Sarka Kubinova

List of Publications by Year
in descending order

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80	3,490	94269 37	149479 56
papers	citations	h-index	g-index

81	81	81	6107
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The therapeutic potential of three-dimensional multipotent mesenchymal stromal cell spheroids. Stem Cell Research and Therapy, 2017, 8, 94.	2.4	179
2	Injectable Extracellular Matrix Hydrogels as Scaffolds for Spinal Cord Injury Repair. Tissue Engineering - Part A, 2016, 22, 306-317.	1.6	134
3	The interplay between biological and physical scenarios of bacterial death induced by non-thermal plasma. Biomaterials, 2016, 82, 71-83.	5.7	124
4	A Comparative Analysis of Multipotent Mesenchymal Stromal Cells derived from Different Sources, with a Focus on Neuroregenerative Potential. Scientific Reports, 2020, 10, 4290.	1.6	111
5	Human Mesenchymal Stem Cells Modulate Inflammatory Cytokines after Spinal Cord Injury in Rat. International Journal of Molecular Sciences, 2014, 15, 11275-11293.	1.8	97
6	Nanofibers prepared by needleless electrospinning technology as scaffolds for wound healing. Journal of Materials Science: Materials in Medicine, 2012, 23, 931-941.	1.7	96
7	An effective strategy of magnetic stem cell delivery for spinal cord injury therapy. Nanoscale, 2015, 7, 3954-3958.	2.8	89
8	The use of superporous Ac-CGGASIKVAVS-OH-modified PHEMA scaffolds to promote cell adhesion and the differentiation of human fetal neural precursors. Biomaterials, 2010, 31, 5966-5975.	5.7	88
9	Nanotechnologies in regenerative medicine. Minimally Invasive Therapy and Allied Technologies, 2010, 19, 144-156.	0.6	86
10	Genipin and EDC crosslinking of extracellular matrix hydrogel derived from human umbilical cord for neural tissue repair. Scientific Reports, 2019, 9, 10674.	1.6	86
11	Morphological Characterization of Nanofibers: Methods and Application in Practice. Journal of Nanomaterials, 2012, 2012, 1-14.	1.5	84
12	Suppression of alkali-induced oxidative injury in the cornea by mesenchymal stem cells growing on nanofiber scaffolds and transferred onto the damaged corneal surface. Experimental Eye Research, 2013, 116, 312-323.	1.2	84
13	Treatment of Ocular Surface Injuries by Limbal and Mesenchymal Stem Cells Growing on Nanofiber Scaffolds. Cell Transplantation, 2010, 19, 1281-1290.	1.2	79
14	Nanotechnology for treatment of stroke and spinal cord injury. Nanomedicine, 2010, 5, 99-108.	1.7	75
15	Highly efficient magnetic targeting of mesenchymal stem cells in spinal cord injury. International Journal of Nanomedicine, 2012, 7, 3719.	3.3	73
16	Extracellular Matrix Hydrogel Derived from Human Umbilical Cord as a Scaffold for Neural Tissue Repair and Its Comparison with Extracellular Matrix from Porcine Tissues. Tissue Engineering - Part C: Methods, 2017, 23, 333-345.	1.1	73
17	Analyzing the mechanisms of iron oxide nanoparticles interactions with cells: A road from failure to success in clinical applications. Journal of Controlled Release, 2020, 328, 59-77.	4.8	72
18	A Comparative Study of Three Different Types of Stem Cells for Treatment of Rat Spinal Cord Injury. Cell Transplantation, 2017, 26, 585-603.	1.2	69

