

Manfred Rauh

List of Publications by Year in descending order

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102
papers

5,632
citations

76294

40
h-index

82499

72
g-index

103
all docs

103
docs citations

103
times ranked

7843
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative analysis of steroid hormones in human hair using a column-switching LC-APCI-MS/MS assay. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 928, 1-8.	1.2	322
2	Long-Term Space Flight Simulation Reveals Infradian Rhythmicity in Human Na ⁺ Balance. <i>Cell Metabolism</i> , 2013, 17, 125-131.	7.2	294
3	Deficiency of UBR1, a ubiquitin ligase of the N-end rule pathway, causes pancreatic dysfunction, malformations and mental retardation (Johanson-Blizzard syndrome). <i>Nature Genetics</i> , 2005, 37, 1345-1350.	9.4	252
4	NT-Pro-B-type Natriuretic Peptide in Infants and Children: Reference Values Based on Combined Data from Four Studies. <i>Pediatric Cardiology</i> , 2009, 30, 3-8.	0.6	244
5	Agreement Between 24-Hour Salt Ingestion and Sodium Excretion in a Controlled Environment. <i>Hypertension</i> , 2015, 66, 850-857.	1.3	176
6	Standardized LC-MS/MS based steroid hormone profile-analysis. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2012, 129, 129-138.	1.2	165
7	Automated, fast and sensitive quantification of 17 β -hydroxy-progesterone, androstenedione and testosterone by tandem mass spectrometry with on-line extraction. <i>Steroids</i> , 2006, 71, 450-458.	0.8	160
8	High salt intake reprioritizes osmolyte and energy metabolism for body fluid conservation. <i>Journal of Clinical Investigation</i> , 2017, 127, 1944-1959.	3.9	153
9	Comparison of salivary cortisol as measured by different immunoassays and tandem mass spectrometry. <i>Psychoneuroendocrinology</i> , 2013, 38, 50-57.	1.3	145
10	Effects of Tryptophan Depletion vs Catecholamine Depletion in Patients With Seasonal Affective Disorder in Remission With Light Therapy. <i>Archives of General Psychiatry</i> , 1998, 55, 524.	13.8	143
11	Evaluation of saliva collection devices for the analysis of steroids, peptides and therapeutic drugs. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 47, 478-486.	1.4	140
12	Age- and Sex-Specific Dynamics in 22 Hematologic and Biochemical Analytes from Birth to Adolescence. <i>Clinical Chemistry</i> , 2015, 61, 964-973.	1.5	132
13	Circadian Rhythm of Salivary Cortisol, 17 β -Hydroxyprogesterone, and Progesterone in Healthy Children. <i>Clinical Chemistry</i> , 2003, 49, 1688-1691.	1.5	123
14	LC-MS/MS for protein and peptide quantification in clinical chemistry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 883-884, 59-67.	1.2	123
15	Influence of commercial collection devices for saliva on the reliability of salivary steroids analysis. <i>Steroids</i> , 2006, 71, 1097-1100.	0.8	121
16	Increased salt consumption induces body water conservation and decreases fluid intake. <i>Journal of Clinical Investigation</i> , 2017, 127, 1932-1943.	3.9	114
17	Aloxe3 Knockout Mice Reveal a Function of Epidermal Lipoxygenase-3 as Hepoxilin Synthase and Its Pivotal Role in Barrier Formation. <i>Journal of Investigative Dermatology</i> , 2013, 133, 172-180.	0.3	111
18	Identification of Ghrelin in Human Saliva: Production by the Salivary Glands and Potential Role in Proliferation of Oral Keratinocytes. <i>Clinical Chemistry</i> , 2005, 51, 997-1006.	1.5	110

