

# Jozsef Balla

## List of Publications by Year in descending order

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112  
papers

5,911  
citations

101543

36  
h-index

76900

74  
g-index

123  
all docs

123  
docs citations

123  
times ranked

7426  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pro-oxidant and cytotoxic effects of circulating heme. <i>Blood</i> , 2002, 100, 879-887.	1.4	549
2	Heme oxygenase-1 and carbon monoxide suppress the pathogenesis of experimental cerebral malaria. <i>Nature Medicine</i> , 2007, 13, 703-710.	30.7	488
3	Carbon Monoxide Generated by Heme Oxygenase-1 Suppresses the Rejection of Mouse-to-Rat Cardiac Transplants. <i>Journal of Immunology</i> , 2001, 166, 4185-4194.	0.8	440
4	Induction of heme oxygenase in toxic renal injury: A protective role in cisplatin nephrotoxicity in the rat. <i>Kidney International</i> , 1995, 48, 1298-1307.	5.2	242
5	Red Cells, Hemoglobin, Heme, Iron, and Atherogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 1347-1353.	2.4	200
6	Heme Degradation and Vascular Injury. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 233-248.	5.4	196
7	Heme, Heme Oxygenase, and Ferritin: How the Vascular Endothelium Survives (and Dies) in an Iron-Rich Environment. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 2119-2138.	5.4	174
8	A central role for free heme in the pathogenesis of severe malaria: the missing link?. <i>Journal of Molecular Medicine</i> , 2008, 86, 1097-1111.	3.9	172
9	Peroxisome Proliferator-activated Receptor $\beta$ -regulated ABCG2 Expression Confers Cytoprotection to Human Dendritic Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 23812-23823.	3.4	164
10	Proximal tubule H-ferritin mediates iron trafficking in acute kidney injury. <i>Journal of Clinical Investigation</i> , 2013, 123, 4423-4434.	8.2	161
11	Early-Onset Carotid Atherosclerosis Is Associated With Increased Intima-Media Thickness and Elevated Serum Levels of Inflammatory Markers. <i>Stroke</i> , 2003, 34, 58-63.	2.0	150
12	Once-Monthly Subcutaneous C.E.R.A. Maintains Stable Hemoglobin Control in Patients with Chronic Kidney Disease on Dialysis and Converted Directly from Epoetin One to Three Times Weekly. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2007, 2, 637-646.	4.5	126
13	Atherogenesis and iron: from epidemiology to cellular level. <i>Frontiers in Pharmacology</i> , 2014, 5, 94.	3.5	121
14	Ferritin ferroxidase activity: A potent inhibitor of osteogenesis. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 164-172.	2.8	114
15	Oxidized Hemoglobin Is an Endogenous Proinflammatory Agonist That Targets Vascular Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 29582-29595.	3.4	113
16	Heme, heme oxygenase and ferritin in vascular endothelial cell injury. <i>Molecular Nutrition and Food Research</i> , 2005, 49, 1030-1043.	3.3	111
17	Paracrine effects of mesenchymal stem cells in cisplatin-induced renal injury require heme oxygenase-1. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 300, F254-F262.	2.7	103
18	Iron overload inhibits osteogenic commitment and differentiation of mesenchymal stem cells via the induction of ferritin. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 1640-1649.	3.8	100

