Richard van Wijk

List of Publications by Year
in descending order

78 papers	1,958 citations	304368 22 h-index	276539 41 g-index
78 all docs	78 docs citations	78 times ranked	2862 citing authors

#	Article	IF	Citations
1	The energy-less red blood cell is lost: erythrocyte enzyme abnormalities of glycolysis. Blood, 2005, 106, 4034-4042.	0.6	256
2	Squeezing for Life â€“ Properties of Red Blood Cell Deformability. Frontiers in Physiology, 2018, 9, 656.	1.3	213
3	A novel CBFA2 single-nucleotide mutation in familial platelet disorder with propensity to develop myeloid malignancies. Blood, 2001, 98, 2856-2858.	0.6	127
4	Red Blood Cells: Chasing Interactions. Frontiers in Physiology, 2019, 10, 945.	1.3	92
5	The fluid membrane determines mechanics of erythrocyte extracellular vesicles and is softened in hereditary spherocytosis. Nature Communications, 2018, 9, 4960.	5.8	79
6	Identification of a new VHL exon and complex splicing alterations in familial erythrocytosis or von Hippel-Lindau disease. Blood, 2018, 132, 469-483.	0.6	70
7	Ribosomal Protein Mutations Induce Autophagy through S6 Kinase Inhibition of the Insulin Pathway. PLoS Genetics, 2014, 10, e1004371.	1.5	58
8	Recommendations for diagnosis and treatment of methemoglobinemia. American Journal of Hematology, 2021, 96, 1666-1678.	2.0	56
9	Addressing the diagnostic gaps in pyruvate kinase deficiency: Consensus recommendations on the diagnosis of pyruvate kinase deficiency. American Journal of Hematology, 2019, 94, 149-161.	2.0	55
10	Disruption of a novel regulatory element in the erythroid-specific promoter of the human PKLR gene causes severe pyruvate kinase deficiency. Blood, 2003, 101, 1596-1602.	0.6	50
11	Rapid and reproducible characterization of sickling during automated deoxygenation in sickle cell disease patients. American Journal of Hematology, 2019, 94, 575-584.	2.0	47
12	Genotypeâ€phenotype correlation and molecular heterogeneity in pyruvate kinase deficiency. American Journal of Hematology, 2020, 95, 472-482.	2.0	47
13	AG-348 (Mitapivat), an allosteric activator of red blood cell pyruvate kinase, increases enzymatic activity, protein stability, and ATP levels over a broad range of PKLR genotypes. Haematologica, 2020, 106, 238-249.	1.7	45
14	The Complexity of Genotypeâ€Phenotype Correlations in Hereditary Spherocytosis: A Cohort of 95ÂPatients. HemaSphere, 2019, 3, e276.	1.2	43
15	Worldwide study of hematopoietic allogeneic stem cell transplantation in pyruvate kinase deficiency. Haematologica, 2018, 103, e82-e86.	1.7	42
16	Erythrocytosis associated with a novel missense mutation in the HIF2A gene. Haematologica, 2010, 95, 829-832.	1.7	35
17	Fifteen novel mutations inPKLRassociated with pyruvate kinase (PK) deficiency: Structural implications of amino acid substitutions in PK. Human Mutation, 2009, 30, 446-453.	1.1	33
18	The EPO-FGF23 Signaling Pathway in Erythroid Progenitor Cells: Opening a New Area of Research. Frontiers in Physiology, 2019, 10, 304.	1.3	33

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19	Severe Ankyrin-R deficiency results in impaired surface retention and lysosomal degradation of RhAG in human erythroblasts. Haematologica, 2016, 101, 1018-1027.	1.7	31
20	HK Utrecht: missense mutation in the active site of human hexokinase associated with hexokinase deficiency and severe nonspherocytic hemolytic anemia. Blood, 2003, 101, 345-347.	0.6	30
21	The variable manifestations of disease in pyruvate kinase deficiency and their management. Haematologica, 2020, 105, 2229-2239.	1.7	30
22	Density, heterogeneity and deformability of red cells as markers of clinical severity in hereditary spherocytosis. Haematologica, 2020, 105, 338-347.	1.7	27
23	Red blood cell phenotyping from 3D confocal images using artificial neural networks. PLoS Computational Biology, 2021, 17, e1008934.	1.5	26
24	Analysis of a cohort of 101 <scp>CDAII</scp> patients: description of 24 new molecular variants and genotypeâ€phenotype correlations. British Journal of Haematology, 2016, 175, 696-704.	1.2	25
25	PIEZO1 gain-of-function mutations delay reticulocyte maturation in hereditary xerocytosis. Haematologica, 2020, 105, e268-e271.	1.7	24
26	Hereditary Xerocytosis due to Mutations inPIEZO1Gene Associated with Heterozygous Pyruvate Kinase Deficiency and Beta-Thalassemia Trait in Two Unrelated Families. Case Reports in Hematology, 2017, 2017, 1-8.	0.3	22
27	Decreased activity and stability of pyruvate kinase in sickle cell disease: a novel target for mitapivat therapy. Blood, 2021, 137, 2997-3001.	0.6	22
28	Ex vivo analysis of aberrant splicing induced by two donor site mutations in PKLR of a patient with severe pyruvate kinase deficiency. British Journal of Haematology, 2004, 125, 253-263.	1.2	21
29	Oxygen gradient ektacytometryâ€derived biomarkers are associated with vasoâ€occlusive crises and correlate with treatment response in sickle cell disease. American Journal of Hematology, 2021, 96, E29-E32.	2.0	21
30	Safety and efficacy of mitapivat, an oral pyruvate kinase activator, in sickle cell disease: A phase 2, openâ€label study. American Journal of Hematology, 2022, 97, .	2.0	21
31	De novo variants in HK1 associated with neurodevelopmental abnormalities and visual impairment. European Journal of Human Genetics, 2019, 27, 1081-1089.	1.4	19
32	Methodological aspects of the oxygenscan in sickle cell disease: A need for standardization. American Journal of Hematology, 2020, 95, E5-E8.	2.0	18
33	Oxidative stress in sickle cell disease; more than a DAMP squib. Clinical Hemorheology and Microcirculation, 2018, 68, 239-250.	0.9	17
34	Loss-of-function zinc finger mutation in the EGLN1 gene associated with erythrocytosis. Blood, 2018, 132, 1455-1458.	0.6	15
35	Untargeted metabolic profiling in dried blood spots identifies disease fingerprint for pyruvate kinase deficiency. Haematologica, 2021, 106, 2720-2725.	1.7	14
36	Interplay of erythropoietin, fibroblast growth factor 23, and erythroferrone in patients with hereditary hemolytic anemia. Blood Advances, 2020, 4, 1678-1682.	2.5	13

