

Birgit Cp Koch

List of Publications by Year in descending order

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67
papers

1,386
citations

331259

21
h-index

377514

34
g-index

69
all docs

69
docs citations

69
times ranked

2032
citing authors

#	ARTICLE	IF	CITATIONS
1	From Therapeutic Drug Monitoring to Model-Informed Precision Dosing for Antibiotics. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 109, 928-941.	2.3	131
2	Clinical applications of population pharmacokinetic models of antibiotics: Challenges and perspectives. <i>Pharmacological Research</i> , 2018, 134, 280-288.	3.1	94
3	Prolonged Influenza Virus Shedding and Emergence of Antiviral Resistance in Immunocompromised Patients and Ferrets. <i>PLoS Pathogens</i> , 2013, 9, e1003343.	2.1	92
4	Inflammation and Organ Failure Severely Affect Midazolam Clearance in Critically Ill Children. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 58-66.	2.5	81
5	Simultaneous determination of nine β -lactam antibiotics in human plasma by an ultrafast hydrophilic-interaction chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1060, 138-143.	1.2	60
6	The role of melatonin treatment in chronic kidney disease. <i>Frontiers in Bioscience - Landmark</i> , 2012, 17, 2644.	3.0	53
7	A Population Pharmacokinetic Model to Predict the Individual Starting Dose of Tacrolimus Following Pediatric Renal Transplantation. <i>Clinical Pharmacokinetics</i> , 2018, 57, 475-489.	1.6	48
8	Different melatonin rhythms and sleep-wake rhythms in patients on peritoneal dialysis, daytime hemodialysis and nocturnal hemodialysis. <i>Sleep Medicine</i> , 2010, 11, 242-246.	0.8	44
9	High interindividual variability in urinary fosfomycin concentrations in healthy female volunteers. <i>Clinical Microbiology and Infection</i> , 2018, 24, 528-532.	2.8	37
10	Effects of Nocturnal Hemodialysis on Melatonin Rhythm and Sleep-Wake Behavior: An Uncontrolled Trial. <i>American Journal of Kidney Diseases</i> , 2009, 53, 658-664.	2.1	34
11	Dried blood spot UHPLC-MS/MS analysis of oseltamivir and oseltamivircarboxylate—a validated assay for the clinic. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3473-3479.	1.9	34
12	A fast and sensitive LC-MS/MS method for the quantification of fosfomycin in human urine and plasma using one sample preparation method and HILIC chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1061-1062, 263-269.	1.2	33
13	High-throughput quantification of 8 antihypertensive drugs and active metabolites in human plasma using UPLC-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1060, 367-373.	1.2	33
14	<p></p>Assessing methods of measuring medication adherence in chronically ill children—a narrative review</p>. <i>Patient Preference and Adherence</i> , 2019, Volume 13, 1175-1189.	0.8	32
15	The Effects of Kidney Transplantation on Sleep, Melatonin, Circadian Rhythm and Quality of Life in Kidney Transplant Recipients and Living Donors. <i>Nephron</i> , 2015, 129, 6-15.	0.9	30
16	Circadian variation in tamoxifen pharmacokinetics in mice and breast cancer patients. <i>Breast Cancer Research and Treatment</i> , 2015, 152, 119-128.	1.1	30
17	Risperidone plasma concentrations are associated with side effects and effectiveness in children and adolescents with autism spectrum disorder. <i>British Journal of Clinical Pharmacology</i> , 2021, 87, 1069-1081.	1.1	29
18	A 3 HPLC-ESI-MS/MS-Based Stable Isotope Dilution Method for the Detection and Quantitation of Methotrexate in Plasma. <i>Therapeutic Drug Monitoring</i> , 2012, 34, 432-439.	1.0	28

