# Kevin R Minard

List of Publications by Year
in descending order



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|---|---|---|---|
| 28 papers | 1,636 citations | 394421 19 h-index | 552781 26 g-index |
| 28 all docs | 28 docs citations | 28 times ranked | 2303 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | ISDD: A computational model of particle sedimentation, diffusion and target cell dosimetry for in vitro toxicity studies. Particle and Fibre Toxicology, 2010, 7, 36. | 6.2 | 397 |
| 2 | Optimization of nanoparticle core size for magnetic particle imaging. Journal of Magnetism and Magnetic Materials, 2009, 321, 1548-1551. | 2.3 | 201 |
| 3 | Optimizing magnetite nanoparticles for mass sensitivity in magnetic particle imaging. Medical Physics, 2011, 38, 1619-1626. | 3.0 | 142 |
| 4 | Comparative Computational Modeling of Airflows and Vapor Dosimetry in the Respiratory Tracts of Rat, Monkey, and Human. Toxicological Sciences, 2012, 128, 500-516. | 3.1 | 141 |
| 5 | Solenoidal microcoil design?Part II: Optimizing winding parameters for maximum signal-to-noise performance. Concepts in Magnetic Resonance, 2001, 13, 190-210. | 1.3 | 95 |
| 6 | Iron oxide nanoparticle agglomeration influences dose rates and modulates oxidative stress-mediated doseâ€“response profilesin vitro. Nanotoxicology, 2014, 8, 663-675. | 3.0 | 81 |
| 7 | Solenoidal microcoil design. Part I: Optimizing RF homogeneity and coil dimensions. Concepts in Magnetic Resonance, 2001, 13, 128-142. | 1.3 | 73 |
| 8 | NMR methods for in situ biofilm metabolism studies. Journal of Microbiological Methods, 2005, 62, 337-344. | 1.6 | 57 |
| 9 | Picoliter 1H NMR Spectroscopy. Journal of Magnetic Resonance, 2002, 154, 336-343. | 2.1 | 53 |
| 10 | Comparative iron oxide nanoparticle cellular dosimetry and response in mice by the inhalation and liquid cell culture exposure routes. Particle and Fibre Toxicology, 2014, 11, 46. | 6.2 | 49 |
| 11 | 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. | 3.1 | 45 |
| 12 | A combined confocal and magnetic resonance microscope for biological studies. Review of Scientific Instruments, 2002, 73, 4329-4338. | 1.3 | 35 |
| 13 | An Integrated Confocal and Magnetic Resonance Microscope for Cellular Research. Journal of Magnetic Resonance, 2000, 147, 371-377. | 2.1 | 33 |
| 14 | 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. | 1.6 | 33 |
| 15 | High resolution lung airway cast segmentation with proper topology suitable for computational fluid dynamic simulations. Computerized Medical Imaging and Graphics, 2010, 34, 572-578. | 5.8 | 32 |
| 16 | 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. | 1.8 | 28 |
| 17 | Quantitative1H MRI and MRS Microscopy of Individual V79 Lung Tumor Spheroids. Journal of Magnetic Resonance, 1998, 133, 368-373. | 2.1 | 24 |
| 18 | Phase-contrast MRI and CFD modeling of apparent 3He gas flow in rat pulmonary airways. Journal of Magnetic Resonance, 2012, 221, 129-138. | 2.1 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A compact respiratory-triggering device for routine microimaging of laboratory mice. Journal of Magnetic Resonance Imaging, 1998, 8, 1343-1348. | 3.4 | 20 |
| 20 | An Automated Selfâ€Similarity Analysis of the Pulmonary Tree of the Sprague–Dawley Rat. Anatomical Record, 2008, 291, 1628-1648. | 1.4 | 19 |
| 21 | Simultaneous1H PFG-NMR and confocal microscopy of monolayer cell cultures: Effects of apoptosis and necrosis on water diffusion and compartmentalization. Magnetic Resonance in Medicine, 2004, 52, 495-505. | 3.0 | 14 |
| 22 | Potential technology for studying dosimetry and response to airborne chemical and biological pollutants. Toxicology and Industrial Health, 2001, 17, 270-276. | 1.4 | 13 |
| 23 | Magnetic particle detection (MPD) for in-vitro dosimetry. Biosensors and Bioelectronics, 2013, 43, 88-93. | 10.1 | 11 |
| 24 | MR imaging of apparent 3He gas transport in narrow pipes and rodent airways. Journal of Magnetic Resonance, 2008, 194, 182-191. | 2.1 | 9 |
| 25 | T2-shortening of 3He gas by magnetic microspheres. Journal of Magnetic Resonance, 2005, 173, 90-96. | 2.1 | 3 |
| 26 | 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. | 1.4 | 2 |
| 27 | Magnetic Particle Imaging. , 2017, , 685-692. | | 2 |
| 28 | Magnetic Particle Imaging. , 2010, , 1426-1434. | | 1 |