

Hans-GÃ¼nther Machens

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

2,189
citations

257450

24
h-index

254184

43
g-index

78
all docs

78
docs citations

78
times ranked

2975
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogels for Engineering of Perfusable Vascular Networks. International Journal of Molecular Sciences, 2015, 16, 15997-16016.	4.1	204
2	Microvesicles from human adipose stem cells promote wound healing by optimizing cellular functions via AKT and ERK signaling pathways. Stem Cell Research and Therapy, 2019, 10, 47.	5.5	186
3	Nano-formulated curcumin accelerates acute wound healing through Dkk-1-mediated fibroblast mobilization and MCP-1-mediated anti-inflammation. NPC Asia Materials, 2017, 9, e368-e368.	7.9	111
4	Advanced cutaneous squamous cell carcinoma: A retrospective analysis of patient profiles and treatment patterns—Results of a non-interventional study of the DeCOG. European Journal of Cancer, 2018, 96, 34-43.	2.8	97
5	Towards autotrophic tissue engineering: Photosynthetic gene therapy for regeneration. Biomaterials, 2016, 75, 25-36.	11.4	92
6	Milk exosomes-mediated miR-31-5p delivery accelerates diabetic wound healing through promoting angiogenesis. Drug Delivery, 2022, 29, 214-228.	5.7	88
7	Exosomes from human adipose-derived stem cells promote sciatic nerve regeneration via optimizing Schwann cell function. Journal of Cellular Physiology, 2019, 234, 23097-23110.	4.1	85
8	Development of photosynthetic biomaterials for in vitro tissue engineering. Acta Biomaterialia, 2014, 10, 2712-2717.	8.3	80
9	Photosynthetic biomaterials: A pathway towards autotrophic tissue engineering. Acta Biomaterialia, 2015, 15, 39-47.	8.3	79
10	Denervation drives skeletal muscle atrophy and induces mitochondrial dysfunction, mitophagy and apoptosis via miR-142a-5p/MFN1 axis. Theranostics, 2020, 10, 1415-1432.	10.0	65
11	Male-to-Female Sex Reassignment Surgery using the Combined Vaginoplasty Technique: Satisfaction of Transgender Patients with Aesthetic, Functional, and Sexual Outcomes. Aesthetic Plastic Surgery, 2018, 42, 178-187.	0.9	60
12	Development of photosynthetic sutures for the local delivery of oxygen and recombinant growth factors in wounds. Acta Biomaterialia, 2018, 81, 184-194.	8.3	57
13	Breast Reconstruction after Mastectomy. Frontiers in Surgery, 2015, 2, 71.	1.4	53
14	<i>In Vitro</i> Evaluation of Scaffolds for the Delivery of Mesenchymal Stem Cells to Wounds. BioMed Research International, 2015, 2015, 1-14.	1.9	52
15	The Fibrin Matrix Regulates Angiogenic Responses within the Hemostatic Microenvironment through Biochemical Control. PLoS ONE, 2015, 10, e0135618.	2.5	43
16	Calcium ion cross-linked sodium alginate hydrogels containing deferoxamine and copper nanoparticles for diabetic wound healing. International Journal of Biological Macromolecules, 2022, 202, 657-670.	7.5	42
17	Ultrasound-Assisted Liposuction Does Not Compromise the Regenerative Potential of Adipose-Derived Stem Cells. Stem Cells Translational Medicine, 2016, 5, 248-257.	3.3	40
18	Tumor-associated collagen signatures: pushing tumor boundaries. Cancer & Metabolism, 2020, 8, 14.	5.0	40