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19	Cholesterol-modified superporous poly(2-hydroxyethyl methacrylate) scaffolds for tissue engineering. Biomaterials, 2009, 30, 4601-4609.	5.7	68
20	SIKVAV-modified highly superporous PHEMA scaffolds with oriented pores for spinal cord injury repair. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 1298-1309.	1.3	66
21	Regenerative medicine for the treatment of spinal cord injury: more than just promises?. Journal of Cellular and Molecular Medicine, 2012, 16, 2564-2582.	1.6	64
22	Cell death induced by ozone and various non-thermal plasmas: therapeutic perspectives and limitations. Scientific Reports, 2014, 4, 7129.	1.6	62
23	Effect of elevated K+, hypotonic stress, and cortical spreading depression on astrocyte swelling in GFAP-deficient mice. Glia, 2001, 35, 189-203.	2.5	61
24	The relationship between changes in intrinsic optical signals and cell swelling in rat spinal cord slices. NeuroImage, 2003, 18, 214-230.	2.1	60
25	Injectable hydroxyphenyl derivative of hyaluronic acid hydrogel modified with RGD as scaffold for spinal cord injury repair. Journal of Biomedical Materials Research - Part A, 2018, 106, 1129-1140.	2.1	59
26	Biomaterials combined with cell therapy for treatment of spinal cord injury. Regenerative Medicine, 2012, 7, 207-224.	0.8	55
27	Controlled gentamicin release from multi-layered electrospun nanofibrous structures of various thicknesses. International Journal of Nanomedicine, 2012, 7, 5315.	3.3	51
28	Characterization of human adipose tissueâ€derived stromal cells isolated from diabetic patient's distal limbs with critical ischemia. Cell Biochemistry and Function, 2014, 32, 597-604.	1.4	49
29	The Anti-Inflammatory Compound Curcumin Enhances Locomotor and Sensory Recovery after Spinal Cord Injury in Rats by Immunomodulation. International Journal of Molecular Sciences, 2016, 17, 49.	1.8	48
30	Reductively Degradable Poly(2-hydroxyethyl methacrylate) Hydrogels with Oriented Porosity for Tissue Engineering Applications. ACS Applied Materials & Interfaces, 2017, 9, 10544-10553.	4.0	47
31	Chromium-doped DLC for implants prepared by laser-magnetron deposition. Materials Science and Engineering C, 2015, 46, 381-386.	3.8	46
32	The Effect of Human Mesenchymal Stem Cells Derived from Whartonâ€™s Jelly in Spinal Cord Injury Treatment Is Dose-Dependent and Can Be Facilitated by Repeated Application. International Journal of Molecular Sciences, 2018, 19, 1503.	1.8	46
33	Life on Magnets: Stem Cell Networking on Micro-Magnet Arrays. PLoS ONE, 2013, 8, e70416.	1.1	46
34	Cyclosporine A-loaded and stem cell-seeded electrospun nanofibers for cell-based therapy and local immunosuppression. Journal of Controlled Release, 2011, 156, 406-412.	4.8	44
35	A green tea polyphenol epigallocatechin-3-gallate enhances neuroregeneration after spinal cord injury by altering levels of inflammatory cytokines. Neuropharmacology, 2017, 126, 213-223.	2.0	41
36	Remote Actuation of Apoptosis in Liver Cancer Cells via Magneto-Mechanical Modulation of Iron Oxide Nanoparticles. Cancers, 2019, 11, 1873.	1.7	40

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37	Nanoparticle core stability and surface functionalization drive the mTOR signaling pathway in hepatocellular cell lines. Scientific Reports, 2017, 7, 16049.	1.6	38
38	Highly superporous cholesterolâ€modified poly(2â€hydroxyethyl methacrylate) scaffolds for spinal cord injury repair. Journal of Biomedical Materials Research - Part A, 2011, 99A, 618-629.	2.1	36
39	Chemically different non-thermal plasmas target distinct cell death pathways. Scientific Reports, 2017, 7, 600.	1.6	36
40	Targeting the mTOR Signaling Pathway Utilizing Nanoparticles: A Critical Overview. Cancers, 2019, 11, 82.	1.7	34
41	Nano-formulated curcumin (Lipodisqâ„¢) modulates the local inflammatory response, reduces glial scar and preserves the white matter after spinal cord injury in rats. Neuropharmacology, 2019, 155, 54-64.	2.0	33
42	Non-Thermal Plasma, as a New Physicochemical Source, to Induce Redox Imbalance and Subsequent Cell Death in Liver Cancer Cell Lines. Cellular Physiology and Biochemistry, 2019, 52, 119-140.	1.1	33
43	A Combination of Intrathecal and Intramuscular Application of Human Mesenchymal Stem Cells Partly Reduces the Activation of Necroptosis in the Spinal Cord of SOD1G93A Rats. Stem Cells Translational Medicine, 2019, 8, 535-547.	1.6	32
44	Mesenchymal Stem Cells in Treatment of Spinal Cord Injury and Amyotrophic Lateral Sclerosis. Frontiers in Cell and Developmental Biology, 2021, 9, 695900.	1.8	32
45	High extracellular K+ evokes changes in voltage-dependent K+ and Na+ currents and volume regulation in astrocytes. Pflugers Archiv European Journal of Physiology, 2007, 453, 839-849.	1.3	30
46	The Effect of Wharton Jelly-Derived Mesenchymal Stromal Cells and Their Conditioned Media in the Treatment of a Rat Spinal Cord Injury. International Journal of Molecular Sciences, 2019, 20, 4516.	1.8	30
47	Current developments in cell- and biomaterial-based approaches for stroke repair. Expert Opinion on Biological Therapy, 2016, 16, 43-56.	1.4	29
48	Light-induced modulation of the mitochondrial respiratory chain activity: possibilities and limitations. Cellular and Molecular Life Sciences, 2020, 77, 2815-2838.	2.4	29
49	Modified Methacrylate Hydrogels Improve Tissue Repair after Spinal Cord Injury. International Journal of Molecular Sciences, 2018, 19, 2481.	1.8	28
50	Anti-inflammatory compound curcumin and mesenchymal stem cells in the treatment of spinal cord injury in rats. Acta Neurobiologiae Experimentalis, 2018, 78, 358-374.	0.4	28
51	Does combined therapy of curcumin and epigallocatechin gallate have a synergistic neuroprotective effect against spinal cord injury?. Neural Regeneration Research, 2018, 13, 119.	1.6	26
52	RGDS- and SIKVAVS-Modified Superporous Poly(2-hydroxyethyl methacrylate) Scaffolds for Tissue Engineering Applications. Macromolecular Bioscience, 2016, 16, 1621-1631.	2.1	25
53	Iron Oxide Nanoparticle-Induced Autophagic Flux Is Regulated by Interplay between p53-mTOR Axis and Bcl-2 Signaling in Hepatic Cells. Cells, 2020, 9, 1015.	1.8	25
54	Clinically Relevant Solution for the Hypothermic Storage and Transportation of Human Multipotent Mesenchymal Stromal Cells. Stem Cells International, 2019, 2019, 1-11.	1.2	24