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19	Haem, haem oxygenase and ferritin in vascular endothelial cell injury. <i>Nephrology Dialysis Transplantation</i> , 2003, 18, 8v-12.	0.7	98
20	Red blood cell, hemoglobin and heme in the progression of atherosclerosis. <i>Frontiers in Physiology</i> , 2014, 5, 379.	2.8	94
21	Heme protein-mediated renal injury: A protective role for 21-aminosteroids in vitro and in vivo. <i>Kidney International</i> , 1995, 47, 592-602.	5.2	93
22	Hydrogen sulfide inhibits the calcification and osteoblastic differentiation of vascular smooth muscle cells. <i>Kidney International</i> , 2011, 80, 731-739.	5.2	82
23	Ferritin Prevents Calcification and Osteoblastic Differentiation of Vascular Smooth Muscle Cells. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 1254-1263.	6.1	79
24	Macrophage and epithelial cell H-ferritin expression regulates renal inflammation. <i>Kidney International</i> , 2015, 88, 95-108.	5.2	77
25	Ferritin Light Chain Confers Protection Against Sepsis-Induced Inflammation and Organ Injury. <i>Frontiers in Immunology</i> , 2019, 10, 131.	4.8	64
26	Inflammation and resistance to erythropoiesis-stimulating agents—what do we know and what needs to be clarified?. <i>Nephrology Dialysis Transplantation</i> , 2005, 20, viii2-viii7.	0.7	56
27	Suppression of hemin-mediated oxidation of low-density lipoprotein and subsequent endothelial reactions by hydrogen sulfide (H <sub>2</sub> S). <i>Free Radical Biology and Medicine</i> , 2009, 46, 616-623.	2.9	56
28	The Cellular Autophagy Markers Beclin-1 and LC3B-II are Increased During Reperfusion in Fibrillated Mouse Hearts. <i>Current Pharmaceutical Design</i> , 2013, 19, 6912-6918.	1.9	55
29	Dietary self-efficacy: determinant of compliance behaviours and biochemical outcomes in haemodialysis patients. <i>Nephrology Dialysis Transplantation</i> , 2003, 18, 1869-1873.	0.7	54
30	Heme, Heme Oxygenase, and Endoplasmic Reticulum Stress—A New Insight into the Pathophysiology of Vascular Diseases. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3675.	4.1	54
31	Heme oxygenase-1 related carbon monoxide production and ventricular fibrillation in isolated ischemic/reperfused mouse myocardium. <i>FASEB Journal</i> , 2003, 17, 1-21.	0.5	51
32	Effects of haemodialysis on maximum P wave duration and P wave dispersion. <i>Nephrology Dialysis Transplantation</i> , 2002, 17, 1634-1638.	0.7	48
33	Vitamin E, lipid profile, and peroxidation in hemodialysis patients. <i>Kidney International</i> , 2001, 59, S148-S154.	5.2	47
34	Natural History of the Bruise: Formation, Elimination, and Biological Effects of Oxidized Hemoglobin. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-9.	4.0	45
35	Atherogenesis May Involve the Prooxidant and Proinflammatory Effects of Ferryl Hemoglobin. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-13.	4.0	41
36	Atorvastatin prevents hypoxia-induced inhibition of endothelial nitric oxide synthase expression but does not affect heme oxygenase-1 in human microvascular endothelial cells. <i>Atherosclerosis</i> , 2006, 187, 26-30.	0.8	38

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37	The <i>Penicillium chrysogenum</i> -derived antifungal peptide shows no toxic effects on mammalian cells in the intended therapeutic concentration. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2005, 371, 122-132.	3.0	36
38	The antifungal protein AFP secreted by <i>Aspergillus giganteus</i> does not cause detrimental effects on certain mammalian cells. <i>Peptides</i> , 2006, 27, 1717-1725.	2.4	36
39	Hydrogen sulfide inhibits aortic valve calcification in heart via regulating RUNX2 by NF- $\kappa$ B, a link between inflammation and mineralization. <i>Journal of Advanced Research</i> , 2021, 27, 165-176.	9.5	36
40	Heme Oxygenase-1: Clinical Relevance in Ischemic Stroke. <i>Current Pharmaceutical Design</i> , 2018, 24, 2229-2235.	1.9	35
41	Should Soluble CD40 Ligand Be Measured From Serum or Plasma Samples?. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003, 23, 1129-1130.	2.4	32
42	Vitamin E, lipid profile, and peroxidation in hemodialysis patients. <i>Kidney International</i> , 2001, 59, 148-154.	5.2	32
43	Hemoglobin oxidation generates globin-derived peptides in atherosclerotic lesions and intraventricular hemorrhage of the brain, provoking endothelial dysfunction. <i>Laboratory Investigation</i> , 2020, 100, 986-1002.	3.7	31
44	Cardioprotective Effects of Sour Cherry Seed Extract (SCSE) on the Hypercholesterolemic Rabbit Heart. <i>Current Pharmaceutical Design</i> , 2013, 19, 6896-6905.	1.9	30
45	Zinc Inhibits HIF-Prolyl Hydroxylase Inhibitor-Aggravated VSMC Calcification Induced by High Phosphate. <i>Frontiers in Physiology</i> , 2019, 10, 1584.	2.8	30
46	Development of oxidative stress tolerance resulted in reduced ability to undergo morphologic transitions and decreased pathogenicity in at-butylhydroperoxide-tolerant mutant of <i>Candida albicans</i> . <i>FEMS Yeast Research</i> , 2007, 7, 834-847.	2.3	29
47	Hydrogen Sulfide Abrogates Hemoglobin-Lipid Interaction in Atherosclerotic Lesion. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-16.	4.0	29
48	Pharmacological induction of ferritin prevents osteoblastic transformation of smooth muscle cells. <i>Journal of Cellular and Molecular Medicine</i> , 2016, 20, 217-230.	3.6	28
49	Heme Induces Endoplasmic Reticulum Stress (HIER Stress) in Human Aortic Smooth Muscle Cells. <i>Frontiers in Physiology</i> , 2018, 9, 1595.	2.8	26
50	Relationship between Serum Nickel and Homocysteine Concentration in Hemodialysis Patients. <i>Biological Trace Element Research</i> , 2008, 124, 195-205.	3.5	25
51	Effects of tocopherols and 2,2- $\alpha$ -carboxyethyl hydroxylchromans on phorbol-ester-stimulated neutrophils. <i>Journal of Nutritional Biochemistry</i> , 2008, 19, 320-327.	4.2	24
52	Potential Role of H-Ferritin in Mitigating Valvular Mineralization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 413-431.	2.4	24
53	Serum Levels of Platelet Released CD40 Ligand Are Increased in Early Onset Occlusive Carotid Artery Disease. <i>Disease Markers</i> , 2006, 22, 133-140.	1.3	23
54	Heme-induced contractile dysfunction in Human cardiomyocytes caused by oxidant damage to thick filament proteins. <i>Free Radical Biology and Medicine</i> , 2015, 89, 248-262.	2.9	23

