Rowan M Brown

List of Publications by Year
in descending order

72	1,598	394390 19	315719 38
papers	citations	h-index	g-index

74	74	74	2165
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Emergence and repeatability of leadership and coordinated motion in fish shoals. Behavioral Ecology, 2022, 33, 47-54.	2.2	7
2	Multiple-endpoint in vitro carcinogenicity test in human cell line TK6 distinguishes carcinogens from non-carcinogens and highlights mechanisms of action. Archives of Toxicology, 2021, 95, 321-336.	4.2	6
3	Why did the animal turn? Timeâ€varying step selection analysis for inference between observed turningâ€points in high frequency data. Methods in Ecology and Evolution, 2021, 12, 921-932.	5.2	18
4	Data Driven Cell Cycle Model to Quantify the Efficacy of Cancer Therapeutics Targeting Specific Cell-Cycle Phases From Flow Cytometry Results. Frontiers in Bioinformatics, 2021, 1, .	2.1	0
5	Path tortuosity changes the transport cost paradigm in terrestrial animals. Ecography, 2021, 44, 1524-1532.	4.5	2
6	Collective action reduces androgen responsiveness with implications for shoaling dynamics in stickleback fish. Hormones and Behavior, 2020, 119, 104636.	2.1	6
7	Automated Quantification of Mitochondrial Fragmentation in an In Vitro Parkinson's Disease Model. Current Protocols in Neuroscience, 2020, 94, e105.	2.6	2
8	Comparison of head impact measurements via an instrumented mouthguard and an anthropometric testing device. Sports Engineering, 2020, 23, 1.	1.1	12
9	Abnormal clot microstructure formed in blood containing HIT-like antibodies. Thrombosis Research, 2020, 193, 25-30.	1.7	3
10	Predicting effective control parameters for differential evolution using cluster analysis of objective function features. Journal of Heuristics, 2019, 25, 1015-1031.	1.4	3
11	The origin of heterogeneous nanoparticle uptake by cells. Nature Communications, 2019, 10, 2341.	12.8	104
12	A novel, integrated in vitro carcinogenicity test to identify genotoxic and non-genotoxic carcinogens using human lymphoblastoid cells. Archives of Toxicology, 2018, 92, 935-951.	4.2	25
13	European sea bass show behavioural resilience to near-future ocean acidification. Royal Society Open Science, 2016, 3, 160656.	2.4	25
14	The Effects of Temperature on Clot Microstructure and Strength in Healthy Volunteers. Anesthesia and Analgesia, 2016, 122, 21-26.	2.2	11
15	The effect of sepsis and its inflammatory response on mechanical clot characteristics: a prospective observational study. Intensive Care Medicine, 2016, 42, 1990-1998.	8.2	12
16	An Investigation Into the Effects of In Vitro Dilution With Different Colloid Resuscitation Fluids on Clot Microstructure Formation. Anesthesia and Analgesia, 2016, 123, 1081-1088.	2.2	6
17	Quantifying the cellular uptake of semiconductor quantum dot nanoparticles by analytical electron microscopy. Journal of Microscopy, 2016, 261, 167-176.	1.8	12
18	Tracking the Cyclin B1-GFP Sensor to Profile the Pattern of Mitosis Versus Mitotic Bypass. Methods in Molecular Biology, 2016, 1342, 279-285.	0.9	2

