

# David Eckmann

## List of Publications by Year in descending order

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147  
papers

3,801  
citations

101543

36  
h-index

175258

52  
g-index

150  
all docs

150  
docs citations

150  
times ranked

4656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Difficulty in Advancing Flexible Epidural Catheters When Establishing Labor Analgesia: An Observational Open-Label Randomized Trial. <i>Anesthesia and Analgesia</i> , 2021, 133, 151-159.	2.2	1
2	Hyperbaric oxygen alters intracellular bioenergetics distribution in human dermal fibroblasts. <i>Life Sciences</i> , 2021, 278, 119616.	4.3	3
3	Hydrodynamics and Interfacial Surfactant Transport in Vascular Gas Embolism. <i>Journal of Heat Transfer</i> , 2021, 143, .	2.1	2
4	Biophysical Considerations in the Rational Design and Cellular Targeting of Flexible Polymeric Nanoparticles. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101290.	3.7	2
5	Biophysical Considerations in the Rational Design and Cellular Targeting of Flexible Polymeric Nanoparticles (Adv. Mater. Interfaces 23/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, .	3.7	0
6	In vitro comparison of hydroxocobalamin (B12a) and the mitochondrial directed therapy by a succinate prodrug in a cellular model of cyanide poisoning. <i>Toxicology Reports</i> , 2020, 7, 1263-1271.	3.3	11
7	Multiscale modeling of protein membrane interactions for nanoparticle targeting in drug delivery. <i>Current Opinion in Structural Biology</i> , 2020, 64, 104-110.	5.7	9
8	Ex vivo use of cell-permeable succinate prodrug attenuates mitochondrial dysfunction in blood cells obtained from carbon monoxide-poisoned individuals. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 319, C129-C135.	4.6	12
9	Prophylaxis of mitochondrial dysfunction caused by cellular decompression from hyperbaric exposure. <i>Mitochondrion</i> , 2020, 52, 8-19.	3.4	6
10	Alterations in Mitochondrial Function in Blood Cells Obtained From Patients With Sepsis Presenting to an Emergency Department. <i>Shock</i> , 2019, 51, 580-584.	2.1	27
11	Cross-linker-Modulated Nanogel Flexibility Correlates with Tunable Targeting to a Sterically Impeded Endothelial Marker. <i>ACS Nano</i> , 2019, 13, 11409-11421.	14.6	24
12	Stiffness can mediate balance between hydrodynamic forces and avidity to impact the targeting of flexible polymeric nanoparticles in flow. <i>Nanoscale</i> , 2019, 11, 6916-6928.	5.6	15
13	Nanofluid Dynamics of Flexible Polymeric Nanoparticles Under Wall Confinement. <i>Journal of Heat Transfer</i> , 2019, 141, 0524011-524016.	2.1	5
14	Nanoparticle transport phenomena in confined flows. <i>Advances in Heat Transfer</i> , 2019, 51, 55-129.	0.9	8
15	Compartmentalization of Bioenergetic Substrate Delivery in Intact Cells. <i>Journal of Heat Transfer</i> , 2019, 141, .	2.1	3
16	Mitochondrial networking in human blood cells with application in acute care illnesses. <i>Mitochondrion</i> , 2019, 44, 27-34.	3.4	16
17	Translational Application of Measuring Mitochondrial Functions in Blood Cells Obtained from Patients with Acute Poisoning. <i>Journal of Medical Toxicology</i> , 2018, 14, 144-151.	1.5	6
18	Excess area dependent scaling behavior of nano-sized membrane tethers. <i>Physical Biology</i> , 2018, 15, 026002.	1.8	15

