

# 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	Magnetic Particle Imaging. , 2017, , 685-692.		2
2	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
3	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
4	Iron oxide nanoparticle agglomeration influences dose rates and modulates oxidative stress-mediated dose response profiles in vitro. Nanotoxicology, 2014, 8, 663-675.	3.0	81
5	Magnetic particle detection (MPD) for in-vitro dosimetry. Biosensors and Bioelectronics, 2013, 43, 88-93.	10.1	11
6	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
7	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
8	Branch-Based Model for the Diameters of the Pulmonary Airways: Accounting for Departures From Self-Consistency and Registration Errors. Anatomical Record, 2012, 295, 1027-1044.	1.4	2
9	Optimizing magnetite nanoparticles for mass sensitivity in magnetic particle imaging. Medical Physics, 2011, 38, 1619-1626.	3.0	142
10	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
11	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
12	Magnetic Particle Imaging. , 2010, , 1426-1434.		1
13	Optimization of nanoparticle core size for magnetic particle imaging. Journal of Magnetism and Magnetic Materials, 2009, 321, 1548-1551.	2.3	201
14	An Automated Self-Similarity Analysis of the Pulmonary Tree of the Sprague-Dawley Rat. Anatomical Record, 2008, 291, 1628-1648.	1.4	19
15	MR imaging of apparent 3He gas transport in narrow pipes and rodent airways. Journal of Magnetic Resonance, 2008, 194, 182-191.	2.1	9
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	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
18	T2-shortening of 3He gas by magnetic microspheres. Journal of Magnetic Resonance, 2005, 173, 90-96.	2.1	3

#	ARTICLE	IF	CITATIONS
19	NMR methods for in situ biofilm metabolism studies. <i>Journal of Microbiological Methods</i> , 2005, 62, 337-344.	1.6	57
20	Simultaneous <sup>1</sup> H PFG-NMR and confocal microscopy of monolayer cell cultures: Effects of apoptosis and necrosis on water diffusion and compartmentalization. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 495-505.	3.0	14
21	A combined confocal and magnetic resonance microscope for biological studies. <i>Review of Scientific Instruments</i> , 2002, 73, 4329-4338.	1.3	35
22	Picoliter <sup>1</sup> H NMR Spectroscopy. <i>Journal of Magnetic Resonance</i> , 2002, 154, 336-343.	2.1	53
23	Solenoidal microcoil design?Part II: Optimizing winding parameters for maximum signal-to-noise performance. <i>Concepts in Magnetic Resonance</i> , 2001, 13, 190-210.	1.3	95
24	Solenoidal microcoil design. Part I: Optimizing RF homogeneity and coil dimensions. <i>Concepts in Magnetic Resonance</i> , 2001, 13, 128-142.	1.3	73
25	Potential technology for studying dosimetry and response to airborne chemical and biological pollutants. <i>Toxicology and Industrial Health</i> , 2001, 17, 270-276.	1.4	13
26	An Integrated Confocal and Magnetic Resonance Microscope for Cellular Research. <i>Journal of Magnetic Resonance</i> , 2000, 147, 371-377.	2.1	33
27	Quantitative <sup>1</sup> H MRI and MRS Microscopy of Individual V79 Lung Tumor Spheroids. <i>Journal of Magnetic Resonance</i> , 1998, 133, 368-373.	2.1	24
28	A compact respiratory-triggering device for routine microimaging of laboratory mice. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 1343-1348.	3.4	20