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55	The Issue of Renal Safety of Zoledronic Acid from a Nephrologist's Point of View. <i>Oncologist</i> , 2005, 10, 306-308.	3.7	22
56	Fungal siderophores function as protective agents of LDL oxidation and are promising anti-atherosclerotic metabolites in functional food. <i>Molecular Nutrition and Food Research</i> , 2008, 52, 1434-1447.	3.3	21
57	Endothelial cell activation is attenuated by everolimus via transcriptional and post-transcriptional regulatory mechanisms after drug-eluting coronary stenting. <i>PLoS ONE</i> , 2018, 13, e0197890.	2.5	19
58	Ferritin in Kidney and Vascular Related Diseases: Novel Roles for an Old Player. <i>Pharmaceuticals</i> , 2019, 12, 96.	3.8	19
59	Hydrogen sulfide inhibits calcification of heart valves; implications for calcific aortic valve disease. <i>British Journal of Pharmacology</i> , 2020, 177, 793-809.	5.4	19
60	Mutating heme oxygenase-1 into a peroxidase causes a defect in bilirubin synthesis associated with microcytic anemia and severe hyperinflammation. <i>Haematologica</i> , 2016, 101, e436-e439.	3.5	18
61	Oxidation of Hemoglobin Drives a Proatherogenic Polarization of Macrophages in Human Atherosclerosis. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 917-950.	5.4	16
62	Optimized angiotensin-converting enzyme activity assay for the accurate diagnosis of sarcoidosis. <i>Clinical Chemistry and Laboratory Medicine</i> , 2018, 56, 1117-1125.	2.3	15
63	Towards high siderophore content foods: optimisation of coprogen production in submerged cultures of <i>Penicillium nalgiovense</i> . <i>Journal of the Science of Food and Agriculture</i> , 2013, 93, 2221-2228.	3.5	14
64	Ferryl Hemoglobin Inhibits Osteoclastic Differentiation of Macrophages in Hemorrhaged Atherosclerotic Plaques. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-17.	4.0	14
65	Adverse Impact of Diet-Induced Hypercholesterolemia on Cardiovascular Tissue Homeostasis in a Rabbit Model: Time-Dependent Changes in Cardiac Parameters. <i>International Journal of Molecular Sciences</i> , 2013, 14, 19086-19108.	4.1	13
66	Changes in the SARS-CoV-2 cellular receptor ACE2 levels in cardiovascular patients: a potential biomarker for the stratification of COVID-19 patients. <i>GeroScience</i> , 2021, 43, 2289-2304.	4.6	13
67	Hyperleptinemia Is Not Responsible for Decreased Paraoxonase Activity in Hemodialysis Patients. <i>Nephron Clinical Practice</i> , 2006, 103, c114-c120.	2.3	12
68	Age-dependent parathormone levels and different CKD-MBD treatment practices of dialysis patients in Hungary - results from a nationwide clinical audit. <i>BMC Nephrology</i> , 2013, 14, 155.	1.8	12
69	Betamethasone augments the antifungal effect of menadione towards a novel anti- <i>Candida albicans</i> combination therapy. <i>Journal of Basic Microbiology</i> , 2015, 55, 973-981.	3.3	12
70	The Effects of Long-Term, Low- and High-Dose Beta-Carotene Treatment in Zucker Diabetic Fatty Rats: The Role of HO-1. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1132.	4.1	12
71	Upregulation of Myocardial and Vascular Phosphodiesterase 9A in A Model of Atherosclerotic Cardiovascular Disease. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2882.	4.1	11
72	Ethanol increases phosphate-mediated mineralization and osteoblastic transformation of vascular smooth muscle cells. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 2219-2226.	3.6	10

