

Shahram Ghanaati

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6174610/publications.pdf>

Version: 2024-02-01

101
papers

4,934
citations

87888

38
h-index

98798

67
g-index

103
all docs

103
docs citations

103
times ranked

4562
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Platelet-Rich Fibrin: A New Concept for Cell-Based Tissue Engineering by Means of Inflammatory Cells. <i>Journal of Oral Implantology</i> , 2014, 40, 679-689.	1.0	401
2	Use of platelet-rich fibrin in regenerative dentistry: a systematic review. <i>Clinical Oral Investigations</i> , 2017, 21, 1913-1927.	3.0	288
3	Injectable platelet rich fibrin (i-PRF): opportunities in regenerative dentistry?. <i>Clinical Oral Investigations</i> , 2017, 21, 2619-2627.	3.0	267
4	The rapid anastomosis between prevascularized networks on silk fibroin scaffolds generated in vitro with cocultures of human microvascular endothelial and osteoblast cells and the host vasculature. <i>Biomaterials</i> , 2010, 31, 6959-6967.	11.4	197
5	Contribution of outgrowth endothelial cells from human peripheral blood on in vivo vascularization of bone tissue engineered constructs based on starch polycaprolactone scaffolds. <i>Biomaterials</i> , 2009, 30, 526-534.	11.4	184
6	Influence of β -tricalcium phosphate granule size and morphology on tissue reaction in vivo. <i>Acta Biomaterialia</i> , 2010, 6, 4476-4487.	8.3	164
7	Effects of an injectable platelet-rich fibrin on osteoblast behavior and bone tissue formation in comparison to platelet-rich plasma. <i>Platelets</i> , 2018, 29, 48-55.	2.3	157
8	Dynamic processes involved in the pre-vascularization of silk fibroin constructs for bone regeneration using outgrowth endothelial cells. <i>Biomaterials</i> , 2009, 30, 1329-1338.	11.4	150
9	Evaluation of the tissue reaction to a new bilayered collagen matrix <i>in vivo</i> and its translation to the clinic. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 015010.	3.3	127
10	The chemical composition of synthetic bone substitutes influences tissue reactions <i>in vivo</i> : histological and histomorphometrical analysis of the cellular inflammatory response to hydroxyapatite, beta-tricalcium phosphate and biphasic calcium phosphate ceramics. <i>Biomedical Materials (Bristol)</i> , 2012, 7, 015005.	3.3	119
11	Dynamic in vivo biocompatibility of angiogenic peptide amphiphile nanofibers. <i>Biomaterials</i> , 2009, 30, 6202-6212.	11.4	116
12	Scaffold vascularization <i>in vivo</i> driven by primary human osteoblasts in concert with host inflammatory cells. <i>Biomaterials</i> , 2011, 32, 8150-8160.	11.4	111
13	Nanostructured medical sutures with antibacterial properties. <i>Biomaterials</i> , 2015, 52, 291-300.	11.4	103
14	Analysis of the <i>in vitro</i> degradation and the <i>in vivo</i> tissue response to bi-layered 3D-printed scaffolds combining PLA and biphasic PLA/bioglass components – Guidance of the inflammatory response as basis for osteochondral regeneration. <i>Bioactive Materials</i> , 2017, 2, 208-223.	15.6	95
15	Standardization of relative centrifugal forces in studies related to platelet-rich fibrin. <i>Journal of Periodontology</i> , 2019, 90, 817-820.	3.4	94
16	Reduction of the relative centrifugal force influences cell number and growth factor release within injectable PRF-based matrices. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 188.	3.6	91
17	In vivo cellular reactions to different biomaterials – Physiological and pathological aspects and their consequences. <i>Seminars in Immunology</i> , 2017, 29, 49-61.	5.6	91
18	Fifteen Years of Platelet Rich Fibrin in Dentistry and Oromaxillofacial Surgery: How High is the Level of Scientific Evidence?. <i>Journal of Oral Implantology</i> , 2018, 44, 471-492.	1.0	88

