

Cornelia Kasper

List of Publications by Year in descending order

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117
papers

5,717
citations

101496

36
h-index

85498

71
g-index

126
all docs

126
docs citations

126
times ranked

8982
citing authors

#	ARTICLE	IF	CITATIONS
1	Different populations and sources of human mesenchymal stem cells (MSC): A comparison of adult and neonatal tissue-derived MSC. <i>Cell Communication and Signaling</i> , 2011, 9, 12.	2.7	1,340
2	Isolation, cultivation, and characterization of human mesenchymal stem cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 19-31.	1.1	374
3	Effects of hypoxic culture conditions on umbilical cord-derived human mesenchymal stem cells. <i>Cell Communication and Signaling</i> , 2010, 8, 18.	2.7	192
4	Suspension Culture of Human Pluripotent Stem Cells in Controlled, Stirred Bioreactors. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 772-784.	1.1	172
5	Flow cytometry in biotechnology. <i>Applied Microbiology and Biotechnology</i> , 2001, 56, 350-360.	1.7	162
6	Growth and Differentiation Properties of Mesenchymal Stromal Cell Populations Derived from Whole Human Umbilical Cord. <i>Stem Cell Reviews and Reports</i> , 2011, 7, 17-31.	5.6	145
7	Hypoxia Conditioned Mesenchymal Stem Cell-Derived Extracellular Vesicles Induce Increased Vascular Tube Formation in vitro. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 292.	2.0	129
8	Identification of subpopulations in mesenchymal stem cell-like cultures from human umbilical cord. <i>Cell Communication and Signaling</i> , 2009, 7, 6.	2.7	116
9	Lab-on-a-chip technologies for stem cell analysis. <i>Trends in Biotechnology</i> , 2014, 32, 245-253.	4.9	110
10	Mesenchymal stem cells and progenitor cells in connective tissue engineering and regenerative medicine: is there a future for transplantation?. <i>Langenbeck's Archives of Surgery</i> , 2011, 396, 489-497.	0.8	109
11	Freeze-Thaw Cycles Enhance Decellularization of Large Tendons. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 276-284.	1.1	106
12	Growth and differentiation characteristics of equine mesenchymal stromal cells derived from different sources. <i>Veterinary Journal</i> , 2013, 195, 98-106.	0.6	98
13	Mesenchymal Stem or Stromal Cells from Amnion and Umbilical Cord Tissue and Their Potential for Clinical Applications. <i>Cells</i> , 2012, 1, 1061-1088.	1.8	93
14	Artificial Skin – Culturing of Different Skin Cell Lines for Generating an Artificial Skin Substitute on Cross-Weaved Spider Silk Fibres. <i>PLoS ONE</i> , 2011, 6, e21833.	1.1	93
15	Fast isolation of protein receptors from streptococci G by means of macroporous affinity discs. <i>Journal of Chromatography A</i> , 1998, 798, 65-72.	1.8	76
16	Three dimensional spheroid cell culture for nanoparticle safety testing. <i>Journal of Biotechnology</i> , 2015, 205, 120-129.	1.9	74
17	Isolation, Characterization, Differentiation, and Application of Adipose-Derived Stem Cells. , 2010, 123, 55-105.		61
18	Optimization of Culture Conditions for the Expansion of Umbilical Cord-Derived Mesenchymal Stem or Stromal Cell-Like Cells Using Xeno-Free Culture Conditions. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 485-493.	1.1	61