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19	Rheology of colloidal suspensions in confined flow: Treatment of hydrodynamic interactions in particle-based simulations inspired by dynamical density functional theory. <i>Physical Review E</i> , 2018, 98, .	2.1	12
20	Flexible Nanoparticles Reach Sterically Obscured Endothelial Targets Inaccessible to Rigid Nanoparticles. <i>Advanced Materials</i> , 2018, 30, e1802373.	21.0	73
21	Alterations in mitochondrial respiration and reactive oxygen species in patients poisoned with carbon monoxide treated with hyperbaric oxygen. <i>Intensive Care Medicine Experimental</i> , 2018, 6, 4.	1.9	24
22	Acute decompression following simulated dive conditions alters mitochondrial respiration and motility. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C699-C705.	4.6	6
23	Intracellular nanoparticle dynamics affected by cytoskeletal integrity. <i>Soft Matter</i> , 2017, 13, 1873-1880.	2.7	44
24	Computational Models for Nanoscale Fluid Dynamics and Transport Inspired by Nonequilibrium Thermodynamics1. <i>Journal of Heat Transfer</i> , 2017, 139, 0330011-330019.	2.1	10
25	Nanomechanics of pH-Responsive, Drug-Loaded, Bilayered Polymer Grafts. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12936-12948.	8.0	25
26	Motion of a nano-spheroid in a cylindrical vessel flow: Brownian and hydrodynamic interactions. <i>Journal of Fluid Mechanics</i> , 2017, 821, 117-152.	3.4	12
27	Deleterious variants in TRAK1 disrupt mitochondrial movement and cause fatal encephalopathy. <i>Brain</i> , 2017, 140, 568-581.	7.6	53
28	Mitochondrial DNA 3243A>G heteroplasmy is associated with changes in cytoskeletal protein expression and cell mechanics. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170071.	3.4	7
29	Competitive Adsorption of Polyelectrolytes onto and into Pellicle-Coated Hydroxyapatite Investigated by QCM-D and Force Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 13079-13091.	8.0	16
30	A preliminary study in the alterations of mitochondrial respiration in patients with carbon monoxide poisoning measured in blood cells. <i>Clinical Toxicology</i> , 2017, 55, 579-584.	1.9	23
31	Microstructure of Flow-Driven Suspension of Hardspheres in Cylindrical Confinement: A Dynamical Density Functional Theory and Monte Carlo Study. <i>Langmuir</i> , 2017, 33, 11332-11344.	3.5	14
32	Mitochondrial dynamics and respiration within cells with increased open pore cytoskeletal meshes. <i>Biology Open</i> , 2017, 6, 1831-1839.	1.2	13
33	Cytoskeletal Perturbing Drugs and Their Effect on Cell Elasticity. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 169-177.	0.5	2
34	Measurement of Mitochondrial Respiration and Motility in Acute Care. <i>Journal of Intensive Care Medicine</i> , 2017, 32, 86-94.	2.8	38
35	Fluorescence Microscopy Imaging Calibration for Quantifying Nanocarrier Binding to Cells During Shear Flow Exposure. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 737-745.	1.1	6
36	Effect of wall-mediated hydrodynamic fluctuations on the kinetics of a Brownian nanoparticle. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160397.	2.1	5

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37	Understanding Viscoelasticity Changes in Single Cells using Variable Indentation-Rate Viscoelastic Analysis. <i>Biophysical Journal</i> , 2016, 110, 366a.	0.5	0
38	Multi-scale Modeling of the Cardiovascular System: Disease Development, Progression, and Clinical Intervention. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2642-2660.	2.5	50
39	Biophysically inspired model for functionalized nanocarrier adhesion to cell surface: roles of protein expression and mechanical factors. <i>Royal Society Open Science</i> , 2016, 3, 160260.	2.4	26
40	Mitochondrial respiration is sensitive to cytoarchitectural breakdown. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 117-124.	1.3	17
41	Multiscale Modeling in the Clinic: Drug Design and Development. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2591-2610.	2.5	50
42	Cell elasticity with altered cytoskeletal architectures across multiple cell types. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 61, 197-207.	3.1	108
43	Non-affinity factors modulating vascular targeting of nano- and microcarriers. <i>Advanced Drug Delivery Reviews</i> , 2016, 99, 97-112.	13.7	65
44	Nanoparticle stochastic motion in the inertial regime and hydrodynamic interactions close to a cylindrical wall. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	17
45	Composite generalized Langevin equation for Brownian motion in different hydrodynamic and adhesion regimes. <i>Physical Review E</i> , 2015, 91, 052303.	2.1	25
46	Automated detection of whole-cell mitochondrial motility and its dependence on cytoarchitectural integrity. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1395-1405.	3.3	29
47	Strain-Rate Dependence of Elastic Modulus Reveals Silver Nanoparticle Induced Cytotoxicity. <i>Nanobiomedicine</i> , 2015, 2, 9.	5.7	20
48	Flow shear stress differentially regulates endothelial uptake of nanocarriers targeted to distinct epitopes of PECAM-1. <i>Journal of Controlled Release</i> , 2015, 210, 39-47.	9.9	49
49	Targeted Release of Tobramycin from a pH-Responsive Grafted Bilayer Challenged with <i>S. aureus</i> . <i>Biomacromolecules</i> , 2015, 16, 650-659.	5.4	65
50	Collaborative Enhancement of Endothelial Targeting of Nanocarriers by Modulating Platelet-Endothelial Cell Adhesion Molecule-1/CD31 Epitope Engagement. <i>ACS Nano</i> , 2015, 9, 6785-6793.	14.6	22
51	Hydrodynamic interactions of deformable polymeric nanocarriers and the effect of crosslinking. <i>Soft Matter</i> , 2015, 11, 5955-5969.	2.7	13
52	Pefluorocarbon inhibition of bubble induced $Ca^{2+}$ transients in an <i>in vitro</i> model of vascular gas embolism. <i>Experimental Biology and Medicine</i> , 2014, 239, 116-122.	2.4	6
53	Dose response of surfactants to attenuate gas embolism related platelet aggregation. <i>Heat and Mass Transfer</i> , 2014, 50, 323-331.	2.1	4
54	Modelling of binding free energy of targeted nanocarriers to cell surface. <i>Heat and Mass Transfer</i> , 2014, 50, 315-321.	2.1	3