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19	An Analysis of the Practicalities of Multi-Color Nanoparticle Cellular Bar-Coding. Combinatorial Chemistry and High Throughput Screening, 2016, 19, 362-369.	1.1	1
20	Social density processes regulate the functioning and performance of foraging human teams. Scientific Reports, 2015, 5, 18260.	3.3	5
21	Assessment of the stress relaxation characteristics of critical gels formed under unidirectional shear flow by controlled stress parallel superposition rheometry. Journal of Non-Newtonian Fluid Mechanics, 2015, 222, 227-233.	2.4	9
22	Validation of Optimal Fourier Rheometry for rapidly gelling materials and its application in the study of collagen gelation. Journal of Non-Newtonian Fluid Mechanics, 2015, 222, 253-259.	2.4	23
23	Effects of unidirectional flow shear stresses on the formation, fractal microstructure andÂrigidity of incipient whole blood clotsÂand fibrin gels. Clinical Hemorheology and Microcirculation, 2015, 60, 451-464.	1.7	23
24	Fractal dimension (df) as a new structural biomarker of clot microstructure in different stages of lung cancer. Thrombosis and Haemostasis, 2015, 114, 1251-1259.	3.4	32
25	Poissonâ€eventâ€based analysis of cell proliferation. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 385-392.	1.5	7
26	A new biomarker quantifies differences in clot microstructure in patients with venous thromboembolism. British Journal of Haematology, 2015, 168, 571-575.	2.5	23
27	Fractal dimension: A novel clot microstructure biomarker use in ST elevation myocardial infarction patients. Atherosclerosis, 2015, 240, 402-407.	0.8	21
28	The changes in clot microstructure in patients with ischaemic stroke and the effects of therapeutic intervention: a prospective observational study. BMC Neurology, 2015, 15, 35.	1.8	35
29	Statistical prediction of nanoparticle delivery: from culture media to cell. Nanotechnology, 2015, 26, 155101.	2.6	11
30	Measurement of molecular mixing at a conjugated polymer interface by specular and off-specular neutron scattering. Soft Matter, 2015, 11, 9393-9403.	2.7	8
31	Development of an Optically Transparent Silicon Based Technology Platform for Biological Analysis. IEEE Sensors Journal, 2015, 15, 1849-1857.	4.7	1
32	Serial block face SEM and TEM imaging for quantitative measurement of cellular uptake of semiconductor quantum dot nanoparticles. Microscopy and Microanalysis, 2015, 21, 1553-1554.	0.4	0
33	Optical tracking of drug release from porous silicon delivery vectors. IET Optoelectronics, 2014, 8, 113-116.	3.3	4
34	Nanoparticle vesicle encoding for imaging and tracking cell populations. Nature Methods, 2014, 11, 1177-1181.	19.0	29
35	A new structural biomarker that quantifies and predicts changes in clot strength and quality in a model of progressive haemodilution. Thrombosis Research, 2014, 134, 488-494.	1.7	25
36	Quantifying Nanoparticleâ€“Cell Interactions. Microscopy and Microanalysis, 2014, 20, 1300-1301.	0.4	2

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37	Ghrelin inhibits LPS-induced release of IL-6 from mouse dopaminergic neurones. Journal of Neuroinflammation, 2013, 10, 40.	7.2	41
38	A study of microstructural templating in fibrinâ€“thrombin gel networks by spectral and viscoelastic analysis. Soft Matter, 2013, 9, 4883.	2.7	28
39	Quantification of Nanoparticle Dose and Vesicular Inheritance in Proliferating Cells. ACS Nano, 2013, 7, 6129-6137.	14.6	61
40	Comment on Cuckoo search: A new nature-inspired optimization method for phase equilibrium calculations by V. Bhargava, S. Fateen, A. Bonilla-Petriciolet. Fluid Phase Equilibria, 2013, 352, 64-66.	2.5	5
41	A Review of the Development and Applications of the Cuckoo Search Algorithm. , 2013, , 257-271.		20
42	Quantitative characterization of nanoparticle agglomeration within biological media. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	79
43	Fractal discrimination of random fractal aggregates and its application in biomarker analysis for blood coagulation. Chaos, Solitons and Fractals, 2012, 45, 1025-1032.	5.1	16
44	Automated Cell Identification and Tracking Using Nanoparticle Moving-Light-Displays. PLoS ONE, 2012, 7, e40835.	2.5	10
45	Statistical analysis of nanoparticle dosing in a dynamic cellular system. Nature Nanotechnology, 2011, 6, 170-174.	31.5	157
46	Modified cuckoo search: A new gradient free optimisation algorithm. Chaos, Solitons and Fractals, 2011, 44, 710-718.	5.1	482
47	A transfer function approach to measuring cell inheritance. BMC Systems Biology, 2011, 5, 31.	3.0	10
48	Interoperability of time series cytometric data: A cross platform approach for modeling tumor heterogeneity. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2011, 79A, 214-226.	1.5	11
49	Rheometrical and molecular dynamics simulation studies of incipient clot formation in fibrin-thrombin gels: An activation limited aggregation approach. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 932-938.	2.4	25
50	Fractal analysis of viscoelastic data with automated gel point location and its potential application in the investigation of therapeutically modified blood coagulation. Rheologica Acta, 2010, 49, 901-908.	2.4	6
51	Longâ€term time series analysis of quantum dot encoded cells by deconvolution of the autofluorescence signal. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2010, 77A, 925-932.	1.5	16
52	A highly efficient algorithm for the generation of random fractal aggregates. Physica D: Nonlinear Phenomena, 2010, 239, 1061-1066.	2.8	12
53	Surface defects in semiconductor lasers studied with cross-sectional scanning tunneling microscopy. Applied Surface Science, 2010, 256, 5736-5739.	6.1	2
54	Single cell nanoparticle tracking to model cell cycle dynamics and compartmental inheritance. Cell Cycle, 2010, 9, 121-130.	2.6	37

