Raymund E Horch

List of Publications by Year
in descending order

413	12,044	29994 54	58464 82
papers	citations	h-index	g-index

504	504	504	9848
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tissue engineering of bone: the reconstructive surgeon's point of view. Journal of Cellular and Molecular Medicine, 2006, 10, 7-19.	1.6	459
2	Safety of autologous bone marrow-derived mesenchymal stem cell transplantation for cartilage repair in 41 patients with 45 joints followed for up to 11 years and 5 months. Journal of Tissue Engineering and Regenerative Medicine, 2011, 5, 146-150.	1.3	282
3	Tissue engineering of cultured skin substitutes. Journal of Cellular and Molecular Medicine, 2005, 9, 592-608.	1.6	260
4	Activation of STAT3 integrates common profibrotic pathways to promote fibroblast activation and tissue fibrosis. Nature Communications, 2017, 8, 1130.	5.8	245
5	Engineering of Vascularized Transplantable Bone Tissues: Induction of Axial Vascularization in an Osteoconductive Matrix Using an Arteriovenous Loop. Tissue Engineering, 2006, 12, 1721-1731.	4.9	200
6	Porous ceramic bone scaffolds for vascularized bone tissue regeneration. Journal of Materials Science: Materials in Medicine, 2008, 19, 2781-2790.	1.7	146
7	Single-Cell Suspensions of Cultured Human Keratinocytes in Fibrinâ€“Glue Reconstitute the Epidermis. Cell Transplantation, 1998, 7, 309-317.	1.2	131
8	Single-Cell Suspensions of Cultured Human Keratinocytes in Fibrinâ€“Glue Reconstitute the Epidermis. Cell Transplantation, 1998, 7, 309-317.	1.2	126
9	Delayed Reverse Sural Flap for Staged Reconstruction of the Foot and Lower Leg. Plastic and Reconstructive Surgery, 2005, 116, 1910-1917.	0.7	126
10	Translating tissue engineering technology platforms into cancer research. Journal of Cellular and Molecular Medicine, 2009, 13, 1417-1427.	1.6	122
11	Gene transfer strategies in tissue engineering. Journal of Cellular and Molecular Medicine, 2007, 11, 206-223.	1.6	121
12	Successful human longâ€term application of in situ bone tissue engineering. Journal of Cellular and Molecular Medicine, 2014, 18, 1478-1485.	1.6	118
13	Cultured Human Keratinocytes on Type I Collagen Membranes to Reconstitute the Epidermis. Tissue Engineering, 2000, 6, 53-67.	4.9	115
14	A new approach to tissue engineering of vascularized skeletal muscle. Journal of Cellular and Molecular Medicine, 2006, 10, 716-726.	1.6	112
15	Axial Prevascularization of Porous Matrices Using an Arteriovenous Loop Promotes Survival and Differentiation of Transplanted Autologous Osteoblasts. Tissue Engineering, 2007, 13, 1549-1560.	4.9	107
16	In vitro and in vivo Biocompatibility of Alginate Dialdehyde/Gelatin Hydrogels with and without Nanoscaled Bioactive Glass for Bone Tissue Engineering Applications. Materials, 2014, 7, 1957-1974.	1.3	107
17	Median Nerve Compression Can Be Detected by Magnetic Resonance Imaging of the Carpal Tunnel. Neurosurgery, 1997, 41, 76-83.	0.6	103
18	Hepatic tissue engineering: from transplantation to customized cellâ€based liver directed therapies from the laboratory. Journal of Cellular and Molecular Medicine, 2008, 12, 56-66.	1.6	100

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19	50 years experience with Dupuytren's contracture in the Erlangen University Hospital â€“ A retrospective analysis of 2919 operated hands from 1956 to 2006. BMC Musculoskeletal Disorders, 2007, 8, 60.	0.8	96
20	Topical negative pressure wound therapy: a review of its role and guidelines for its use in the management of acute wounds. International Wound Journal, 2008, 5, 511-529.	1.3	95
