

# Neil H Davies

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

2,220  
citations

257450

24  
h-index

223800

46  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3212  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellâ€demanded release of VEGF from synthetic, biointeractive cellâ€ingrowth matrices for vascularized tissue growth. <i>FASEB Journal</i> , 2003, 17, 2260-2262.	0.5	501
2	Proanthocyanidins, anthocyanins and cardiovascular diseases. <i>Food Research International</i> , 2014, 59, 41-52.	6.2	192
3	The selective modulation of endothelial cell mobility on RGD peptide containing surfaces by YIGSR peptides. <i>Biomaterials</i> , 2005, 26, 167-174.	11.4	190
4	A Synthetic Non-degradable Polyethylene Glycol Hydrogel Retards Adverse Post-infarct Left Ventricular Remodeling. <i>Journal of Cardiac Failure</i> , 2009, 15, 629-636.	1.7	137
5	The dosage dependence of VEGF stimulation on scaffold neovascularisation. <i>Biomaterials</i> , 2008, 29, 3531-3538.	11.4	83
6	Melatonin as a preventive and curative therapy against pulmonaryâhypertension. <i>Journal of Pineal Research</i> , 2015, 59, 343-353.	7.4	58
7	Effect of Well Defined Dodecahedral Porosity on Inflammation and Angiogenesis. <i>ASAIO Journal</i> , 2002, 48, 465-471.	1.6	57
8	The beneficial effects of deferred delivery on the efficiency of hydrogel therapy post myocardial infarction. <i>Biomaterials</i> , 2012, 33, 2060-2066.	11.4	56
9	Cyclic Stretch Induces the Expression of Vascular Endothelial Growth Factor in Vascular Smooth Muscle Cells. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2001, 8, 41-48.	1.7	51
10	Extended C-terminal tail of wheat histone H2A interacts with DNA of the â€œlinkerâ€region. <i>Journal of Molecular Biology</i> , 1991, 218, 805-813.	4.2	50
11	Increased levels of autoantibodies to cardiolipin and oxidised low density lipoprotein are inversely associated with plasma vitamin C status in cigarette smokers. <i>Atherosclerosis</i> , 1996, 124, 75-81.	0.8	47
12	Sustaining Neovascularization of a Scaffold Through Staged Release of Vascular Endothelial Growth Factor-A and Platelet-Derived Growth Factor-BB. <i>Tissue Engineering - Part A</i> , 2012, 18, 26-34.	3.1	42
13	Histone H2B (and H2A) ubiquitination allows normal histone octamer and core particle reconstitution. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1994, 1218, 187-193.	2.4	41
14	Synthetic extracellular matrix mimic hydrogel improves efficacy of mesenchymal stromal cell therapy for ischemic cardiomyopathy. <i>Acta Biomaterialia</i> , 2018, 70, 71-83.	8.3	41
15	Covalent Surface Heparinization Potentiates Porous Polyurethane Scaffold Vascularization. <i>Journal of Biomaterials Applications</i> , 2010, 24, 401-418.	2.4	36
16	Cell specific ingrowth hydrogels. <i>Biomaterials</i> , 2013, 34, 6797-6803.	11.4	36
17	Coacervate Delivery of Growth Factors Combined with a Degradable Hydrogel Preserves Heart Function after Myocardial Infarction. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 753-759.	5.2	35
18	Transmural capillary ingrowth is essential for confluent vascular graft healing. <i>Acta Biomaterialia</i> , 2018, 65, 237-247.	8.3	35

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19	Characterisation of the mechanical properties of infarcted myocardium in the rat under biaxial tension and uniaxial compression. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 63, 252-264.	3.1	33
20	Improved vascularization of porous scaffolds through growth factor delivery from heparinized polyethylene glycol hydrogels. <i>Acta Biomaterialia</i> , 2017, 49, 89-100.	8.3	33
21	Engineering of vascular ingrowth matrices: Are protein domains an alternative to peptides?. <i>The Anatomical Record</i> , 2001, 263, 379-387.	1.8	32
22	Rapid three-dimensional quantification of VEGF-induced scaffold neovascularisation by microcomputed tomography. <i>Biomaterials</i> , 2009, 30, 5959-5968.	11.4	31
23	Personalised computational cardiology: Patient-specific modelling in cardiac mechanics and biomaterial injection therapies for myocardial infarction. <i>Heart Failure Reviews</i> , 2016, 21, 815-826.	3.9	31
24	The effect of hydrogel injection on cardiac function and myocardial mechanics in a computational post-infarction model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 1185-1195.	1.6	27
25	The activation function 2 domain of hepatic nuclear factor 4 is regulated by a short C-terminal proline-rich repressor domain. <i>Nucleic Acids Research</i> , 1998, 26, 2098-2104.	14.5	25
26	Pharmacodynamic effects of C-domain-specific ACE inhibitors on the renin-angiotensin system in myocardial infarcted rats. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , 2015, 16, 1149-1158.	1.7	24
27	Intra-myocardial alginate hydrogel injection acts as a left ventricular mid-wall constraint in swine. <i>Acta Biomaterialia</i> , 2020, 111, 170-180.	8.3	22
28	Outcomes of myocardial infarction hydrogel injection therapy in the human left ventricle dependent on injectate distribution. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 870-884.	2.1	20
29	Progressive Reinvention or Destination Lost? Half a Century of Cardiovascular Tissue Engineering. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 159.	2.4	19
30	Association of Ang-2 with Integrin $\alpha 2$ Controls Ang-2/PDGF-BB-Dependent Upregulation of Human Peripheral Blood Monocyte Fibrinolysis. <i>Inflammation</i> , 2009, 32, 393-401.	3.8	17
31	Studying the influence of hydrogel injections into the infarcted left ventricle using the element-free Galerkin method. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014, 30, 416-429.	2.1	17
32	Long-Term Left Ventricular Remodelling in Rat Model of Nonreperfused Myocardial Infarction: Sequential MR Imaging Using a 3T Clinical Scanner. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-10.	3.0	16
33	Regulation of tissue ingrowth into proteolytically degradable hydrogels. <i>Acta Biomaterialia</i> , 2015, 24, 44-52.	8.3	15
34	Oncogenic but non-essential role of N-myc downstream regulated gene 1 in the progression of esophageal squamous cell carcinoma. <i>Cancer Biology and Therapy</i> , 2013, 14, 164-174.	3.4	14
35	A slow-release fibrin matrix increases adeno-associated virus transduction of wound repair cells <i>in vivo</i> . <i>Journal of Biomaterials Applications</i> , 2014, 28, 1408-1418.	2.4	14
36	Ang-2 and PDGF-BB cooperatively stimulate human peripheral blood monocyte fibrinolysis. <i>Journal of Leukocyte Biology</i> , 2007, 81, 1496-1503.	3.3	13

