

Waniewski Jacek

List of Publications by Year in descending order

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74
papers

1,247
citations

430442

18
h-index

414034

32
g-index

75
all docs

75
docs citations

75
times ranked

586
citing authors

#	ARTICLE	IF	CITATIONS
1	Peritoneal transport in CAPD patients with permanent loss of ultrafiltration capacity. <i>Kidney International</i> , 1990, 38, 495-506.	2.6	314
2	Osmotic Conductance of the Peritoneum in Capd Patients with Permanent Loss of Ultrafiltration Capacity. <i>Peritoneal Dialysis International</i> , 1996, 16, 488-496.	1.1	50
3	Methods for Estimation of Peritoneal Dialysate Volume and Reabsorption Rate Using Macromolecular Markers. <i>Peritoneal Dialysis International</i> , 1994, 14, 8-16.	1.1	46
4	Theoretical Description of Mass Transport in Medical Membrane Devices. <i>Artificial Organs</i> , 1995, 19, 420-427.	1.0	43
5	Hyaluronan prevents the decreased net ultrafiltration caused by increased peritoneal dialysate fill volume. <i>Kidney International</i> , 1998, 53, 496-502.	2.6	37
6	Paradoxes in Peritoneal Transport of Small Solutes. <i>Peritoneal Dialysis International</i> , 1996, 16, 63-70.	1.1	35
7	Distributed modeling of osmotically driven fluid transport in peritoneal dialysis: theoretical and computational investigations. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H1960-H1968.	1.5	30
8	Transcapillary Refilling Rate and Its Determinants during Haemodialysis with Standard and High Ultrafiltration Rates. <i>American Journal of Nephrology</i> , 2019, 50, 133-143.	1.4	29
9	Peritoneal Transport in Peritoneal Dialysis Patients Using Glucose-Based and Amino Acid-Based Solutions. <i>Peritoneal Dialysis International</i> , 2007, 27, 544-553.	1.1	27
10	Alterations of peritoneal transport characteristics in dialysis patients with ultrafiltration failure: tissue and capillary components. <i>Nephrology Dialysis Transplantation</i> , 2019, 34, 864-870.	0.4	27
11	Phosphate, urea and creatinine clearances: haemodialysis adequacy assessed by weekly monitoring. <i>Nephrology Dialysis Transplantation</i> , 2015, 30, 129-136.	0.4	26
12	Theoretical and Numerical Analysis of Different Adequacy Indices for Hemodialysis and Peritoneal Dialysis. <i>Blood Purification</i> , 2006, 24, 355-366.	0.9	23
13	Subject-specific pulse wave propagation modeling: Towards enhancement of cardiovascular assessment methods. <i>PLoS ONE</i> , 2018, 13, e0190972.	1.1	23
14	Bidirectional Solute Transport in Peritoneal Dialysis. <i>Peritoneal Dialysis International</i> , 1994, 14, 327-337.	1.1	22
15	Peritoneal Fluid Transport in CAPD Patients with Different Transport Rates of Small Solutes. <i>Peritoneal Dialysis International</i> , 2004, 24, 240-251.	1.1	22
16	Kinetic Analysis of Peritoneal Fluid and Solute Transport with Combination of Glucose and Icodextrin as Osmotic Agents. <i>Peritoneal Dialysis International</i> , 2009, 29, 72-80.	1.1	21
17	Distributed Modeling of Diffusive Solute Transport in Peritoneal Dialysis. <i>Annals of Biomedical Engineering</i> , 2002, 30, 1181-1195.	1.3	20
18	Changes in Free Water Fraction and Aquaporin Function With Dwell Time During Continuous Ambulatory Peritoneal Dialysis. <i>Artificial Organs</i> , 2010, 34, 1138-1143.	1.0	19

