Jim E Riviere

List of Publications by Citations

249 papers	**8,432** citations	**46** h-index	**83** g-index
258 ext. papers	**9,330** ext. citations	**4.4** avg, IF	**6.23** L-index

#	Paper	IF	Citations
249	Multi-walled carbon nanotube interactions with human epidermal keratinocytes. *Toxicology Letters*, **2005**, 155, 377-84	4.4	645
248	Biological stress response terminology: Integrating the concepts of adaptive response and preconditioning stress within a hormetic dose-response framework. *Toxicology and Applied Pharmacology*, **2007**, 222, 122-8	4.6	512
247	Penetration of intact skin by quantum dots with diverse physicochemical properties. *Toxicological Sciences*, **2006**, 91, 159-65	4.4	388
246	Surface coatings determine cytotoxicity and irritation potential of quantum dot nanoparticles in epidermal keratinocytes. *Journal of Investigative Dermatology*, **2007**, 127, 143-53	4.3	284
245	An index for characterization of nanomaterials in biological systems. *Nature Nanotechnology*, **2010**, 5, 671-5	28.7	277
244	Safety evaluation of sunscreen formulations containing titanium dioxide and zinc oxide nanoparticles in UVB sunburned skin: an in vitro and in vivo study. *Toxicological Sciences*, **2011**, 123, 264-80	4.4	274
243	Interspecies and interregional analysis of the comparative histologic thickness and laser Doppler blood flow measurements at five cutaneous sites in nine species. *Journal of Investigative Dermatology*, **1990**, 95, 582-6	4.3	171
242	Health concerns and management of select veterinary drug residues. *Food and Chemical Toxicology*, **2016**, 88, 112-22	4.7	144
241	Variables influencing interactions of untargeted quantum dot nanoparticles with skin cells and identification of biochemical modulators. *Nano Letters*, **2007**, 7, 1344-8	11.5	138
240	Pharmacokinetics of metallic nanoparticles. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2015**, 7, 189-217	9.2	135
239	Mapping the surface adsorption forces of nanomaterials in biological systems. *ACS Nano*, **2011**, 5, 9074-81	16.7	114
238	Potential and problems of developing transdermal patches for veterinary applications. *Advanced Drug Delivery Reviews*, **2001**, 50, 175-203	18.5	114
237	Pharmacokinetics of melamine in pigs following intravenous administration. *Food and Chemical Toxicology*, **2008**, 46, 1196-200	4.7	107
236	Interspecies allometric analysis of the comparative pharmacokinetics of 44 drugs across veterinary and laboratory animal species. *Journal of Veterinary Pharmacology and Therapeutics*, **1997**, 20, 453-63	1.4	100
235	Percutaneous absorption of salicylic acid, theophylline, 2, 4-dimethylamine, diethyl hexyl phthalic acid, and p-aminobenzoic acid in the isolated perfused porcine skin flap compared to man in vivo. *Toxicology and Applied Pharmacology*, **1998**, 151, 159-65	4.6	96
234	Protein binding modulates the cellular uptake of silver nanoparticles into human cells: implications for in vitro to in vivo extrapolations?. *Toxicology Letters*, **2013**, 220, 286-93	4.4	93
233	Electrically-assisted transdermal drug delivery. *Pharmaceutical Research*, **1997**, 14, 687-97	4.5	91

232   Quantum dot penetration into viable human skin. *Nanotoxicology*, **2012**, 6, 173-85   5.3   89

231   Pharmacokinetics of nanomaterials: an overview of carbon nanotubes, fullerenes and quantum dots. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2009**, 1, 26-34   9.2   87

230   Extralabel use of nonsteroidal anti-inflammatory drugs in cattle. *Journal of the American Veterinary Medical Association*, **2008**, 232, 697-701   1   84

229   Predicting skin permeability from complex chemical mixtures. *Toxicology and Applied Pharmacology*, **2005**, 208, 99-110   4.6   83

