

Norbert Nemeth

List of Publications by Year in descending order

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111
papers

1,626
citations

430442

18
h-index

344852

36
g-index

116
all docs

116
docs citations

116
times ranked

1530
citing authors

#	ARTICLE	IF	CITATIONS
1	New guidelines for hemorheological laboratory techniques. <i>Clinical Hemorheology and Microcirculation</i> , 2009, 42, 75-97.	0.9	390
2	Parameterization of red blood cell elongation index $\hat{\epsilon}$ shear stress curves obtained by ektacytometry. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2009, 69, 777-788.	0.6	121
3	Comparison of three commercially available ektacytometers with different shearing geometries. <i>Biorheology</i> , 2009, 46, 251-264.	1.2	74
4	Sepsis-associated encephalopathy: A review of literature. <i>Neurology India</i> , 2018, 66, 352.	0.2	58
5	Effects of storage duration and temperature of human blood on red cell deformability and aggregation. <i>Clinical Hemorheology and Microcirculation</i> , 2009, 41, 269-278.	0.9	50
6	Comparison of three instruments for measuring red blood cell aggregation. <i>Clinical Hemorheology and Microcirculation</i> , 2009, 43, 283-298.	0.9	46
7	Learning microsurgical suturing and knotting techniques: comparative data. <i>Microsurgery</i> , 2006, 26, 4-7.	0.6	37
8	Influence of moderate and profound hyperventilation on cerebral blood flow, oxygenation and metabolism. <i>Brain Research</i> , 2004, 1019, 113-123.	1.1	36
9	Defining Standards in Experimental Microsurgical Training: Recommendations of the European Society for Surgical Research (ESSR) and the International Society for Experimental Microsurgery (ISEM). <i>European Surgical Research</i> , 2017, 58, 246-262.	0.6	32
10	Inter-species differences in hematocrit to blood viscosity ratio. <i>Biorheology</i> , 2009, 46, 155-165.	1.2	31
11	Interpretation of osmotic gradient ektacytometry (osmoscan) data: A comparative study for methodological standards. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2015, 75, 213-222.	0.6	29
12	Usage of Ultraviolet Test Method for Monitoring the Efficacy of Surgical Hand Rub Technique Among Medical Students. <i>Journal of Surgical Education</i> , 2015, 72, 530-535.	1.2	24
13	Gender differences of blood rheological parameters in laboratory animals. <i>Clinical Hemorheology and Microcirculation</i> , 2010, 45, 263-272.	0.9	23
14	Effects and influencing factors on hemorheological variables taken into consideration in surgical pathophysiology research. <i>Clinical Hemorheology and Microcirculation</i> , 2018, 69, 133-140.	0.9	23
15	Spleen autotransplantation. Morphological and functional follow-up after spleen autotransplantation in mice: A research summary. <i>Microsurgery</i> , 2007, 27, 312-316.	0.6	22
16	Hemorheological changes in ischemia-reperfusion: An overview on our experimental surgical data. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 57, 215-225.	0.9	22
17	Hemorheological and Microcirculatory Factors in Liver Ischemia-Reperfusion Injury – An Update on Pathophysiology, Molecular Mechanisms and Protective Strategies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1864.	1.8	21
18	New Insights into the Neuromuscular Anatomy of the Ileocecal Valve. <i>Anatomical Record</i> , 2009, 292, 254-261.	0.8	20

