# Richard A Corley

List of Publications by Year
in descending order



| 104 | 3,597 | 147566 | 161609 |
|---|---|---|---|
| papers | citations | 31 h-index | 54 g-index |

| 105 | 105 | 105 | 4100 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Translating dosimetry of Dibenzo[def,p]chrysene (DBC) and metabolites across dose and species using physiologically based pharmacokinetic (PBPK) modeling. Toxicology and Applied Pharmacology, 2022, 438, 115830. | 1.3 | 3 |
| 2 | New Approach Methodology for Assessing Inhalation Risks of a Contact Respiratory Cytotoxicant: Computational Fluid Dynamics-Based Aerosol Dosimetry Modeling for Cross-Species and In Vitro Comparisons. Toxicological Sciences, 2021, 182, 243-259. | 1.4 | 13 |
| 3 | Exposure to an Environmental Mixture of Polycyclic Aromatic Hydrocarbons Induces Hepatic Cytochrome P450 Enzymes in Mice. Chemical Research in Toxicology, 2021, 34, 2145-2156. | 1.7 | 10 |
| 4 | Lipid Coverage in Nanospray Desorption Electrospray Ionization Mass Spectrometry Imaging of Mouse Lung Tissues. Analytical Chemistry, 2019, 91, 11629-11635. | 3.2 | 44 |
| 5 | An integrated experimental-computational approach for predicting virulence in New Zealand white rabbits and humans following inhalation exposure to Bacillus anthracis spores. PLoS ONE, 2019, 14, e0219160. | 1.1 | 5 |
| 6 | Benzo[a]pyrene Induction of Glutathione S-Transferases: An Activity-Based Protein Profiling Investigation. Chemical Research in Toxicology, 2019, 32, 1259-1267. | 1.7 | 13 |
| 7 | Ventilation Modulation and Nanoparticle Deposition in Respiratory and Olfactory Regions of Rabbit Nose. Animals, 2019, 9, 1107. | 1.0 | 5 |
| 8 | Toxicokinetics of benzo[a]pyrene in humans: Extensive metabolism as determined by UPLC-accelerator mass spectrometry following oral micro-dosing. Toxicology and Applied Pharmacology, 2019, 364, 97-105. | 1.3 | 23 |
| 9 | Spatial distribution of marker gene activity in the mouse lung during alveolarization. Data in Brief, 2019, 22, 365-372. | 0.5 | 6 |
| 10 | High-Fat Diets Alter the Modulatory Effects of Xenobiotics on Cytochrome P450 Activities. Chemical Research in Toxicology, 2018, 31, 308-318. | 1.7 | 28 |
| 11 | Extracellular matrix in lung development, homeostasis and disease. Matrix Biology, 2018, 73, 77-104. | 1.5 | 200 |
| 12 | Towards High-Resolution Tissue Imaging Using Nanospray Desorption Electrospray Ionization Mass Spectrometry Coupled to Shear Force Microscopy. Journal of the American Society for Mass Spectrometry, 2018, 29, 316-322. | 1.2 | 61 |
| 13 | Time-resolved proteome profiling of normal lung development. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L11-L24. | 1.3 | 25 |
| 14 | Global long-range transport and lung cancer risk from polycyclic aromatic hydrocarbons shielded by coatings of organic aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1246-1251. | 3.3 | 185 |
| 15 | In vitro metabolism of benzo[a]pyrene-7,8-dihydrodiol and dibenzo[def,p]chrysene-11,12 diol in rodent and human hepatic microsomes. Toxicology Letters, 2017, 269, 23-32. | 0.4 | 17 |
| 16 | LungMAP: The Molecular Atlas of Lung Development Program. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L733-L740. | 1.3 | 162 |
| 17 | In Vitro Exposure Systems and Dosimetry Assessment Tools for Inhaled Tobacco Products: Workshop Proceedings, Conclusions and Paths Forward for In Vitro Model Use. ATLA Alternatives To Laboratory Animals, 2017, 45, 117-158. | 0.7 | 21 |
