Peter I Lelkes

List of Publications by Year
in descending order

154 papers	8,833 citations	71102 41 h-index	45317 90 g-index
155 all docs	155 docs citations	155 times ranked	11832 citing authors

#	Article	IF	Citations
1	Electrospinning polyaniline-contained gelatin nanofibers for tissue engineering applications. Biomaterials, 2006, 27, 2705-2715.	11.4	788
2	Electrospun protein fibers as matrices for tissue engineering. Biomaterials, 2005, 26, 5999-6008.	11.4	743
3	Electrospun hydroxyapatite-containing chitosan nanofibers crosslinked with genipin for bone tissue engineering. Biomaterials, 2012, 33, 9167-9178.	11.4	355
4	Fluorescent PLLA-nanodiamond composites for bone tissue engineering. Biomaterials, 2011, 32, 87-94.	11.4	352
5	Growing tissues in microgravity. Nature Medicine, 1998, 4, 901-907.	30.7	349
6	Co-electrospun poly(lactide-co-glycolide), gelatin, and elastin blends for tissue engineering scaffolds. Journal of Biomedical Materials Research - Part A, 2006, 79A, 963-973.	4.0	304
7	Polyaniline, an electroactive polymer, supports adhesion and proliferation of cardiac myoblasts. Journal of Biomaterials Science, Polymer Edition, 2006, 17, 199-212.	3.5	292
8	Biomechanical and biochemical remodeling of stromal extracellular matrix in cancer. Trends in Biotechnology, 2015, 33, 230-236.	9.3	276
9	Gene expression profiling of human aortic endothelial cells exposed to disturbed flow and steady laminar flow. Physiological Genomics, 2002, 9, 27-41.	2.3	263
10	Synthesis and characterization of electroactive and biodegradable ABA block copolymer of polylactide and aniline pentamer. Biomaterials, 2007, 28, 1741-1751.	11.4	252
11	Porogen-based solid freeform fabrication of polycaprolactoneâ€“calcium phosphate scaffolds for tissue engineering. Biomaterials, 2006, 27, 4399-4408.	11.4	207
12	Mechanical properties and biomineralization of multifunctional nanodiamond-PLLA composites for bone tissue engineering. Biomaterials, 2012, 33, 5067-5075.	11.4	206
13	Topographic guidance of endothelial cells on silicone surfaces with micro- to nanogrooves: Orientation of actin filaments and focal adhesions. Journal of Biomedical Materials Research - Part A, 2005, 75A, 668-680.	4.0	172
14	Synthesis, surface, and cell-adhesion properties of polyurethanes containing covalently grafted RGD-peptides. Journal of Biomedical Materials Research Part B, 1994, 28, 329-342.	3.1	168
15	Engineering Three-Dimensional Pulmonary Tissue Constructs. Tissue Engineering, 2006, 12, 717-728.	4.6	155
16	Perturbations of membrane structure by optical probes: I. Location and structural sensitivity of merocyanine 540 bound to phospholipid membranes. Journal of Membrane Biology, 1980, 52, 1-15.	2.1	154
17	Cross Talk between the Cardiovascular and Nervous Systems:Neurotrophic Effects of Vascular Endothelial Growth Factor (VEGF) and Angiogenic Effects of Nerve Growth Factor (NGF)-Implications in Drug Development. Current Pharmaceutical Design, 2006, 12, 2609-2622.	1.9	147
18	Micropatterning of three-dimensional electrospun polyurethane vascular grafts. Acta Biomaterialia, 2010, 6, 4229-4237.	8.3	129

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19	Co-Electrospun Blends of PLGA, Gelatin, and Elastin as Potential Nonthrombogenic Scaffolds for Vascular Tissue Engineering. Biomacromolecules, 2011, 12, 399-408.	5.4	121
20	On the road to smart biomaterials for bone research: definitions, concepts, advances, and outlook. Bone Research, 2021, 9, 12.	11.4	121
21	Electroactive Oligoaniline-Containing Self-Assembled Monolayers for Tissue Engineering Applications. Biomacromolecules, 2007, 8, 3025-3034.	5.4	110