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19	Allopurinol Prevents Erythrocyte Deformability Impairing but Not the Hematological Alterations After Limb Ischemiaâ€“Reperfusion in Rats. <i>Journal of Investigative Surgery</i> , 2006, 19, 47-56.	0.6	18
20	Hemorheological follow-up after splenectomy and spleen autotransplantation in mice. <i>Microsurgery</i> , 2006, 26, 38-42.	0.6	16
21	Intestinal ischemia-reperfusion leads to early systemic micro-rheological and multiorgan microcirculatory alterations in the rat. <i>Clinical Hemorheology and Microcirculation</i> , 2018, 68, 35-44.	0.9	15
22	Hemorheological, morphological, and oxidative changes during ischemiaâ€“reperfusion of latissimus dorsi muscle flaps in a canine model. <i>Microsurgery</i> , 2010, 30, 282-288.	0.6	14
23	Early hemorheological changes in a porcine model of intravenously given <i>E. coli</i> induced fulminant sepsis. <i>Clinical Hemorheology and Microcirculation</i> , 2016, 61, 479-496.	0.9	14
24	Hematological, hemorheological, immunological, and morphological studies of spleen autotransplantation in mice: Preliminary results. <i>Microsurgery</i> , 2003, 23, 483-488.	0.6	12
25	Temperature gradient between brain tissue and arterial blood mirrors the flowâ€“metabolism relationship in uninjured brain: an experimental study. <i>Acta Anaesthesiologica Scandinavica</i> , 2007, 51, 872-879.	0.7	12
26	Concerning the importance of changes in hemorheological parameters caused by acid-base and blood gas alterations in experimental surgical models. <i>Clinical Hemorheology and Microcirculation</i> , 2012, 51, 43-50.	0.9	12
27	Interspecies diversity of erythrocyte mechanical stability at various combinations in magnitude and duration of shear stress, and osmolality. <i>Clinical Hemorheology and Microcirculation</i> , 2016, 63, 381-398.	0.9	12
28	How does practice improve the skills of medical students during consecutive training courses?. <i>Acta Cirurgica Brasileira</i> , 2017, 32, 491-502.	0.3	12
29	Distribution of peripheral blood cells in mice after splenectomy or autotransplantation. <i>Microsurgery</i> , 2006, 26, 43-49.	0.6	11
30	Changes of local and systemic hemorheological properties in intestinal ischemiaâ€“reperfusion injury in the rat model. <i>Microsurgery</i> , 2010, 30, 321-326.	0.6	11
31	Hemorheological consequences of hind limb ischemia-reperfusion differs in normal and gonadectomized male and female rats. <i>Clinical Hemorheology and Microcirculation</i> , 2012, 50, 197-211.	0.9	11
32	Early postoperative changes in hematological, erythrocyte aggregation and blood coagulation parameters after unilateral implantation of polytetrafluoroethylene vascular graft in the femoral artery of beagle dogs. <i>Acta Cirurgica Brasileira</i> , 2014, 29, 320-327.	0.3	11
33	Transplantation and microsurgical anastomosis of free omental grafts: Experimental animal model of a new operative technique in dogs. <i>Microsurgery</i> , 2003, 23, 414-418.	0.6	10
34	Hemorheological changes caused by intermittent Pringle (Baron) maneuver in beagle canine model. <i>Clinical Hemorheology and Microcirculation</i> , 2008, 40, 177-189.	0.9	10
35	The effect of centrifugation at various g force levels on rheological properties of rat, dog, pig and human red blood cells. <i>Clinical Hemorheology and Microcirculation</i> , 2016, 62, 215-227.	0.9	10
36	Characteristics of thrombin generation in a fulminant porcine sepsis model. <i>Thrombosis Research</i> , 2017, 158, 25-34.	0.8	10