| 18 | Lipidomics reveals dramatic lipid compositional changes in the maturing postnatal lung. Scientific Reports, 2017, 7, 40555. | 1.6 | 67 |

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|---|---|---|---|
| 19 | Hepatic Cytochrome P450 Activity, Abundance, and Expression Throughout Human Development. Drug Metabolism and Disposition, 2016, 44, 984-991. | 1.7 | 84 |
| 20 | Anatomical Details of the Rabbit Nasal Passages and Their Implications in Breathing, Air Conditioning, and Olfaction. Anatomical Record, 2016, 299, 853-868. | 0.8 | 30 |
| 21 | Spatially-Resolved Proteomics: Rapid Quantitative Analysis of Laser Capture Microdissected Alveolar Tissue Samples. Scientific Reports, 2016, 6, 39223. | 1.6 | 69 |
| 22 | Modeling particle deposition in the pig respiratory tract. Journal of Aerosol Science, 2016, 99, 107-124. | 1.8 | 17 |
| 23 | Total and regional deposition of inhaled aerosols in supine healthy subjects and subjects with mild-to-moderate COPD. Journal of Aerosol Science, 2016, 99, 27-39. | 1.8 | 15 |
| 24 | Modeling of inertial deposition in scaled models of rat and human nasal airways: Towards in vitro regional dosimetry in small animals. Journal of Aerosol Science, 2016, 99, 78-93. | 1.8 | 31 |
| 25 | Human Microdosing with Carcinogenic Polycyclic Aromatic Hydrocarbons: In Vivo Pharmacokinetics of Dibenzo[def,p]chrysene and Metabolites by UPLC Accelerator Mass Spectrometry. Chemical Research in Toxicology, 2016, 29, 1641-1650. | 1.7 | 15 |
| 26 | Expanding on Successful Concepts, Models, and Organization. Environmental Science & Technology, 2016, 50, 8921-8922. | 4.6 | 1 |
| 27 | Comparison of realistic and idealized breathing patterns in computational models of airflow and vapor dosimetry in the rodent upper respiratory tract. Inhalation Toxicology, 2016, 28, 192-202. | 0.8 | 5 |
| 28 | Computational fluid dynamics modeling of Bacillus anthracis spore deposition in rabbit and human respiratory airways. Journal of Aerosol Science, 2016, 99, 64-77. | 1.8 | 22 |
| 29 | Completing the Link between Exposure Science and Toxicology for Improved Environmental Health Decision Making: The Aggregate Exposure Pathway Framework. Environmental Science & Technology, 2016, 50, 4579-4586. | 4.6 | 96 |
| 30 | Development of a Zealand white rabbit deposition model to study inhalation anthrax. Inhalation Toxicology, 2016, 28, 80-88. | 0.8 | 9 |
| 31 | CFD Modeling and Image Analysis of Exhaled Aerosols due to a Growing Bronchial Tumor: towards Non-Invasive Diagnosis and Treatment of Respiratory Obstructive Diseases. Theranostics, 2015, 5, 443-455. | 4.6 | 28 |
| 32 | Comparison of CT-derived ventilation maps with deposition patterns of inhaled microspheres in rats. Experimental Lung Research, 2015, 41, 135-145. | 0.5 | 10 |
| 33 | Comparative Risks of Aldehyde Constituents in Cigarette Smoke Using Transient Computational Fluid Dynamics/Physiologically Based Pharmacokinetic Models of the Rat and Human Respiratory Tracts. Toxicological Sciences, 2015, 146, 65-88. | 1.4 | 45 |
| 34 | Human in Vivo Pharmacokinetics of [<sup>14</sup>C]Dibenzo[def,p]chrysene by Accelerator Mass Spectrometry Following Oral Microdosing. Chemical Research in Toxicology, 2015, 28, 126-134. | 1.7 | 21 |