22	Homocysteine Upregulates Vascular Cell Adhesion Molecule-1 Expression in Cultured Human Aortic Endothelial Cells and Enhances Monocyte Adhesion. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 587-592.	2.4	91
23	Destabilization of actin filaments as a requirement for the secretion of catecholamines from permeabilized chromaffin cells. FEBS Letters, 1986, 208, 357-363.	2.8	90
24	Textile-templated electrospun anisotropic scaffolds for regenerative cardiac tissue engineering. Biomaterials, 2014, 35, 8540-8552.	11.4	85
25	Efficient Derivation of Alveolar Type II Cells from Embryonic Stem Cells forIn VivoApplication. Tissue Engineering - Part A, 2009, 15, 3351-3365.	3.1	78
26	Simulated microgravity conditions enhance differentiation of cultured PC12 cells towards the neuroendocrine phenotype. In Vitro Cellular and Developmental Biology - Animal, 1998, 34, 316-325.	1.5	72
27	Gene Expression Profiling of Vascular Endothelial Cells Exposed to Fluid Mechanical Forces: Relevance for Focal Susceptibility to Atherosclerosis. Endothelium: Journal of Endothelial Cell Research, 2004, 11, 45-57.	1.7	71
28	Nerve Growth Factor-Induced Migration of Endothelial Cells. Journal of Pharmacology and Experimental Therapeutics, 2005, 315, 1220-1227.	2.5	68
29	Cytosolic calcium changes in endothelial cells induced by a protein product of human gliomas containing vascular permeability factor activity. Journal of Neurosurgery, 1989, 71, 884-891.	1.6	61
30	Fine-tuning of a three-dimensional microcarrier-based angiogenesis assay for the analysis of endothelial-mesenchymal cell co-cultures in fibrin and collagen gels. Angiogenesis, 2006, 9, 111-125.	7.2	61
31	Turgor Pressure Regulation in Valonia utricularis. Plant Physiology, 1976, 58, 608-613.	4.8	59
32	Electrospun soy protein scaffolds as wound dressings: Enhanced reepithelialization in a porcine model of wound healing. Wound Medicine, 2014, 5, 9-15.	2.7	59
33	Neural stem cells: therapeutic potential for neurodegenerative diseases. British Medical Bulletin, 2012, 104, 7-19.	6.9	57
34	In VivoPulmonary Tissue Engineering: Contribution of Donor-Derived Endothelial Cells to Construct Vascularization*. Tissue Engineering - Part A, 2008, 14, 361-368.	3.1	56
35	Biocompatibility and biodegradation studies of PCL/Î²-TCP bone tissue scaffold fabricated by structural porogen method. Journal of Materials Science: Materials in Medicine, 2012, 23, 2217-2226.	3.6	55
36	Cytotoxicity Tests of Water Soluble ZnS and CdS Quantum Dots. Journal of Nanoscience and Nanotechnology, 2011, 11, 3543-3551.	0.9	53

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37	Enhanced EGFR inhibition and distinct epitope recognition by EGFR antagonistic MABS C225 and 425. Cancer Biology and Therapy, 2008, 7, 726-733.	3.4	52
38	Nerve Growth Factor (NGF) Promotes Angiogenesis in the Quail Chorioallantoic Membrane. Endothelium: Journal of Endothelial Cell Research, 2006, 13, 51-59.	1.7	51
39	Revascularization of decellularized lung scaffolds: principles and progress. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L1273-L1285.	2.9	50
40	Reactive oxygen species, apoptosis and alte1red NGF-induced signaling in PC12 pheochromocytoma cells cultured in elevated glucose: AnIn Vitro cellular model for diabetic neuropathy. Neurotoxicity Research, 2001, 3, 189-203.	2.7	47
41	EngineeringDe NovoAssembly of Fetal Pulmonary Organoids. Tissue Engineering - Part A, 2014, 20, 2892-2907.	3.1	46
42	Measurement of cell numbers in microtiter culture plates using the fluorescent dye Hoechst 33258. Journal of Immunological Methods, 1993, 162, 41-45.	1.4	43
43	Inhibition of angiogenesis by blockers of volume-regulated anion channels. General Pharmacology, 2000, 34, 107-116.	0.7	42