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19	Comparison of Automated Differential Blood Cell Counts From Abbott Sapphire, Siemens Advia 120, Beckman Coulter DxH 800, and Sysmex XE-2100 in Normal and Pathologic Samples. <i>American Journal of Clinical Pathology</i> , 2013, 139, 641-650.	0.4	103
20	Identification of Leptin in Human Saliva. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001, 86, 5234-5239.	1.8	102
21	Steroid measurement with LC-MS/MS in pediatric endocrinology. <i>Molecular and Cellular Endocrinology</i> , 2009, 301, 272-281.	1.6	95
22	Steroid measurement with LC-MS/MS. Application examples in pediatrics. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010, 121, 520-527.	1.2	93
23	Magnetic resonance lung function – a breakthrough for lung imaging and functional assessment? A phantom study and clinical trial. <i>Respiratory Research</i> , 2006, 7, 106.	1.4	84
24	Ultra-long-term human salt balance studies reveal interrelations between sodium, potassium, and chloride intake and excretion. <i>American Journal of Clinical Nutrition</i> , 2016, 104, 49-57.	2.2	78
25	Enzymatic lipid oxidation by eosinophils propagates coagulation, hemostasis, and thrombotic disease. <i>Journal of Experimental Medicine</i> , 2017, 214, 2121-2138.	4.2	78
26	Pediatric reference intervals for alkaline phosphatase. <i>Clinical Chemistry and Laboratory Medicine</i> , 2017, 55, 102-110.	1.4	78
27	Plasma N-Terminal Pro-B-Type Natriuretic Peptide Concentrations in a Control Population of Infants and Children. <i>Clinical Chemistry</i> , 2003, 49, 1563-1564.	1.5	76
28	Altered Patterns of Heartbeat-Evoked Potentials in Depersonalization/Derealization Disorder. <i>Psychosomatic Medicine</i> , 2015, 77, 506-516.	1.3	76
29	Uteroplacental Insufficiency after Bilateral Uterine Artery Ligation in the Rat: Impact on Postnatal Glucose and Lipid Metabolism and Evidence for Metabolic Programming of the Offspring by Sham Operation. <i>Endocrinology</i> , 2008, 149, 1056-1063.	1.4	67
30	Indirect determination of pediatric blood count reference intervals. <i>Clinical Chemistry and Laboratory Medicine</i> , 2013, 51, 863-872.	1.4	65
31	Effects of Tryptophan Depletion in Drug-Free Depressed Patients Who Responded to Total Sleep Deprivation. <i>Archives of General Psychiatry</i> , 1998, 55, 167.	13.8	58
32	Antenatal Betamethasone Administration Alters Stress Physiology in Healthy Neonates. <i>Obstetrics and Gynecology</i> , 2009, 113, 1082-1088.	1.2	56
33	Simultaneous Quantification of Ghrelin and Desacyl-Ghrelin by Liquid Chromatography-Tandem Mass Spectrometry in Plasma, Serum, and Cell Supernatants. <i>Clinical Chemistry</i> , 2007, 53, 902-910.	1.5	53
34	Dexamethasone Alleviates Tumor-Associated Brain Damage and Angiogenesis. <i>PLoS ONE</i> , 2014, 9, e93264.	1.1	51
35	Use-Dependent Inhibition of Synaptic Transmission by the Secretion of Intravesicularly Accumulated Antipsychotic Drugs. <i>Neuron</i> , 2012, 74, 830-844.	3.8	50
36	Preanalytical Influences on the Measurement of Ghrelin. <i>Clinical Chemistry</i> , 2002, 48, 1114-1116.	1.5	47