228   Surface chemistry of gold nanoparticles determines the biocorona composition impacting cellular uptake, toxicity and gene expression profiles in human endothelial cells. *Nanotoxicology*, **2017**, 11, 507-519   5.3   79

227   Gold and silver nanoparticle interactions with human proteins: impact and implications in biocorona formation. *Journal of Materials Chemistry B*, **2015**, 3, 2075-2082   7.3   79

226   Protein corona modulation of hepatocyte uptake and molecular mechanisms of gold nanoparticle toxicity. *Nanotoxicology*, **2017**, 11, 64-75   5.3   79

225   Trace analysis of fullerenes in biological samples by simplified liquid-liquid extraction and high-performance liquid chromatography. *Journal of Chromatography A*, **2006**, 1129, 216-22   4.5   78

224   Skin penetration and kinetics of pristine fullerenes (C60) topically exposed in industrial organic solvents. *Toxicology and Applied Pharmacology*, **2010**, 242, 29-37   4.6   77

223   The isolated perfused porcine skin flap as an in vitro model for percutaneous absorption and cutaneous toxicology. *Critical Reviews in Toxicology*, **1991**, 21, 329-44   5.7   77

222   Pulsatile transdermal delivery of LHRH using electroporation: Drug delivery and skin toxicology. *Journal of Controlled Release*, **1995**, 36, 229-233   11.7   74

221   A computational framework for interspecies pharmacokinetics, exposure and toxicity assessment of gold nanoparticles. *Nanomedicine*, **2016**, 11, 107-19   5.6   73

220   Dermal absorption and distribution of topically dosed jet fuels jet-A, JP-8, and JP-8(100). *Toxicology and Applied Pharmacology*, **1999**, 160, 60-75   4.6   72

219   Use of probabilistic modeling within a physiologically based pharmacokinetic model to predict sulfamethazine residue withdrawal times in edible tissues in swine. *Antimicrobial Agents and Chemotherapy*, **2006**, 50, 2344-51   5.9   70

218   Meta-Analysis of Nanoparticle Delivery to Tumors Using a Physiologically Based Pharmacokinetic Modeling and Simulation Approach. *ACS Nano*, **2020**, 14, 3075-3095   16.7   68

217   Dynamics of nanoparticle-protein corona complex formation: analytical results from population balance equations. *PLoS ONE*, **2013**, 8, e64690   3.7   68

216   Identification of the pathway of iontophoretic drug delivery: light and ultrastructural studies using mercuric chloride in pigs. *Pharmaceutical Research*, **1994**, 11, 251-6   4.5   68

215   The application of allometric scaling principles to predict pharmacokinetic parameters across species. *Expert Opinion on Drug Metabolism and Toxicology*, **2014**, 10, 1241-53   5.5   66