44	Enhanced reseeding of decellularized rodent lungs with mouse embryonic stem cells. Biomaterials, 2014, 35, 3252-3262.	11.4	42
45	From Snake Venomâ€™s Disintegrins and C-Type Lectins to Anti-Platelet Drugs. Toxins, 2019, 11, 303.	3.4	41
46	Oligoaniline-Contained Electroactive Silsesquioxane Precursor for Synthesizing Novel Siliceous Materials. Macromolecules, 2007, 40, 2721-2729.	4.8	40
47	Neuroprotective effects of nimodipine and nifedipine in the NGFâ€differentiated PC12 cells exposed to oxygenâ€glucose deprivation or trophic withdrawal. International Journal of Developmental Neuroscience, 2012, 30, 465-469.	1.6	40
48	Alimentary â€˜greenâ€™ proteins as electrospun scaffolds for skin regenerative engineering. Journal of Tissue Engineering and Regenerative Medicine, 2013, 7, 994-1008.	2.7	39
49	Constitutive K-RasG12D Activation of ERK2 Specifically Regulates 3D Invasion of Human Pancreatic Cancer Cells via MMP-1. Molecular Cancer Research, 2012, 10, 183-196.	3.4	38
50	Adult and iPS-derived non-parenchymal cells regulate liver organoid development through differential modulation of Wnt and TGF-Î². Stem Cell Research and Therapy, 2019, 10, 258.	5.5	37
51	GTSF-2: A new, versatile cell culture medium for diverse normal and transformed mammalian cells. In Vitro Cellular and Developmental Biology - Animal, 1997, 33, 344-351.	1.5	36
52	Adrenal medullary function and expression of catecholamine-synthesizing enzymes in mice with hypothalamic obesity. Life Sciences, 2004, 74, 3211-3222.	4.3	36
53	Osseointegrative Properties of Electrospun Hydroxyapatite-Containing Nanofibrous Chitosan Scaffolds. Tissue Engineering - Part A, 2015, 21, 970-981.	3.1	36
54	Fibronectin-mediated upregulation of Î±5Î²1 integrin and cell adhesion during differentiation of mouse embryonic stem cells. Cell Adhesion and Migration, 2011, 5, 73-82.	2.7	35

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55	Hypoxia Enhances Differentiation of Mouse Embryonic Stem Cells into Definitive Endoderm and Distal Lung Cells. Stem Cells and Development, 2015, 24, 663-676.	2.1	35
56	Potential dependent rigidity changes in lipid membrane vesicles. Biochemical and Biophysical Research Communications, 1979, 90, 656-662.	2.1	34
57	Enhanced Re-Endothelialization of Decellularized Rat Lungs. Tissue Engineering - Part C: Methods, 2016, 22, 439-450.	2.1	34
58	Electrospun Rapamycin-Eluting Polyurethane Fibers for Vascular Grafts. Pharmaceutical Research, 2013, 30, 1735-1748.	3.5	33
59	Staphylococcus aureus Î±-toxin activates phospholipases and induces a Ca2+ influx in PC12 cells. Cellular Signalling, 1989, 1, 387-393.	3.6	32
60	Mini and customized low-cost bioreactors for optimized high-throughput generation of tissue organoids. Stem Cell Investigation, 2018, 5, 33-33.	3.0	32
61	Comparison of ICAM-1 and VCAM-1 Expression in Various Human Endothelial Cell types and Smooth Muscle Cells. Endothelium: Journal of Endothelial Cell Research, 1998, 6, 33-44.	1.7	31
62	Mesenchymal stem cells for therapeutic applications in pulmonary medicine. British Medical Bulletin, 2015, 115, 45-56.	6.9	31
63	Tissueâ€specific alternative mRNA splicing ofphenylethanolamine nâ€methyltransferase (PNMT) duringdevelopment by intron RETENTION. International Journal of Developmental Neuroscience, 1999, 17, 45-55.	1.6	30
64	Multifunctional Dental Composite with Piezoelectric Nanofillers for Combined Antibacterial and Mineralization Effects. ACS Applied Materials & Interfaces, 2021, 13, 43868-43879.	8.0	30
65	Nerve Growth Factor-Induced Protection of Brain Capillary Endothelial Cells Exposed to Oxygenâ€“Glucose Deprivation Involves Attenuation of Erk Phosphorylation. Journal of Molecular Neuroscience, 2010, 41, 183-192.	2.3	29