21	Collagen matrices from sponge to nano: new perspectives for tissue engineering of skeletal muscle. BMC Biotechnology, 2009, 9, 34.	1.7	88
22	Evidenceâ€based medicine: vacuumâ€assisted closure in wound care management. International Wound Journal, 2007, 4, 256-269.	1.3	87
23	Bioactive Copper-Doped Glass Scaffolds Can Stimulate Endothelial Cells in Co-Culture in Combination with Mesenchymal Stem Cells. PLoS ONE, 2014, 9, e113319.	1.1	87
24	Transplantation of cultured autologous keratinocytes in fibrin sealant biomatrix to resurface chronic wounds. Transplantation Proceedings, 2001, 33, 642-644.	0.3	85
25	MR imaging of the carpal tunnel. European Journal of Radiology, 1997, 25, 141-145.	1.2	84
26	Osteoinduction and survival of osteoblasts and boneâ€marrow stromal cells in 3<scp>D</scp> biphasic calcium phosphate scaffolds under static and dynamic culture conditions. Journal of Cellular and Molecular Medicine, 2012, 16, 2350-2361.	1.6	84
27	Fibrin Gel-Immobilized VEGF and bFGF Efficiently Stimulate Angiogenesis in the AV Loop Model. Molecular Medicine, 2007, 13, 480-487.	1.9	83
28	The venous graft as an effector of early angiogenesis in a fibrin matrix. Microvascular Research, 2008, 75, 25-33.	1.1	79
29	Engineering skeletal muscle tissue â€“ new perspectives in vitro and in vivo. Journal of Cellular and Molecular Medicine, 2010, 14, 2622-2629.	1.6	79
30	Applied tissue engineering in the closure of severe burns and chronic wounds using cultured human autologous keratinocytes in a natural fibrin matrix. Cell and Tissue Banking, 2004, 5, 81-87.	0.5	78
31	Treatment of second degree facial burns with allograftsâ€”preliminary results. Burns, 2005, 31, 597-602.	1.1	78
32	Evaluation of processed bovine cancellous bone matrix seeded with syngenic osteoblasts in a critical size calvarial defect rat model. Journal of Cellular and Molecular Medicine, 2006, 10, 695-707.	1.6	77
33	Autonomously vascularized cellular constructs in tissue engineering: opening a new perspective for biomedical science. Journal of Cellular and Molecular Medicine, 2007, 11, 6-20.	1.6	77
34	Evaluation of Angiogenesis of Bioactive Glass in the Arteriovenous Loop Model. Tissue Engineering - Part C: Methods, 2013, 19, 479-486.	1.1	77
35	A hundred patients with vertical rectus abdominis myocutaneous (VRAM) flap for pelvic reconstruction after total pelvic exenteration. International Journal of Colorectal Disease, 2014, 29, 813-823.	1.0	77
36	Phosphaturic Mesenchymal Tumors. American Journal of Surgical Pathology, 2017, 41, 1371-1380.	2.1	77

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37	Insulin Treatment Improves Hepatic Morphology and Function Through Modulation of Hepatic Signals After Severe Trauma. Annals of Surgery, 2004, 240, 340-349.	2.1	76
38	Axial vascularization of a large volume calcium phosphate ceramic bone substitute in the sheep AV loop model. Journal of Tissue Engineering and Regenerative Medicine, 2010, 4, 216-223.	1.3	76
39	Dipeptidylpeptidase 4 as a Marker of Activated Fibroblasts and a Potential Target for the Treatment of Fibrosis in Systemic Sclerosis. Arthritis and Rheumatology, 2020, 72, 137-149.	2.9	75
40	Myogenic differentiation of mesenchymal stem cells co-cultured with primary myoblasts. Cell Biology International, 2011, 35, 397-406.	1.4	74
41	Incisional negative pressure wound therapy for high-risk wounds. Journal of Wound Care, 2015, 24, 21-28.	0.5	74
42	Intrapulmonary and Cutaneous Siliconomas after Silent Silicone Breast Implant Failure. Breast Journal, 2009, 15, 496-499.	0.4	65