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55	Designing nanogel carriers for antibacterial applications. <i>Acta Biomaterialia</i> , 2014, 10, 2105-2111.	8.3	60
56	Nanogel carrier design for targeted drug delivery. <i>Journal of Materials Chemistry B</i> , 2014, 2, 8085-8097.	5.8	153
57	Gold Nanorod Linking to Control Plasmonic Properties in Solution and Polymer Nanocomposites. <i>Langmuir</i> , 2014, 30, 1906-1914.	3.5	47
58	Chemically grafted fibronectin for use in QCM-D cell studies. <i>Biosensors and Bioelectronics</i> , 2014, 58, 249-257.	10.1	14
59	ICAM-1 Targeted Nanogels Loaded with Dexamethasone Alleviate Pulmonary Inflammation. <i>PLoS ONE</i> , 2014, 9, e102329.	2.5	68
60	Correlating macrophage morphology and cytokine production resulting from biomaterial contact. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 203-212.	4.0	98
61	Cellular Uptake and Intracellular Cargo Release From Dextran Based Nanogel Drug Carriers. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2013, 4, 110021-110028.	0.8	15
62	Temporal multiscale approach for nanocarrier motion with simultaneous adhesion and hydrodynamic interactions in targeted drug delivery. <i>Journal of Computational Physics</i> , 2013, 244, 252-263.	3.8	13
63	Hemocompatibility and biocompatibility of antibacterial biomimetic hybrid films. <i>Toxicology and Applied Pharmacology</i> , 2013, 272, 703-712.	2.8	29
64	Photo-activated porphyrin in combination with antibiotics: Therapies against Staphylococci. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 129, 27-35.	3.8	28
65	Hemocompatibility of chitosan/poly(acrylic acid) grafted polyurethane tubing. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6382.	5.8	16
66	Air Bubble Contact with Endothelial Cells Causes a Calcium-Independent Loss in Mitochondrial Membrane Potential. <i>Biophysical Journal</i> , 2013, 104, 215a-216a.	0.5	1
67	Hyaluronan and dextran modified tubes resist cellular activation with blood contact. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 108, 44-51.	5.0	9
68	A facile route to synthesize nanogels doped with silver nanoparticles. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1323.	1.9	18
69	Surfactant reduction of cerebral infarct size and behavioral deficit in a rat model of cerebrovascular arterial gas embolism. <i>Journal of Applied Physiology</i> , 2013, 115, 868-876.	2.5	7
70	A Hybrid Approach for the Simulation of the Thermal Motion of a Nearly Neutrally Buoyant Nanoparticle in an Incompressible Newtonian Fluid Medium. <i>Journal of Heat Transfer</i> , 2013, 135, .	2.1	3
71	Nanocarrier Hydrodynamics and Binding in Targeted Drug Delivery: Challenges in Numerical Modeling and Experimental Validation. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2013, 4, 101011-1010115.	0.8	26
72	Modeling of a Nanoparticle Motion in a Newtonian Fluid: A Comparison Between Fluctuating Hydrodynamics and Generalized Langevin Procedures. , 2012, 2012, 735-743.		1