| 35 | Respiratory tract lung geometry and dosimetry model for male Sprague-Dawley rats. Inhalation Toxicology, 2014, 26, 524-544. | 0.8 | 17 |
| 36 | In vitro metabolism of benzo[a]pyrene and dibenzo[def,p]chrysene in rodent and human hepatic microsomes. Toxicology Letters, 2014, 228, 48-55. | 0.4 | 26 |

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| 37 | An efficient algorithm for mapping imaging data to 3D unstructured grids in computational biomechanics. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 1-16. | 1.0 | 1 |
| 38 | A bidirectional coupling procedure applied to multiscale respiratory modeling. Journal of Computational Physics, 2013, 244, 148-167. | 1.9 | 28 |
| 39 | Oral Reference Dose for ethylene glycol based on oxalate crystal-induced renal tubule degeneration as the critical effect. Regulatory Toxicology and Pharmacology, 2013, 65, 229-241. | 1.3 | 5 |
| 40 | Diet-induced obesity reprograms the inflammatory response of the murine lung to inhaled endotoxin. Toxicology and Applied Pharmacology, 2013, 267, 137-148. | 1.3 | 18 |
| 41 | Impaired Transcriptional Response of the Murine Heart to Cigarette Smoke in the Setting of High Fat Diet and Obesity. Chemical Research in Toxicology, 2013, 26, 1034-1042. | 1.7 | 11 |
| 42 | Impact of Pregnancy on the Pharmacokinetics of Dibenzo[def,p]chrysene in Mice. Toxicological Sciences, 2013, 135, 48-62. | 1.4 | 22 |
| 43 | Development of a rhesus monkey lung geometry model and application to particle deposition in comparison to humans. Inhalation Toxicology, 2012, 24, 869-899. | 0.8 | 36 |
| 44 | Comparative Computational Modeling of Airflows and Vapor Dosimetry in the Respiratory Tracts of Rat, Monkey, and Human. Toxicological Sciences, 2012, 128, 500-516. | 1.4 | 141 |
| 45 | Phase-contrast MRI and CFD modeling of apparent 3He gas flow in rat pulmonary airways. Journal of Magnetic Resonance, 2012, 221, 129-138. | 1.2 | 23 |
| 46 | Transplacental carcinogenesis with dibenzo[def,p]chrysene (DBC): Timing of maternal exposures determines target tissue response in offspring. Cancer Letters, 2012, 317, 49-55. | 3.2 | 28 |
| 47 | Branchâ€Based Model for the Diameters of the Pulmonary Airways: Accounting for Departures From Selfâ€Consistency and Registration Errors. Anatomical Record, 2012, 295, 1027-1044. | 0.8 | 2 |
| 48 | A multiscale bidirectional coupling framework. , 2011, 2011, 2414-7. | | 1 |
| 49 | Extension of a PBPK model for ethylene glycol and glycolic acid to include the competitive formation and clearance of metabolites associated with kidney toxicity in rats and humans. Toxicology and Applied Pharmacology, 2011, 250, 229-244. | 1.3 | 5 |
| 50 | Preliminary physiologically based pharmacokinetic models for benzo[a]pyrene and dibenzo[def,p]chrysene in rodents. Toxicology and Applied Pharmacology, 2011, 257, 365-376. | 1.3 | 33 |
| 51 | The Impact of Dose Rate on Ethylene Glycol Developmental Toxicity and Pharmacokinetics in Pregnant CD Rats. Toxicological Sciences, 2011, 119, 178-188. | 1.4 | 11 |
| 52 | High resolution lung airway cast segmentation with proper topology suitable for computational fluid dynamic simulations. Computerized Medical Imaging and Graphics, 2010, 34, 572-578. | 3.5 | 32 |