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19	Antitumoral Gold and Silver Complexes with Ferrocenyl-Amide Phosphines. <i>Organometallics</i> , 2013, 32, 6069-6078.	1.1	59
20	Dynamic Cultivation of Mesenchymal Stem Cell Aggregates. <i>Bioengineering</i> , 2018, 5, 48.	1.6	59
21	Interactions between Spider Silk and Cells – NIH/3T3 Fibroblasts Seeded on Miniature Weaving Frames. <i>PLoS ONE</i> , 2010, 5, e12032.	1.1	56
22	An improvement of potato pulp protein hydrolyzation process by the combination of protease enzyme systems. <i>Enzyme and Microbial Technology</i> , 2007, 40, 508-514.	1.6	55
23	Preparation and Reinforcement of Dual-Porous Biocompatible Cellulose Scaffolds for Tissue Engineering. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 911-924.	1.7	52
24	Induction of Tenogenic Differentiation Mediated by Extracellular Tendon Matrix and Short-Term Cyclic Stretching. <i>Stem Cells International</i> , 2016, 2016, 1-11.	1.2	52
25	BMP2-loaded nanoporous silica nanoparticles promote osteogenic differentiation of human mesenchymal stem cells. <i>RSC Advances</i> , 2013, 3, 24222.	1.7	50
26	Bundles of Spider Silk, Braided into Sutures, Resist Basic Cyclic Tests: Potential Use for Flexor Tendon Repair. <i>PLoS ONE</i> , 2013, 8, e61100.	1.1	50
27	Application of collagen matrices for cartilage tissue engineering. <i>Experimental and Toxicologic Pathology</i> , 2006, 57, 305-311.	2.1	48
28	The Total Synthesis of (±)-Callystatin A. <i>Chemistry - A European Journal</i> , 2003, 9, 1129-1136.	1.7	46
29	3D Printing of Cell Culture Devices: Assessment and Prevention of the Cytotoxicity of Photopolymers for Stereolithography. <i>Materials</i> , 2020, 13, 3011.	1.3	46
30	Water-soluble aldehyde-bearing polymers of 2-deoxy-2-methacrylamido-D-glucose for bone tissue engineering. <i>Journal of Applied Polymer Science</i> , 2008, 108, 2386-2397.	1.3	45
31	First investigation of spider silk as a braided microsurgical suture. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 97B, 381-387.	1.6	45
32	Potential and limitations of microscopy and Raman spectroscopy for live-cell analysis of 3D cell cultures. <i>Journal of Biotechnology</i> , 2015, 205, 70-81.	1.9	44
33	The Chemistry and Biology of Ratjadone. <i>ChemBioChem</i> , 2001, 2, 709-714.	1.3	43
34	Dynamic cultivation of human mesenchymal stem cells in a rotating bed bioreactor system based on the Z [®] RP platform. <i>Biotechnology Progress</i> , 2009, 25, 1762-1771.	1.3	42
35	Mesenchymal Stromal Cells Derived from Human Umbilical Cord Tissues: Primitive Cells with Potential for Clinical and Tissue Engineering Applications. , 2009, 123, 29-54.		42
36	Human Umbilical Cord-Derived Mesenchymal Stem Cells Utilize Activin-A to Suppress Interferon- γ Production by Natural Killer Cells. <i>Frontiers in Immunology</i> , 2014, 5, 662.	2.2	42