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37	Effects of aging and gender on micro-rheology of blood in 3 to 18 months old male and female Wistar (CrI:WI) rats. <i>Biorheology</i> , 2018, 54, 127-140.	1.2	10
38	Hemorheological and metabolic consequences of renal ischemia-reperfusion and their modulation by N,N-dimethyl-tryptamine on a rat model. <i>Clinical Hemorheology and Microcirculation</i> , 2018, 70, 107-117.	0.9	10
39	Comparative osmotic gradient ektacytometry data on inter-species differences of experimental animals. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 57, 1-8.	0.9	9
40	Red blood cell and platelet parameters are sepsis predictors in an Escherichia coli induced lethal porcine model. <i>Clinical Hemorheology and Microcirculation</i> , 2017, 66, 249-259.	0.9	9
41	Age- and gender-related hemorheological alterations in intestinal ischemia-reperfusion in the rat. <i>Journal of Surgical Research</i> , 2018, 225, 68-75.	0.8	9
42	Beneficial effects of remote organ ischemic preconditioning on micro-rheological parameters during liver ischemia-reperfusion in the rat. <i>Clinical Hemorheology and Microcirculation</i> , 2018, 70, 181-190.	0.9	9
43	N,N-dimethyltryptamine Prevents Renal Ischemia-Reperfusion Injury in a Rat Model. <i>Transplantation Proceedings</i> , 2019, 51, 1268-1275.	0.3	9
44	Alterations of Selected Hemorheological and Metabolic Parameters Induced by Physical Activity in Untrained Men and Sportsmen. <i>Metabolites</i> , 2021, 11, 870.	1.3	9
45	Changes in microcirculation after ischemic process in rat skeletal muscle. <i>Microsurgery</i> , 2003, 23, 419-423.	0.6	8
46	Hydrostatic Characteristics of the Ileocolic Valve and Intussuscepted Nipple Valves: An Animal Model. <i>Journal of Investigative Surgery</i> , 2005, 18, 185-191.	0.6	8
47	Early systemic effects of hind limb ischemia-reperfusion on hemodynamics and acid-base balance in the rat. <i>Microsurgery</i> , 2006, 26, 585-589.	0.6	8
48	Morphological, hemodynamical and hemorheological changes of mature artificial saphenous arterio-venous shunts in the rat model. <i>Microsurgery</i> , 2010, 30, 649-656.	0.6	8
49	Splenic function and red blood cell deformability: The beneficial effects of spleen autotransplantation in animal experiments. <i>Clinical Hemorheology and Microcirculation</i> , 2010, 45, 281-288.	0.9	8
50	Renal ischemia-reperfusion-induced metabolic and micro-rheological alterations and their modulation by remote organ ischemic preconditioning protocols in the rat. <i>Clinical Hemorheology and Microcirculation</i> , 2019, 71, 225-236.	0.9	8
51	Morphological and microcirculatory evaluation of the rat testis after detorsion with or without a capsular release with a tunica vaginalis flap. <i>Asian Journal of Andrology</i> , 2016, 18, 462.	0.8	8
52	Effect of lanthanides on red blood cell deformability and response to mechanical stress: Role of lanthanide ionic radius. <i>Biorheology</i> , 2011, 48, 173-183.	1.2	7
53	Aorto-porto-caval micro-rheological differences of red blood cells in laboratory rats: Further deformability and ektacytometrial osmoscan data. <i>Clinical Hemorheology and Microcirculation</i> , 2013, 53, 217-229.	0.9	7
54	Simultaneous investigation of hemodynamic, microcirculatory and arterio-venous micro-rheological parameters in infrarenal or suprarenal aortic cross-clamping model in the rat. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 57, 339-353.	0.9	7

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55	Skin microcirculatory changes reflect early the circulatory deterioration in a fulminant sepsis model in the pig. <i>Acta Cirurgica Brasileira</i> , 2015, 30, 470-477.	0.3	7
56	Comparative erythrocyte deformability investigations by filtrometry, slit-flow andÂrotational ektacytometry in a long-term follow-up animal study on splenectomy andÂdifferent spleen preserving operative techniques: Partial or subtotal spleen resection and spleen autotransplantation. <i>Clinical Hemorheology and Microcirculation</i> , 2017, 66, 83-96.	0.9	7
57	Interspecies Diversity of Osmotic Gradient Deformability of Red Blood Cells in Human and Seven Vertebrate Animal Species. <i>Cells</i> , 2022, 11, 1351.	1.8	7
58	Following-up hemorheological consequences of gonadectomy in male and female rats. <i>Clinical Hemorheology and Microcirculation</i> , 2012, 50, 231-243.	0.9	6
59	Effects of various drugs (flunixin, pentoxifylline, enoxaparin) modulating micro-rheological changes in cerulein-induced acute pancreatitis in the rat. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 57, 303-314.	0.9	6
60	Impact of groin flap ischemia-reperfusion on red blood cell micro-rheological parameters in a follow-up study on rats. <i>Clinical Hemorheology and Microcirculation</i> , 2017, 79, 1-11.	0.9	6
61	Carotid-Jugular Fistula Model to Study Systemic Effects and Fistula-Related Microcirculatory Changes. <i>Journal of Vascular Research</i> , 2018, 55, 268-277.	0.6	6
62	Changes of Hematological and Hemorheological Parameters in Rabbits with Hypercholesterolemia. <i>Metabolites</i> , 2021, 11, 249.	1.3	6
63	Hematological and hemostaseological alterations after warm and cold limb ischemia-reperfusion in a canine model. <i>Acta Cirurgica Brasileira</i> , 2009, 24, 338-346.	0.3	6
64	Micro-rheological changes during experimental acute pancreatitis in the rat. <i>Clinical Hemorheology and Microcirculation</i> , 2012, 51, 255-264.	0.9	5
65	Long-term following-up of viability of spleen autotransplants in the Beagle canine model. <i>Acta Cirurgica Brasileira</i> , 2012, 27, 95-101.	0.3	5
66	Hemorheological factors can be informative in comparing treatment possibilities ofÂabdominal compartment syndrome. <i>Clinical Hemorheology and Microcirculation</i> , 2017, 64, 765-775.	0.9	5
67	Pressure Distribution during Negative Pressure Wound Therapy of Experimental Abdominal Compartment Syndrome in a Porcine Model. <i>Sensors</i> , 2018, 18, 897.	2.1	5
68	Is the early or delayed remote ischemic preconditioning the more effective from a microcirculatory and histological point of view in a rat model of partial liver ischemia-reperfusion?. <i>Acta Cirurgica Brasileira</i> , 2018, 33, 597-608.	0.3	5
69	Examination of the relation between red blood cell aggregation and hematocrit in human and various experimental animals. <i>Clinical Hemorheology and Microcirculation</i> , 2021, 78, 1-12.	0.9	5
70	In vitro effects of temperature on red blood cell deformability and membrane stability in human and various vertebrate species. <i>Clinical Hemorheology and Microcirculation</i> , 2021, 78, 291-300.	0.9	5
71	Educational and research activity of the Department of Operative Techniques and Surgical Research, Institute of Surgery at the Medical and Health Science Center, University of Debrecen in Hungary. <i>Acta Cirurgica Brasileira</i> , 2013, 28, 403-406.	0.3	5
72	Endothelin-1 and cerebral blood flow in a porcine model. <i>Journal of Clinical Neuroscience</i> , 2007, 14, 650-657.	0.8	4