| 53 | Magnetic resonance imaging and computational fluid dynamics (CFD) simulations of rabbit nasal airflows for the development of hybrid CFD/PBPK models. Inhalation Toxicology, 2009, 21, 512-518. | 0.8 | 15 |
| 54 | A real-time methodology to evaluate the nasal absorption of volatile compounds in anesthetized animals. Inhalation Toxicology, 2009, 21, 531-536. | 0.8 | 6 |

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| 55 | Studies supporting the development of a physiologically based pharmacokinetic (PBPK) model for methyl iodide: pharmacokinetics of sodium iodide (NaI) in pregnant rabbits. Inhalation Toxicology, 2009, 21, 519-523. | 0.8 | 6 |
| 56 | In vitroglutathione conjugation of methyl iodide in rat, rabbit, and human blood and tissues. Inhalation Toxicology, 2009, 21, 524-530. | 0.8 | 6 |
| 57 | An Automated Selfâ€Similarity Analysis of the Pulmonary Tree of the Sprague–Dawley Rat. Anatomical Record, 2008, 291, 1628-1648. | 0.8 | 19 |
| 58 | MR imaging of apparent 3He gas transport in narrow pipes and rodent airways. Journal of Magnetic Resonance, 2008, 194, 182-191. | 1.2 | 9 |
| 59 | Dosimetry considerations in the enhanced sensitivity of male Wistar rats to chronic ethylene glycol-induced nephrotoxicityâ˜†. Toxicology and Applied Pharmacology, 2008, 228, 165-178. | 1.3 | 28 |
| 60 | Physiologically Based Pharmacokinetic Modeling of 1,4-Dioxane in Rats, Mice, and Humans. Toxicological Sciences, 2008, 101, 32-50. | 1.4 | 24 |
| 61 | Physiologically Based Pharmacokinetic Modeling of the Disposition of Octamethylcyclotetrasiloxane (D4) Migration from Implants in Humans. Journal of Long-Term Effects of Medical Implants, 2008, 18, 133-144. | 0.2 | 2 |
| 62 | Three-Dimensional Mapping of Ozone-Induced Injury in the Nasal Airways of Monkeys Using Magnetic Resonance Imaging and Morphometric Techniques. Toxicologic Pathology, 2007, 35, 27-40. | 0.9 | 28 |
| 63 | Application of Magnetic Resonance (MR) Imaging for the Development and Validation of Computational Fluid Dynamic (CFD) Models of the Rat Respiratory System. Inhalation Toxicology, 2006, 18, 787-794. | 0.8 | 33 |
| 64 | T2-shortening of 3He gas by magnetic microspheres. Journal of Magnetic Resonance, 2005, 173, 90-96. | 1.2 | 3 |
| 65 | Using Physiologicallyâ€Based Pharmacokinetic Modeling to Address Nonlinear Kinetics and Changes in Rodent Physiology and Metabolism Due to Aging and Adaptation in Deriving Reference Values for Propylene Glycol Methyl Ether and Propylene Glycol Methyl Ether Acetate. Risk Analysis, 2005, 25, 271-284. | 1.5 | 10 |
| 66 | Validation of Human Physiologically Based Pharmacokinetic Model for Vinyl Acetate Against Human Nasal Dosimetry Data. Toxicological Sciences, 2005, 85, 460-467. | 1.4 | 14 |
| 67 | Derivation of a Human Equivalent Concentration for n-Butanol Using A Physiologically Based Pharmacokinetic Model for n-Butyl Acetate and Metabolites n-Butanol and n-Butyric Acid. Toxicological Sciences, 2005, 85, 429-446. | 1.4 | 33 |
| 68 | Development of a Physiologically Based Pharmacokinetic Model for Ethylene Glycol and Its Metabolite, Glycolic Acid, in Rats and Humans. Toxicological Sciences, 2005, 85, 476-490. | 1.4 | 62 |
| 69 | Mode of Action: Oxalate Crystal-Induced Renal Tubule Degeneration and Glycolic Acid-Induced Dysmorphogenesisâ€”Renal and Developmental Effects of Ethylene Glycol. Critical Reviews in Toxicology, 2005, 35, 691-702. | 1.9 | 33 |