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73	Hemodialysis and hemodiafiltration differently modulate left ventricular diastolic function. <i>BMC Nephrology</i> , 2013, 14, 76.	1.8	10
74	Novel Functional Changes during Podocyte Differentiation: Increase of Oxidative Resistance and H-Ferritin Expression. <i>Oxidative Medicine and Cellular Longevity</i> , 2014, 2014, 1-11.	4.0	10
75	Successful Practice Transitioning Between Hemodialysis and Hemodiafiltration in Outpatient Units: Ten Key Issues for Physicians to Remember. <i>Artificial Organs</i> , 2018, 42, 925-932.	1.9	9
76	Hemodiafiltration beneficially affects QT interval duration and dispersion compared to hemodialysis. <i>Clinical and Experimental Nephrology</i> , 2014, 18, 952-959.	1.6	8
77	Optimization of desferrioxamine E production by <i>Streptomyces parvulus</i> . <i>Acta Microbiologica Et Immunologica Hungarica</i> , 2016, 63, 475-489.	0.8	8
78	Relapsing polychondritis with p-ANCA associated vasculitis: Which triggers the other?. <i>World Journal of Clinical Cases</i> , 2014, 2, 912.	0.8	8
79	Histamine and H1-histamine receptors faster venous circulation. <i>Journal of Cellular and Molecular Medicine</i> , 2011, 15, 2614-2623.	3.6	7
80	Prognosis of Dialysed Patients after Kidney Transplant Failure. <i>Kidney and Blood Pressure Research</i> , 2013, 37, 151-157.	2.0	7
81	Hemodiafiltration and hemodialysis differently affect P wave duration and dispersion on the surface electrocardiogram. <i>International Urology and Nephrology</i> , 2016, 48, 271-277.	1.4	7
82	Use of Hemadsorption in a Case of Pediatric Toxic Shock Syndrome. <i>Case Reports in Critical Care</i> , 2017, 2017, 1-5.	0.4	7
83	Murine model to follow hyphal development in invasive pulmonary aspergillosis. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 2817-2825.	3.6	7
84	Changes in serum afamin and vitamin E levels after selective LDL apheresis. <i>Journal of Clinical Apheresis</i> , 2018, 33, 569-575.	1.3	7
85	The Fungal Iron Chelator Desferricoprogen Inhibits Atherosclerotic Plaque Formation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4746.	4.1	7
86	Ibrutinib-induced acute kidney injury via interstitial nephritis. <i>Renal Failure</i> , 2021, 43, 335-339.	2.1	7
87	Heme Oxygenase-1 Contributes to Both the Engulfment and the Anti-Inflammatory Program of Macrophages during Efferocytosis. <i>Cells</i> , 2021, 10, 652.	4.1	7
88	Optimization of triacetylfusarinine C and ferricrocin productions in <i>Aspergillus fumigatus</i> . <i>Acta Microbiologica Et Immunologica Hungarica</i> , 2014, 61, 107-119.	0.8	6
89	Impact of selective LDL apheresis on serum chemerin levels in patients with hypercholesterolemia. <i>Lipids in Health and Disease</i> , 2016, 15, 182.	3.0	6
90	Therapeutic Potential of Carbon Monoxide (CO) and Hydrogen Sulfide (H <sub>2</sub> S) in Hemolytic and Hemorrhagic Vascular Disorders—Interaction between the Heme Oxygenase and H <sub>2</sub> S-Producing Systems. <i>International Journal of Molecular Sciences</i> , 2021, 22, 47.	4.1	6