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37	Mechanical Stress Induces Ca2+-Dependent Signal Transduction in Erythroblasts and Modulates Erythropoiesis. International Journal of Molecular Sciences, 2021, 22, 955.	1.8	13
38	Distinct phenotypic expression of two de novo missense mutations affecting the dimer interface of glucose-6-phosphate dehydrogenase. Blood Cells, Molecules, and Diseases, 2004, 32, 112-117.	0.6	12
39	Effects of Genotypes and Treatment on Oxygenscan Parameters in Sickle Cell Disease. Cells, 2021, 10, 811.	1.8	10
40	Methodological aspects of oxygen gradient ektacytometry in sickle cell disease: Effects of sample storage on outcome parameters in distinct patient subgroups. Clinical Hemorheology and Microcirculation, 2021, 77, 391-394.	0.9	10
41	Molecular characterization of six new cases of red blood cell hexokinase deficiency yields four novel mutations in HK1. Blood Cells, Molecules, and Diseases, 2016, 59, 71-76.	0.6	9
42	Characterization of Sickling During Controlled Automated Deoxygenation with Oxygen Gradient Ektacytometry. Journal of Visualized Experiments, 2019, , .	0.2	9
43	GATA-1 Defects in Diamondâ€“Blackfan Anemia: Phenotypic Characterization Points to a Specific Subset of Disease. Genes, 2022, 13, 447.	1.0	9
44	Novel Homozygous Mutation of the Internal Translation Initiation Start Site ofVHLis Exclusively Associated with Erythrocytosis: Indications for Distinct Functional Roles of von Hippel-Lindau Tumor Suppressor Isoforms. Human Mutation, 2015, 36, 1039-1042.	1.1	8
45	A Previously Unrecognized Ca²⁺â€inhibited Nonselective Cation Channel in Red Blood Cells. HemaSphere, 2018, 2, e146.	1.2	8
46	Iron overload in patients with rare hereditary hemolytic anemia: Evidenceâ€based suggestion on whom and how to screen. American Journal of Hematology, 2018, 93, E374-E376.	2.0	8
47	Red Blood Cell Membrane Conductance in Hereditary Haemolytic Anaemias. Frontiers in Physiology, 2019, 10, 386.	1.3	8
48	A Proposed Concept for Defective Mitophagy Leading to Late Stage Ineffective Erythropoiesis in Pyruvate Kinase Deficiency. Frontiers in Physiology, 2020, 11, 609103.	1.3	7
49	A Novel Mutation of Glucose Phosphate Isomerase (GPI) Causing Severe Neonatal Anemia Due to GPI Deficiency. Journal of Pediatric Hematology/Oncology, 2019, 41, e186-e189.	0.3	6
50	Impaired Cytoskeletal and Membrane Biophysical Properties of Acanthocytes in Hypobetalipoproteinemia â€“ A Case Study. Frontiers in Physiology, 2021, 12, 638027.	1.3	6
51	Pyruvate kinase deficiency and severe congenital hemolytic anemia in a double heterozygous patient with paternal transmission of an early germâ€line de novo mutation. American Journal of Hematology, 2015, 90, E217-9.	2.0	5
52	The Interplay between Drivers of Erythropoiesis and Iron Homeostasis in Rare Hereditary Anemias: Tipping the Balance. International Journal of Molecular Sciences, 2021, 22, 2204.	1.8	5
53	Binding of Erythrocyte ICAMâ€“4 to the Platelet Activated Integrin Î±IIbÎ²3 leads to a Direct Erythrocyte-Platelet Adhesion Under Venous Flow Shear Rate. Blood, 2012, 120, 105-105.	0.6	5
54	Proton pump inhibition for secondary hemochromatosis in hereditary anemia: a phase <scp>III</scp> placeboâ€controlled randomized crossâ€over clinical trial. American Journal of Hematology, 2022, 97, 924-932.	2.0	5