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73	Testicular ischemia-reperfusion may alter micro-rheological parameters in laboratory rats. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 57, 243-253.	0.9	4
74	Intra and postoperative evaluations of microcirculation and micro-rheological parameters in a rat model of musculocutaneous flap ischemia-reperfusion. <i>Acta Cirurgica Brasileira</i> , 2015, 30, 551-560.	0.3	4
75	Assessment of cerebral circulation in a porcine model of intravenously given E. coli induced fulminant sepsis. <i>BMC Anesthesiology</i> , 2017, 17, 98.	0.7	4
76	Which remote ischemic preconditioning protocol is favorable in renal ischemia-reperfusion injury in the rat?. <i>Clinical Hemorheology and Microcirculation</i> , 2020, 76, 439-451.	0.9	4
77	Biomechanical comparison of microvascular anastomoses prepared by various suturing techniques. <i>Injury</i> , 2020, 51, 2866-2873.	0.7	4
78	In Vitro and In Vivo Studies of a Verapamil-Containing Gastroretentive Solid Foam Capsule. <i>Pharmaceutics</i> , 2022, 14, 350.	2.0	4
79	A new concept for esophageal resection "prevascularization: an experimental study. <i>Ecological Management and Restoration</i> , 2005, 18, 274-280.	0.2	3
80	Frontiers in Experimental Microsurgery: The 7th Congress of the International Society for Experimental Microsurgery, Debrecen, Hungary, September 1-4, 2004. <i>Microsurgery</i> , 2006, 26, 1-3.	0.6	3
81	Examination of aggregation of various red blood cell populations can be informative in comparison of splenectomy and spleen autotransplantation in animal experiments. <i>Clinical Hemorheology and Microcirculation</i> , 2010, 45, 273-280.	0.9	3
82	A modified microsurgical model for end-to-side selective portacaval shunt in the rat: intraoperative microcirculatory investigations. <i>Acta Cirurgica Brasileira</i> , 2013, 28, 625-631.	0.3	3
83	The investigation of interspecies diversity of erythrocyte aggregation properties by two different photometric methods in four animal species. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2015, 99, 1074-1083.	1.0	3
84	Changes of red blood cell aggregation parameters in a long-term follow-up of splenectomy, spleen-autotransplantation and partial or subtotal spleen resections in a canine model. <i>Clinical Hemorheology and Microcirculation</i> , 2017, 67, 91-100.	0.9	3
85	Experiences with basic microsurgical training programs and skill assessment methods at the University of Debrecen, Hungary. <i>Acta Cirurgica Brasileira</i> , 2018, 33, 842-852.	0.3	3
86	Microrheology, microcirculation and structural compensatory mechanisms of a chronic kidney disease rat model. A preliminary study. <i>Clinical Hemorheology and Microcirculation</i> , 2019, 75, 1-10.	0.9	3
87	Measurement of erythrocyte deformability and methodological adaptation for small-animal microsurgical models. <i>Microsurgery</i> , 2006, 26, 33-37.	0.6	2
88	Microsurgery and music: Parallel ideas and philosophy?. <i>Microsurgery</i> , 2007, 27, 155-157.	0.6	2
89	Effect of tourniquet application during blood sampling on RBC deformability and aggregation: Is it better to keep it on?. <i>Clinical Hemorheology and Microcirculation</i> , 2009, 42, 297-302.	0.9	2
90	Species-specific effects of anticoagulants on red blood cell deformability. <i>Clinical Hemorheology and Microcirculation</i> , 2009, 43, 257-259.	0.9	2