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37	Cortisol and 17-Hydroxyprogesterone Kinetics in Saliva after Oral Administration of Hydrocortisone in Children and Young Adolescents with Congenital Adrenal Hyperplasia due to 21-Hydroxylase Deficiency. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002, 87, 1200-1204.	1.8	44
38	The Proteasome Inhibitor Bortezomib Prevents Lupus Nephritis in the NZB/W F1 Mouse Model by Preservation of Glomerular and Tubulointerstitial Architecture. <i>Nephron Experimental Nephrology</i> , 2012, 120, e47-e58.	2.4	44
39	refineR: A Novel Algorithm for Reference Interval Estimation from Real-World Data. <i>Scientific Reports</i> , 2021, 11, 16023.	1.6	44
40	Arginase impedes the resolution of colitis by altering the microbiome and metabolome. <i>Journal of Clinical Investigation</i> , 2020, 130, 5703-5720.	3.9	44
41	Expression of Neuropeptide Y, Omentin and Visfatin in Visceral and Subcutaneous Adipose Tissues in Humans: Relation to Endocrine and Clinical Parameters. <i>Obesity Facts</i> , 2010, 3, 245-251.	1.6	43
42	Next-generation reference intervals for pediatric hematology. <i>Clinical Chemistry and Laboratory Medicine</i> , 2019, 57, 1595-1607.	1.4	42
43	Reference Interval Estimation from Mixed Distributions using Truncation Points and the Kolmogorov-Smirnov Distance (kosmic). <i>Scientific Reports</i> , 2020, 10, 1704.	1.6	42
44	Relationship between salivary progesterone, 17-hydroxyprogesterone, and cortisol levels throughout the normal menstrual cycle of healthy postmenarcheal girls. <i>Fertility and Sterility</i> , 2001, 76, 615-617.	0.5	41
45	<i>Aestivation</i> motifs explain hypertension and muscle mass loss in mice with psoriatic skin barrier defect. <i>Acta Physiologica</i> , 2021, 232, e13628.	1.8	39
46	Quantification of Busulfan in Saliva and Plasma in Haematopoietic Stem Cell Transplantation in Children. <i>Clinical Pharmacokinetics</i> , 2006, 45, 305-316.	1.6	38
47	Cardiac autonomic balance in small-for-gestational-age neonates. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H884-H890.	1.5	36
48	Adaptive physiological water conservation explains hypertension and muscle catabolism in experimental chronic renal failure. <i>Acta Physiologica</i> , 2021, 232, e13629.	1.8	36
49	Blunted Stress Response in Small for Gestational Age Neonates. <i>Pediatric Research</i> , 2009, 65, 231-235.	1.1	35
50	Immunoreactive renin concentrations in healthy children from birth to adolescence. <i>Clinica Chimica Acta</i> , 1998, 274, 15-27.	0.5	34
51	Measurement of amniotic fluid steroids of midgestation via LC-MS/MS. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 152, 155-160.	1.2	33
52	Preanalytical influences on the measurement of visfatin by enzyme immuno assay. <i>Clinica Chimica Acta</i> , 2007, 382, 154-156.	0.5	30
53	Adhesive blood microsampling systems for steroid measurement via LC-MS/MS in the rat. <i>Steroids</i> , 2017, 120, 1-6.	0.8	30
54	Chemotherapeutic xCT inhibitors sorafenib and erastin unraveled with the synaptic optogenetic function analysis tool. <i>Cell Death Discovery</i> , 2017, 3, 17030.	2.0	30