| 70 | Incorporation of Therapeutic Interventions in Physiologically Based Pharmacokinetic Modeling of Human Clinical Case Reports of Accidental or Intentional Overdosing with Ethylene Glycol. Toxicological Sciences, 2005, 85, 491-501. | 1.4 | 18 |
| 71 | Overview: Using Mode of Action and Life Stage Information to Evaluate the Human Relevance of Animal Toxicity Data. Critical Reviews in Toxicology, 2005, 35, 663-672. | 1.9 | 166 |
| 72 | Determination of age and gender differences in biochemical processes affecting the disposition of 2-butoxyethanol and its metabolites in mice and rats to improve PBPK modeling. Toxicology Letters, 2005, 156, 127-161. | 0.4 | 13 |

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| 73 | Development of a physiologically based pharmacokinetic model for propylene glycol monomethyl ether and its acetate in rats and humans. Toxicology Letters, 2005, 156, 193-213. | 0.4 | 15 |
| 74 | Improving Predictive Modeling in Pediatric Drug Development: Pharmacokinetics, Pharmacodynamics, and Mechanistic Modeling. Annals of the New York Academy of Sciences, 2005, 1053, 505-518. | 1.8 | 8 |
| 75 | The NAS Perchlorate Review: Adverse Effects?. Environmental Health Perspectives, 2005, 113, A728-A729. | 2.8 | 3 |
| 76 | Subchronic Toxicity of Ethylene Glycol in Wistar and F-344 Rats Related to Metabolism and Clearance of Metabolites. Toxicological Sciences, 2004, 81, 502-511. | 1.4 | 57 |
| 77 | Metabolic Rate Constants for Hydroquinone in F344 Rat and Human Liver Isolated Hepatocytes: Application to a PBPK Model. Toxicological Sciences, 2004, 82, 9-25. | 1.4 | 22 |
| 78 | REVIEW OF STUDIES CONCERNING THE TUMORIGENICITY OF 2-BUTOXYETHANOL IN B6C3F1 MICE AND ITS RELEVANCE FOR HUMAN RISK ASSESSMENT. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2004, 7, 385-398. | 2.9 | 20 |
| 79 | Repeated Ingestion of 2-Butoxyethanol: Case Report and Literature Review. Journal of Toxicology: Clinical Toxicology, 2003, 41, 57-62. | 1.5 | 24 |
| 80 | Evaluation of Physiologically Based Models of Pregnancy and Lactation for Their Application in Children's Health Risk Assessments. Critical Reviews in Toxicology, 2003, 33, 137-211. | 1.9 | 86 |
| 81 | Mode of Action and Pharmacokinetic Studies of 2-Butoxyethanol in the Mouse with an Emphasis on Forestomach Dosimetry. Toxicological Sciences, 2003, 71, 176-189. | 1.4 | 21 |
| 82 | PBPK Modeling of the Percutaneous Absorption of Perchloroethylene from a Soil Matrix in Rats and Humans. Toxicological Sciences, 2002, 67, 17-31. | 1.4 | 34 |
| 83 | Propylene Glycol Monomethyl Ether (PGME): Inhalation Toxicity and Carcinogenicity in Fischer 344 Rats and B6C3F1 Mice. Toxicologic Pathology, 2002, 30, 570-579. | 0.9 | 20 |
| 84 | An innovative method to determine percutaneous absorption: Real-time breath analysis and physiologically based pharmacokinetic modeling. Cutaneous and Ocular Toxicology, 2001, 20, 513-521. | 0.3 | 0 |
| 85 | Potential technology for studying dosimetry and response to airborne chemical and biological pollutants. Toxicology and Industrial Health, 2001, 17, 270-276. | 0.6 | 13 |
| 86 | Proposed Occupational Exposure Limits for Select Ethylene Glycol Ethers Using PBPK Models and Monte Carlo Simulations. Toxicological Sciences, 2001, 62, 124-139. | 1.4 | 51 |