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91	Effects of allopurinol and preconditioning on apoptosis due to ischemia-reperfusion on a double jejunum-segment canine model. <i>Acta Cirurgica Brasileira</i> , 2011, 26, 186-193.	0.3	2
92	Following-up changes in red blood cell deformability and membrane stability in the presence of PTFE graft implanted into the femoral artery in a canine model. <i>Korea Australia Rheology Journal</i> , 2014, 26, 209-215.	0.7	2
93	Tribute to the "Father" of experimental microsurgery, Professor Sun Lee (1920-2015). <i>Microsurgery</i> , 2016, 36, 97-98.	0.6	2
94	Rheopheresis treatment of diabetic foot syndrome. <i>Atherosclerosis</i> , 2017, 263, e272.	0.4	2
95	Microcontroller-based vein testing system. , 2017, , .		2
96	Modulation of micro-rheological and hematological parameters in the presence of artificial carotid-jugular fistula in rats. <i>Clinical Hemorheology and Microcirculation</i> , 2019, 71, 325-335.	0.9	2
97	Microsurgery training during COVID-19 pandemic: Practical recommendations from the International Society for Experimental Microsurgery and International Microsurgery Simulation Society. <i>Microsurgery</i> , 2021, 41, 398-400.	0.6	2
98	Beneficial postoperative micro-rheological effects of intraoperative administration of diclophenac or ischemic preconditioning in patients with lower extremity operations "Preliminary data. <i>Clinical Hemorheology and Microcirculation</i> , 2021, , 1-9.	0.9	2
99	Effect of short-term ischemia on microcirculation and wound healing of adipocutaneous flaps in the rat. <i>Acta Cirurgica Brasileira</i> , 2019, 34, e201901203.	0.3	2
100	Hematological, Micro-Rheological, and Metabolic Changes Modulated by Local Ischemic Pre- and Post-Conditioning in Rat Limb Ischemia-Reperfusion. <i>Metabolites</i> , 2021, 11, 776.	1.3	2
101	Heterogeneous Maturation of Arterio-Venous Fistulas and Loop-Shaped Venous Interposition Grafts: A Histological and 3D Flow Simulation Comparison. <i>Biomedicines</i> , 2022, 10, 1508.	1.4	2
102	Blood stream in the art: Thoughts on music and hemorheology. <i>Clinical Hemorheology and Microcirculation</i> , 2009, 41, 221-227.	0.9	1
103	Crossroads in experimental microsurgery: A preface to the special issue of the 9th Congress of the International Society for Experimental Microsurgery. <i>Microsurgery</i> , 2010, 30, 253-255.	0.6	1
104	Application of leukocyte antisedimentation rate calculation in investigation of spleen salvaging experimental surgical techniques. <i>Clinical Hemorheology and Microcirculation</i> , 2010, 45, 289-294.	0.9	1
105	Micro-Rheological Changes of Red Blood Cells in the Presence of an Arterio-Venous Fistula or a Loop-Shaped Venous Graft in the Rat. <i>Frontiers in Physiology</i> , 2020, 11, 616528.	1.3	1
106	The effect of rheopheresis treatment on the cytokine profile in diabetic foot syndrome with hyperviscosity in the aspect of clinical changes: A preliminary study. <i>Clinical Hemorheology and Microcirculation</i> , 2021, , 1-9.	0.9	1
107	Estradiol Valerate Affects Hematological and Hemorheological Parameters in Rats. <i>Metabolites</i> , 2022, 12, 602.	1.3	1
108	Early micro-rheological consequences of single fraction total body low-dose photon irradiation in mice. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 57, 227-242.	0.9	0

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109	Experiences and concerns on teaching basics of hemorheology at the Department of Operative Techniques and Surgical Research in Debrecen, Hungary. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 58, 555-558.	0.9	0
110	THE common denominator is microsurgery. <i>Microsurgery</i> , 2014, 34, 337-338.	0.6	0
111	Hemodynamic consequences of intravenously given E. coli suspension: observations in a fulminant sepsis model in pigs, a descriptive caseâ€“control study. <i>European Journal of Medical Research</i> , 2019, 24, 11.	0.9	0