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19	Can the Diverse Family of Dialysis Adequacy Indices Be Understood as One Integrated System?. <i>Blood Purification</i> , 2010, 30, 257-265.	0.9	19
20	Peritoneal Fluid Transport: Mechanisms, Pathways, Methods of Assessment. <i>Archives of Medical Research</i> , 2013, 44, 576-583.	1.5	19
21	The Effect of Dialysate Acidity on Peritoneal Solute Transport in the Rat. <i>Peritoneal Dialysis International</i> , 1995, 15, 312-319.	1.1	18
22	Discriminative Impact of Ultrafiltration on Peritoneal Protein Transport. <i>Peritoneal Dialysis International</i> , 2000, 20, 39-46.	1.1	16
23	Fractional Solute Removal and KT/V in Different Modalities of Renal Replacement Therapy. <i>Blood Purification</i> , 2004, 22, 367-376.	0.9	16
24	A Mathematical Model of Local Stimulation of Perfusion by Vasoactive Agent Diffusing from Tissue Surface. <i>Cardiovascular Engineering (Dordrecht, Netherlands)</i> , 2004, 4, 115-123.	1.0	16
25	Adequacy Indices for Dialysis in Acute Renal Failure: Kinetic Modeling. <i>Artificial Organs</i> , 2010, 34, 412-419.	1.0	15
26	Quantification of Dialytic Removal and Extracellular Calcium Mass Balance during a Weekly Cycle of Hemodialysis. <i>PLoS ONE</i> , 2016, 11, e0153285.	1.1	15
27	Mathematical modelling of cardiovascular response to the Valsalva manoeuvre. <i>Mathematical Medicine and Biology</i> , 2016, 34, dqw008.	0.8	14
28	Concomitant bidirectional transport during peritoneal dialysis can be explained by a structured interstitium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1501-H1511.	1.5	14
29	Hemodialysis-induced changes in hematocrit, hemoglobin and total protein: Implications for relative blood volume monitoring. <i>PLoS ONE</i> , 2019, 14, e0220764.	1.1	14
30	Linear approximations for the description of solute flux through permselective membranes. <i>Journal of Membrane Science</i> , 1994, 95, 179-184.	4.1	12
31	Long Peritoneal Dialysis Dwells With Icodextrin: Kinetics of Transperitoneal Fluid and Polyglucose Transport. <i>Frontiers in Physiology</i> , 2019, 10, 1326.	1.3	11
32	Phosphate clearance in peritoneal dialysis. <i>Scientific Reports</i> , 2020, 10, 17504.	1.6	11
33	Transcapillary transport of water, small solutes and proteins during hemodialysis. <i>Scientific Reports</i> , 2020, 10, 18736.	1.6	11
34	Can the Three Pore Model Correctly Describe Peritoneal Transport of Protein?. <i>ASAIO Journal</i> , 2014, 60, 576-581.	0.9	10
35	Impact of Ultrafiltration on Back-Diffusion in Hemodialyzer. <i>Artificial Organs</i> , 1994, 18, 933-941.	1.0	9
36	Transit Time, Residence Time, and the Rate of Approach to Steady State for Solute Transport During Peritoneal Dialysis. <i>Annals of Biomedical Engineering</i> , 2008, 36, 1735-1743.	1.3	9

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37	Fluid Tonicity Affects Peritoneal Characteristics Derived by 3-PORE Model. <i>Peritoneal Dialysis International</i> , 2019, 39, 243-251.	1.1	9
38	Peritoneal Transport of Glucose in Rat. <i>Peritoneal Dialysis International</i> , 1999, 19, 442-450.	1.1	8
39	Intraperitoneal Addition of Hyaluronan Improves Peritoneal Dialysis Efficiency. <i>Peritoneal Dialysis International</i> , 1999, 19, 106-111.	1.1	8
40	Membrane Transport of Several Ions During Peritoneal Dialysis: Mathematical Modeling. <i>Artificial Organs</i> , 2012, 36, E163-78.	1.0	8
41	Genotypic and phenotypic predictors of inflammation in patients with chronic kidney disease. <i>Nephrology Dialysis Transplantation</i> , 2016, 31, 2033-2040.	0.4	8
42	Changes of Peritoneal Transport Parameters with Time on Dialysis: Assessment with Sequential Peritoneal Equilibration Test. <i>International Journal of Artificial Organs</i> , 2017, 40, 595-601.	0.7	8
43	Association between Biomarkers of Mineral and Bone Metabolism and Removal of Calcium and Phosphate in Hemodialysis. <i>Blood Purification</i> , 2020, 49, 71-78.	0.9	8
44	?Time inversion? and mobility of many particle systems. <i>Communications in Mathematical Physics</i> , 1980, 76, 27-37.	1.0	7
45	Transperitoneal Transport of Glucose Inâ€fVitro. <i>Artificial Organs</i> , 2000, 24, 857-863.	1.0	7
46	Exact and Numerical Solutions of a Spatially-Distributed Mathematical Model for Fluid and Solute Transport in Peritoneal Dialysis. <i>Symmetry</i> , 2016, 8, 50.	1.1	7
47	Peritoneal Fluid Transport rather than Peritoneal Solute Transport Associates with Dialysis Vintage and Age of Peritoneal Dialysis Patients. <i>Computational and Mathematical Methods in Medicine</i> , 2016, 1-10.	0.7	7
48	Distributed modeling of glucose-induced osmotic flow. <i>Advances in Peritoneal Dialysis Conference on Peritoneal Dialysis</i> , 2007, 23, 2-6.	0.1	7
49	Individual based modeling and parameter estimation for a Lotkaâ€™Volterra system. <i>Mathematical Biosciences</i> , 1999, 157, 23-36.	0.9	6
50	Kinetic studies of dipeptide-based and amino acid-based peritoneal dialysis solutions. <i>Kidney International</i> , 2001, 59, 363-373.	2.6	6
51	Mean Transit Time and Mean Residence Time for Linear Diffusionâ€™Convectionâ€™Reaction Transport System. <i>Computational and Mathematical Methods in Medicine</i> , 2007, 8, 37-49.	0.7	6
52	Dialysis Adequacy Indices and Body Composition in Male and Female Patients on Peritoneal Dialysis. <i>Peritoneal Dialysis International</i> , 2014, 34, 417-425.	1.1	6
53	Impact of hemodialysis on cardiovascular system assessed by pulse wave analysis. <i>PLoS ONE</i> , 2018, 13, e0206446.	1.1	6
54	Mobility and measurements in nonlinear wave mechanics. <i>Journal of Mathematical Physics</i> , 1986, 27, 1796-1799.	0.5	5