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19	In Vitro Adsorption of Analgosedative Drugs in New Extracorporeal Membrane Oxygenation Circuits. <i>Pediatric Critical Care Medicine</i> , 2018, 19, e251-e258.	0.2	27
20	Highly sensitive and rapid determination of tacrolimus in peripheral blood mononuclear cells by liquid chromatography-tandem mass spectrometry. <i>Biomedical Chromatography</i> , 2019, 33, e4416.	0.8	23
21	Clinical Applicability of Monitoring Antihypertensive Drug Levels in Blood. <i>Hypertension</i> , 2020, 76, 80-86.	1.3	22
22	Doxazosin treatment of pheochromocytoma during pregnancy: placental transfer and disposition in breast milk. <i>British Journal of Clinical Pharmacology</i> , 2016, 82, 568-569.	1.1	21
23	The pharmacokinetics and toxicity of morning vs. evening tobramycin dosing for pulmonary exacerbations of cystic fibrosis: A randomised comparison. <i>Journal of Cystic Fibrosis</i> , 2016, 15, 510-517.	0.3	21
24	Formulating a poorly water soluble drug into an oral solution suitable for paediatric patients; lorazepam as a model drug. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 100, 205-210.	1.9	20
25	Monitoring the tacrolimus concentration in peripheral blood mononuclear cells of kidney transplant recipients. <i>British Journal of Clinical Pharmacology</i> , 2021, 87, 1918-1929.	1.1	20
26	Antipsychotics in Dutch Youth: Prevalence, Dosages, and Duration of Use from 2005 to 2015. <i>Journal of Child and Adolescent Psychopharmacology</i> , 2018, 28, 173-179.	0.7	19
27	Subjective sleep efficiency of hemodialysis patients. <i>Clinical Nephrology</i> , 2008, 70, 411-416.	0.4	19
28	Design and stability study of an oral solution of amlodipine besylate for pediatric patients. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 92, 220-223.	1.9	18
29	The effectiveness of nitrofurantoin, fosfomycin and trimethoprim for the treatment of cystitis in relation to renal function. <i>Clinical Microbiology and Infection</i> , 2020, 26, 1355-1360.	2.8	18
30	Insufficient serum caspofungin levels in a paediatric patient on ECMO. <i>Medical Mycology Case Reports</i> , 2013, 2, 23-24.	0.7	17
31	Drug nonadherence is a common but often overlooked cause of hypertensive urgency and emergency at the emergency department. <i>Journal of Hypertension</i> , 2019, 37, 1048-1057.	0.3	16
32	Pharmacokinetic and pharmacodynamic considerations in the treatment of the elderly patient with hypertension. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2019, 15, 287-297.	1.5	15
33	A narrative review of predictors for β -lactam antibiotic exposure during empirical treatment in critically ill patients. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2021, 17, 359-368.	1.5	14
34	Understanding the association between sleep, shift work and COVID-19 vaccine immune response efficacy: Protocol of the S α CORE study. <i>Journal of Sleep Research</i> , 2022, 31, e13496.	1.7	14
35	Combination Therapy of Etanercept and Fumarates versus Etanercept Monotherapy in Psoriasis: A Randomized Exploratory Study. <i>Dermatology</i> , 2016, 232, 407-414.	0.9	13
36	Pharmacokinetics and Pharmacodynamics of Intravenous Immunoglobulin G Maintenance Therapy in Chronic Immune-mediated Neuropathies. <i>Clinical Pharmacology and Therapeutics</i> , 2017, 102, 709-716.	2.3	12