66	The possible implication of membrane-associated actin in stimulus-secretion coupling in adrenal chromaffin cells. Biochemical and Biophysical Research Communications, 1980, 96, 1717-1723.	2.1	28
67	A novel real-time system to monitor cell aggregation and trajectories in rotating wall vessel bioreactors. Journal of Biotechnology, 2006, 125, 416-424.	3.8	28
68	Gradient porous fibrous scaffolds: a novel approach to improving cell penetration in electrospun scaffolds. Biomedical Materials (Bristol), 2018, 13, 065010.	3.3	28
69	An Air Bubble-Isolating Rotating Wall Vessel Bioreactor for Improved Spheroid/Organoid Formation. Tissue Engineering - Part C: Methods, 2019, 25, 479-488.	2.1	28
70	Regulation of the adenylyl cyclase signaling system in various types of cultured endothelial cells. Journal of Cellular Biochemistry, 1995, 57, 590-598.	2.6	26
71	Topographic cues of a novel bilayered scaffold modulate dental pulp stem cells differentiation by regulating YAP signalling through cytoskeleton adjustments. Cell Proliferation, 2019, 52, e12676.	5.3	26
72	Perturbations of membrane structure by optical probes: II. Differential scanning calorimetry of dipalmitoyllecithin and its analogs interacting with merocyanine 540. Journal of Membrane Biology, 1980, 54, 141-148.	2.1	24

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73	Establishment and characterization of a clonal line of parathyroid endothelial cells. FASEB Journal, 1990, 4, 3152-3158.	0.5	24
74	Electrowetting-based multi-microfluidics array printing of high resolution tissue construct with embedded cells and growth factors. Virtual and Physical Prototyping, 2007, 2, 217-223.	10.4	24
75	Pilot study on biocompatibility of fluorescent nanodiamond-(NV)-Z–800 particles in rats: safety, pharmacokinetics, and bio-distribution (part III). International Journal of Nanomedicine, 2018, Volume 13, 5449-5468.	6.7	24
76	Real-time assessment of three-dimensional cell aggregation in rotating wall vessel bioreactors in vitro. Nature Protocols, 2006, 1, 2116-2127.	12.0	23
77	Anti-angiogenic activities of snake venom CRISP isolated from Echis carinatus sochureki. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1169-1179.	2.4	23
78	A Bilayered Poly (Lactic-Co-Glycolic Acid) Scaffold Provides Differential Cues for the Differentiation of Dental Pulp Stem Cells. Tissue Engineering - Part A, 2019, 25, 224-233.	3.1	23
79	Angioneural Crosstalk in Scaffolds with Oriented Microchannels for Regenerative Spinal Cord Injury Repair. Journal of Molecular Neuroscience, 2013, 49, 334-346.	2.3	22
80	Tissue Factor Activity and ECM-Related Gene Expression in Human Aortic Endothelial Cells Grown on Electrospun Biohybrid Scaffolds. Biomacromolecules, 2013, 14, 1338-1348.	5.4	22
81	Functional recovery of peripheral blood mononuclear cells in modeled microgravity. FASEB Journal, 2006, 20, 305-307.	0.5	21
82	Templated Synthesis of Electroactive Periodic Mesoporous Organosilica Bridged with Oligoaniline. Chemistry - A European Journal, 2008, 14, 2909-2917.	3.3	20
83	Vascular thrombus imaging in vivo via near-infrared fluorescent nanodiamond particles bioengineered with the disintegrin bitistatin (Part II). International Journal of Nanomedicine, 2017, Volume 12, 8471-8482.	6.7	20
84	Endothelial cellâ€"lined skeletal muscle ventricles in circulation. Journal of Thoracic and Cardiovascular Surgery, 1995, 109, 66-73.	0.8	19
85	Staurosporine induces neurite outgrowth in neuronal hybrids (PC12EN) lacking NGF receptors. Journal of Cellular Biochemistry, 1996, 62, 356-371.	2.6	19