43	Engineering axially vascularized bone in the sheep arteriovenous-loop model. Journal of Tissue Engineering and Regenerative Medicine, 2013, 7, 654-664.	1.3	64
44	Acceleration of Vascularized Bone Tissue-Engineered Constructs in a Large Animal Model Combining Intrinsic and Extrinsic Vascularization. Tissue Engineering - Part A, 2015, 21, 1680-1694.	1.6	64
45	Correlation between serum creatinine kinase levels and extent of muscle damage in electrical burns. Burns, 2004, 30, 680-683.	1.1	63
46	Oxidized Alginate-Gelatin Hydrogel: A Favorable Matrix for Growth and Osteogenic Differentiation of Adipose-Derived Stem Cells in 3D. ACS Biomaterials Science and Engineering, 2017, 3, 1730-1737.	2.6	62
47	Automatic Quantitative Micro-Computed Tomography Evaluation of Angiogenesis in an Axially Vascularized Tissue-Engineered Bone Construct. Tissue Engineering - Part C: Methods, 2010, 16, 1503-1514.	1.1	59
48	Tissue engineering and regenerative medicine â€“where do we stand?. Journal of Cellular and Molecular Medicine, 2012, 16, 1157-1165.	1.6	59
49	Cracking the perfusion code?: Laser-assisted Indocyanine Green angiography and combined laser Doppler spectrophotometry for intraoperative evaluation of tissue perfusion in autologous breast reconstruction with DIEP or ms-TRAM flaps. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2016, 69, 1382-1388.	0.5	59
50	Induction of bone formation in biphasic calcium phosphate scaffolds by bone morphogenetic protein-2 and primary osteoblasts. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 176-185.	1.3	58
51	Phenol burns and intoxications. Burns, 1994, 20, 45-50.	1.1	57
52	The Versatility of the Distally Based Peroneus Brevis Muscle Flap in Reconstructive Surgery of the Foot and Lower Leg. Annals of Plastic Surgery, 2007, 58, 397-404.	0.5	57
53	Bilateral pedicled myocutaneous vertical rectus abdominus muscle flaps to close vesicovaginal and pouch-vaginal fistulas with simultaneous vaginal and perineal reconstruction in irradiated pelvic wounds. Urology, 2002, 60, 502-507.	0.5	56
54	Dose-Finding Study of Fibrin Gel-Immobilized Vascular Endothelial Growth Factor 165 and Basic Fibroblast Growth Factor in the Arteriovenous Loop Rat Model. Tissue Engineering - Part A, 2009, 15, 2501-2511.	1.6	56

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55	Plasmid Gene Delivery to Human Keratinocytes Through a Fibrin-Mediated Transfection System. Tissue Engineering, 2001, 7, 757-766.	4.9	55
56	Future perspectives in tissue engineering: ?Tissue Engineering? Review Series. Journal of Cellular and Molecular Medicine, 2006, 10, 4-6.	1.6	54
57	Results of combined vascular reconstruction and free flap transfer for limb salvage in patients with critical limb ischemia. Journal of Vascular Surgery, 2015, 61, 1239-1248.	0.6	54
58	PHDs inhibitor DMOG promotes the vascularization process in the AV loop by HIF-1a up-regulation and the preliminary discussion on its kinetics in rat. BMC Biotechnology, 2014, 14, 112.	1.7	53
59	Directly autoâ€transplanted mesenchymal stem cells induce bone formation in a ceramic bone substitute in an ectopic sheep model. Journal of Cellular and Molecular Medicine, 2011, 15, 1364-1378.	1.6	52
60	Regenerative medicine: then and now â€“ an update of recent history into future possibilities. Journal of Cellular and Molecular Medicine, 2010, 14, 2350-2358.	1.6	50
61	A case of familial tumoral calcinosis in a neonate and review of the literature. Archives of Orthopaedic and Trauma Surgery, 2004, 124, 563-567.	1.3	49
62	De novo generation of axially vascularized tissue in a large animal model. Microsurgery, 2009, 29, 42-51.	0.6	49