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19	Neutrophils direct preexisting matrix to initiate repair in damaged tissues. <i>Nature Immunology</i> , 2022, 23, 518-531.	14.5	37
20	Acute stimulation of mesenchymal stem cells with cigarette smoke extract affects their migration, differentiation and paracrine potential. <i>Scientific Reports</i> , 2016, 6, 22957.	3.3	36
21	Microarray analyses of lncRNAs and mRNAs expression profiling associated with diabetic peripheral neuropathy in rats. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 15347-15359.	2.6	34
22	Surgical Sutures Filled with Adipose-Derived Stem Cells Promote Wound Healing. <i>PLoS ONE</i> , 2014, 9, e91169.	2.5	33
23	VEGF released by deferoxamine preconditioned mesenchymal stem cells seeded on collagen-GAG substrates enhances neovascularization. <i>Scientific Reports</i> , 2016, 6, 36879.	3.3	33
24	Suction assisted liposuction does not impair the regenerative potential of adipose derived stem cells. <i>Journal of Translational Medicine</i> , 2016, 14, 126.	4.4	32
25	The whole profiling and competing endogenous RNA network analyses of noncoding RNAs in adipose-derived stem cells from diabetic, old, and young patients. <i>Stem Cell Research and Therapy</i> , 2021, 12, 313.	5.5	28
26	NRF2 signalling pathway: New insights and progress in the field of wound healing. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 5857-5868.	3.6	27
27	Breast cancer recurrence after reconstruction: know thine enemy. <i>Oncotarget</i> , 2018, 9, 27895-27906.	1.8	22
28	Social Media Marketing: What Do Prospective Patients Want to See?. <i>Aesthetic Surgery Journal</i> , 2020, 40, 577-583.	1.6	20
29	Towards a biotechnological platform for the production of human pro-angiogenic growth factors in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 725-739.	3.6	20
30	Skin regeneration in deep second-degree scald injuries either by infusion pumping or topical application of recombinant human erythropoietin gel. <i>Drug Design, Development and Therapy</i> , 2015, 9, 2565.	4.3	19
31	The Construction and Analysis of lncRNA-miRNA-mRNA Competing Endogenous RNA Network of Schwann Cells in Diabetic Peripheral Neuropathy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 490.	4.1	19
32	Free Lateral Great Toe Flap for the Reconstruction of Finger Pulp Defects. <i>Journal of Reconstructive Microsurgery</i> , 2015, 31, 277-282.	1.8	17
33	Differentiated human adipose-derived stromal cells exhibit the phenotypic and functional characteristics of mature Schwann cells through a modified approach. <i>Cytotherapy</i> , 2019, 21, 987-1003.	0.7	17
34	The Effect of Blepharoplasty on Our Patient's Quality of Life, Emotional Stability, and Self-Esteem. <i>Journal of Craniofacial Surgery</i> , 2019, 30, 377-383.	0.7	17
35	SESN2 protects against denervated muscle atrophy through unfolded protein response and mitophagy. <i>Cell Death and Disease</i> , 2021, 12, 805.	6.3	15
36	Quality of Life Changes after Rhinoplasty. <i>Facial Plastic Surgery</i> , 2017, 33, 530-536.	0.9	14

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37	Comprehensive analysis of differentially expressed microRNAs and mRNAs in dorsal root ganglia from streptozotocin-induced diabetic rats. <i>PLoS ONE</i> , 2018, 13, e0202696.	2.5	14
38	Transparent PDMS Bioreactors for the Fabrication and Analysis of Multi-Layer Pre-vascularized Hydrogels Under Continuous Perfusion. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 568934.	4.1	13
39	Overexpression of microRNA-21-5p prevents the oxidative stress-induced apoptosis of RSC96 cells by suppressing autophagy. <i>Life Sciences</i> , 2020, 256, 118022.	4.3	13
40	Oncogenic Linear Collagen VI of Invasive Breast Cancer Is Induced by CCL5. <i>Journal of Clinical Medicine</i> , 2020, 9, 991.	2.4	13
41	A Full Skin Defect Model to Evaluate Vascularization of Biomaterials <i>In Vivo</i> . <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	13
42	Quality of life following aesthetic liposuction: A prospective outcome study. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2019, 72, 1363-1372.	1.0	11
43	Effect of Hypoxia Preconditioned Secretomes on Lymphangiogenic and Angiogenic Sprouting: An <i>In Vitro</i> Analysis. <i>Biomedicines</i> , 2020, 8, 365.	3.2	11
44	Comparative Evaluation of the Angiogenic Potential of Hypoxia Preconditioned Blood-Derived Secretomes and Platelet-Rich Plasma: An <i>In Vitro</i> Analysis. <i>Biomedicines</i> , 2020, 8, 16.	3.2	11
45	A Randomized Controlled Trial: Regenerative Effects, Efficacy and Safety of Erythropoietin in Burn and Scalding Injuries. <i>Frontiers in Pharmacology</i> , 2018, 9, 951.	3.5	10
46	<i>In Vitro</i> Characterization of Hypoxia Preconditioned Serum (HPS) Fibrin Hydrogels: Basis for an Injectable Biomimetic Tissue Regeneration Therapy. <i>Journal of Functional Biomaterials</i> , 2019, 10, 22.	4.4	10
47	Therapeutic potential of endogenous stem cells and cellular factors for scar-free skin regeneration. <i>Drug Discovery Today</i> , 2019, 24, 69-84.	6.4	10
48	Ischemic Tissue Injury in the Dorsal Skinfold Chamber of the Mouse: A Skin Flap Model to Investigate Acute Persistent Ischemia. <i>Journal of Visualized Experiments</i> , 2014, , e51900.	0.3	9
49	Dorsal plane-shaped advancement flap for the reconstruction of web space in syndactyly without skin grafting: A preliminary report. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2015, 68, e167-e173.	1.0	9
50	Use of Oral Anticoagulation and Diabetes Do Not Inhibit the Angiogenic Potential of Hypoxia Preconditioned Blood-Derived Secretomes. <i>Biomedicines</i> , 2020, 8, 283.	3.2	9
51	Biodegradable poly (lactic acid-co-glycolic acid) scaffolds as carriers for genetically-modified fibroblasts. <i>PLoS ONE</i> , 2017, 12, e0174860.	2.5	9
52	High Efficiency Low Cost Fibroblast Nucleofection for GMP Compatible Cell-based Gene Therapy. <i>International Journal of Medical Sciences</i> , 2017, 14, 798-803.	2.5	8
53	Quality of Life and Satisfaction in Transgender Men After Phalloplasty in a Retrospective Study. <i>Annals of Plastic Surgery</i> , 2021, 87, 91-97.	0.9	8
54	Quality of Life after Rhinoplasty: A Prospective Study. <i>Facial Plastic Surgery</i> , 2021, 37, 639-645.	0.9	8