214	Comparison of quantum dot biodistribution with a blood-flow-limited physiologically based pharmacokinetic model. *Nano Letters*, **2009**, 9, 794-9	11.5	66
213	Predicting Adsorption Affinities of Small Molecules on Carbon Nanotubes Using Molecular Dynamics Simulation. *ACS Nano*, **2015**, 9, 11761-74	16.7	63
212	Update on drugs prohibited from extralabel use in food animals. *Journal of the American Veterinary Medical Association*, **2009**, 235, 528-34	1	63
211	Estimating meat withdrawal times in pigs exposed to melamine contaminated feed using a physiologically based pharmacokinetic model. *Regulatory Toxicology and Pharmacology*, **2008**, 51, 324-31	3.4	62
210	Biodistribution of quantum dot nanoparticles in perfused skin: evidence of coating dependency and periodicity in arterial extraction. *Nano Letters*, **2007**, 7, 2865-70	11.5	61
209	Model systems in iontophoresis transport efficacy. *Advanced Drug Delivery Reviews*, **1992**, 9, 265-287	18.5	59
208	Assessing vehicle effects on skin absorption using artificial membrane assays. *European Journal of Pharmaceutical Sciences*, **2013**, 50, 569-76	5.1	57
207	Pharmacokinetic and phase I evaluation of carboplatin in dogs. *Journal of Veterinary Internal Medicine*, **1993**, 7, 235-40	3.1	57
206	Predicting skin permeability from complex chemical mixtures: dependency of quantitative structure permeation relationships on biology of skin model used. *Toxicological Sciences*, **2011**, 119, 224-32	4.4	52
205	Predicting skin permeability from complex vehicles. *Advanced Drug Delivery Reviews*, **2013**, 65, 265-77	18.5	51
204	Topical penetration of piroxicam is dependent on the distribution of the local cutaneous vasculature. *Pharmaceutical Research*, **1993**, 10, 1326-31	4.5	51
203	A physiologically based pharmacokinetic model for polyethylene glycol-coated gold nanoparticles of different sizes in adult mice. *Nanotoxicology*, **2016**, 10, 162-72	5.3	44
202	Mixture effects of JP-8 additives on the dermal disposition of jet fuel components. *Toxicology and Applied Pharmacology*, **2001**, 175, 269-81	4.6	44
201	Validated models for predicting skin penetration from different vehicles. *European Journal of Pharmaceutical Sciences*, **2010**, 41, 612-6	5.1	43
200	Development of a physiologic-based pharmacokinetic model for estimating sulfamethazine concentrations in swine and application to prediction of violative residues in edible tissues. *American Journal of Veterinary Research*, **2005**, 66, 1686-93	1.1	43
199	Effect of selective lipid extraction from different body regions on epidermal barrier function. *Pharmaceutical Research*, **2001**, 18, 992-8	4.5	43
198	**2011**,		43
197	Effects of short-term high-dose and low-dose dermal exposure to Jet A, JP-8 and JP-8 + 100 jet fuels. *Journal of Applied Toxicology*, **2001**, 21, 485-94	4.1	42

196	Pharmacokinetics and ovarian-stimulatory effects of equine and human chorionic gonadotropins administered singly and in combination in the domestic cat. *Biology of Reproduction*, **1997**, 57, 295-302	3.9	41
195	Transdermal Iontophoretic Peptide Delivery: In Vitro and In Vivo Studies with Luteinizing Hormone Releasing Hormone. *Journal of Pharmaceutical Sciences*, **1993**, 82, 240-243	3.9	41
194	Performance Assessment and Translation of Physiologically Based Pharmacokinetic Models From acslX to Berkeley Madonna, MATLAB, and R Language: Oxytetracycline and Gold Nanoparticles As Case Examples. *Toxicological Sciences*, **2017**, 158, 23-35	4.4	40
193	Development and application of a multiroute physiologically based pharmacokinetic model for oxytetracycline in dogs and humans. *Journal of Pharmaceutical Sciences*, **2015**, 104, 233-43	3.9	40
192	Predicting the impact of biocorona formation kinetics on interspecies extrapolations of nanoparticle biodistribution modeling. *Nanomedicine*, **2015**, 10, 25-33	5.6	40
191	Evaluation of protective effects of sodium thiosulfate, cysteine, niacinamide and indomethacin on sulfur mustard-treated isolated perfused porcine skin. *Chemico-Biological Interactions*, **1995**, 96, 249-62	5	39
190	Skin toxicity of jet fuels: ultrastructural studies and the effects of substance P. *Toxicology and Applied Pharmacology*, **2004**, 195, 339-47	4.6	37
189	Differential relationship between the carbon chain length of jet fuel aliphatic hydrocarbons and their ability to induce cytotoxicity vs. interleukin-8 release in human epidermal keratinocytes. *Toxicological Sciences*, **2002**, 69, 226-33	4.4	37
188	Development and application of a population physiologically based pharmacokinetic model for penicillin G in swine and cattle for food safety assessment. *Food and Chemical Toxicology*, **2017**, 107, 74-87	4.7	36
187	Intrinsic biological property of colloidal fullerene nanoparticles (nC60): lack of lethality after high dose exposure to human epidermal and bacterial cells. *Toxicology Letters*, **2010**, 197, 128-34	4.4	36
186	The use of mechanistically defined chemical mixtures (MDCM) to assess component effects on the percutaneous absorption and cutaneous disposition of topically exposed chemicals. I. Studies with parathion mixtures in isolated perfused porcine skin. *Toxicology and Applied Pharmacology*, **1996**, 141, 473-86	4.6	36
185	Effect of chemical interactions in pentachlorophenol mixtures on skin and membrane transport. *Toxicological Sciences*, **2002**, 69, 295-305	4.4	35
184	Use of methyl salicylate as a simulant to predict the percutaneous absorption of sulfur mustard. *Journal of Applied Toxicology*, **2001**, 21, 91-9	4.1	34
183	NanoEHS beyond Toxicity - Focusing on Biocorona. *Environmental Science: Nano*, **2017**, 7, 1433-1454	7.1	33
182	Comparison of pharmacokinetics and milk elimination of flunixin in healthy cows and cows with mastitis. *Journal of the American Veterinary Medical Association*, **2015**, 246, 118-25	1	33
181	The Pig as a Model for Cutaneous Pharmacology and Toxicology Research **1996**, 425-458		33
180	Interaction of nanomaterials with skin: Aspects of absorption and biodistribution. *Nanotoxicology*, **2009**, 3, 188-193	5.3	32
179	Effect of formulation and route of administration on tissue residues and withdrawal times. *Journal of the American Veterinary Medical Association*, **2005**, 227, 1574-7	1	32