63	Combination of Extrinsic and Intrinsic Pathways Significantly Accelerates Axial Vascularization of Bioartificial Tissues. Plastic and Reconstructive Surgery, 2012, 129, 55e-65e.	0.7	49
64	Enhancing Safety in Reconstructive Microsurgery Using Intraoperative Indocyanine Green Angiography. Frontiers in Surgery, 2019, 6, 39.	0.6	49
65	Experimental total wrapping of breast implants with acellular dermal matrix: A preventive tool against capsular contracture in breast surgery?. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2013, 66, 1382-1389.	0.5	48
66	Enhancing mandibular bone regeneration and perfusion via axial vascularization of scaffolds. Clinical Oral Investigations, 2014, 18, 1671-1678.	1.4	48
67	Treatment of therapy-refractive ulcera cruris of various origins with autologous keratinocytes in fibrin sealant. Vasa - European Journal of Vascular Medicine, 2005, 34, 25-29.	0.6	47
68	Insulin Attenuates Apoptosis and Exerts Anti-Inflammatory Effects in Endotoxemic Human Macrophages. Journal of Surgical Research, 2007, 143, 398-406.	0.8	47
69	Cancer research by means of tissue engineering â€“ is there a rationale?. Journal of Cellular and Molecular Medicine, 2013, 17, 1197-1206.	1.6	47
70	Combination of BMP2 and MSCs Significantly Increases Bone Formation in the Rat Arterio-Venous Loop Model. Tissue Engineering - Part A, 2015, 21, 96-105.	1.6	46
71	Accelerated Wound Healing by In vivo Application of Keratinocytes Overexpressing KGF. Molecular Therapy, 2004, 10, 86-96.	3.7	45
72	Foreign body reaction after usage of tissue adhesives for skin closure: a case report and review of the literature. Archives of Orthopaedic and Trauma Surgery, 2009, 129, 167-169.	1.3	45

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73	Cultured keratinocytes in fibrin with decellularised dermis close porcine full-thickness wounds in a single step. Burns, 2008, 34, 1015-1021.	1.1	44
74	Comparison between distally based peroneus brevis and sural flaps for reconstruction of foot, ankle and distal lower leg: An analysis of donor-site morbidity and clinical outcome. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2011, 64, 656-662.	0.5	44
75	Vascular Tissue Engineering: Effects of Integrating Collagen into a PCL Based Nanofiber Material. BioMed Research International, 2017, 2017, 1-11.	0.9	44
76	Evaluation of blood vessel ingrowth in fibrin gel subject to type and concentration of growth factors. Journal of Cellular and Molecular Medicine, 2009, 13, 2864-2874.	1.6	43
77	Selective isolation and characterization of primary cells from normal breast and tumors reveal plasticity of adipose derived stem cells. Breast Cancer Research, 2016, 18, 32.	2.2	43
78	Negative pressure wound treatment with computerâ€controlled irrigation/instillation decreases bacterial load in contaminated wounds and facilitates wound closure. International Wound Journal, 2018, 15, 978-984.	1.3	42
79	COMPARISON OF THE EFFECT OF A COLLAGEN DRESSING AND A POLYURETHANE DRESSING ON THE HEALING OF SPLIT THICKNESS SKIN GRAFT (STSG) DONOR SITES. Scandinavian Journal of Plastic and Reconstructive Surgery and Hand Surgery, 1998, 32, 407-414.	0.6	41
80	Intrinsic Axial Vascularization of an Osteoconductive Bone Matrix by Means of an Arteriovenous Vascular Bundle. Plastic and Reconstructive Surgery, 2007, 120, 855-868.	0.7	41
81	Sensory Transduction in Peripheral Nerve Axons Elicits Ectopic Action Potentials. Journal of Neuroscience, 2008, 28, 6281-6284.	1.7	41
82	Endothelial progenitor cells are integrated in newly formed capillaries and alter adjacent fibrovascular tissue after subcutaneous implantation in a fibrin matrix. Journal of Cellular and Molecular Medicine, 2011, 15, 2452-2461.	1.6	41