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37	Recently Registered Midazolam Doses for Preterm Neonates Do Not Lead to Equal Exposure: A Population Pharmacokinetic Model. <i>Journal of Clinical Pharmacology</i> , 2019, 59, 1300-1308.	1.0	11
38	Development and validation of a paediatric oral formulation of clonidine hydrochloride. <i>International Journal of Pharmaceutics</i> , 2012, 433, 119-120.	2.6	10
39	Combining biologics with methotrexate in psoriasis: a systematic review. <i>British Journal of Dermatology</i> , 2015, 172, 1676-1680.	1.4	10
40	Doubt About the Feasibility of Preemptive Genotyping. <i>Clinical Pharmacology and Therapeutics</i> , 2013, 93, 233-233.	2.3	9
41	Big Data Analyses for Continuous Evaluation of Pharmacotherapy: A Proof of Principle with Doxapram in Preterm Infants. <i>Current Pharmaceutical Design</i> , 2018, 23, 5919-5927.	0.9	9
42	Urinary antibacterial activity of fosfomycin and nitrofurantoin at registered dosages in healthy volunteers. <i>International Journal of Antimicrobial Agents</i> , 2019, 54, 435-441.	1.1	9
43	Stability of colistimethate sodium in a disposable elastomeric infusion device. <i>International Journal of Pharmaceutics</i> , 2015, 486, 367-369.	2.6	7
44	Identification and quantification of the antipsychotics risperidone, aripiprazole, pipamperone and their major metabolites in plasma using ultra-high performance liquid chromatography-mass spectrometry. <i>Biomedical Chromatography</i> , 2016, 30, 794-801.	0.8	7
45	<i>CYP3A5</i> and <i>ABCB1</i> polymorphisms in living donors do not impact clinical outcome after kidney transplantation. <i>Pharmacogenomics</i> , 2018, 19, 895-903.	0.6	7
46	The Pharmacokinetics of Caffeine in Preterm Newborns: No Influence of Doxapram but Important Maturation with Age. <i>Neonatology</i> , 2021, 118, 106-113.	0.9	7
47	Gain-of-function single nucleotide variants of the <i>CYP2C19</i> gene (<i>CYP2C19*17</i>) can identify subtherapeutic voriconazole concentrations in critically ill patients: a case series. <i>Intensive Care Medicine</i> , 2015, 41, 2013-2014.	3.9	6
48	Change in Lifestyle Behaviors After Preconception Care: A Prospective Cohort Study. <i>American Journal of Health Promotion</i> , 2021, 35, 116-120.	0.9	5
49	Sufentanil Disposition and Pharmacokinetic Model-Based Dosage Regimen for Sufentanil in Ventilated Full-Term Neonates. <i>Pharmacology</i> , 2021, 106, 384-389.	0.9	5
50	Pregnancy-related pharmacokinetics and antimicrobial prophylaxis during fetal surgery, cefazolin and clindamycin as examples. <i>Prenatal Diagnosis</i> , 2020, 40, 1178-1184.	1.1	5
51	Development and Validation of a Dried Blood Spot Assay Using UHPLC-MS/MS to Identify and Quantify 12 Antihypertensive Drugs and 4 Active Metabolites: Clinical Needs and Analytical Limitations. <i>Therapeutic Drug Monitoring</i> , 2022, 44, 568-577.	1.0	5
52	Population Pharmacokinetics of Oxycodone and Metabolites in Patients with Cancer-Related Pain. <i>Cancers</i> , 2021, 13, 2768.	1.7	4
53	Bioequivalence study of an extemporaneously prepared oral solution of amlodipine suitable for use in pediatric patients compared to commercial tablets. <i>International Journal of Clinical Pharmacology and Therapeutics</i> , 2016, 54, 65-72.	0.3	4
54	O17...The bioavailability and maturing clearance of doxapram in preterm infants. <i>Archives of Disease in Childhood</i> , 2019, 104, e8.1-e8.	1.0	3

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55	In Vitro Recovery of Sufentanil, Midazolam, Propofol, and Methylprednisolone in Pediatric Cardiopulmonary Bypass Systems. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020, 34, 972-980.	0.6	3
56	Simultaneous quantification of ambrisentan, macitentan and sitaxentan in human plasma using UPLC-MS/MS. <i>Biomedical Chromatography</i> , 2020, 34, e4787.	0.8	2
57	Quantification of beta-lactam antibiotics cefuroxime and flucloxacillin in human synovial fluid, using ultra-performance convergence chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1173, 122696.	1.2	2
58	High-throughput analysis for the simultaneous quantification of nine beta-lactam antibiotics in human plasma by UPC2-MS/MS: Method development, validation, and clinical application. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 219, 114904.	1.4	2
59	P31...No interaction between doxapram and caffeine for the treatment of preterm neonates with apnea. <i>Archives of Disease in Childhood</i> , 2019, 104, e29.3-e30.	1.0	1
60	Pharmacogenomic response of low dose haloperidol in critically ill adults with delirium. <i>Journal of Critical Care</i> , 2020, 57, 203-207.	1.0	1
61	O-203...Paediatric Microdose Study Of [14c]paracetamol To Study Drug Metabolism Using Accelerated Mass Spectrometry: Proof Of Concept. <i>Archives of Disease in Childhood</i> , 2014, 99, A102.1-A102.	1.0	0
62	P72...Maturation of sildenafil clearance in prematurely born infants with BPD associated pulmonary hypertension. <i>Archives of Disease in Childhood</i> , 2019, 104, e47.1-e47.	1.0	0
63	O08...Pharmacokinetics of prophylactic and therapeutic fluconazole in preterm neonates. <i>Archives of Disease in Childhood</i> , 2019, 104, e4.1-e4.	1.0	0
64	P49...A pharmacokinetic evaluation of oral clavulanic acid in term newborns. <i>Archives of Disease in Childhood</i> , 2019, 104, e37.2-e37.	1.0	0
65	High interindividual variability in urinary fosfomycin concentrations in healthy female volunteers authors' response. <i>Clinical Microbiology and Infection</i> , 2019, 25, 256-257.	2.8	0
66	The Pharmacokinetics of Beta-Lactam Antibiotics Using Scavenged Samples in Pediatric Intensive Care Patients: The EXPAT Kids Study Protocol. <i>Frontiers in Pharmacology</i> , 2021, 12, 750080.	1.6	0
67	Linking pharmacokinetics of aripiprazole to side effects and effectiveness in children and adolescents. <i>Pharmacopsychiatry</i> , 2022, , .	1.7	0