| 87 | A Real-Time In-vivo Method for Studying the Percutaneous Absorption of Volatile Chemicals. International Journal of Occupational and Environmental Health, 2000, 6, 96-103. | 1.2 | 26 |
| 88 | Development of a Physiologically Based Pharmacokinetic Model for Hydroquinone. Toxicology and Applied Pharmacology, 2000, 165, 163-174. | 1.3 | 29 |
| 89 | A Toxicokinetic Study of Inhaled Ethylene Glycol Ethyl Ether Acetate and Validation of a Physiologically Based Pharmacokinetic Model for Rat and Human. Toxicology and Applied Pharmacology, 2000, 165, 63-73. | 1.3 | 38 |
| 90 | A Toxicokinetic Study of Inhaled Ethylene Glycol Monomethyl Ether (2-ME) and Validation of a Physiologically Based Pharmacokinetic Model for the Pregnant Rat and Human. Toxicology and Applied Pharmacology, 2000, 165, 53-62. | 1.3 | 46 |

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| 91 | Physiologically Based Pharmacokinetic Modeling of the Temperature-Dependent Dermal Absorption of Chloroform by Humans following Bath Water Exposures. Toxicological Sciences, 2000, 53, 13-23. | 1.4 | 61 |
| 92 | Assessment of the Percutaneous Absorption of Trichloroethylene in Rats and Humans Using MS/MS Real-Time Breath Analysis and Physiologically Based Pharmacokinetic Modeling. Toxicological Sciences, 2000, 56, 61-72. | 1.4 | 38 |
| 93 | Utility of Real Time Breath Analysis and Physiologically Based Pharmacokinetic Modeling to Determine the Percutaneous Absorption of Methyl Chloroform in Rats and Humans. Toxicological Sciences, 2000, 54, 42-51. | 1.4 | 37 |
| 94 | Subchronic Dermal Toxicity and Oral Neurotoxicity of Triethylene Glycol Monomethyl Ether in Cd Rats. International Journal of Toxicology, 1998, 17, 1-22. | 0.6 | 6 |
| 95 | Physiologically Based Pharmacokinetics of 2-Butoxyethanol and Its Major Metabolite, 2-Butoxyacetic Acid, in Rats and Humans. Toxicology and Applied Pharmacology, 1994, 129, 61-79. | 1.3 | 77 |
| 96 | Estimating the risk of liver cancer associated with human exposures to chloroform using physiologically based pharmacokinetic modeling. Toxicology and Applied Pharmacology, 1990, 105, 443-459. | 1.3 | 131 |
| 97 | Development of a physiologically based pharmacokinetic model for chloroform. Toxicology and Applied Pharmacology, 1990, 103, 512-527. | 1.3 | 178 |
| 98 | Chlorpyrifos: A 13-week nose-only vapor inhalation study in Fischer 344 rats*1. Fundamental and Applied Toxicology, 1989, 13, 616-618. | 1.9 | 16 |
| 99 | Chlorpyrifos: A 13-Week Nose-Only Vapor Inhalation Study in Fischer 344 Rats. Toxicological Sciences, 1989, 13, 616-618. | 1.4 | 0 |
| 100 | Disposition of T-2 toxin, a trichothecene mycotoxin, in intravascularly dosed swine. Journal of Agricultural and Food Chemistry, 1986, 34, 868-875. | 2.4 | 36 |
| 101 | Pharmacokinetics of the trichothecene mycotoxin, T-2 toxin, in swine and cattle. Toxicon, 1986, 24, 13-23. | 0.8 | 57 |
| 102 | Glucuronide conjugates of T-2 toxin and metabolites in swine bile and urine. Journal of Agricultural and Food Chemistry, 1985, 33, 1085-1089. | 2.4 | 59 |
| 103 | Rapid Thin Layer Chromatographic Method for Determination of Zearalenone and Zearalenol in Grains and Animal Feeds. Journal of the Association of Official Analytical Chemists, 1984, 67, 580-582. | 0.2 | 15 |
| 104 | Gas chromatographic method for the determination of diacetoxyscirpenol in swine plasma and urine. Journal of Chromatography A, 1982, 248, 456-460. | 1.8 | 14 |