86	Quantitative Assessment of Neuronal Differentiation in Three-dimensional Collagen Gels Using Enhanced Green Fluorescence Protein Expressing PC12 Pheochromocytoma Cells. Journal of Molecular Neuroscience, 2009, 37, 225-237.	2.3	19
87	ERK2-regulated TIMP1 Induces Hyperproliferation of K-RasG12D-Transformed Pancreatic Ductal Cells. Neoplasia, 2013, 15, 359-IN1.	5.3	19
88	Mechanical Study of Polycaprolactone-hydroxyapatite Porous Scaffolds Created by Porogen-based Solid Freeform Fabrication Method. Journal of Applied Biomaterials and Functional Materials, 2014, 12, 145-154.	1.6	19
89	Near infrared spectroscopic imaging assessment of cartilage composition: Validation with mid infrared imaging spectroscopy. Analytica Chimica Acta, 2016, 926, 79-87.	5.4	19
90	NGF Promotes Hemodynamic Recovery in a Rabbit Hindlimb Ischemic Model Through trkA- and VEGFR2-dependent Pathways. Journal of Cardiovascular Pharmacology, 2013, 62, 270-277.	1.9	18

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91	Neurotherapeutic Effect of Cord Blood Derived CD45⁺Hematopoietic Cells in Mice after Traumatic Brain Injury. Journal of Neurotrauma, 2014, 31, 1405-1416.	3.4	18
92	A computational model of chemotaxis-based cell aggregation. BioSystems, 2008, 93, 226-239.	2.0	17
93	Affinity purified tetanus toxin binds to isolated chromaffin granules and inhibits catecholamine release in digitonin-permeabilized chromaffin cells. FEBS Letters, 1989, 253, 121-128.	2.8	16
94	Angiostatic effects of K252a, a Trk inhibitor, in murine brain capillary endothelial cells. Molecular and Cellular Biochemistry, 2010, 339, 201-213.	3.1	16
95	Transient signaling of Erk1/2, Akt and PLCÎ³ induced by nerve growth factor in brain capillary endothelial cells. Vascular Pharmacology, 2010, 53, 107-114.	2.1	16
96	Association of p75NTR and Î±9Î²1 integrin modulates NGF-dependent cellular responses. Cellular Signalling, 2015, 27, 1225-1236.	3.6	16
97	Soy Protein Nanofiber Scaffolds for Uniform Maturation of Human Induced Pluripotent Stem Cell-Derived Retinal Pigment Epithelium. Tissue Engineering - Part C: Methods, 2020, 26, 433-446.	2.1	16
98	Microgravity decreases tyrosine hydroxylase expression in rat adrenals. FASEB Journal, 1994, 8, 1177-1182.	0.5	15
99	Long-term biocompatibility of fluorescent diamonds-(NV)-Z~800 nm in rats: survival, morbidity, histopathology, and particle distribution and excretion studies (part IV) . International Journal of Nanomedicine, 2019, Volume 14, 1163-1175.	6.7	15
100	Pre-coating decellularized liver with HepG2-conditioned medium improves hepatic recellularization. Materials Science and Engineering C, 2021, 121, 111862.	7.3	15
101	Pardaxin induces aggregation but not fusion of phosphatidylserine vesicles. FEBS Letters, 1988, 230, 131-136.	2.8	14
102	Novel Methods for Delivery of Cell-Based Therapies. Journal of Surgical Research, 2008, 146, 3-10.	1.6	14
103	Conference Report: Endothelial Cell Heterogeneity and Organ Specificity. Endothelium: Journal of Endothelial Cell Research, 1993, 1, 69-70.	1.7	13
104	Enhanced Survival and Neurite Network Formation of Human Umbilical Cord Blood Neuronal Progenitors in Three-Dimensional Collagen Constructs. Journal of Molecular Neuroscience, 2013, 51, 249-261.	2.3	13
105	Culture of Neuroendocrine and Neuronal Cells for Tissue Engineering. , 2006, , 375-415.		12
106	A novel sucrose porogenâ€based solid freeform fabrication system for bone scaffold manufacturing. Rapid Prototyping Journal, 2010, 16, 365-376.	3.2	11
107	Bitistatin-functionalized fluorescent nanodiamond particles specifically bind to purified human platelet integrin receptor α_{IIb}β₃ and activated platelets. International Journal of Nanomedicine, 2017, Volume 12, 3711-3720.	6.7	11
