

Agnieszka Āmieszek

List of Publications by Year in descending order

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54
papers

1,457
citations

279701

23
h-index

345118

36
g-index

58
all docs

58
docs citations

58
times ranked

1880
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of Age on Osteogenic and Adipogenic Differentiation Potential of Human Adipose Derived Stromal Stem Cells (hASCs) and the Impact of Stress Factors in the Course of the Differentiation Process. <i>Oxidative Medicine and Cellular Longevity</i> , 2015, 2015, 1-20.	1.9	119
2	Static magnetic field enhances synthesis and secretion of membrane-derived microvesicles (MVs) rich in VEGF and BMP-2 in equine adipose-derived stromal cells (EqASCs)â€”a new approach in veterinary regenerative medicine. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2015, 51, 230-240.	0.7	76
3	Physical Activity Increases the Total Number of Bone-Marrow-Derived Mesenchymal Stem Cells, Enhances Their Osteogenic Potential, and Inhibits Their Adipogenic Properties. <i>Stem Cells International</i> , 2015, 2015, 1-11.	1.2	66
4	5â€”Azacytidine and resveratrol reverse senescence and ageing of adipose stem cells via modulation of mitochondrial dynamics and autophagy. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 237-259.	1.6	63
5	<i>Spirulina platensis</i> Improves Mitochondrial Function Impaired by Elevated Oxidative Stress in Adipose-Derived Mesenchymal Stromal Cells (ASCs) and Intestinal Epithelial Cells (IECs), and Enhances Insulin Sensitivity in Equine Metabolic Syndrome (EMS) Horses. <i>Marine Drugs</i> , 2017, 15, 237.	2.2	62
6	The production and distribution of IL-6 and TNF-Î± in subcutaneous adipose tissue and their correlation with serum concentrations in Welsh ponies with equine metabolic syndrome. <i>Journal of Veterinary Science</i> , 2015, 16, 113.	0.5	58
7	Antioxidant and Anti-Senescence Effect of Metformin on Mouse Olfactory Ensheathing Cells (mOECs) May Be Associated with Increased Brain-Derived Neurotrophic Factor Levelsâ€”An Ex Vivo Study. <i>International Journal of Molecular Sciences</i> , 2017, 18, 872.	1.8	56
8	Macroautophagy and Selective Mitophagy Ameliorate Chondrogenic Differentiation Potential in Adipose Stem Cells of Equine Metabolic Syndrome: New Findings in the Field of Progenitor Cells Differentiation. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-18.	1.9	51
9	Endurance Exercise Mobilizes Developmentally Early Stem Cells into Peripheral Blood and Increases Their Number in Bone Marrow: Implications for Tissue Regeneration. <i>Stem Cells International</i> , 2016, 2016, 1-10.	1.2	51
10	The influence of static magnetic fields on canine and equine mesenchymal stem cells derived from adipose tissue. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2014, 50, 562-571.	0.7	47
11	Biological effects of solâ€”gel derived ZrO ₂ and SiO ₂ /ZrO ₂ coatings on stainless steel surfaceâ€”In Vitro model using mesenchymal stem cells. <i>Journal of Biomaterials Applications</i> , 2014, 29, 699-714.	1.2	44
12	The Role of miR-21 in Osteoblastsâ€”Osteoclasts Coupling In Vitro. <i>Cells</i> , 2020, 9, 479.	1.8	41
13	Application of bone marrow and adipose-derived mesenchymal stem cells for testing the biocompatibility of metal-based biomaterials functionalized with ascorbic acid. <i>Biomedical Materials (Bristol)</i> , 2013, 8, 065004.	1.7	39
14	Evaluation of Oxidative Stress and Mitophagy during Adipogenic Differentiation of Adipose-Derived Stem Cells Isolated from Equine Metabolic Syndrome (EMS) Horses. <i>Stem Cells International</i> , 2018, 2018, 1-18.	1.2	39
15	Li + activated nanohydroxyapatite doped with Eu 3+ ions enhances proliferative activity and viability of human stem progenitor cells of adipose tissue and olfactory ensheathing cells. Further perspective of nHAP:Li + , Eu 3+ application in theranostics. <i>Materials Science and Engineering C</i> , 2017, 78, 151-162.	3.8	38
16	Metformin Promotes Osteogenic Differentiation of Adipose-Derived Stromal Cells and Exerts Pro-Osteogenic Effect Stimulating Bone Regeneration. <i>Journal of Clinical Medicine</i> , 2018, 7, 482.	1.0	38
17	The effect of low static magnetic field on osteogenic and adipogenic differentiation potential of human adipose stromal/stem cells. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 398, 235-245.	1.0	37
18	Effect of Metformin on Viability, Morphology, and Ultrastructure of Mouse Bone Marrow-Derived Multipotent Mesenchymal Stromal Cells and Balb/3T3 Embryonic Fibroblast Cell Line. <i>BioMed Research International</i> , 2015, 2015, 1-14.	0.9	36