178	Development of a physiologically based pharmacokinetic model for flunixin in cattle (Bos taurus). *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2014**, 31, 1506-21	3.2	29
177	Pyridostigmine bromide modulates topical irritant-induced cytokine release from human epidermal keratinocytes and isolated perfused porcine skin. *Toxicology*, **2003**, 183, 15-28	4.4	29
176	Transdermal iontophoretic delivery of luteinizing hormone releasing hormone (LHRH): effect of repeated administration. *Pharmaceutical Research*, **1994**, 11, 1000-3	4.5	29
175	Percutaneous absorption of topical N,N-diethyl-m-toluamide (DEET): effects of exposure variables and coadministered toxicants. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2003**, 66, 133-51	3.2	28
174	Extralabel use of ivermectin and moxidectin in food animals. *Journal of the American Veterinary Medical Association*, **2000**, 217, 668-71	1	28
173	Membrane transport of naphthalene and dodecane in jet fuel mixtures. *Toxicology and Industrial Health*, **2000**, 16, 225-238	1.8	28
172	Pentachlorophenol dermal absorption and disposition from soil in swine: effects of occlusion and skin microorganism inhibition. *Toxicology and Applied Pharmacology*, **1997**, 147, 234-46	4.6	27
171	Naïve averaged, naïve pooled, and population pharmacokinetics of orally administered marbofloxacin in juvenile harbor seals. *Journal of the American Veterinary Medical Association*, **2007**, 230, 390-5	1	27
170	Nanoparticle surface characterization and clustering through concentration-dependent surface adsorption modeling. *ACS Nano*, **2014**, 8, 9446-56	16.7	26
169	The effect of formulations and experimental conditions on in vitro human skin permeation-Data from updated EDETOX database. *International Journal of Pharmaceutics*, **2012**, 434, 280-91	6.5	26
168	Comparative mixture effects of JP-8(100) additives on the dermal absorption and disposition of jet fuel hydrocarbons in different membrane model systems. *Toxicology Letters*, **2004**, 150, 351-65	4.4	26
167	Mixture component effects on the in vitro dermal absorption of pentachlorophenol. *Archives of Toxicology*, **2001**, 75, 329-34	5.8	25
166	Zinc Oxide Nanoparticle-Poly I:C RNA Complexes: Implication as Therapeutics against Experimental Melanoma. *Molecular Pharmaceutics*, **2017**, 14, 614-625	5.6	24
165	Pharmacokinetics of tulathromycin following subcutaneous administration in meat goats. *Research in Veterinary Science*, **2011**, 90, 477-9	2.5	24
164	Disposition of melamine residues in blood and milk from dairy goats exposed to an oral bolus of melamine. *Food and Chemical Toxicology*, **2010**, 48, 2542-6	4.7	24
163	An experimentally based approach for predicting skin permeability of chemicals and drugs using a membrane-coated fiber array. *Toxicology and Applied Pharmacology*, **2007**, 221, 320-8	4.6	24
162	Pyridostigmine bromide modulates the dermal disposition of [14C]permethrin. *Toxicology and Applied Pharmacology*, **2002**, 181, 164-73	4.6	24
161	Comparative in vitro percutaneous absorption of nonylphenol and nonylphenol ethoxylates (NPE-4 and NPE-9) through human, porcine and rat skin. *Toxicology and Industrial Health*, **2000**, 16, 49-57	1.8	24