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55	Proteomics reveals reduced expression of transketolase in pyrimidine 5â€²â€nucleotidase deficient patients. Proteomics - Clinical Applications, 2016, 10, 859-869.	0.8	4
56	Dried blood spot metabolomics reveals a metabolic fingerprint with diagnostic potential for Diamond Blackfan Anaemia. British Journal of Haematology, 2021, 193, 1185-1193.	1.2	4
57	Safety and Efficacy of Mitapivat (AG-348), an Oral Activator of Pyruvate Kinase R, in Subjects with Sickle Cell Disease: A Phase 2, Open-Label Study (ESTIMATE). Blood, 2021, 138, 2047-2047.	0.6	4
58	Congenital Hemolytic Anemia Because of Glucose Phosphate Isomerase Deficiency: Identification of 2 Novel Missense Mutations in the GPI Gene. Journal of Pediatric Hematology/Oncology, 2020, 42, e696-e697.	0.3	3
59	Comparisons of oxygen gradient ektacytometry parameters between sickle cell patients with or without Î±â€thalassaemia. British Journal of Haematology, 2021, 195, 629-633.	1.2	3
60	Organ involvement occurs in all forms of hereditary haemolytic anaemia. British Journal of Haematology, 2019, 185, 602-605.	1.2	2
61	Rapid diagnosis of hereditary haemolytic anaemias using automated rheoscopy and supervised machine learning. British Journal of Haematology, 2020, 190, e250-e255.	1.2	2
62	Liver Iron Retention Estimated from Utilization of Oral and Intravenous Radioiron in Various Anemias and Hemochromatosis in Humans. International Journal of Molecular Sciences, 2020, 21, 1077.	1.8	2
63	Metabolic Fingerprint in Hereditary Spherocytosis Correlates With Red Blood Cell Characteristics and Clinical Severity. HemaSphere, 2021, 5, e591.	1.2	2
64	Facilitating EMA binding test performance using fluorescent beads combined with nextâ€generation sequencing. EJHaem, 2021, 2, 716-728.	0.4	2
65	Identification of Biomarkers That Are Associated with Clinical Complications of Hemoglobin SC Disease and Sickle Cell Anemia. Blood, 2021, 138, 962-962.	0.6	2
66	Editorial: Pathophysiology of Rare Hemolytic Anemias. Frontiers in Physiology, 2020, 11, 601746.	1.3	1
67	Rare Anemias: Are Their Names Just Smoke and Mirrors?. Frontiers in Physiology, 2021, 12, 690604.	1.3	1
68	The Oxygenscan: A Rapid and Reproducible Test to Determine Patient-Specific, Clinically Relevant Biomarkers of Disease Severity in Sickle Cell Anemia. Blood, 2018, 132, 2360-2360.	0.6	1
69	Tibetan Enriched PKLR Variant Is Beneficial to High Altitude Adaption By Improving Oxygen Delivery. Blood, 2018, 132, 1027-1027.	0.6	1
70	A Comprehensive Analysis of the Erythropoietin-erythroferrone-hepcidin Pathway in Hereditary Hemolytic Anemias. HemaSphere, 2021, 5, e627.	1.2	1
71	Summary of Joint European Hematology Association (EHA) and EuroBloodNet Recommendations on Diagnosis and Treatment of Methemoglobinemia. HemaSphere, 2021, 5, e660.	1.2	1
72	Infantile Pyknocytosis in a Premature Dichorionic Diamniotic Twin. Journal of Pediatric Hematology/Oncology, 2020, Publish Ahead of Print, e1037-e1039.	0.3	1

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73	Untargeted Metabolomic Fingerprinting As a Potential Tool in the Diagnostic Evaluation of Diamond Blackfan Anemia. Blood, 2020, 136, 7-8.	0.6	1
74	Editorial: New Methods for Red Blood Cell Research and Diagnosis. Frontiers in Physiology, 2021, 12, 755664.	1.3	0
75	GATA-1 Binding to Exon 1 Directs High Level Erythroid-Specific Expression of the Human Protoporphyrinogen Oxidase Gene.. Blood, 2005, 106, 1682-1682.	0.6	0
76	The Oxygenscan Provides Clinically Relevant Biomarkers for Treatment Efficacy That Are Associated with Frequency of Vaso-Occlusive Crisis in Sickle Cell Disease. Blood, 2019, 134, 2275-2275.	0.6	0
77	Red Cell Rheology Biomarkers to Assess Cure in Gene-Based Therapies. Blood, 2020, 136, 11-12.	0.6	0
78	Comment on: Oxygen gradient ektacytometry does not predict pain in children with sickle cell anaemia. British Journal of Haematology, 2022, , .	1.2	0