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73	Nanocarrierâ€™Cell Surface Adhesive and Hydrodynamic Interactions: Ligandâ€™Receptor Bond Sensitivity Study. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2012, 3, 310101-310108.	0.8	3
74	Computational Simulation of Hematocrit Effects on Arterial Gas Embolism Dynamics. <i>Aviation, Space, and Environmental Medicine</i> , 2012, 83, 92-101.	0.5	2
75	Dynamic Factors Controlling Targeting Nanocarriers to Vascular Endothelium. <i>Current Drug Metabolism</i> , 2012, 13, 70-81.	1.2	27
76	Reversible swelling of chitosan and quaternary ammonium modified chitosan brush layers: effects of pH and counter anion size and functionality. <i>Journal of Materials Chemistry</i> , 2012, 22, 19605.	6.7	58
77	Understanding the Role of Exogenous and Endogenous Surfactants in Gas Embolism. <i>ACS Symposium Series</i> , 2012, , 395-418.	0.5	0
78	Antibacterial biomimetic hybrid films. <i>Soft Matter</i> , 2012, 8, 2423.	2.7	23
79	Top-down Mesoscale Models and Free Energy Calculations of Multivalent Protein-Protein and Protein-Membrane Interactions in Nanocarrier Adhesion and Receptor Trafficking. <i>RSC Biomolecular Sciences</i> , 2012, , 272-292.	0.4	3
80	A hybrid formalism combining fluctuating hydrodynamics and generalized Langevin dynamics for the simulation of nanoparticle thermal motion in an incompressible fluid medium. <i>Molecular Physics</i> , 2012, 110, 1057-1067.	1.7	10
81	Air Bubble Contact with Endothelial Cells Causes a Calcium-Independent Loss in Mitochondrial Membrane Potential. <i>PLoS ONE</i> , 2012, 7, e47254.	2.5	29
82	Fluctuating Hydrodynamics Approach for the Simulation of Nanoparticle Brownian Motion in a Newtonian Fluid. <i>International Journal of Micro-nano Scale Transport</i> , 2012, 3, 13-20.	0.2	3
83	Mechanotransductional basis of endothelial cell response to intravascular bubbles. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 1033.	1.3	31
84	Air bubble contact with endothelial cells in vitro induces calcium influx and IP3-dependent release of calcium stores. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 301, C679-C686.	4.6	39
85	Human macrophage adhesion on polysaccharide patterned surfaces. <i>Soft Matter</i> , 2011, 7, 3599.	2.7	25
86	Generalized Langevin dynamics of a nanoparticle using a finite element approach: Thermostating with correlated noise. <i>Journal of Chemical Physics</i> , 2011, 135, 114104.	3.0	19
87	Multivalent Binding of Nanocarrier to Endothelial Cells under Shear Flow. <i>Biophysical Journal</i> , 2011, 101, 319-326.	0.5	41
88	Protein Assembly at the Airâ€™Water Interface Studied by Fluorescence Microscopy. <i>Langmuir</i> , 2011, 27, 12775-12781.	3.5	32
89	Nanoparticle Brownian motion and hydrodynamic interactions in the presence of flow fields. <i>Physics of Fluids</i> , 2011, 23, 73602-7360215.	4.0	60
90	Understanding the Mechanotransductional Basis of Intravascular Bubble Injury. <i>Biophysical Journal</i> , 2011, 100, 280a.	0.5	0