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55	Regulation of endothelial progenitor cell functions during hyperglycemia: new therapeutic targets in diabetic wound healing. <i>Journal of Molecular Medicine</i> , 2022, 100, 485-498.	3.9	8
56	Total arthroplasty with Ivory® prosthesis versus resectionâ€‘suspension arthroplasty: a retrospective cohort study on 82 carpometacarpal-I osteoarthritis patients over 4 years. <i>European Journal of Medical Research</i> , 2020, 25, 13.	2.2	7
57	Geographical differences in carpometacarpal joint osteoarthritis treatment of the thumb: A survey of 1138 hand surgeons from the USA and Europe. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2021, 74, 1854-1861.	1.0	7
58	Histological analysis of capsule formation around silicone implants and comparison with titanium-coated silicone implants in rats. <i>European Journal of Plastic Surgery</i> , 2012, 35, 19-24.	0.6	6
59	Activation of Cell Surface Bound 20S Proteasome Inhibits Vascular Cell Growth and Arteriogenesis. <i>BioMed Research International</i> , 2015, 2015, 1-11.	1.9	5
60	Novel Assay Analyzing Tropism between Adipose-Derived Stem Cells and Breast Cancer Cells Reveals a Low Oncogenic Response. <i>Breast Care</i> , 2019, 14, 278-288.	1.4	5
61	Posterior intercostal artery perforator flap for posterior trunk reconstruction: Perforator mapping with high-resolution ultrasound and clinical application. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2019, 72, 737-743.	1.0	5
62	The Usage of Pedicled or Free Muscle Flaps Represents a Beneficial Approach for Periprosthetic Infection After Knee Arthroplasty. <i>Annals of Plastic Surgery</i> , 2020, 85, 539-545.	0.9	5
63	Deferoxamine enhances the regenerative potential of diabetic Adipose Derived Stem Cells. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2020, 73, 1738-1746.	1.0	5
64	Hypoxia Preconditioned Serum (HPS)-Hydrogel Can Accelerate Dermal Wound Healing in Miceâ€‘An In Vivo Pilot Study. <i>Biomedicines</i> , 2022, 10, 176.	3.2	5
65	Long-term pre- and postconditioning with low doses of erythropoietin protects critically perfused musculocutaneous tissue from necrosis. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2019, 72, 590-599.	1.0	4
66	Do your surgical glove characteristics and wearing habits affect your tactile sensibility?. <i>Annals of Medicine and Surgery</i> , 2020, 57, 281-286.	1.1	4
67	Hypoxia Preconditioned Serum (HPS) Promotes Osteoblast Proliferation, Migration and Matrix Deposition. <i>Biomedicines</i> , 2022, 10, 1631.	3.2	4
68	Innovations in wound medicine. <i>Wound Medicine</i> , 2014, 4, 9-12.	2.7	3
69	Bacterial bioburden of wounds: influence of debridement and negative-pressure wound therapy (NPWT). <i>Journal of Wound Care</i> , 2021, 30, 604-611.	1.2	3
70	Wound fluid under occlusive dressings from diabetic patients show an increased angiogenic response and fibroblast migration. <i>Journal of Tissue Viability</i> , 2021, 30, 446-453.	2.0	2
71	Structural Fat Grafting for Rejuvenation of the Hand: How Much Volume Do We Get?. <i>Current Therapies in Regenerative Medicine</i> , 2013, , 287-296.	0.0	2
72	Free flap engraftment despite early pedicle thrombosis due to antithrombin deficiency. <i>European Journal of Plastic Surgery</i> , 2015, 38, 499-502.	0.6	1

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73	Erythropoetin can partially restore cigarette smoke induced effects on Adipose derived Stem Cells. <i>Clinical Hemorheology and Microcirculation</i> , 2021, 77, 27-36.	1.7	1
74	A Modified Burn Comb Model With a New Dorsal Frame That Allows for Local Treatment in Partial-Thickness Burns in Rats. <i>Journal of Burn Care and Research</i> , 2022, , .	0.4	1
75	States and Fates of Skin Fibroblasts Revealed through Chromatin Accessibility. <i>Journal of Investigative Dermatology</i> , 2022, , .	0.7	0
76	Visualizing Scar Development Using SCAD Assay - An <i>Ex-situ</i> Skin Scarring Assay. <i>Journal of Visualized Experiments</i> , 2022, , .	0.3	0