160	A biophysically based dermatopharmacokinetic compartment model for quantifying percutaneous penetration and absorption of topically applied agents. I. Theory. *Journal of Pharmaceutical Sciences*, **1995**, 84, 599-608	3.9	24
159	Extralabel use of penicillin in food animals. *Journal of the American Veterinary Medical Association*, **2006**, 229, 1401-3	1	23
158	Effect of humidity and occlusion on the percutaneous absorption of parathion in vitro. *Pharmaceutical Research*, **1993**, 10, 152-5	4.5	23
157	Human Food Safety Implications of Variation in Food Animal Drug Metabolism. *Scientific Reports*, **2016**, 6, 27907	4.9	22
156	Elimination kinetics of ceftiofur hydrochloride after intramammary administration in lactating dairy cows. *Journal of the American Veterinary Medical Association*, **2004**, 224, 1827-30	1	22
155	Characterization of lewisite toxicity in isolated perfused skin. *Toxicology and Applied Pharmacology*, **1992**, 116, 189-201	4.6	22
154	Biological and environmental surface interactions of nanomaterials: characterization, modeling, and prediction. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2017**, 9, e1440	9.2	21
153	A framework for meta-analysis of veterinary drug pharmacokinetic data using mixed effect modeling. *Journal of Pharmaceutical Sciences*, **2015**, 104, 1230-9	3.9	21
152	Update on FARAD food animal drug withholding recommendations. *Journal of the American Veterinary Medical Association*, **2003**, 223, 1277-8	1	21
151	Effect of vehicles and sodium lauryl sulphate on xenobiotic permeability and stratum corneum partitioning in porcine skin. *Toxicology*, **2005**, 206, 325-35	4.4	21
150	Extrapolated withdrawal-interval estimator (EWE) algorithm: a quantitative approach to establishing extralabel withdrawal times. *Regulatory Toxicology and Pharmacology*, **2002**, 36, 131-7	3.4	21
149	Limitations of MIC as sole metric of pharmacodynamic response across the range of antimicrobial susceptibilities within a single bacterial species. *Scientific Reports*, **2016**, 6, 37907	4.9	21
148	Excretory, Secretory, and Tissue Residues after Label and Extra-label Administration of Flunixin Meglumine to Saline- or Lipopolysaccharide-Exposed Dairy Cows. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 4893-901	5.7	20
147	Probabilistic Physiologically Based Pharmacokinetic Model for Penicillin G in Milk From Dairy Cows Following Intramammary or Intramuscular Administrations. *Toxicological Sciences*, **2018**, 164, 85-100	4.4	19
146	Pharmacokinetics and tissue elimination of tulathromycin following subcutaneous administration in meat goats. *American Journal of Veterinary Research*, **2012**, 73, 1634-40	1.1	19
145	Drugs approved for small ruminants. *Journal of the American Veterinary Medical Association*, **2004**, 224, 520-3	1	19
144	Estimating provisional acceptable residues for extralabel drug use in livestock. *Regulatory Toxicology and Pharmacology*, **1999**, 29, 287-99	3.4	19
143	Pharmacologic modulation of the cutaneous vasculature in the isolated perfused porcine skin flap. *Journal of Pharmaceutical Sciences*, **1994**, 83, 1682-9	3.9	19