108	Nerve Growth Factor-Induced Angiogenesis: 1. Endothelial Cell Tube Formation Assay. Methods in Molecular Biology, 2018, 1727, 239-250.	0.9	11

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109	Self-organized sorting of heterotypic agents via a chemotaxis paradigm. Science of Computer Programming, 2013, 78, 594-611.	1.9	10
110	Biocompatibility studies of fluorescent diamond particles-(NV)â^¼800nm (part V): in vitro kinetics and in vivo localization in rat liver following long-term exposure . International Journal of Nanomedicine, 2019, Volume 14, 6451-6464.	6.7	10
111	The Use of Near-Infrared Light-Emitting Fluorescent Nanodiamond Particles to Detect Ebola Virus Glycoprotein: Technology Development and Proof of Principle . International Journal of Nanomedicine, 2020, Volume 15, 7583-7599.	6.7	10
112	Cardiac microvascular endothelial cells express and release nerve growth factor but not fibroblast growth factor-2. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 469-476.	1.5	9
113	Transcriptional Down-regulation of Epidermal Growth Factor (EGF) Receptors by Nerve Growth Factor (NGF) in PC12 Cells. Journal of Molecular Neuroscience, 2014, 54, 574-585.	2.3	9
114	Impairment of 7F2 osteoblast function by simulated partial gravity in a Random Positioning Machine. Npj Microgravity, 2022, 8, .	3.7	9
115	Encapsulation of human fibroblast interferon activity in liposomes. Biochemical and Biophysical Research Communications, 1982, 107, 136-143.	2.1	8
116	Direct fluorometric assay of catecholamine secretion from isolated bovine adrenal chromaffin cells. Journal of Neuroscience Methods, 1985, 13, 249-255.	2.5	8
117	Novel Thermally Cross-Linkable Poly[(arylenedioxy)(diorganylsilylene)]s Based on Curcumin: Synthesis and Characterization. Macromolecules, 2010, 43, 3277-3285.	4.8	8
118	New aspects of endothelial cell biology. Journal of Cellular Biochemistry, 1991, 45, 242-244.	2.6	7
119	Endothelial Lined Skeletal Muscle Ventricles: Open and Percutaneous Seeding Techniques. Journal of Cardiac Surgery, 1995, 10, 245-256.	0.7	7
120	Subâ€mitogenic phorbol myristate acetate coâ€stimulation rescues the PHAâ€induced activation of both naÃ¯ve and memory T cells cultured in the rotatingâ€wall vessel bioreactor. Cell Biology International, 2009, 33, 882-886.	3.0	7
121	Heterogeneous Mixed-Lineage Differentiation of Mouse Embryonic Stem Cells Induced by Conditioned Media from A549 Cells. Stem Cells and Development, 2014, 23, 1923-1936.	2.1	7
122	Textile technologies for 3D scaffold engineering. , 2018, , 175-201.		7
123	New Approaches to Respiratory Assist: Bioengineering an Ambulatory, Miniaturized Bioartificial Lung. ASAIO Journal, 2019, 65, 422-429.	1.6	7
124	Multi-Material Scaffolds for Tissue Engineering. Macromolecular Symposia, 2005, 227, 345-356.	0.7	6
125	Enhanced Induction of Definitive Endoderm Differentiation of Mouse Embryonic Stem Cells in Simulated Microgravity. Stem Cells and Development, 2020, 29, 1275-1284.	2.1	6
126	Neutral endopeptidase activity in the interaction ofN-formyl-l-methionyl-l-leucyl-l-phenylalanine with human polymorphonuclear leukocytes. FEBS Journal, 1991, 201, 421-430.	0.2	5

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127	Flow patterns and endothelial cell morphology in a simplified model of an artificial ventricle. Cell Biophysics, 1993, 23, 139-163.	0.4	5
128	Steady Unidirectional Laminar Flow Inhibits Monolayer Formation by Human and Rat Microvascular Endothelial Cells. Endothelium: Journal of Endothelial Cell Research, 2004, 11, 11-16.	1.7	5
129	Peaceful use of disastrous neurotoxicants. NeuroToxicology, 2010, 31, 608-620.	3.0	5
130	Nerve Growth Factor-Induced Angiogenesis: 2. The Quail Chorioallantoic Membrane Assay. Methods in Molecular Biology, 2018, 1727, 251-259.	0.9	5