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91	Symmetric pH-Dependent Swelling and Antibacterial Properties of Chitosan Brushes. <i>Langmuir</i> , 2011, 27, 12458-12465.	3.5	59
92	Multiscale Modeling of Functionalized Nanocarriers in Targeted Drug Delivery. <i>Current Nanoscience</i> , 2011, 7, 727-735.	1.2	29
93	Optimizing endothelial targeting by modulating the antibody density and particle concentration of anti-ICAM coated carriers. <i>Journal of Controlled Release</i> , 2011, 150, 37-44.	9.9	73
94	The effect of CD47 modified polymer surfaces on inflammatory cell attachment and activation. <i>Biomaterials</i> , 2011, 32, 4317-4326.	11.4	71
95	Dynamic factors controlling carrier anchoring on vascular cells. <i>IUBMB Life</i> , 2011, 63, 640-647.	3.4	19
96	Human plasma protein adsorption onto dextranized surfaces: A two-dimensional electrophoresis and mass spectrometry study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 241-252.	5.0	20
97	Competitive protein adsorption on polysaccharide and hyaluronate modified surfaces. <i>Biofouling</i> , 2011, 27, 505-518.	2.2	39
98	In vitro surfactant mitigation of gas bubble contact-induced endothelial cell death. <i>Undersea and Hyperbaric Medicine</i> , 2011, 38, 27-39.	0.3	22
99	Using 3-D dense packing models to predict surface tension change due to protein adsorption. <i>International Journal of Transport Phenomena</i> , 2011, 12, 283-300.	0.0	0
100	Effect of Glycocalyx on Drug Delivery Carriers Targeted to Endothelial Cells. <i>International Journal of Transport Phenomena</i> , 2011, 12, 63-75.	0.0	3
101	Effect of a soluble surfactant on a finite-sized bubble motion in a blood vessel. <i>Journal of Fluid Mechanics</i> , 2010, 642, 509-539.	3.4	22
102	Surfactant Properties Differentially Influence Intravascular Gas Embolism Mechanics. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3649-3663.	2.5	9
103	Computational model for nanocarrier binding to endothelium validated using in vivo, in vitro, and atomic force microscopy experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16530-16535.	7.1	116
104	Imaging Macromolecular Interactions at an Interface. <i>Langmuir</i> , 2010, 26, 2452-2459.	3.5	15
105	Creating Biomimetic Polymeric Surfaces by Photochemical Attachment and Patterning of Dextran. <i>Langmuir</i> , 2010, 26, 14126-14134.	3.5	30
106	Polidocanol for endovenous microfoam sclerosant therapy. <i>Expert Opinion on Investigational Drugs</i> , 2009, 18, 1919-1927.	4.1	75
107	Bubble Motion through a Generalized Power-law Fluid Flowing in a Vertical Tube. <i>Annals of the New York Academy of Sciences</i> , 2009, 1161, 256-267.	3.8	13
108	Bubble Motion in a Blood Vessel: Shear Stress Induced Endothelial Cell Injury. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 074516.	1.3	39

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109	Flow dynamics, binding and detachment of spherical carriers targeted to ICAM-1 on endothelial cells. <i>Biorheology</i> , 2009, 46, 323-341.	0.4	59
110	Finite-sized gas bubble motion in a blood vessel: Non-Newtonian effects. <i>Physical Review E</i> , 2008, 78, 036303.	2.1	18
111	Numerical study of wall effects on buoyant gas-bubble rise in a liquid-filled finite cylinder. <i>Physical Review E</i> , 2007, 76, 036308.	2.1	57
112	Regarding "Stroke after varicose vein foam injection sclerotherapy". <i>Journal of Vascular Surgery</i> , 2006, 44, 225.	1.1	4
113	Air Bubble Growth in Water. <i>Anesthesiology</i> , 2006, 105, 1059-1059.	2.5	0
114	Influence of Endothelial Glycocalyx Degradation and Surfactants on Air Embolism Adhesion. <i>Anesthesiology</i> , 2006, 105, 1220-1227.	2.5	32
115	High throughput modular chambers for rapid evaluation of anesthetic sensitivity. <i>BMC Anesthesiology</i> , 2006, 6, 13.	1.8	30
116	Dose- and Time-Dependent Liquid Sclerosant Effects on Endothelial Cell Death. <i>Dermatologic Surgery</i> , 2006, 32, 1444-1452.	0.8	26
117	A guest molecule "host cavity fitting algorithm to mine PDB for small molecule targets. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 1320-1324.	2.3	5
118	Gas Embolism and Surfactant-Based Intervention: Implications for Long-Duration Space-Based Activity. <i>Annals of the New York Academy of Sciences</i> , 2006, 1077, 256-269.	3.8	15
119	Numerical Modeling of the Transport to an Intravascular Bubble in a Tube with a Soluble/Insoluble Surfactant. <i>Annals of the New York Academy of Sciences</i> , 2006, 1077, 270-287.	3.8	4
120	Dextran Functionalized Surfaces via Reductive Amination: Morphology, Wetting, and Adhesion. <i>Biomacromolecules</i> , 2006, 7, 557-564.	5.4	35
121	Microvascular Embolization Following Polidocanol Microfoam Sclerosant Administration. <i>Dermatologic Surgery</i> , 2005, 31, 636-643.	0.8	49
122	Surfactants Reduce Platelet "Bubble and Platelet "Platelet Binding Induced by In Vitro Air Embolism. <i>Anesthesiology</i> , 2005, 103, 1204-1210.	2.5	44
123	A quantitative and selective chromatography method for determining coverages of multiple proteins on surfaces. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 826, 198-205.	2.3	14
124	Microvascular Embolization Following Polidocanol Microfoam Sclerosant Administration. <i>Dermatologic Surgery</i> , 2005, 31, 636-643.	0.8	27
125	Biomimetic Surfaces via Dextran Immobilization: Grafting Density and Surface Properties. <i>Materials Research Society Symposia Proceedings</i> , 2004, 826, 221.	0.1	2
126	Surfactants Attenuate Gas Embolism-induced Thrombin Production. <i>Anesthesiology</i> , 2004, 100, 77-84.	2.5	41



