

David Robert Grimes

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

37
papers

760
citations

15
h-index

27
g-index

51
ext. papers

1,016
ext. citations

5.2
avg, IF

5.37
L-index

#	Paper	IF	Citations
37	A method for estimating the oxygen consumption rate in multicellular tumour spheroids. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20131124	4.1	172
36	Modelling science trustworthiness under publish or perish pressure. <i>Royal Society Open Science</i> , 2018 , 5, 171511	3.3	67
35	A mechanistic investigation of the oxygen fixation hypothesis and oxygen enhancement ratio. <i>Biomedical Physics and Engineering Express</i> , 2015 , 1, 045209	1.5	65
34	Oxygen consumption dynamics in steady-state tumour models. <i>Royal Society Open Science</i> , 2014 , 1, 140089	3.9	44
33	Medical disinformation and the unviable nature of COVID-19 conspiracy theories. <i>PLoS ONE</i> , 2021 , 16, e0245900	3.7	37
32	The Role of Oxygen in Avascular Tumor Growth. <i>PLoS ONE</i> , 2016 , 11, e0153692	3.7	35
31	On the Viability of Conspiratorial Beliefs. <i>PLoS ONE</i> , 2016 , 11, e0147905	3.7	33
30	Methods: Using Three-Dimensional Culture (Spheroids) as an In Vitro Model of Tumour Hypoxia. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 899, 167-96	3.6	32
29	Oxygen Partial Pressure Is a Rate-Limiting Parameter for Cell Proliferation in 3D Spheroids Grown in Physioxenic Culture Condition. <i>PLoS ONE</i> , 2016 , 11, e0161239	3.7	29
28	Estimating oxygen distribution from vasculature in three-dimensional tumour tissue. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	29
27	Hypoxia imaging and radiotherapy: bridging the resolution gap. <i>British Journal of Radiology</i> , 2017 , 90, 20160939	3.4	25
26	Ultraviolet radiation therapy and UVR dose models. <i>Medical Physics</i> , 2015 , 42, 440-55	4.4	20
25	Proposed mechanisms for homeopathy are physically impossible. <i>Focus on Alternative and Complementary Therapies</i> , 2012 , 17, 149-155		18
24	An approximate analytical solution of the Bethe equation for charged particles in the radiotherapeutic energy range. <i>Scientific Reports</i> , 2017 , 7, 9781	4.9	16
23	Dose modeling in ultraviolet phototherapy. <i>Medical Physics</i> , 2010 , 37, 5251-7	4.4	15
22	Oxygen diffusion in ellipsoidal tumour spheroids. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	11
21	Health disinformation & social media: The crucial role of information hygiene in mitigating conspiracy theory and infodemics. <i>EMBO Reports</i> , 2020 , 21, e51819	6.5	11

20	Distinguishing Polemic From Commentary in Science: Some Guidelines Illustrated With the Case of Sage and Burgio (2017). <i>Child Development</i> , 2018 , 89, 141-147	4.9	10
19	Investigations of cabin design in UV phototherapy. <i>Medical Physics</i> , 2012 , 39, 3019-25	4.4	8
18	MultiCellDS: a community-developed standard for curating microenvironment-dependent multicellular data		8
17	Reflection modeling in ultraviolet phototherapy. <i>Medical Physics</i> , 2011 , 38, 4312-20	4.4	7
16	MultiCellDS: a standard and a community for sharing multicellular data		7
15	Evidence for hypoxia increasing the tempo of evolution in glioblastoma. <i>British Journal of Cancer</i> , 2020 , 123, 1562-1569	8.7	7
14	A computational simulation of reflector and tube effects in ultraviolet phototherapy. <i>Physics in Medicine and Biology</i> , 2012 , 57, 6661-70	3.8	6
13	Establishing a taxonomy of potential hazards associated with communicating medical science in the age of disinformation. <i>BMJ Open</i> , 2020 , 10, e035626	3	5
12	Commentary on "Are fluoride levels in drinking water associated with hypothyroidism prevalence in England? A large observational study of GP practice data and fluoride levels in drinking water". <i>Journal of Epidemiology and Community Health</i> , 2015 , 69, 616	5.1	5
11	String theory--the physics of string-bending and other electric guitar techniques. <i>PLoS ONE</i> , 2014 , 9, e102088	3.7	5
10	A dangerous balancing act: On matters of science, a well-meaning desire to present all views equally can be a Trojan horse for damaging falsehoods. <i>EMBO Reports</i> , 2019 , 20, e48706	6.5	5
9	Estimation of the oxygen enhancement ratio for charged particle radiation. <i>Physics in Medicine and Biology</i> , 2020 , 65, 15NT01	3.8	3
8	Close Encounters of the Cell Kind: The Impact of Contact Inhibition on Tumour Growth and Cancer Models. <i>Bulletin of Mathematical Biology</i> , 2020 , 82, 20	2.1	2
7	Dose Quantification in UV Phototherapy. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 996, 349-360	3.6	2
6	Hypoxia increases the tempo of evolution in glioblastoma		2
5	Modeling Cervical Cancer Screening Strategies With Varying Levels of Human Papillomavirus Vaccination. <i>JAMA Network Open</i> , 2021 , 4, e2115321	10.4	2
4	Association between magnetic field exposure and miscarriage risk is not supported by the data. <i>Scientific Reports</i> , 2021 , 11, 22143	4.9	1
3	The new normal? Redaction bias in biomedical science.. <i>Royal Society Open Science</i> , 2021 , 8, 211308	3.3	1

2 Modeling science trustworthiness under publish or perish pressure 1

1 Simulation of parabolic reflectors for ultraviolet phototherapy. *Physics in Medicine and Biology*, 2016, 61, N394-402 3.8 1