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55	Acidâ€“base kinetics during hemodialysis using bicarbonate and lactate as dialysate buffer bases based on the H ⁺ mobilization model. International Journal of Artificial Organs, 2020, 43, 645-652.	0.7	5
56	Monitoring relative blood volume changes during hemodialysis: Impact of the priming procedure. Artificial Organs, 2021, 45, 1189-1194.	1.0	5
57	Calculation of the Gibbsâ€“Donnan factors for multi-ion solutions with non-permeating charge on both sides of a permselective membrane. Scientific Reports, 2021, 11, 22150.	1.6	5
58	Representations of Peritoneal Tissue â€“ Mathematical Models in Peritoneal Dialysis. , 2011, , .		4
59	A mathematical model for fluid-glucose-albumin transport in peritoneal dialysis. International Journal of Applied Mathematics and Computer Science, 2014, 24, 837-851.	1.5	4
60	Are Dialysis Adequacy Indices Independent of Solute Generation Rate?. ASAIO Journal, 2014, 60, 90-94.	0.9	4
61	Modeling Pathological Hemodynamic Responses to the Valsalva Maneuver. Journal of Biomechanical Engineering, 2017, 139, .	0.6	4
62	Water removal during automated peritoneal dialysis assessed by remote patient monitoring and modelling of peritoneal tissue hydration. Scientific Reports, 2021, 11, 15589.	1.6	4
63	Kinetic Modeling and Adequacy of Dialysis. , 2011, , .		3
64	Comparison of three PET methods to assess peritoneal membrane transport. Brazilian Journal of Medical and Biological Research, 2019, 52, e8596.	0.7	3
65	A Mathematical Model for Transport in Poroelastic Materials with Variable Volume: Derivation, Lie Symmetry Analysis, and Examples. Symmetry, 2020, 12, 396.	1.1	3
66	Fluid Transport in Peritoneal Dialysis: A Mathematical Model and Numerical Solutions. , 2007, , 281-288.		3
67	A Simple and Fast Method to Estimate Peritoneal Membrane Transport Characteristics Using Dialysate Sodium Concentration. Peritoneal Dialysis International, 1999, 19, 212-216.	1.1	2
68	On the change of transport parameters with dwell time during peritoneal dialysis. Peritoneal Dialysis International, 2021, 41, 404-412.	1.1	2
69	Changes in Subendocardial Viability Ratio in Traumatic Brain Injury Patients. Brain Connectivity, 2021, 11, 349-358.	0.8	2
70	Kinetic modeling of fluid and solute transport in peritoneal dialysis. Frontiers of Medical and Biological Engineering: the International Journal of the Japan Society of Medical Electronics and Biological Engineering, 2000, 10, 105-115.	0.2	1
71	Erythrocytes as Volume Markers in Experimental PD Show that Albumin Transport in the Extracellular Space Depends on PD Fluid Osmolarity. Peritoneal Dialysis International, 2016, 36, 247-256.	1.1	1
72	A Mathematical Model for Transport in Poroelastic Materials with Variable Volume: Derivation, Lie Symmetry Analysis and Examplesâ€“Part 2. Symmetry, 2022, 14, 109.	1.1	1

#	ARTICLE	IF	CITATIONS
73	Distributed Models of Peritoneal Transport. , 2011, , .		0
74	FP623THE IMPACT OF INTER-INDIVIDUAL VARIATION IN THE FRANK-STARLING MECHANISM ON BLOOD PRESSURE RESPONSE TO HAEMODIALYSIS â€” A MODELLING STUDY. Nephrology Dialysis Transplantation, 2019, 34, .	0.4	0