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55	Species differences of 11beta-hydroxysteroid dehydrogenase type 2 function in human and rat term placenta determined via LC-MS/MS. <i>Placenta</i> , 2016, 37, 79-84.	0.7	29
56	IFN- γ /IFN- λ responses to respiratory viruses in paediatric asthma. <i>European Respiratory Journal</i> , 2017, 49, 1600969.	3.1	29
57	Decreasing ratio of plasma N-terminal pro-B-type natriuretic peptide and B-type natriuretic peptide according to age. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2006, 95, 805-809.	0.7	28
58	Placental 11 β -HSD2 Gene Expression at Birth Is Inversely Correlated With Growth Velocity in the First Year of Life After Intrauterine Growth Restriction. <i>Pediatric Research</i> , 2009, 65, 647-653.	1.1	27
59	Corticotropin-releasing hormone stimulates expression of leptin, 11beta-HSD2 and syncytin-1 in primary human trophoblasts. <i>Reproductive Biology and Endocrinology</i> , 2012, 10, 80.	1.4	27
60	Adrenarche and Puberty in Children with Classic Congenital Adrenal Hyperplasia due to 21-Hydroxylase Deficiency. <i>Hormone Research in Paediatrics</i> , 2011, 76, 400-410.	0.8	26
61	Combined quantification of corticotropin-releasing hormone, cortisol-to-cortisone ratio and progesterone by liquid chromatography-Tandem mass spectrometry in placental tissue. <i>Steroids</i> , 2013, 78, 888-895.	0.8	25
62	Blood counts in adult and elderly individuals: defining the norms over eight decades of life. <i>British Journal of Haematology</i> , 2020, 189, 777-789.	1.2	22
63	Detection of Expressional Changes Induced by Intrauterine Growth Restriction in the Developing Rat Mammary Gland via Exploratory Pathways Analysis. <i>PLoS ONE</i> , 2014, 9, e100504.	1.1	20
64	Histone deacetylases inhibition by SAHA/Vorinostat normalizes the glioma microenvironment via xCT equilibration. <i>Scientific Reports</i> , 2014, 4, 6226.	1.6	20
65	Active visfatin is elevated in serum of maintenance haemodialysis patients and correlates inversely with circulating HDL cholesterol. <i>Nephrology Dialysis Transplantation</i> , 2009, 24, 2832-2838.	0.4	19
66	Evaluation of a modified thromboelastography assay for the screening of von Willebrand disease. <i>Thrombosis and Haemostasis</i> , 2011, 105, 1091-1099.	1.8	19
67	Indirect determination of hematology reference intervals in adult patients on Beckman Coulter UniCell DxH 800 and Abbott CELL-DYN Sapphire devices. <i>Clinical Chemistry and Laboratory Medicine</i> , 2019, 57, 730-739.	1.4	18
68	Sex differences in the development of vascular and renal lesions in mice with a simultaneous deficiency of Apoe and the integrin chain Itga8. <i>Biology of Sex Differences</i> , 2017, 8, 19.	1.8	17
69	Complex lipid globules in early-life nutrition improve long-term metabolic phenotype in intra-uterine growth-restricted rats. <i>British Journal of Nutrition</i> , 2018, 120, 763-776.	1.2	17
70	IFN- γ /IFN- λ responses to respiratory viruses in paediatric asthma. <i>European Respiratory Journal</i> , 2017, 49, 1700006.	3.1	16
71	Cortisol/cortisone ratios in small for gestational age (SGA) children without postnatal catch-up growth. <i>Clinical Endocrinology</i> , 2007, 67, 304-309.	1.2	15
72	Data mining of reference intervals for coagulation screening tests in adult patients. <i>Clinica Chimica Acta</i> , 2019, 499, 108-114.	0.5	15

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73	High-resolution pediatric reference intervals for 15 biochemical analytes described using fractional polynomials. <i>Clinical Chemistry and Laboratory Medicine</i> , 2021, 59, 1267-1278.	1.4	15
74	Changes in 11 β -hydroxysteroid dehydrogenase type 2 expression in a low-protein rat model of intrauterine growth restriction. <i>Nephrology Dialysis Transplantation</i> , 2010, 25, 3195-3203.	0.4	14
75	Iodine deficiency and subclinical hypothyroidism are common in cystic fibrosis patients. <i>Journal of Trace Elements in Medicine and Biology</i> , 2013, 27, 122-125.	1.5	14
76	Maternal SARS-CoV-2 infection during pregnancy: possible impact on the infant. <i>European Journal of Pediatrics</i> , 2022, 181, 413-418.	1.3	14
77	Endothelial cells play an important role in the antiaggregatory effect of nitric oxide. <i>Critical Care Medicine</i> , 2003, 31, 2010-2014.	0.4	12
78	Reduced Perinatal Leptin Availability May Contribute to Adverse Metabolic Programming in a Rat Model of Uteroplacental Insufficiency. <i>Endocrinology</i> , 2016, 157, 1813-1825.	1.4	12
79	Reduction of Tissue Na ⁺ Accumulation After Renal Transplantation. <i>Kidney International Reports</i> , 2021, 6, 2338-2347.	0.4	11
80	Salivary leptin levels during the menstrual cycle and their relation to progesterone. <i>Fertility and Sterility</i> , 2002, 77, 1306-1307.	0.5	10
81	Increased Soluble Leptin Receptor in Children with Nephrotic Syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003, 88, 5497-5501.	1.8	10
82	Effect of Antenatal Betamethasone Administration on Neonatal Cardiac Autonomic Balance. <i>Pediatric Research</i> , 2010, 68, 286-291.	1.1	10
83	Pediatric renal allograft transplantation does not normalize the increased cortisol/cortisone ratios of chronic renal failure. <i>European Journal of Endocrinology</i> , 2006, 154, 555-561.	1.9	9
84	Serum ghrelin, adipokine and insulin levels in children with acute hepatitis. <i>European Journal of Gastroenterology and Hepatology</i> , 2009, 21, 739-743.	0.8	8
85	Chronic antipsychotic treatment targets GIRK current suppression, loss of long-term synaptic depression and behavioural sensitization in a mouse model of amphetamine psychosis. <i>Journal of Psychopharmacology</i> , 2019, 33, 74-85.	2.0	8
86	Data mining of pediatric reference intervals. <i>Journal of Laboratory Medicine</i> , 2021, 45, 311-317.	1.1	8
87	Transient growth hormone therapy to rats with low protein-inflicted intrauterine growth restriction does not prevent elevated blood pressure in later life. <i>Growth Factors</i> , 2008, 26, 355-364.	0.5	7
88	Influence of Low Protein Diet-Induced Fetal Growth Restriction on the Neuroplacental Corticosterone Axis in the Rat. <i>Frontiers in Endocrinology</i> , 2019, 10, 124.	1.5	7
89	An isotope dilution LC-MS/MS-based candidate reference method for the quantification of androstenedione in human serum and plasma. <i>Clinical Mass Spectrometry</i> , 2020, 16, 1-10.	1.9	7
90	Conditional Alox12b Knockout: Degradation of the Corneocyte Lipid Envelope in a Mouse Model of Autosomal Recessive Congenital Ichthyoses. <i>Journal of Investigative Dermatology</i> , 2020, 140, 249-253.e6.	0.3	6

