

Bryan P Ruddy

List of Publications by Year in descending order

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56
papers

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840119

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56
all docs

56
docs citations

56
times ranked

189
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of jet speed on large volume jet injection. Journal of Controlled Release, 2018, 280, 51-57.	4.8	44
2	Optimization of Portable Electronically Controlled Needle-Free Jet Injection Systems. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2013-2021.	3.7	28
3	Characterization of needle-assisted jet injections. Journal of Controlled Release, 2016, 243, 195-203.	4.8	24
4	A high-resolution thermoelectric module-based calorimeter for measuring the energetics of isolated ventricular trabeculae at body temperature. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H318-H324.	1.5	21
5	Design and optimization strategies for muscle-like direct-drive linear permanent-magnet motors. International Journal of Robotics Research, 2011, 30, 834-845.	5.8	19
6	Measuring the mechanical efficiency of a working cardiac muscle sample at body temperature using a flow-through calorimeter. , 2015, 2015, 7966-9.		19
7	Power-efficient controlled jet injection using a compound ampoule. Journal of Controlled Release, 2018, 291, 127-134.	4.8	16
8	Design of a Xenia Coral Robot Using a High-Stroke Compliant Linear Electromagnetic Actuator. ASME Letters in Dynamic Systems and Control, 2021, 1, .	0.4	15
9	Optimal voice coil actuators for needle-free jet injection. , 2014, 2014, 2144-8.		14
10	Analysis of Moving-Coil Actuator Jet Injectors for Viscous Fluids. IEEE Transactions on Biomedical Engineering, 2016, 63, 1099-1106.	2.5	14
11	Subcutaneous nicotine delivery via needle-free jet injection: A porcine model. Journal of Controlled Release, 2019, 306, 83-88.	4.8	13
12	Compliant Electromagnetic Actuator Architecture for Soft Robotics. , 2020, , .		13
13	A Flowthrough Infusion Calorimeter for Measuring Muscle Energetics: Design and Performance. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1690-1699.	2.4	12
14	A Linear Permanent Magnet Synchronous Motor for Large Volume Needle-Free Jet Injection. IEEE Transactions on Industry Applications, 2019, 55, 1437-1446.	3.3	11
15	Cortical recording with polypyrrole microwire electrodes. , 2008, 2008, 5794-7.		6
16	A compound ampoule for large-volume controllable jet injection. , 2015, 2015, 7341-4.		6
17	A compact direct-drive linear synchronous motor with muscle-like performance. , 2013, , .		5
18	A device for controlled jet injection of large volumes of liquid. , 2016, 2016, 553-556.		5

#	ARTICLE	IF	CITATIONS
19	Design of a linear permanent magnet synchronous motor for needle-free jet injection. , 2017, , .		5
20	A dynamometer for nature's engines. IEEE Instrumentation and Measurement Magazine, 2019, 22, 10-16.	1.2	5
21	Optimization of linear permanent magnet synchronous motors for needle-free jet injection. , 2015, , .		4
22	Four-Dimensional Imaging of Cardiac Trabeculae Contracting In Vitro Using Gated OCT. IEEE Transactions on Biomedical Engineering, 2017, 64, 218-224.	2.5	4
23	Development of Jet-injection Nozzles for Blood Release. , 2018, , .		4
24	Blood Dilution Measurement by a Dual Laser Fluorimeter. , 2020, , .		4
25	Optical coherence tomography imaging of cardiac trabeculae. , 2014, 2014, 182-5.		3
26	Sensorless position control of voice-coil motors for needle-free jet injection. , 2015, , .		3
27	High-speed X-ray analysis of liquid delivery during jet injection. , 2017, 2017, 296-299.		3
28	Spatially resolved diffuse imaging for high-speed depth estimation of jet injection. Journal of Biophotonics, 2019, 12, e201900205.	1.1	3
29	High-speed light source depth estimation using spatially-resolved diffuse imaging. Journal of Optics (United Kingdom), 2019, 21, 015604.	1.0	3
30	Viscous Heating Assists Jet Formation During Needle-Free Jet Injection of Viscous Drugs. IEEE Transactions on Biomedical Engineering, 2019, 66, 3472-3479.	2.5	3
31	Blood Collection from The Porcine Ear Using a Jet Injector. , 2020, 2020, 5119-5123.		3
32	Jet-Induced Blood Release From Human Fingertips: A Single-Blind, Randomized, Crossover Trial. Journal of Diabetes Science and Technology, 2021, , 193229682110538.	1.3	3
33	Jet injection needle-free dental anaesthesia: Initial findings. Journal of Dentistry, 2022, 122, 104165.	1.7	3
34	Application of the Thermal Fin Approximation to Modeling Voice Coil Magnetic Fields and Performance. IEEE Transactions on Magnetics, 2017, 53, 1-8.	1.2	2
35	Design optimization of a direct-drive linear actuator assistive device for stroke. , 2017, , .		2
36	Design of a Linear Permanent Magnet Transverse Flux Motor for Needle-free Jet Injection. , 2019, , .		2

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37	Controllable Jet Injection of Dental Local Anaesthetic. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-8.	2.2	2
38	Shoulder Joint Stiffness in a Functional Posture at Various Levels of Muscle Activation. IEEE Transactions on Biomedical Engineering, 2022, 69, 2192-2201.	2.5	2
39	Jet-Induced Tissue Disruption for Blood Release. IEEE Transactions on Biomedical Engineering, 2022, 69, 1850-1859.	2.5	2
40	Light source depth estimation in porcine skin using spatially resolved diffuse imaging. , 2016, 2016, 5917-5920.		1
41	Design of a Portable Pulsed Power System for Needle-Free Jet Injection. , 2018, , .		1
42	Laterally Dispersing Nozzles for Needle-assisted Jet Injection. , 2019, 2019, 1686-1689.		1
43	System Identification to Characterise Shoulder Joint Dynamics in Two Degrees of Freedom. , 2020, 2020, 4913-4916.		1
44	Ankle torque forecasting using time-delayed neural networks. , 2020, 2020, 4854-4857.		1
45	High speed, spatially-resolved diffuse imaging for jet injection depth estimation. , 2018, , .		1
46	Classification of diffuse light emission profiles for distinguishing skin layer penetration of a needle-free jet injection. Biomedical Optics Express, 2019, 10, 5081.	1.5	1
47	Work in Progress: The Consumer Breathalyzer as a Model Design Project in Introductory Instrumentation. , 0, , .		1
48	Conducting Polymer-Based Multifunctional Materials. , 2010, , .		0
49	Closed loop performance of polypyrrole linear contractile actuators. , 2010, , .		0
50	Multi-component single-substrate conducting polymer actuation systems and fabrication techniques. , 2011, , .		0
51	Examination of the Heat-Stress Relationship of Rat Cardiac Trabeculae using an Improved Muscle Calorimeter. Biophysical Journal, 2014, 106, 773a.	0.2	0
52	Using Optical Coherence Tomography to Measure Dynamic Changes in the Geometry of Isolated Cardiac Trabeculae during a Twitch. Biophysical Journal, 2015, 108, 294a.	0.2	0
53	Application of Linear Permanent Magnet Flux-Switching Motors to Needle-free Jet Injection. , 2019, , .		0
54	Design and Optimization Strategies for Muscle-Like Direct Drive Linear Permanent Magnet Motors. , 0, , .		0

#	ARTICLE	IF	CITATIONS
55	Thermopile power measurement for heat balance calorimetry. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 1-6.	0.4	0
56	Coupled electromagnetic and thermal optimisation strategies for direct-drive linear permanent magnet synchronous motors. , 2020, , .		0