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37	Large-scale production and homogenous purification of long chain polysialic acids from E. coli K1. Journal of Biotechnology, 2008, 135, 202-209.	1.9	40
38	Adsorption and separation of proteins by a smectitic clay mineral. Bioprocess and Biosystems Engineering, 2010, 33, 847-861.	1.7	40
39	Role of gamma-secretase in human umbilical-cord derived mesenchymal stem cell mediated suppression of NK cell cytotoxicity. Cell Communication and Signaling, 2014, 12, 63.	2.7	40
40	Innovative Modular Membrane Adsorber System for High-Throughput Downstream Screening for Protein Purification. Biotechnology Progress, 2006, 22, 1215-1219.	1.3	38
41	Interaction of Size-Tailored PEGylated Iron Oxide Nanoparticles with Lipid Membranes and Cells. ACS Biomaterials Science and Engineering, 2017, 3, 249-259.	2.6	38
42	Development and Characterization of a Parallelizable Perfusion Bioreactor for 3D Cell Culture. Bioengineering, 2017, 4, 51.	1.6	38
43	High performance flow injection analysis of recombinant Protein G. Journal of Biotechnology, 1999, 69, 1-7.	1.9	34
44	Mechanical and flow characterization of Sponceram [®] carriers: Evaluation by homogenization theory and experimental validation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 42-48.	1.6	32
45	Osteogenic differentiation of umbilical cord and adipose derived stem cells onto highly porous 45S5 Bioglass [®] -based scaffolds. Journal of Biomedical Materials Research - Part A, 2015, 103, 1029-1037.	2.1	32
46	Group 11 complexes with amino acid derivatives: Synthesis and antitumoral studies. Journal of Inorganic Biochemistry, 2016, 156, 133-144.	1.5	32
47	Towards Physiologic Culture Approaches to Improve Standard Cultivation of Mesenchymal Stem Cells. Cells, 2021, 10, 886.	1.8	32
48	Adsorption and separation of proteins by a synthetic hydrotalcite. Colloids and Surfaces B: Biointerfaces, 2011, 87, 217-225.	2.5	31
49	Cultivation of MC3T3-E1 cells on a newly developed material (Sponceram [®]) using a rotating bed system bioreactor. Journal of Biomedical Materials Research - Part A, 2007, 80A, 268-275.	2.1	29
50	Nanoporous silica nanoparticles as biomaterials: evaluation of different strategies for the functionalization with polysialic acid by step-by-step cytocompatibility testing. Journal of Materials Science: Materials in Medicine, 2015, 26, 125.	1.7	29
51	Synthesis and Biological Evaluation of a Polysialic Acid-Based Hydrogel as Enzymatically Degradable Scaffold Material for Tissue Engineering. Biomacromolecules, 2008, 9, 2353-2359.	2.6	28
52	Preparation of bioactive soluble human leukemia inhibitory factor from recombinant Escherichia coli using thioredoxin as fusion partner. Protein Expression and Purification, 2010, 73, 51-57.	0.6	28
53	Immunosuppressive capabilities of mesenchymal stromal cells are maintained under hypoxic growth conditions and after gamma irradiation. Cytotherapy, 2015, 17, 152-162.	0.3	28
54	Hypoxic Three-Dimensional Scaffold-Free Aggregate Cultivation of Mesenchymal Stem Cells in a Stirred Tank Reactor. Bioengineering, 2017, 4, 47.	1.6	28

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55	Fast and efficient protein purification using membrane adsorber systems. <i>Journal of Biotechnology</i> , 2006, 121, 361-367.	1.9	27
56	Application of a Parallelizable Perfusion Bioreactor for Physiologic 3D Cell Culture. <i>Cells Tissues Organs</i> , 2017, 203, 316-326.	1.3	27
57	Impact of Source and Manufacturing of Collagen Matrices on Fibroblast Cell Growth and Platelet Aggregation. <i>Materials</i> , 2017, 10, 1086.	1.3	27
58	Potential for Osteogenic and Chondrogenic Differentiation of MSC. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2012, 129, 73-88.	0.6	25
59	Cytokine production using membrane adsorbers: Human basic fibroblast growth factor produced by <i>Escherichia coli</i> . <i>Engineering in Life Sciences</i> , 2012, 12, 29-38.	2.0	25
60	Characterization and Application of a Disposable Rotating Bed Bioreactor for Mesenchymal Stem Cell Expansion. <i>Bioengineering</i> , 2014, 1, 231-245.	1.6	25
61	Application of different strain regimes in two-dimensional and three-dimensional adipose tissue-derived stem cell cultures induces osteogenesis: Implications for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 927-936.	2.1	24
62	Heterogeneity of mesenchymal stem cell-derived extracellular vesicles is highly impacted by the tissue/cell source and culture conditions. <i>Cell and Bioscience</i> , 2022, 12, 51.	2.1	24
63	Flow cytometry: Interesting tool for studying binding behavior of DNA on inorganic layered double hydroxide (LDH). <i>Cytometry</i> , 2004, 62A, 65-69.	1.8	23
64	Uncertainty budgeting in fold change determination and implications for non-targeted metabolomics studies in model systems. <i>Analyst</i> , 2017, 142, 80-90.	1.7	23
65	The Power of LC-MS Based Multiomics: Exploring Adipogenic Differentiation of Human Mesenchymal Stem/Stromal Cells. <i>Molecules</i> , 2019, 24, 3615.	1.7	23
66	Application of conjoint liquid chromatography with monolithic disks for the simultaneous determination of immunoglobulin G and other proteins present in a cell culture medium. <i>Journal of Chromatography A</i> , 2009, 1216, 2671-2675.	1.8	22
67	Comparison of polysialic acid production in <i>Escherichia coli</i> K1 during batch cultivation and fed-batch cultivation applying two different control strategies. <i>Journal of Biotechnology</i> , 2011, 154, 222-229.	1.9	22
68	Collagen biomaterial doped with colominic acid for cell culture applications with regard to peripheral nerve repair. <i>Journal of Biotechnology</i> , 2007, 131, 335-345.	1.9	21
69	Wharton's jelly mesenchymal stem cells promote wound healing and tissue regeneration. <i>Stem Cell Research and Therapy</i> , 2014, 5, 62.	2.4	21
70	Analysis of oxygen-dependent cytokine expression in human mesenchymal stem cells derived from umbilical cord. <i>Cell and Tissue Research</i> , 2013, 353, 117-122.	1.5	20
71	Development of multifunctional polymer-mineral composite materials for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 333-341.	2.1	19
72	Design and Characterization of a Rotating Bed System Bioreactor for Tissue Engineering Applications. <i>Biotechnology Progress</i> , 2008, 24, 140-147.	1.3	18