83	N-Acetyl-L-Cysteine abrogates fibrogenic properties of fibroblasts isolated from Dupuytren's disease by blunting TGF-? signalling. Journal of Cellular and Molecular Medicine, 2006, 10, 157-165.	1.6	40
84	Foetal hepatocyte transplantation in a vascularized AVâ€Loop transplantation model in the rat. Journal of Cellular and Molecular Medicine, 2010, 14, 267-274.	1.6	40
85	Adipose- and bone marrow-derived mesenchymal stem cells display different osteogenic differentiation patterns in 3D bioactive glass-based scaffolds. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, E497-E509.	1.3	40
86	Cologne Burn Centre experiences with glycerol-preserved allogeneic skin: Part I: Clinical experiences and histological findings (overgraft and sandwich technique). Burns, 1994, 20, S23-S26.	1.1	39
87	Novel strontium-doped bioactive glass nanoparticles enhance proliferation and osteogenic differentiation of human bone marrow stromal cells. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	39
88	Differentiation of Osteoblasts in Three-Dimensional Culture in Processed Cancellous Bone Matrix: Quantitative Analysis of Gene Expression Based on Real-Time Reverse Transcription- Polymerase Chain Reaction. Tissue Engineering, 2005, 11, 855-864.	4.9	38
89	De novo Generation of an Axially Vascularized Processed Bovine Cancellous-Bone Substitute in the Sheep Arteriovenous-Loop Model. European Surgical Research, 2011, 46, 148-155.	0.6	38
90	The Arteriovenous Loop: Engineering of Axially Vascularized Tissue. European Surgical Research, 2018, 59, 286-299.	0.6	38

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91	Sternal Wound Infections following Cardiac Surgery: Risk Factor Analysis and Interdisciplinary Treatment. Heart Surgery Forum, 2007, 10, E366-E371.	0.2	38
92	Tensiometry as a Decision Tool for Abdominal Wall Reconstruction with Component Separation. World Journal of Surgery, 2009, 33, 1174-1180.	0.8	37
93	Ulnar shortening after TFCC suture repair of Palmer type 1B lesions. Archives of Orthopaedic and Trauma Surgery, 2010, 130, 301-306.	1.3	37
94	The use of the artificial dermis (IntegraÂ®) in combination with vacuum assisted closure for reconstruction of an extensive burn scar â€“ A case report. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2010, 63, e32-e35.	0.5	37
95	Hyaluronan-based heparin-incorporated hydrogels for generation of axially vascularized bioartificial bone tissues: inÂvitro and inÂvivo evaluation in a PLDLLAâ€“TCPâ€“PCL-composite system. Journal of Materials Science: Materials in Medicine, 2011, 22, 1279-1291.	1.7	37
96	Development of a pre-vascularized 3D scaffold-hydrogel composite graft using an arterio-venous loop for tissue engineering applications. Journal of Biomaterials Applications, 2012, 27, 277-289.	1.2	37
97	The versatility of the free osteocutaneous fibula flap in the reconstruction of extremities after sarcoma resection. World Journal of Surgical Oncology, 2004, 2, 22.	0.8	36
98	Improved safety of autologous breast reconstruction surgery by stabilisation of microsurgical vessel anastomoses using fibrin sealant in 349 free DIEP or fascia-muscle-sparing (fms)-TRAM flaps: A two-centre study. Breast, 2008, 17, 492-498.	0.9	36
99	Poly(ADP-ribose) polymerase-1 regulates fibroblast activation in systemic sclerosis. Annals of the Rheumatic Diseases, 2018, 77, 744-751.	0.5	36
100	Self-Assembled Human Adipose-Derived Stem Cell-Derived Extracellular Vesicle-Functionalized Biotin-Doped Polypyrrole Titanium with Long-Term Stability and Potential Osteoinductive Ability. ACS Applied Materials & Interfaces, 2019, 11, 46183-46196.	4.0	36