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91	Elevated white blood cell count, CRP and fibrinogen levels are not associated with increased anti-endothelial and anti-ox-LDL antibody, MCP-1, and RANTES levels in early onset occlusive carotid artery disease. <i>Cytokine</i> , 2007, 37, 44-50.	3.2	5
92	Homocysteine metabolism in peripheral blood mononuclear cells: evidence for cystathionine beta-synthase activity in resting state. <i>Amino Acids</i> , 2012, 43, 317-326.	2.7	5
93	Effects of hemin, CO <sub>2</sub> , and pH on the branching of <i>Candida albicans</i> filamentous forms. <i>Acta Microbiologica Et Immunologica Hungarica</i> , 2016, 63, 387-403.	0.8	5
94	Haemodiafiltration elicits less platelet activation compared to haemodialysis. <i>BMC Nephrology</i> , 2016, 17, 147.	1.8	5
95	Terminal Phase Components of the Clotting Cascade in Patients with End-Stage Renal Disease Undergoing Hemodiafiltration or Hemodialysis Treatment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8426.	4.1	5
96	Heme-Induced Oxidation of Cysteine Groups of Myofilament Proteins Leads to Contractile Dysfunction of Permeabilized Human Skeletal Muscle Fibres. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8172.	4.1	5
97	Heme cytotoxicity is the consequence of endoplasmic reticulum stress in atherosclerotic plaque progression. <i>Scientific Reports</i> , 2021, 11, 10435.	3.3	5
98	Cardioprotective Role of BGP-15 in Ageing Zucker Diabetic Fatty Rat (ZDF) Model: Extended Mitochondrial Longevity. <i>Pharmaceutics</i> , 2022, 14, 226.	4.5	5
99	Negative Inotropic Effect of BGP-15 on the Human Right Atrial Myocardium. <i>Journal of Clinical Medicine</i> , 2020, 9, 1434.	2.4	4
100	BGP-15 Inhibits Hyperglycemia-Aggravated VSMC Calcification Induced by High Phosphate. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9263.	4.1	4
101	Identification of sulfhemoglobinemia after surgical polypectomy. <i>Clinical Toxicology</i> , 2007, 45, 189-192.	1.9	3
102	Impaired Immunosuppressive Effect of Bronchoalveolar Mesenchymal Stem Cells in Hypersensitivity Pneumonitis: Preliminary Findings. <i>Cytometry Part B - Clinical Cytometry</i> , 2018, 94, 363-368.	1.5	3
103	A novel splice site indel alteration in the EIF2AK3 gene is responsible for the first cases of Wolcott-Rallison syndrome in Hungary. <i>BMC Medical Genetics</i> , 2020, 21, 61.	2.1	3
104	Ferryl Hemoglobin and Heme Induce A1-Microglobulin in Hemorrhaged Atherosclerotic Lesions with Inhibitory Function against Hemoglobin and Lipid Oxidation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6668.	4.1	3
105	Heme Burden and Ensuing Mechanisms That Protect the Kidney: Insights from Bench and Bedside. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8174.	4.1	3
106	Iron Metabolism and Oxidative Stress. , 2011, , 205-228.		2
107	Measurements for Sulfide-Mediated Inhibition of Myeloperoxidase Activity. <i>Methods in Molecular Biology</i> , 2019, 2007, 179-203.	0.9	1
108	P0212IMMUNOSUPPRESSIVE TREATMENT OF PATIENTS WITH ANCA ASSOCIATED VASCULITIS (AAV) IN CHRONIC DIALYSIS PROGRAM. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, .	0.7	1

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109	Validation of a prognostic function for renal transplant recipients in Hungary. Journal of Nephrology, 2011, 24, 619-624.	2.0	1
110	Serum Total LDH Activity and LDH-2 Isozyme in Nephrotic Syndrome. Kidney and Blood Pressure Research, 2008, 31, 47-54.	2.0	0
111	P0508NEPHROTIC SYNDROME DUE TO HEAVY AND LIGHT CHAIN (AHL) AMYLOIDOSIS. Nephrology Dialysis Transplantation, 2020, 35, .	0.7	0
112	A Reproducible Mouse Model of Moderate CKD With Early Manifestations of Osteoblastic Transition of Cardiovascular System. Frontiers in Physiology, 2022, 13, 897179.	2.8	0