131	Nutraceuticals Synergistically Promote Osteogenesis in Cultured 7F2 Osteoblasts and Mitigate Inhibition of Differentiation and Maturation in Simulated Microgravity. International Journal of Molecular Sciences, 2022, 23, 136.	4.1	5
132	Endothelial Cell Seeding of Latissimus Dorsi Muscle Pouches. Journal of Surgical Research, 1994, 57, 460-469.	1.6	4
133	Intelligent Biomatrices and Engineered Tissue Constructs: In-Vitro Models for Drug Discovery and Toxicity Testing. , 2006, , 1-51.		4
134	Simulation of chemotaxis-based sorting of heterotypic cell populations. , 2007, , .		4
135	Cytocompatibility of novel extracellular matrix protein analogs of biodegradable polyester polymers derived from Î±-hydroxy amino acids. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 608-624.	3.5	4
136	Cell-Based Adhesion Assays for Isolation of Snake Venomâ€™s Integrin Antagonists. Methods in Molecular Biology, 2020, 2068, 205-223.	0.9	4
137	Neurotrophic factors and their receptors in lung development and implications in lung diseases. Cytokine and Growth Factor Reviews, 2021, 59, 84-94.	7.2	3
138	Biodesign of a Skeletal Muscle Flap as a Model for Cardiac Assistance. Artificial Organs, 2000, 24, 137-147.	1.9	3
139	Drug-Eluting Vascular Grafts. Advances in Delivery Science and Technology, 2014, , 405-427.	0.4	3
140	Effect of Nano-to Micro-Scale Surface Topography on the Orientation of Endothelial Cells. Materials Research Society Symposia Proceedings, 2004, 845, 297.	0.1	2
141	In Vivo Testing of Extracorporeal Membrane Ventilators: iLA-Activve Versus Prototype I-Lung. ASAIO Journal, 2017, 63, 185-192.	1.6	2
142	Nanoelectrodes Fabricated from Electron Beam Deposited Carbon as Potential Electrochemical Neuronal Probes. Journal of Biomedical Nanotechnology, 2005, 1, 336-340.	1.1	2
143	Successful endothelialization of cardiovascular prostheses. Cardiovascular Pathology, 1996, 5, 287.	1.6	0
144	Conference Report: 6th Biannual International Meeting "Angiogenesis: Basic Science and Clinical Development". Endothelium: Journal of Endothelial Cell Research, 2002, 9, 55-75.	1.7	0

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145	Editorial Comment: A New Beginning. Endothelium: Journal of Endothelial Cell Research, 2002, 9, 1-2.	1.7	0
146	Microenvironmental Modulation of Stem Cell Differentiation with Focus on the Lung. , 2015, , 59-97.		0
147	Smart Matrices for Distal Lung Tissue Engineering. , 2015, , 99-123.		0
148	Cover Image, Volume 52, Issue 6. Cell Proliferation, 2019, 52, e12728.	5.3	0
149	Effects of Fluorescent Diamond Particles FDP-NV-800nm on Essential Biochemical Functions of Primary Human Umbilical Vein Cells and Human Hepatic Cell Line, HepG-2 in vitro (Part VI): Acute Biocompatibility Studies . Nanotechnology, Science and Applications, 2020, Volume 13, 103-118.	4.6	0
150	Three-Dimensional Pulmonary Constructs. , 2010, , 261-285.		0
151	Nerve Growth Factor and Human Umbilical Cord Blood-Derived Cells Confer Neurovascular Protection in Ischemia. American Journal of Neuroprotection and Neuroregeneration, 2011, 3, 32-41.	0.1	0
152	Constitutive Kâ€RasG12D Activation of ERK2 Specifically Regulates 3D Invasion of Human Pancreatic Cancer Cells via MMPâ€1. FASEB Journal, 2012, 26, 975.1.	0.5	0
153	Abstract WP56: Imaging Intra-Carotid Thrombosis Using Near InfraRed Fluorescent-NanoDiamond Particles Bio-engineered With the Disintegrin Bitistatin. Stroke, 2018, 49, .	2.0	0
154	Cellular Signaling Mechanisms Involved in the 3-Dimensional Assembly and Differentiation of PC12 Pheochromocytoma Cells Under Simulated Microgravity in NASA Rotating Wall Vessel Bioreactors. , 1998, , .		0