018, 5, e233-e234.	4.6	2
93	Soluble mediators in packed red blood cells augment lipopolysaccharideâ€induced monocyte interleukinâ€1Î² production. Vox Sanguinis, 2020, 115, 562-569.	1.5	2
94	The interaction between Glycophorin A (GPA) and Band 3 in the formation of the Wright b (Wr^b) antigen. Vox Sanguinis, 2021, 116, 489-492.	1.5	2
95	Neonatal Outcomes From Arboviruses in the Perinatal Period: A State-of-the-Art Review. Pediatrics, 2021, 147, .	2.1	2
96	Molecular genotyping platforms for blood group antigen prediction. Pathology, 2014, 46, S87.	0.6	1
97	Next generation sequencing of an australian family to identify the genetic basis of a rare blood group antigen. Pathology, 2014, 46, S87-S88.	0.6	1
98	Routine application of genotyping a step closer: direct PCR on plasma. Annals of Blood, 0, 2, 3-3.	0.4	1
99	GP.Mur red blood cells express variant form of s antigen (MNS4). Pathology, 2018, 50, S103.	0.6	1
100	Modified expression of the KEL2 (k) blood group antigen attributed to p.Leu196Val amino acid change three residues from the K/k antigen polymorphism site: implications for donor screening. Transfusion, 2019, 59, 1156-1158.	1.6	1
101	Inverse Relationship Between Lipopolysaccharide Concentration and Monocyte and Dendritic Cells Inflammatory Response. Journal of Interferon and Cytokine Research, 2020, 40, 349-356.	1.2	1
102	Computational modeling â€“ an approach to the development of blood grouping reagents. Expert Review of Hematology, 2021, 14, 329-334.	2.2	1
103	Past and future epidemic potential of chikungunya virus in Australia. PLoS Neglected Tropical Diseases, 2021, 15, e0009963.	3.0	1
104	Using whole-genome sequencing to characterize clinically significant blood groups among healthy older Australians. Blood Advances, 2022, 6, 4593-4604.	5.2	1
105	Evaluation of testing strategies for reliable measurement of rates of subclinical mosquito-borne viral infections. Pathology, 2012, 44, S77.	0.6	0
106	Sero-Prevelance of antibodies to hepatitis a virus among australian blood donors. Pathology, 2014, 46, S87.	0.6	0
107	Transfusion risk from emerging pathogens in the Asiaâ€“Pacific region. ISBT Science Series, 2016, 11, 143-148.	1.1	0
108	Hybrid glycophorins: Silent genetic variants complicate genetic testing. Pathology, 2016, 48, S98.	0.6	0

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109	Frequency of GP.Hut in association with â€˜Mi(a)-positiveâ€™ serology in Asian populations. Pathology, 2017, 49, S108.	0.6	0
110	Exposure to cryopreserved platelets mediates suppression of myeloid dendritic cell subset immune responses. Pathology, 2017, 49, S109.	0.6	0
111	Modulation of immune responses in patients following cardiac surgery. Pathology, 2017, 49, S109-S110.	0.6	0
112	Seroprevalence of antibodies to primate erythroparvovirus 1 among Australian blood donors. Pathology, 2017, 49, S115-S116.	0.6	0
113	KLF1 variants and the impact on the expression of red blood cell surface molecules in blood donors with the In(Lu) phenotype. Pathology, 2018, 50, S104.	0.6	0
114	Supernatants from packed red blood cells modulate inflammasome activation. Pathology, 2018, 50, S110-S111.	0.6	0
115	The role of nonâ€invasive prenatal testing (NIPT) for fetal blood group typing in Australia. Australian and New Zealand Journal of Obstetrics and Gynaecology, 2021, , .	1.0	0
116	Increased circulating plasma mannose binding lectin associated serine protease (MASP) as a result of enu-induced mutation in MASP-1. Pathology, 2013, 45, S93.	0.6	0
117	Investigation of age, gender and MBL deficiency in relation to inflammatory markers in blood donors. Pathology, 2013, 45, S93.	0.6	0
118	An Improved Coarse-Grained Model to Accurately Predict Red Blood Cell Morphology and Deformability. , 2020, , 47-84.		0
119	A new highâ€prevalence <scp>LW</scp> antigen detected by an antibody in an Indigenous Australian homozygous for <scp>LW</scp> * <scp>A</scp> c. <scp>309C</scp> > <scp>A</scp> variant. Vox Sanguinis, 2022, , .	1.5	0