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91	Serum levels of gastric-acid-stimulating factors in children undergoing open heart surgery. <i>Intensive Care Medicine</i> , 2009, 35, 1619-1622.	3.9	5
92	IGF-Iâ€“IGFBP-3â€“acid-labile subunit (ALS) complex in children and adolescents with classical congenital adrenal hyperplasia due to 21-hydroxylase deficiency (CAH). <i>Growth Hormone and IGF Research</i> , 2011, 21, 191-198.	0.5	5
93	Sexâ€“specific differences in the concentration of tubular parameters in the amniotic fluid of second trimester fetuses. <i>Prenatal Diagnosis</i> , 2012, 32, 476-479.	1.1	5
94	Rhinovirus species/genotypes and interferon-Î»: subtypes, receptor and polymorphisms â€“ missing pieces of the puzzle of childhood asthma?. <i>European Respiratory Journal</i> , 2017, 49, 1700265.	3.1	5
95	Intrauterine Growth Restriction (IUGR) Induces Signs of Subclinical Atherosclerosis in 6-Year-Old Infants Despite Absence Of Excessive Growth. <i>Klinische Padiatrie</i> , 2017, 229, 209-215.	0.2	5
96	The effect of dietary lipid quality in early life on serum LysoPC(18:2) levels and their association with adult blood glucose levels in intrauterine growth restricted rats. <i>Nutrition and Metabolism</i> , 2021, 18, 101.	1.3	4
97	Epicutaneous Application of Imiquimod to Model Psoriasis-Like Skin Disease Induces Water-Saving Aestivation Motifs and Vascular Inflammation. <i>Journal of Investigative Dermatology</i> , 2022, 142, 3117-3120.e2.	0.3	4
98	Influence of labor on direct and indirect determinants of placental 11beta-hydroxysteroid dehydrogenase activity. <i>Archives of Gynecology and Obstetrics</i> , 2021, 303, 401-408.	0.8	2
99	Endothelial cells influence the sodium nitroprusside mediated inhibition of platelet aggregation by an as yet unknown pathway. <i>Thrombosis Journal</i> , 2012, 10, 6.	0.9	1
100	Decreasing ratio of plasma Nâ€“terminal proâ€“Bâ€“type natriuretic peptide and Bâ€“type natriuretic peptide according to age. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2006, 95, 805-809.	0.7	0
101	6 Intrauterine corticosteroids for lung maturation: Observations of HPA axis function and cardiac autonomic balance in the neonate. , 2011, , 51-58.		0
102	Serum levels of gastric acid stimulating factors in children undergoing open heart surgery. <i>Intensive Care Medicine</i> , 2009, 35, 1619.	3.9	0