101	Pectus Excavatum Breast and Chest Deformity: Indications for Aesthetic Plastic Surgery Versus Thoracic Surgery in a Multicenter Experience. Aesthetic Plastic Surgery, 2006, 30, 403-411.	0.5	35
102	The effect of vacuum-assisted closure on lymph vessels in chronic wounds. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2009, 62, 1068-1075.	0.5	35
103	Zonal perfusion patterns in pedicled free-style perforator flaps. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2014, 67, e9-e17.	0.5	34
104	Acute postoperative infection with Aeromonas hydrophila after using medical leeches for treatment of venous congestion. Archives of Orthopaedic and Trauma Surgery, 2010, 130, 1323-1328.	1.3	33
105	In vitro cell response to Co-containing 1393 bioactive glass. Materials Science and Engineering C, 2015, 57, 157-163.	3.8	33
106	Immediate changes of angiosome perfusion during tibial angioplasty. Journal of Vascular Surgery, 2017, 65, 422-430.	0.6	33
107	To Matrigel or Not to Matrigel. American Journal of Pathology, 2008, 172, 1441-1442.	1.9	32
108	Wide Topical Negative Pressure Wound Dressing Treatment for Patients Undergoing Abdominal Dermolipectomy Following Massive Weight Loss. Obesity Surgery, 2011, 21, 1781-1786.	1.1	32

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109	Myogenic Differentiation of Mesenchymal Stem Cells in a Newly Developed Neurotised AV-Loop Model. BioMed Research International, 2013, 2013, 1-11.	0.9	32
110	Retrospective cohort study of combined approach for trunk reconstruction using arteriovenous loops and free flaps. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2018, 71, 394-401.	0.5	32
111	Gelatin methacryloyl is a slow degrading material allowing vascularization and long-term use in vivo. Biomedical Materials (Bristol), 2021, 16, 065004.	1.7	32
112	Liver fibrogenesis due to cholestasis is associated with increased Smad7 expression and Smad3 signaling. Journal of Cellular and Molecular Medicine, 2006, 10, 922-932.	1.6	31
113	Is there a Rationale for Autologous Breast Reconstruction in Older Patients? A Retrospective Single Center Analysis of Quality of life, Complications and Comorbidities after DIEP or ms-TRAM Flap Using the BREAST-Q. Breast Journal, 2015, 21, 588-595.	0.4	31
114	Flow Increase Is Decisive to Initiate Angiogenesis in Veins Exposed to Altered Hemodynamics. PLoS ONE, 2015, 10, e0117407.	1.1	31
115	Combined free flaps with arteriovenous loops for reconstruction of extensive thoracic defects after sternal osteomyelitis. Microsurgery, 2016, 36, 121-127.	0.6	31
116	Human adipose-derived stem cells support lymphangiogenesis in vitro by secretion of lymphangiogenic factors. Experimental Cell Research, 2020, 388, 111816.	1.2	31
117	The Rectus Abdominis Free Flap as an Emergency Procedure in Extensive Upper Extremity Soft-Tissue Defects. Plastic and Reconstructive Surgery, 1999, 103, 1421-1427.	0.7	30
118	Vacuum Assisted Closure: Recommendations for Use. International Wound Journal, 2008, 5, iii-19.	1.3	30
119	The nutrient omentum free flap: Revascularization with vein bypasses and greater omentum flap in severe arterial ulcers. Journal of Vascular Surgery, 2007, 45, 837-840.	0.6	29
120	T17b murine embryonal endothelial progenitor cells can be induced towards both proliferation and differentiation in a fibrin matrix. Journal of Cellular and Molecular Medicine, 2009, 13, 926-935.	1.6	29
121	Plastic and Reconstructive Surgery in the Treatment of Oncological Perineal and Genital Defects. Frontiers in Oncology, 2015, 5, 212.	1.3	29