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55	Flow-Based Cytometric Analysis of Cell Cycle via Simulated Cell Populations. PLoS Computational Biology, 2010, 6, e1000741.	3.2	10
56	Art in the Age of Steam : Walker Art Gallery, Liverpool, 18 Aprilâ€“10 August 2008. Technology and Culture, 2009, 50, 418-425.	0.1	0
57	Scanning Probe Microscopy of ZnO Nanobelts. E-Journal of Surface Science and Nanotechnology, 2009, 7, 323-326.	0.4	1
58	Characterisation of the influence of multi-quantum barrier reflectors within GaInP/AlGaInP quantum well lasers using near-field imaging techniques. Applied Surface Science, 2008, 255, 649-652.	6.1	2
59	Atomic force microscopy and scanning tunneling microscopy-spectroscopy characterization of ZnO nanobelts. Journal of Vacuum Science & Technology B, 2008, 26, 1606.	1.3	4
60	Cell-population tracking using quantum dots in flow cytometry. , 2008, , .		1
61	The Influence of the Gainâ€"Carrier Density Characteristic on Q-Switching in Quantum-Dot Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1222-1226.	2.9	2
62	Charge storage in SnO2 nanoparticles: A method and mechanism for charge writing/erasing. Applied Physics Letters, 2007, 91, .	3.3	1
63	Calculation of quantum-dot blinking using the Gillespie Monte Carlo algorithm. IET Optoelectronics, 2007, 1, 280-283.	3.3	1
64	The effect of interface roughness on multilayer heterostructures. Journal of Applied Physics, 2007, 102, 113711.	2.5	6
65	Direct real-time observation of catastrophic optical degradation in operating semiconductor lasers using scanning tunneling microscopy. Applied Physics Letters, 2007, 91, 081119.	3.3	6
66	Cross-sectional scanning tunneling microscopy of biased semiconductor lasers. Journal of Applied Physics, 2007, 102, 024306.	2.5	3
67	Modeling multiple quantum barrier effects and reduced electron leakage in red-emitting laser diodes. Journal of Applied Physics, 2006, 100, 084509.	2.5	10
68	AlGaInP laser diodes incorporating a 3Î»â^•4 multiple quantum barrier. Applied Physics Letters, 2005, 86, 021102.	3.3	5
69	Investigation on (Al0.7Ga0.3)0.5In0.5Pâ^•(Al0.3Ga0.7)0.5In0.5P multi-quantum-barrier superlattice using cross-sectional scanning tunneling microscopy. Journal of Applied Physics, 2005, 98, 033525.	2.5	3
70	Impurity-induced disordering in AlGaInP superlattices studied using cross-sectional scanning tunneling microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 2014.	1.6	3
71	Study of dual-valley transport across a multiquantum barrier to enhance carrier confinement. Applied Surface Science, 2004, 234, 434-438.	6.1	2
72	An investigation of multi-quantum barriers for band offset engineering in AlGaInP/GaInP lasers. Applied Surface Science, 2002, 190, 284-287.	6.1	5