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55	Effect of osmotic stress on potassium accumulation around glial cells and extracellular space volume in rat spinal cord slices. Journal of Neuroscience Research, 2001, 65, 129-138.	1.3	23
56	Dynamics of tissue ingrowth in SIKVAV-modified highly superporous PHEMA scaffolds with oriented pores after bridging a spinal cord transection. Journal of Materials Science: Materials in Medicine, 2018, 29, 89.	1.7	23
57	Manipulating the mitochondria activity in human hepatic cell line Huh7 by low-power laser irradiation. Biomedical Optics Express, 2018, 9, 1283.	1.5	21
58	Modulation of collective cell behaviour by geometrical constraints. Integrative Biology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.6	17
59	Critical Analysis of Non-Thermal Plasma-Driven Modulation of Immune Cells from Clinical Perspective. International Journal of Molecular Sciences, 2020, 21, 6226.	1.8	17
60	A Critical Review on Selected External Physical Cues and Modulation of Cell Behavior: Magnetic Nanoparticles, Non-thermal Plasma and Lasers. Journal of Functional Biomaterials, 2019, 10, 2.	1.8	16
61	Extracellular matrix based biomaterials for central nervous system tissue repair: the benefits and drawbacks. Neural Regeneration Research, 2017, 12, 1430.	1.6	16
62	Transplantation of embryonic neuroectodermal progenitor cells into the site of a photochemical lesion: Immunohistochemical and electrophysiological analysis. Journal of Neurobiology, 2006, 66, 1084-1100.	3.7	15
63	Biomaterials and Magnetic Stem Cell Delivery in the Treatment of Spinal Cord Injury. Neurochemical Research, 2020, 45, 171-179.	1.6	15
64	The Healing of Oxidative Injuries with Trehalose in UVB-Irradiated Rabbit Corneas. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-10.	1.9	14
65	The use of new surfaceâ€modified poly(2â€hydroxyethyl methacrylate) hydrogels in tissue engineering: Treatment of the surface with fibronectin subunits versus Acâ€CGGASIKVAVSâ€OH, cysteine, and 2â€mercaptoethanol modification. Journal of Biomedical Materials Research - Part A, 2014, 102, 2315-2323.	2.1	13
66	Towards the understanding of non-thermal air plasma action: effects on bacteria and fibroblasts. RSC Advances, 2016, 6, 25286-25292.	1.7	13
67	The preventive and therapeutic effects of molecular hydrogen in ocular diseases and injuries where oxidative stress is involved. Free Radical Research, 2019, 53, 237-247.	1.5	12
68	New trends in spinal cord tissue engineering. Future Neurology, 2015, 10, 129-145.	0.9	11
69	Anti-inflammatory compound curcumin and mesenchymal stem cells in the treatment of spinal cord injury in rats. Acta Neurobiologiae Experimentalis, 2018, 78, 358-374.	0.4	10
70	Thiolated poly(2-hydroxyethyl methacrylate) hydrogels as a degradable biocompatible scaffold for tissue engineering. Materials Science and Engineering C, 2021, 131, 112500.	3.8	8
71	Targeted neural differentiation of murine mesenchymal stem cells by a protocol simulating the inflammatory site of neural injury. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1588-1597.	1.3	7
72	The negative effect of magnetic nanoparticles with ascorbic acid on peritoneal macrophages. Neurochemical Research, 2020, 45, 159-170.	1.6	6

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73	Trehalose in ophthalmology. Histology and Histopathology, 2019, 34, 611-618.	0.5	6
74	Hepatic Tumor Cell Morphology Plasticity under Physical Constraints in 3D Cultures Driven by YAPâ€“mTOR Axis. Pharmaceuticals, 2020, 13, 430.	1.7	5
75	The Current State of Advanced Therapy Medicinal Products in the Czech Republic. Human Gene Therapy Clinical Development, 2018, 29, 132-147.	3.2	2
76	Soft and rigid scaffolds for spinal cord injury regeneration. , 2020, , 105-127.		2
77	Analysis of Chondroitin/Dermatan Sulphate Disaccharides Using High-Performance Liquid Chromatography. Separations, 2020, 7, 49.	1.1	1
78	Tissue engineering and regenerative medicine in spinal cord injury repair. , 2020, , 291-332.		1
79	Laser irradiation induces mitochondrial dysfunction in hepatic cells. , 2019, , .		1
80	Hybrid Laser Technology for Creation of Doped Biomedical Layers. Journal of Materials Science and Chemical Engineering, 2016, 04, 98-104.	0.2	0