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37	Pharmacokinetic evaluation of lisinopril-tryptophan, a novel C-domain ACE inhibitor. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 56, 113-119.	4.0	12
38	Clotting factor IX levels in C/EBP $\beta$ knockout mice. <i>British Journal of Haematology</i> , 1997, 99, 578-579.	2.5	11
39	Covalent incorporation and controlled release of active dexamethasone from injectable polyethylene glycol hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1311-1318.	4.0	10
40	Micro-structurally detailed model of a therapeutic hydrogel injectate in a rat biventricular cardiac geometry for computational simulations. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 325-331.	1.6	10
41	Excessive volume of hydrogel injectates may compromise the efficacy for the treatment of acute myocardial infarction. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016, 32, e02772.	2.1	10
42	Computational predictions of improved wall mechanics and function of the infarcted left ventricle at early and late remodelling stages: comparison of layered and bulk hydrogel injectates. <i>Advances in Biomechanics and Applications</i> , 2014, 1, 41-55.	0.2	9
43	Histone-DNA contacts in the 167 bp 2-turn core particle. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1991, 1129, 57-63.	2.4	7
44	Induced chronic hypoxia negates the pro-angiogenic effect of surface immobilized heparin in a polyurethane porous scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 98A, 621-628.	4.0	7
45	Cellular mechanosensitivity to substrate stiffness decreases with increasing dissimilarity to cell stiffness. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 2063-2075.	2.8	7
46	Analysis of the regenerative capacity of human serum exosomes after a simple multistep separation from lipoproteins. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 63-77.	2.7	7
47	Matrix Metalloproteinases and Tissue Valve Degeneration. <i>Journal of Long-Term Effects of Medical Implants</i> , 2001, 11, 10.	0.7	7
48	Effect of intra-myocardial Alginate-LVR injectates on fibre structure in porcine heart failure. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 87, 172-179.	3.1	6
49	Tuning Tissue Ingrowth into Proangiogenic Hydrogels via Dual Modality Degradation. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5430-5438.	5.2	5
50	Electrospun polyester-urethane scaffold preserves mechanical properties and exhibits strain stiffening during in situ tissue ingrowth and degradation. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	4
51	Infarcted rat myocardium: Data from biaxial tensile and uniaxial compressive testing and analysis of collagen fibre orientation. <i>Data in Brief</i> , 2016, 8, 1338-1343.	1.0	3
52	Tissue Ingrowth Markedly Reduces Mechanical Anisotropy and Stiffness in Fibre Direction of Highly Aligned Electrospun Polyurethane Scaffolds. <i>Cardiovascular Engineering and Technology</i> , 2020, 11, 456-468.	1.6	3
53	Cast Tube Assay: A 3-D in vitro assay for visualization and quantification of horizontal chemotaxis and cellular invasion. <i>BioTechniques</i> , 2016, 61, 66-72.	1.8	2
54	Delivery Modes for Cardiac Stem Cell Therapy. <i>Pancreatic Islet Biology</i> , 2016, , 165-190.	0.3	2

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55	Blood derived extracellular vesicles as regenerative medicine therapeutics. <i>Biochimie</i> , 2022, 196, 203-215.	2.6	2
56	A Preliminary Computational Investigation Into the Flow of PEG in Rat Myocardial Tissue for Regenerative Therapy. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 104.	2.4	1
57	Tendon-like tether formation for tongue-base advancement in an ovine model using a novel implant device intended for the surgical management of obstructive sleep apnoea. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 1005-1016.	3.4	1
58	Determination of Cross-Directional and Cross-Wall Variations of Passive Biaxial Mechanical Properties of Rat Myocardia. <i>Processes</i> , 2022, 10, 629.	2.8	1
59	In silico stress fibre content affects peak strain in cytoplasm and nucleus but not in the membrane for uniaxial substrate stretch. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 1933-1944.	2.8	0
60	Stimulation of Peripheral Blood Monocyte Fibrinolysis by Ang $\alpha$ 2 and PDGF $\beta$ . <i>FASEB Journal</i> , 2006, 20, A711.	0.5	0
61	A Computational Study of the Injection Therapy for Myocardial Infarction during the Necrotic Stage. , 2013, , .		0