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73	Isolation and purification of blood group antigens using immuno-affinity chromatography on short monolithic columns. <i>Journal of Chromatography A</i> , 2011, 1218, 706-710.	1.8	18
74	Macroporous methacrylate-based monoliths as platforms for DNA microarrays. <i>Talanta</i> , 2012, 93, 139-146.	2.9	18
75	Stem Cell Differentiation Depending on Different Surfaces. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2011, 126, 263-283.	0.6	17
76	Adipose-derived stem cells cultivated on electrospun l-lactide/glycolide copolymer fleece and gelatin hydrogels under flow conditions – aiming physiological reality in hypodermis tissue engineering. <i>Burns</i> , 2015, 41, 163-171.	1.1	17
77	A study on polysialic acid as a biomaterial for cell culture applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 85A, 1-13.	2.1	16
78	A Differential Pressure Laminar Flow Reactor Supports Osteogenic Differentiation and Extracellular Matrix Formation from Adipose Mesenchymal Stem Cells in a Macroporous Ceramic Scaffold. <i>BioResearch Open Access</i> , 2012, 1, 145-156.	2.6	15
79	Functionalized PLGA-doped zirconium oxide ceramics for bone tissue regeneration. <i>Biomedical Microdevices</i> , 2013, 15, 1055-1066.	1.4	15
80	Cytotoxicity of titanium and silicon dioxide nanoparticles. <i>Journal of Physics: Conference Series</i> , 2009, 170, 012022.	0.3	14
81	Toxicological Issues of Nanoparticles Employed in Photocatalysis. <i>Green</i> , 2011, 1, .	0.4	14
82	Separation of patatins and protease inhibitors from potato fruit juice with clay minerals as cation exchangers. <i>Journal of Separation Science</i> , 2012, 35, 1596-1602.	1.3	14
83	Fast and efficient screening system for new biomaterials in tissue engineering: A model for peripheral nerve regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 81A, 736-747.	2.1	13
84	A study on the influence of biocompatible composites with bioactive ligands toward their effect on cell adhesion and growth for the application in bone tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 153-162.	1.6	13
85	A rotating bed system bioreactor enables cultivation of primary osteoblasts on well-characterized sponceram® regarding structural and flow properties. <i>Biotechnology Progress</i> , 2010, 26, 671-678.	1.3	11
86	From 3D to 3D: isolation of mesenchymal stem/stromal cells into a three-dimensional human platelet lysate matrix. <i>Stem Cell Research and Therapy</i> , 2019, 10, 248.	2.4	11
87	Downstream processing of high chain length polysialic acid using membrane adsorbers and clay minerals for application in tissue engineering. <i>Engineering in Life Sciences</i> , 2013, 13, 140-148.	2.0	10
88	Skin Regeneration, Repair, and Reconstruction. <i>BioMed Research International</i> , 2015, 2015, 1-1.	0.9	9
89	Advanced Dynamic Cell and Tissue Culture. <i>Bioengineering</i> , 2018, 5, 65.	1.6	9
90	Extracellular Matrix Synthesis and Remodeling by Mesenchymal Stromal Cells Is Context-Sensitive. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1758.	1.8	9