122	Flow-Induced Axial Vascularization: The Arteriovenous Loop in Angiogenesis and Tissue Engineering. Plastic and Reconstructive Surgery, 2016, 138, 825-835.	0.7	29
123	Intrinsic Vascularization of Recombinant eADF4(C16) Spider Silk Matrices in the Arteriovenous Loop Model. Tissue Engineering - Part A, 2019, 25, 1504-1513.	1.6	29
124	Investigation of the batch-to-batch inconsistencies of Collagen in PCL-Collagen nanofibers. Materials Science and Engineering C, 2019, 95, 217-225.	3.8	29
125	Intrinsic Versus Extrinsic Vascularization in Tissue Engineering. , 2006, 585, 311-326.		29
126	Metastatic malignant acrospiroma of the hand. European Journal of Surgical Oncology, 2001, 27, 431-435.	0.5	28

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127	Effect of Ultrasonic Assisted Lipectomy (UAL) on Breast Tissue: Histological Findings. Aesthetic Plastic Surgery, 2001, 25, 85-88.	0.5	28
128	Axially vascularized bone substitutes: a systematic review of literature and presentation of a novel model. Archives of Orthopaedic and Trauma Surgery, 2012, 132, 1353-1362.	1.3	27
129	Composition and characteristics of an autologous thrombocyte gel. Journal of Surgical Research, 2004, 117, 202-207.	0.8	26
130	Role of guanylate binding protein-1 in vascular defects associated with chronic inflammatory diseases. Journal of Cellular and Molecular Medicine, 2011, 15, 1582-1592.	1.6	26
131	Threeâ€dimensional vascularization of electrospun PCL/collagenâ€blend nanofibrous scaffolds in vivo. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2302-2311.	2.1	26
132	ADSCs and adipocytes are the main producers in the autotaxinâ€“lysophosphatidic acid axis of breast cancer and healthy mammary tissue in vitro. BMC Cancer, 2018, 18, 1273.	1.1	26
133	Mesenchymal stem cells promote lymphangiogenic properties of lymphatic endothelial cells. Journal of Cellular and Molecular Medicine, 2018, 22, 3740-3750.	1.6	26
134	Ancient traditional Chinese medicine in burn treatment: a historical review. Burns, 2003, 29, 473-478.	1.1	25
135	A Semisynthetic Bilaminar Skin Substitute Used to Treat Pediatric Full-Body Toxic Epidermal Necrolysis. Archives of Dermatology, 2004, 140, 160.	1.7	25
136	Coverage of Exposed Bones and Joints in Critically Ill Patients: Lower Extremity Salvage with Topical Negative Pressure Therapy. Journal of Cutaneous Medicine and Surgery, 2008, 12, 223-229.	0.6	25
137	High Throughput Screening of Gene Functions in Mammalian Cells Using Reversely Transfected Cell Arrays: Review And Protocol. Combinatorial Chemistry and High Throughput Screening, 2008, 11, 159-172.	0.6	25
138	Regression and persistence: remodelling in a tissue engineered axial vascular assembly. Journal of Cellular and Molecular Medicine, 2009, 13, 4166-4175.	1.6	25
139	Subjective outcome, neurophysiological investigations, postoperative complications and recurrence rate of partial medial epicondylectomy in cubital tunnel syndrome. Archives of Orthopaedic and Trauma Surgery, 2011, 131, 1027-1033.	1.3	25
140	Extracorporeal perfusion of free muscle flaps in a porcine model using a miniaturized perfusion system. Archives of Orthopaedic and Trauma Surgery, 2011, 131, 849-855.	1.3	25
141	Topical negative-pressure wound therapy: emerging devices and techniques. Expert Review of Medical Devices, 2020, 17, 139-148.	1.4	25
142	Enhanced vascularization and de novo tissue formation in hydrogels made of engineered RGD-tagged spider silk proteins in the arteriovenous loop model. Biofabrication, 2021, 13, 045003.	3.7	25