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19	Three dimensional (3D) printed polylactic acid with nano-hydroxyapatite doped with europium(III) ions (nHAp/PLLA@Eu ³⁺) composite for osteochondral defect regeneration and theranostics. <i>Materials Science and Engineering C</i> , 2020, 110, 110634.	3.8	36
20	The morphology, proliferation rate, and population doubling time factor of adipose-derived mesenchymal stem cells cultured on to non-aqueous SiO ₂ , TiO ₂ , and hybrid sol-gel-derived oxide coatings. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 4017-4026.	2.1	25
21	The Influence of <i>Spirulina platensis</i> Filtrates on Caco-2 Proliferative Activity and Expression of Apoptosis-Related microRNAs and mRNA. <i>Marine Drugs</i> , 2017, 15, 65.	2.2	24
22	Metformin Increases Proliferative Activity and Viability of Multipotent Stromal Stem Cells Isolated from Adipose Tissue Derived from Horses with Equine Metabolic Syndrome. <i>Cells</i> , 2019, 8, 80.	1.8	24
23	New approach to modification of poly (l-lactic acid) with nano-hydroxyapatite improving functionality of human adipose-derived stromal cells (hASCs) through increased viability and enhanced mitochondrial activity. <i>Materials Science and Engineering C</i> , 2019, 98, 213-226.	3.8	24
24	The effect of the bioactive sphingolipids S1P and C1P on multipotent stromal cells – new opportunities in regenerative medicine. <i>Cellular and Molecular Biology Letters</i> , 2015, 20, 510-33.	2.7	23
25	Small and Long Non-coding RNAs as Functional Regulators of Bone Homeostasis, Acting Alone or Cooperatively. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 21, 792-803.	2.3	23
26	Zirconium Oxide Thin Films Obtained by Atomic Layer Deposition Technology Abolish the Anti-Osteogenic Effect Resulting from miR-21 Inhibition in the Pre-Osteoblastic MC3T3 Cell Line. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 1595-1610.	3.3	23
27	Immunomodulatory Properties of Adipose-Derived Stem Cells Treated with 5-Azacytydine and Resveratrol on Peripheral Blood Mononuclear Cells and Macrophages in Metabolic Syndrome Animals. <i>Journal of Clinical Medicine</i> , 2018, 7, 383.	1.0	22
28	Biphasic Polyurethane/Poly lactide Sponges Doped with Nano-Hydroxyapatite (nHAp) Combined with Human Adipose-Derived Mesenchymal Stromal Stem Cells for Regenerative Medicine Applications. <i>Polymers</i> , 2016, 8, 339.	2.0	20
29	Enhanced cytocompatibility and osteoinductive properties of sol-gel-derived silica/zirconium dioxide coatings by metformin functionalization. <i>Journal of Biomaterials Applications</i> , 2017, 32, 570-586.	1.2	18
30	Nanohydroxyapatite (nHAp) Doped with Iron Oxide Nanoparticles (IO), miR-21 and miR-124 Under Magnetic Field Conditions Modulates Osteoblast Viability, Reduces Inflammation and Inhibits the Growth of Osteoclast – A Novel Concept for Osteoporosis Treatment: Part 1. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 3429-3456.	3.3	18
31	In Vitro and In Vivo Effects of Metformin on Osteopontin Expression in Mice Adipose-Derived Multipotent Stromal Cells and Adipose Tissue. <i>Journal of Diabetes Research</i> , 2015, 2015, 1-16.	1.0	17
32	Nanocrystalline Hydroxyapatite Loaded with Resveratrol in Colloidal Suspension Improves Viability, Metabolic Activity and Mitochondrial Potential in Human Adipose-Derived Mesenchymal Stromal Stem Cells (hASCs). <i>Polymers</i> , 2019, 11, 92.	2.0	17
33	Fabrication, Characterization, and Cytotoxicity of Thermoplastic Polyurethane/Poly(lactic acid) Material Using Human Adipose Derived Mesenchymal Stromal Stem Cells (hASCs). <i>Polymers</i> , 2018, 10, 1073.	2.0	16
34	Titanium Dioxide Thin Films Obtained by Atomic Layer Deposition Promotes Osteoblasts' Viability and Differentiation Potential While Inhibiting Osteoclast Activity – Potential Application for Osteoporotic Bone Regeneration. <i>Materials</i> , 2020, 13, 4817.	1.3	16
35	Potential Biomedical Application of Enzymatically Treated Alginate/Chitosan Hydrosols in Sponges – Biocompatible Scaffolds Inducing Chondrogenic Differentiation of Human Adipose Derived Multipotent Stromal Cells. <i>Polymers</i> , 2016, 8, 320.	2.0	15
36	The Potential Selective Cytotoxicity of Poly (L- Lactic Acid)-Based Scaffolds Functionalized with Nanohydroxyapatite and Europium (III) Ions toward Osteosarcoma Cells. <i>Materials</i> , 2019, 12, 3779.	1.3	15