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91	Transcriptome Analysis. , 2011, 127, 1-25.		8
92	Alginate Coreâ€Shell Capsules for 3D Cultivation of Adipose-Derived Mesenchymal Stem Cells. Bioengineering, 2022, 9, 66.	1.6	8
93	Synthesis of New Polysialic Acid Derivatives. Macromolecular Bioscience, 2010, 10, 1028-1033.	2.1	7
94	Iterative Cellular Screening System for Nanoparticle Safety Testing. Journal of Nanomaterials, 2015, 2015, 1-16.	1.5	7
95	Generation and characterization of a functional human adiposeâ€derived multipotent mesenchymal stromal cell line. Biotechnology and Bioengineering, 2019, 116, 1417-1426.	1.7	6
96	Physiologic isolation and expansion of human mesenchymal stem/stromal cells for manufacturing of cellâ€based therapy products. Engineering in Life Sciences, 2022, 22, 361-372.	2.0	6
97	Physical methods for synchronization of a human production cell line. BMC Proceedings, 2011, 5, P49.	1.8	5
98	Osteogenic Differentiation of adipose mesenchymal stem cells with BMP-2 embedded microspheres in a rotating bed bioreactor. BMC Proceedings, 2011, 5, P74.	1.8	5
99	Characterization and improvement of cell line performance <i>via</i> flow cytometry and cell sorting. Engineering in Life Sciences, 2010, 10, 130-138.	2.0	3
100	Innovative Platform for the Advanced Online Monitoring of Three-Dimensional Cells and Tissue Cultures. Cells, 2022, 11, 412.	1.8	3
101	Ersatzteillager Mensch? Tissue Engineering. Chemie in Unserer Zeit, 2005, 39, 394-401.	0.1	2
102	Cell Culture Conditions: Cultivation of Stem Cells Under Dynamic Conditions. , 2018, , 1-33.		2
103	Advanced Online Monitoring of In Vitro Human 3D Full-Thickness Skin Equivalentents. Pharmaceutics, 2022, 14, 1436.	2.0	2
104	Strategies in umbilical cord-derived mesenchymal stem cells expansion: influence of oxygen, culture medium and cell separation. BMC Proceedings, 2011, 5, P88.	1.8	1
105	Novel Production Technology to Automate the Generation of Hanging Drops for Mass Production of Organotypic Microtissues. Chemie-Ingenieur-Technik, 2011, 83, 2170-2176.	0.4	1
106	Lab Equipment for 3D Cell Culture. Learning Materials in Biosciences, 2021, , 27-67.	0.2	1
107	Cell Culture Conditions: Cultivation of Stem Cells Under Dynamic Conditions. , 2020, , 415-447.		1
108	Tissue Engineering auf der Biotechnica. Nachrichten Aus Der Chemie, 2001, 49, 1073-1075.	0.0	0

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109	Identification of viruses in Acute Lower Respiratory Infections (ALRI) in Lao People's Democratic Republic. BMC Proceedings, 2011, 5, P74.	1.8	0
110	Comparison of the activity and pluripotency maintaining potential of human leukemia inhibitory factor (LIF) produced in E.coli and CHO cells. BMC Proceedings, 2011, 5, P109.	1.8	0
111	Production and purification of TGFb-1 in CHO-Cells. BMC Proceedings, 2011, 5, P134.	1.8	0
112	Increasing productivity of hybridoma cell lines by sorting by side scattering light. BMC Proceedings, 2011, 5, P83.	1.8	0
113	Expansion of Mesenchymal Stem Cells Derived from Umbilical Cord in Media Containing Human Serum (Method). , 2013, , 13-23.		0
114	Application of Scaffold-Free 3D Models. Learning Materials in Biosciences, 2021, , 147-174.	0.2	0
115	Editorial: Advanced Cell Culture Technologies to Boost Cell-Based Therapies. Frontiers in Bioengineering and Biotechnology, 2021, 9, 727298.	2.0	0
116	In Vitro Testing of a New Substance with Anti-Tumor Activity on Mammalian Cells Using Flow Cytometry. , 2001, , 3-5.		0
117	Biofunctional Polymer-Mineral Composites as Scaffolds for Bone Tissue Engineering. , 2010, , 591-597.		0