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127	Surfactant Reduction in Embolism Bubble Adhesion and Endothelial Damage. <i>Anesthesiology</i> , 2004, 101, 97-103.	2.5	50
128	Bubble detachment by diffusion-controlled surfactant adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 227, 21-33.	4.7	15
129	Variations in epidural catheter manufacture: Implications for bending and stiffness. <i>Regional Anesthesia and Pain Medicine</i> , 2003, 28, 37-42.	2.3	7
130	Embolism Bubble Adhesion Force in Excised Perfused Microvessels. <i>Anesthesiology</i> , 2003, 99, 400-408.	2.5	46
131	Model Predictions of Gas Embolism Growth and Reabsorption during Xenon Anesthesia. <i>Anesthesiology</i> , 2003, 99, 638-645.	2.5	26
132	Microvascular gas embolization clearance following perfluorocarbon administration. <i>Journal of Applied Physiology</i> , 2003, 94, 860-868.	2.5	53
133	Dextran Grafted Silicon Substrates: Preparation, Characterization And Biomedical Applications. <i>Materials Research Society Symposia Proceedings</i> , 2003, 774, 7251.	0.1	6
134	Bubble rising in an inclined channel. <i>Physics of Fluids</i> , 2002, 14, 93-106.	4.0	36
135	Accelerated Arteriolar Gas Embolism Reabsorption by an Exogenous Surfactant. <i>Anesthesiology</i> , 2002, 96, 971-979.	2.5	65
136	Biomimetic Dextran Coatings On Silicon Wafers: Thin Film Properties And Wetting. <i>Materials Research Society Symposia Proceedings</i> , 2002, 734, 1071.	0.1	4
137	The effects of a soluble surfactant on the interfacial dynamics of stationary bubbles in inclined tubes. <i>Journal of Fluid Mechanics</i> , 2002, 469, 369-400.	3.4	21
138	MANIPULATION OF INTRAVASCULAR GAS EMBOLISM DYNAMICS WITH EXOGENOUS SURFACTANTS. , 2002, , 244-244.		0
139	THE DYNAMIC EFFECTS OF SURFACTANTS ON STATIONARY GAS BUBBLES IN LIQUID FLOWS. , 2002, , 248-248.		0
140	SOLUBLE SURFACTANTS AND CONTACT-ANGLE DYNAMICS. , 2002, , 255-255.		0
141	Cerebral gas embolism absorption during hyperbaric therapy: theory. <i>Journal of Applied Physiology</i> , 2001, 90, 593-600.	2.5	55
142	Wetting Characteristics of Aqueous Surfactant-Laden Drops. <i>Journal of Colloid and Interface Science</i> , 2001, 242, 386-394.	9.4	37
143	Theoretical and experimental intravascular gas embolism absorption dynamics. <i>Journal of Applied Physiology</i> , 1999, 87, 1287-1295.	2.5	88
144	Interfacial dynamics of stationary gas bubbles in flows in inclined tubes. <i>Journal of Fluid Mechanics</i> , 1999, 398, 225-244.	3.4	33

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145	Influence of Intravenous Perfluorocarbon Administration on the Dynamic Behavior of Lung Surfactant. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 1998, 26, 359-366.	0.9	4
146	Perfluorocarbon Induced Alterations in Pulmonary Mechanics. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 1998, 26, 259-271.	0.9	8
147	Bolus Contaminant Dispersion in Oscillating Flow in Curved Tubes. <i>Journal of Biomechanical Engineering</i> , 1998, 120, 238-244.	1.3	3