143	Decellularized dermis in combination with cultivated keratinocytes in a shortâ€and longâ€term animal experimental investigation. Journal of the European Academy of Dermatology and Venereology, 2008, 22, 41-49.	1.3	24
144	Expression of HIF-1Î± in Irradiated Tissue is Altered by Topical Negative-Pressure Therapy. Strahlentherapie Und Onkologie, 2007, 183, 144-149.	1.0	24

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145	The potential role of telocytes in Tissue Engineering and Regenerative Medicine. Seminars in Cell and Developmental Biology, 2016, 55, 70-78.	2.3	24
146	Results of combined vascular reconstruction by means of AV loops and free flap transfer in patients with soft tissue defects. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2016, 69, 545-553.	0.5	24
147	Microcirculation Evaluated by Intraoperative Fluorescence Angiography after Tibial Bypass Surgery. Annals of Vascular Surgery, 2017, 40, 190-197.	0.4	24
148	Pilot Assessment of the Angiosome Concept by Intra-operative Fluorescence Angiography After Tibial Bypass Surgery. European Journal of Vascular and Endovascular Surgery, 2018, 55, 215-221.	0.8	24
149	Myogenic differentiation of primary myoblasts and mesenchymal stromal cells under serum-free conditions on PCL-collagen I-nanoscaffolds. BMC Biotechnology, 2018, 18, 75.	1.7	24
150	Dermatofibrosarcoma protuberans: surgical management of a challenging mesenchymal tumor. World Journal of Surgical Oncology, 2019, 17, 90.	0.8	24
151	Actually Seeing What Is Going on â€“ Intravital Microscopy in Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2021, 9, 627462.	2.0	24
152	New aspects on efficient anticoagulation and antiplatelet strategies in sheep. BMC Veterinary Research, 2013, 9, 192.	0.7	23
153	Decision-making in DIEP and ms-TRAM flaps: The potential role for a combined laser Doppler spectrophotometry system. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2013, 66, 73-79.	0.5	23
154	Assessing viability of extracorporeal preserved muscle transplants using external field stimulation: a novel tool to improve methods prolonging bridge-to-transplantation time. Scientific Reports, 2015, 5, 11956.	1.6	23
155	Encapsulation of Mesenchymal Stem Cells Improves Vascularization of Alginate-Based Scaffolds. Tissue Engineering - Part A, 2018, 24, 1320-1331.	1.6	23
156	Pedicled Transplantation of Axially Vascularized Bone Constructs in a Critical Size Femoral Defect. Tissue Engineering - Part A, 2018, 24, 479-492.	1.6	23
157	The pro-angiogenic role of hypoxia inducible factor stabilizer FG-4592 and its application in an in vivo tissue engineering chamber model. Scientific Reports, 2019, 9, 6035.	1.6	23
158	Reconstitution of Basement Membrane after â€˜Sandwich-Techniqueâ€™ Skin Grafting for Severe Burns Demonstrated by Immunohistochemistry. Journal of Burn Care and Research, 1998, 19, 189-202.	1.7	22
159	HÃmangiosarkom der linken Hand bei einem Patienten mit der seltenen Kombination eines Maffucciâ€™s mit einem Stewart Treves Syndrom. Vasa - European Journal of Vascular Medicine, 2000, 29, 71-73.	0.6	22
160	Vacuum Application Increases Therapeutic Safety and Allows Intensified Local Radiation Treatment of Malignant Soft-Tissue Tumors. Strahlentherapie Und Onkologie, 2005, 181, 124-130.	1.0	22
161	Comparison of Hydrogels for the Development of Well-Defined 3D Cancer Models of Breast Cancer and Melanoma. Cancers, 2020, 12, 2320.	1.7	22
162	A new method for treating isolated fractures of the os trapezium. Archives of Orthopaedic and Trauma Surgery, 1998, 117, 180-182.	1.3	21

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