142	Interspecies mixed-effect pharmacokinetic modeling of penicillin G in cattle and swine. *Antimicrobial Agents and Chemotherapy*, **2014**, 58, 4495-503	5.9	17
141	Extralabel intramammary use of drugs in dairy cattle. *Journal of the American Veterinary Medical Association*, **2005**, 226, 1994-1996	1	17
140	Aminoglycoside residues in food of animal origin. *Journal of the American Veterinary Medical Association*, **2005**, 227, 63-6	1	17
139	Probabilistic risk assessment of gold nanoparticles after intravenous administration by integrating in vitro and in vivo toxicity with physiologically based pharmacokinetic modeling. *Nanotoxicology*, **2018**, 12, 453-469	5.3	16
138	Lack of hydroxylated fullerene toxicity after intravenous administration to female Sprague-Dawley rats. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2012**, 75, 367-73	3.2	16
137	Computational approaches and metrics required for formulating biologically realistic nanomaterial pharmacokinetic models. *Computational Science & Discovery*, **2013**, 6, 014005		16
136	A novel in-vitro technique for studying percutaneous permeation with a membrane-coated fiber and gas chromatography/mass spectrometry: part I. Performances of the technique and determination of the permeation rates and partition coefficients of chemical mixtures. *Pharmaceutical Research*, **2003**, 20, 275-82	4.5	16
135	Gulf War related exposure factors influencing topical absorption of 14C-permethrin. *Toxicology Letters*, **2002**, 135, 61-71	4.4	16
134	The use of mechanistically defined chemical mixtures (MDCM) to assess mixture component effects on the percutaneous absorption and cutaneous disposition of topically exposed chemicals. II. Development of a general dermatopharmacokinetic model for use in risk assessment. *Toxicology and Applied Pharmacology*, **1996**, 141, 487-96	4.6	16
133	Mixed-effects modeling of the interspecies pharmacokinetic scaling of oxytetracycline. *Journal of Pharmaceutical Sciences*, **2002**, 91, 331-41	3.9	15
132	Physicochemical determinants of linear alkylbenzene sulfonate (LAS) disposition in skin exposed to aqueous cutting fluid mixtures. *Toxicology and Industrial Health*, **2002**, 18, 237-48	1.8	15
131	Quantification of nanoparticle pesticide adsorption: computational approaches based on experimental data. *Nanotoxicology*, **2016**, 10, 1118-28	5.3	15
130	Experimental factors affecting in vitro absorption of six model compounds across porcine skin. *Toxicology in Vitro*, **2012**, 26, 1191-8	3.6	14
129	Quantification of chemical mixture interactions modulating dermal absorption using a multiple membrane fiber array. *Chemical Research in Toxicology*, **2008**, 21, 591-9	4	14
128	Predicting dermal permeability of biocides in commercial cutting fluids using a LSER approach. *Toxicology Letters*, **2007**, 175, 34-43	4.4	14
127	Membrane-coated fiber array approach for predicting skin permeability of chemical mixtures from different vehicles. *Toxicological Sciences*, **2007**, 99, 153-61	4.4	14
126	COMPASS PLOTS: A COMBINATION OF STAR PLOT AND ANALYSIS OF MEANS TO VISUALIZE SIGNIFICANT INTERACTIONS IN COMPLEX TOXICOLOGY STUDIES **2000**, 10, 313-332		14
125	Guide to FARAD resources: historical and future perspectives. *Journal of the American Veterinary Medical Association*, **2017**, 250, 1131-1139	1	13

