Brian D Polizzotti

List of Publications by Year
in descending order

32	733	623734 14	552781 26
papers	citations	h-index	g-index

33	33	33	1410
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neuregulin stimulation of cardiomyocyte regeneration in mice and human myocardium reveals a therapeutic window. Science Translational Medicine, 2015, 7, 281ra45.	12.4	189
2	Moderate and high amounts of tamoxifen in <i>Î±-MHC-MerCreMer</i> mice induce a DNA damage response, leading to heart failure and death. DMM Disease Models and Mechanisms, 2013, 6, 1459-69.	2.4	120
3	Oxygen delivery using engineered microparticles. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12380-12385.	7.1	52
4	A cryoinjury model in neonatal mice for cardiac translational and regeneration research. Nature Protocols, 2016, 11, 542-552.	12.0	42
5	Intrapericardial Delivery of Gelfoam Enables the Targeted Delivery of Periostin Peptide after Myocardial Infarction by Inducing Fibrin Clot Formation. PLoS ONE, 2012, 7, e36788.	2.5	38
6	Bulk Manufacture of Concentrated Oxygen Gasâ€Filled Microparticles for Intravenous Oxygen Delivery. Advanced Healthcare Materials, 2013, 2, 1131-1141.	7.6	35
7	Cardiac injury of the newborn mammalian heart accelerates cardiomyocyte terminal differentiation. Scientific Reports, 2017, 7, 8362.	3.3	32
8	Responsive monitoring of mitochondrial redox states in heart muscle predicts impending cardiac arrest. Science Translational Medicine, 2017, 9, .	12.4	27
9	Interfacial Nanoprecipitation toward Stable and Responsive Microbubbles and Their Use as a Resuscitative Fluid. Angewandte Chemie - International Edition, 2018, 57, 1271-1276.	13.8	24
10	Optimization and characterization of stable lipidâ€based, oxygenâ€filled microbubbles by mixture design. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1148-1156.	3.4	17
11	Neuregulin-1 Administration Protocols Sufficient for Stimulating Cardiac Regeneration in Young Mice Do Not Induce Somatic, Organ, or Neoplastic Growth. PLoS ONE, 2016, 11, e0155456.	2.5	17
12	Hemodynamic Effects of Lipid-Based Oxygen Microbubbles via Rapid Intravenous Injection in Rodents. Pharmaceutical Research, 2017, 34, 2156-2162.	3.5	15
13	Perioperatively Inhaled Hydrogen Gas Diminishes Neurologic Injury Following Experimental Circulatory Arrest in Swine. JACC Basic To Translational Science, 2019, 4, 176-187.	4.1	15
14	Safety of inhaled hydrogen gas in healthy mice. Medical Gas Research, 2019, 9, 133.	2.3	15
15	Tunable Nonlinear Acoustic Reporters Using Micro- and Nanosized Air Bubbles with Porous Polymeric Hard Shells. ACS Applied Materials & Interfaces, 2019, 11, 7-12.	8.0	11
16	Intravenous Amiodarone and Sotalol Impair Contractility and Cardiac Output, but Procainamide Does Not: A Langendorff Study. Journal of Cardiovascular Pharmacology and Therapeutics, 2019, 24, 288-297.	2.0	10
17	Hyperbaric polymer microcapsules for tunable oxygen delivery. Journal of Controlled Release, 2020, 327, 420-428.	9.9	10
18	Tunable Polymer Microcapsules for Controlled Release of Therapeutic Gases. Langmuir, 2018, 34, 9175-9183.	3.5	9

#	Article	IF	Citations
19	Manufacture of Concentrated, Lipid-based Oxygen Microbubble Emulsions by High Shear Homogenization and Serial Concentration. Journal of Visualized Experiments, 2014, , .	0.3	8
20	Changes in tissue oxygen tension, venous saturation, and Fickâ€based assessments of cardiac output during hyperoxia. Acta Anaesthesiologica Scandinavica, 2019, 63, 93-100.	1.6	8
21	Freeze-thawing at point-of-use to extend shelf stability of lipid-based oxygen microbubbles for intravenous oxygen delivery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 500, 72-78.	4.7	7
22	Injectable Oxygen: Interfacing Materials Chemistry with Resuscitative Science. Chemistry - A European Journal, 2018, 24, 18820-18829.	3.3	7
23	Interfacial Nanoprecipitation toward Stable and Responsive Microbubbles and Their Use as a Resuscitative Fluid. Angewandte Chemie, 2018, 130, 1285-1290.	2.0	6
24	Engineering Caged Microbubbles for Controlled Acoustic Cavitation and Pressure Sensing. , 2021, 3, 978-987.		5
25	A microfluidic device for real-time on-demand intravenous oxygen delivery. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115276119.	7.1	5
26	Use of Oxyhemoglobin Saturation, Rather Than Oxygen Tension, as a Marker of Oxygenation in Cyanotic Patients. JAMA Pediatrics, 2017, 171, 1012.	6.2	3
27	Using design of experiments to understand and predict polymer microcapsule <scp>coreâ€shell</scp> architecture. Journal of Applied Polymer Science, 2021, 138, 50100.	2.6	3
28	Reply to Span et al.: Rational design of oxygen microparticles for radiation therapy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8010-E8010.	7.1	1
29	A Device for the Quantification of Oxygen Consumption and Caloric Expenditure in the Neonatal Range. Anesthesia and Analgesia, 2018, 127, 95-104.	2.2	1
30	Use of Oxyhemoglobin Saturation or Oxygen Tensionâ€"an Unsolved Questionâ€"Reply. JAMA Pediatrics, 2018, 172, 390.	6.2	0
31	Innentitelbild: Interfacial Nanoprecipitation toward Stable and Responsive Microbubbles and Their Use as a Resuscitative Fluid (Angew. Chem. 5/2018). Angewandte Chemie, 2018, 130, 1134-1134.	2.0	0
32	Frontispiece: Injectable Oxygen: Interfacing Materials Chemistry with Resuscitative Science. Chemistry - A European Journal, 2018, 24, .	3.3	0