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37	Theranostic Applications of Nanostructured Silicate-Substituted Hydroxyapatite Codoped with Eu ³⁺ and Bi ³⁺ Ions – A Novel Strategy for Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6148-6160.	2.6	15
38	Bone marrow stromal cells (BMSCs) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Td (CD45 ⁺ /CD44 ⁺ /CD73 ⁺) osteoporotic mice SAM/P6 as a novel model for osteoporosis investigation. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 6634-6651.	1.6	14
39	The Osteogenic Properties of Multipotent Mesenchymal Stromal Cells in Cultures on TiO ₂ Sol-Gel-Derived Biomaterial. <i>BioMed Research International</i> , 2015, 2015, 1-11.	0.9	12
40	Chemical Characterization of Enteromorpha prolifera Extract Obtained by Enzyme-Assisted Extraction and Its Influence on the Metabolic Activity of Caco-2. <i>International Journal of Molecular Sciences</i> , 2017, 18, 479.	1.8	10
41	Ultrastructural changes during osteogenic differentiation in mesenchymal stromal cells cultured in alginate hydrogel. <i>Cell and Bioscience</i> , 2017, 7, 2.	2.1	9
42	Expression of Apoptosis-Related Biomarkers in Inflamed Nasal Sinus Epithelium of Patients with Chronic Rhinosinusitis with Nasal Polyps (CRSwNP) – Evaluation at mRNA and miRNA Levels. <i>Biomedicines</i> , 2022, 10, 1400.	1.4	9
43	Effects of steroids on the morphology and proliferation of canine and equine mesenchymal stem cells of adipose origin – in vitro research. <i>Acta Veterinaria Hungarica</i> , 2014, 62, 317-333.	0.2	8
44	Novel Nanohydroxyapatite (nHAp)-Based Scaffold Doped with Iron Oxide Nanoparticles (IO), Functionalized with Small Non-Coding RNA (miR-21/124) Modulates Expression of Runt-Related Transcriptional Factor 2 and Osteopontin, Promoting Regeneration of Osteoporotic Bone in Bilateral Cranial Defects in a Senescence-Accelerated Mouse Model (SAM/P6). PART 2. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 6049-6065.	3.3	6
45	The Advantages of Autologous Adipose Derived Mesenchymal Stem Cells (AdMSCs) over the NSAIDs Application for Degenerative Elbow Joint Disease Treatment in Dogs - Twelve Cases. <i>Kafkas Universitesi Veteriner Fakultesi Dergisi</i> , 2014, , .	0.0	6
46	Obesity Affects the Proliferative Potential of Equine Endometrial Progenitor Cells and Modulates Their Molecular Phenotype Associated with Mitochondrial Metabolism. <i>Cells</i> , 2022, 11, 1437.	1.8	6
47	Sphingosine-1-Phosphate Enhance Osteogenic Activity of Multipotent Stromal Cells Cultured in Biodegradable 3D Alginate Hydrogels. <i>Journal of Biomaterials and Tissue Engineering</i> , 2016, 6, 85-97.	0.0	5
48	An In Vitro Analysis of Pattern Cell Migration of Equine Adipose Derived Mesenchymal Stem Cells (EqASCs) Using Iron Oxide Nanoparticles (IO) in Static Magnetic Field. <i>Cellular and Molecular Bioengineering</i> , 2015, 8, 566-576.	1.0	3
49	Characterization of Apoptosis, Autophagy and Oxidative Stress in Pancreatic Islets Cells and Intestinal Epithelial Cells Isolated from Equine Metabolic Syndrome (EMS) Horses. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3068.	1.8	3
50	The Haematococcus pluvialis extract enriched by bioaccumulation process with Mg(II) ions improves insulin resistance in equine adipose-derived stromal cells (EqASCs). <i>Biomedicine and Pharmacotherapy</i> , 2019, 116, 108972.	2.5	3
51	Chondrogenic potential of canine articular cartilage derived cells (cACCs). <i>Open Life Sciences</i> , 2016, 11, 151-165.	0.6	2
52	Intra-Vitreal Administration of Microvesicles Derived from Human Adipose-Derived Multipotent Stromal Cells Improves Retinal Functionality in Dogs with Retinal Degeneration. <i>Journal of Clinical Medicine</i> , 2019, 8, 510.	1.0	2
53	Atlarda Metabolik Sendrom (EMS) SancÄ±sÄ±nda, Adipoz Dokuda ve Periferal Kanda IL-6 ve TNF-Î± nÄ±n Aktivitesi. <i>Kafkas Universitesi Veteriner Fakultesi Dergisi</i> , 2014, , .	0.0	1
54	The Elemental Composition of Cod and Salmon Bones Derived Powder Using SEM-EDX and ICP-OES. <i>Springer Proceedings in Physics</i> , 2014, , 209-214.	0.1	0