124	Integration of Food Animal Residue Avoidance Databank (FARAD) empirical methods for drug withdrawal interval determination with a mechanistic population-based interactive physiologically based pharmacokinetic (iPBPK) modeling platform: example for flunixin meglumine administration. *Archives of Toxicology*, **2019**, 93, 1865-1880	5.8	13
123	Comparison of ELISA and LC-MS/MS for the measurement of flunixin plasma concentrations in beef cattle after intravenous and subcutaneous administration. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 2679-86	5.7	13
122	Evaluation of perfused porcine skin as a model system to quantitate tissue distribution of fullerene nanoparticles. *Toxicology Letters*, **2010**, 197, 1-6	4.4	13
121	Cutaneous toxicity of the benzidine dye direct red 28 applied as mechanistically-defined chemical mixtures (MDCM) in perfused porcine skin. *Toxicology Letters*, **1997**, 93, 159-69	4.4	13
120	Modeling gold nanoparticle biodistribution after arterial infusion into perfused tissue: effects of surface coating, size and protein corona. *Nanotoxicology*, **2018**, 12, 1093-1112	5.3	12
119	The future of veterinary therapeutics: a glimpse towards 2030. *Veterinary Journal*, **2007**, 174, 462-71	2.5	12
118	Toxicity of jet fuel aliphatic and aromatic hydrocarbon mixtures on human epidermal keratinocytes: evaluation based on in vitro cytotoxicity and interleukin-8 release. *Archives of Toxicology*, **2006**, 80, 508-23	5.8	12
117	Current update on drugs for game bird species. *Journal of the American Veterinary Medical Association*, **2007**, 231, 1506-8	1	12
116	Enhanced systemic tissue distribution after dermal versus intravenous 3,3Q,4,4Q-tetrachlorobiphenyl exposure: limited utility of radiolabel blood area under the curve and excretion data in dermal absorption calculations and tissue exposure assessment. *Toxicology and Applied Pharmacology*, **2001**, 177, 26-37	4.6	12
115	Transdermal iontophoretic peptide delivery: in vitro and in vivo studies with luteinizing hormone releasing hormone. *Journal of Pharmaceutical Sciences*, **1993**, 82, 240-3	3.9	12
114	Pharmacokinetics of Mequindox and Its Marker Residue 1,4-Bisdesoxymequindox in Swine Following Multiple Oral Gavage and Intramuscular Administration: An Experimental Study Coupled with Population Physiologically Based Pharmacokinetic Modeling. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 5768-5777	5.7	11
113	Development and application of a population physiologically based pharmacokinetic model for florfenicol and its metabolite florfenicol amine in cattle. *Food and Chemical Toxicology*, **2019**, 126, 285-294	4.7	11
112	Physiological parameter values for physiologically based pharmacokinetic models in food-producing animals. Part I: Cattle and swine. *Journal of Veterinary Pharmacology and Therapeutics*, **2020**, 43, 385-420	1.4	11
111	Oxidative stress response in canine in vitro liver, kidney and intestinal models with seven potential dietary ingredients. *Toxicology Letters*, **2016**, 241, 49-59	4.4	11
110	Modeling the effect of experimental variables on the in vitro permeation of six model compounds across porcine skin. *International Journal of Pharmaceutics*, **2013**, 443, 58-67	6.5	11
109	In vitro biodistribution of silver nanoparticles in isolated perfused porcine skin flaps. *Journal of Applied Toxicology*, **2012**, 32, 913-9	4.1	11
108	Detection of sulfur mustard bis (2-chloroethyl) sulfide and metabolites after topical application in the isolated perfused porcine skin flap. *Life Sciences*, **1995**, 56, 1385-94	6.8	11
107	Isoelectric focusing and capillary zone electrophoretic studies using luteinizing hormone releasing hormone and its analog. *Journal of Pharmaceutical Sciences*, **1994**, 83, 654-6	3.9	11

106	Estimation of tulathromycin depletion in plasma and milk after subcutaneous injection in lactating goats using a nonlinear mixed-effects pharmacokinetic modeling approach. *BMC Veterinary Research*, **2016**, 12, 258	2.7	10
105	Screening and Confirmatory Analyses of Flunixin in Tissues and Bodily Fluids after Intravenous or Intramuscular Administration to Cull Dairy Cows with or without Lipopolysaccharide Challenge. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 336-45	5.7	10
104	A compartment model for the membrane-coated fiber technique used for determining the absorption parameters of chemicals into lipophilic membranes. *Pharmaceutical Research*, **2004**, 21, 1345-52	4.5	10
103	Percutaneous absorption of 2,6-di-tert-butyl-4-nitrophenol (DBNP) in isolated perfused porcine skin. *Toxicology in Vitro*, **2003**, 17, 289-92	3.6	10
102	Antidotes in food animal practice. *Journal of the American Veterinary Medical Association*, **2005**, 226, 884-7	1	10
101	Avoiding violative flunixin meglumine residues in cattle and swine. *Journal of the American Veterinary Medical Association*, **2017**, 250, 182-189	1	9
100	Limitations of MIC as the sole criterion in antimicrobial drug dosage regimen design: the need for full characterization of antimicrobial pharmacodynamic profile especially for drug-resistant organisms. *Veterinary Journal*, **2013**, 198, 15-8	2.5	9
99	Surfactant effects on skin absorption of model organic chemicals: implications for dermal risk assessment studies. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2010**, 73, 725-37	3.2	9
98	Sulfamethazine water medication pharmacokinetics and contamination in a commercial pig production unit. *Journal of Food Protection*, **2008**, 71, 584-9	2.5	9
97	Dermal Disposition of Triazine in Cutting Fluid Mixtures. *Cutaneous and Ocular Toxicology*, **2003**, 22, 215-229		9
96	Current approved drugs for aquatic species. *Journal of the American Veterinary Medical Association*, **2004**, 224, 50-1	1	9
95	Determination of the partition coefficients and absorption kinetic parameters of chemicals in a lipophilic membrane/water system by using a membrane-coated fiber technique. *European Journal of Pharmaceutical Sciences*, **2005**, 24, 15-23	5.1	9
94	Membrane uptake kinetics of jet fuel aromatic hydrocarbons from aqueous solutions studied by a membrane-coated fiber technique. *Toxicology Mechanisms and Methods*, **2005**, 15, 307-16	3.6	9
93	An integrated experimental and physiologically based pharmacokinetic modeling study of penicillin G in heavy sows. *Journal of Veterinary Pharmacology and Therapeutics*, **2019**, 42, 461-475	1.4	8
92	Dermal permeation of biocides and aromatic chemicals in three generic formulations of metalworking fluids. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2009**, 72, 832-41	3.2	8
91	Application of linear solvation energy relationships to a custom-made polyaniline solid-phase microextraction fiber and three commercial fibers. *Journal of Chromatography A*, **2008**, 1188, 108-17	4.5	8
90	The use of enzyme histochemistry in detecting cutaneous toxicity of three topically applied jet fuel mdttures. *Toxicology Mechanisms and Methods*, **2002**, 12, 17-34	3.6	8
89	Pharmacokinetics and tissue elimination of flunixin in veal calves. *American Journal of Veterinary Research*, **2016**, 77, 634-40	1.1	8

88	Making Sense of Pharmacovigilance and Drug Adverse Event Reporting: Comparative Similarity Association Analysis Using AI Machine Learning Algorithms in Dogs and Cats. *Topics in Companion Animal Medicine*, **2019**, 37, 100366	1.1	7
87	Development of a mixed-effect pharmacokinetic model for vehicle modulated in vitro transdermal flux of topically applied penetrants. *Journal of Pharmaceutical Sciences*, **2014**, 103, 1002-12	3.9	7
86	Evaluation of factors important in modeling plasma concentrations of tetracycline hydrochloride administered in water in swine. *American Journal of Veterinary Research*, **2012**, 73, 1641-9	1.1	7
85	Regression method of the hydrophobicity ruler approach for determining octanol/water partition coefficients of very hydrophobic compounds. *Chemosphere*, **2007**, 66, 1086-93	8.4	7
84	The Food Animal Residue Avoidance Databank (FARAD). Past, present and future. *Veterinary Clinics of North America - Food Animal Practice*, **1999**, 15, 75-88	4.6	7
83	An in vitro-in vivo validation of the isolated perfused tumor and skin flap preparation as a model of cisplatin delivery to tumors. *Journal of Pharmacological and Toxicological Methods*, **1996**, 35, 173-7	1.7	7
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