#	ARTICLE	IF	CITATIONS
19	Behavior of Gingival Fibroblasts on Titanium Implant Surfaces in Combination with either Injectable-PRF or PRP. <i>International Journal of Molecular Sciences</i> , 2017, 18, 331.	4.1	84
20	Platelet-rich fibrin-based matrices to improve angiogenesis in an <i>in vitro</i> co-culture model for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 598-610.	2.7	76
21	Multinucleated giant cells in the implant bed of bone substitutes are foreign body giant cells—New insights into the material-mediated healing process. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1105-1111.	4.0	75
22	Potential lack of “standardized” processing techniques for production of allogeneic and xenogeneic bone blocks for application in humans. <i>Acta Biomaterialia</i> , 2014, 10, 3557-3562.	8.3	66
23	Non-cross-linked porcine-based collagen III membranes do not require high vascularization rates for their integration within the implantation bed: A paradigm shift. <i>Acta Biomaterialia</i> , 2012, 8, 3061-3072.	8.3	65
24	Rapid vascularization of starch-poly(caprolactone) in vivo by outgrowth endothelial cells in co-culture with primary osteoblasts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, e136-e143.	2.7	62
25	Injectable-platelet rich fibrin using the low speed centrifugation concept improves cartilage regeneration when compared to platelet-rich plasma. <i>Platelets</i> , 2019, 30, 213-221.	2.3	60
26	Controversies related to scientific report describing g-forces from studies on platelet-rich fibrin: Necessity for standardization of relative centrifugal force values. <i>International Journal of Growth Factors and Stem Cells in Dentistry</i> , 2018, 1, 80.	0.6	60
27	Porcine Dermis-Derived Collagen Membranes Induce Implantation Bed Vascularization Via Multinucleated Giant Cells: A Physiological Reaction?. <i>Journal of Oral Implantology</i> , 2015, 41, e238-e251.	1.0	53
28	Heterogeneity of biomaterial-induced multinucleated giant cells: Possible importance for the regeneration process?. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 413-418.	4.0	53
29	A low-speed centrifugation concept leads to cell accumulation and vascularization of solid platelet-rich fibrin: an experimental study <i>in vivo</i> . <i>Platelets</i> , 2019, 30, 329-340.	2.3	51
30	Implantation of silicon dioxide-based nanocrystalline hydroxyapatite and pure phase beta-tricalciumphosphate bone substitute granules in caprine muscle tissue does not induce new bone formation. <i>Head & Face Medicine</i> , 2013, 9, 1.	2.1	49
31	High-Temperature Sintering of Xenogeneic Bone Substitutes Leads to Increased Multinucleated Giant Cell Formation: In Vivo and Preliminary Clinical Results. <i>Journal of Oral Implantology</i> , 2015, 41, e212-e222.	1.0	49
32	Non-cross-linked collagen type I/III materials enhance cell proliferation: in vitro and in vivo evidence. <i>Journal of Applied Oral Science</i> , 2014, 22, 29-37.	1.8	47
33	Spontaneous In Vivo Chondrogenesis of Bone Marrow-Derived Mesenchymal Progenitor Cells by Blocking Vascular Endothelial Growth Factor Signaling. <i>Stem Cells Translational Medicine</i> , 2016, 5, 1730-1738.	3.3	47
34	Fine-tuning scaffolds for tissue regeneration: effects of formic acid processing on tissue reaction to silk fibroin. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, n/a-n/a.	2.7	46
35	Addition of blood to a phycogenic bone substitute leads to increased <i>in vivo</i> vascularization. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 055007.	3.3	46
36	TRAP-Positive Multinucleated Giant Cells Are Foreign Body Giant Cells Rather Than Osteoclasts: Results From a Split-Mouth Study in Humans. <i>Journal of Oral Implantology</i> , 2015, 41, e257-e266.	1.0	46

#	ARTICLE	IF	CITATIONS
37	Histological and histomorphometrical analysis of a silica matrix embedded nanocrystalline hydroxyapatite bone substitute using the subcutaneous implantation model in Wistar rats. <i>Biomedical Materials</i> (Bristol), 2010, 5, 035005.	3.3	44
38	Synthetic bone substitute material comparable with xenogeneic material for bone tissue regeneration in oral cancer patients: First and preliminary histological, histomorphometrical and clinical results. <i>Annals of Maxillofacial Surgery</i> , 2013, 3, 126.	0.7	42
39	Biological performance of cell-encapsulated methacrylated gellan gum-based hydrogels for nucleus pulposus regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 637-648.	2.7	41
40	Nanocrystalline Hydroxyapatite Bone Substitute Leads to Sufficient Bone Tissue Formation Already after 3 Months: Histological and Histomorphometrical Analysis 3 and 6 Months following Human Sinus Cavity Augmentation. <i>Clinical Implant Dentistry and Related Research</i> , 2013, 15, 883-892.	3.7	38
41	Liquid platelet-rich fibrin injections as a treatment adjunct for painful temporomandibular joints: preliminary results. <i>Cranio - Journal of Craniomandibular Practice</i> , 2020, 38, 292-304.	1.4	38
42	Porcine Dermis and Pericardium-Based, Non- α -Cross-Linked Materials Induce Multinucleated Giant Cells After Their In Vivo Implantation: A Physiological Reaction?. <i>Journal of Oral Implantology</i> , 2015, 41, e267-e281.	1.0	37
43	In vivo Implantation of a Bovine-Derived Collagen Membrane Leads to Changes in the Physiological Cellular Pattern of Wound Healing by the Induction of Multinucleated Giant Cells: An Adverse Reaction?. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 104.	4.1	37
44	Nanoscale Chemical Interaction Enhances the Physical Properties of Bioglass Composites. <i>ACS Nano</i> , 2013, 7, 8469-8483.	14.6	35
45	Biologization of Collagen-Based Biomaterials Using Liquid-Platelet-Rich Fibrin: New Insights into Clinically Applicable Tissue Engineering. <i>Materials</i> , 2019, 12, 3993.	2.9	35
46	Diagnostic and treatment modalities for patients with cervical lymph node metastases of unknown primary site – current status and challenges. <i>Radiation Oncology</i> , 2017, 12, 82.	2.7	33
47	Bovine pericardium based non-cross linked collagen matrix for successful root coverage, a clinical study in human. <i>Head & Face Medicine</i> , 2012, 8, 6.	2.1	28
48	Adsorption of Human Plasma Albumin and Fibronectin onto Nanostructured Black Silicon Surfaces. <i>Langmuir</i> , 2016, 32, 10744-10751.	3.5	27
49	Sugar-based collagen membrane cross-linking increases barrier capacity of membranes. <i>Clinical Oral Investigations</i> , 2018, 22, 1851-1863.	3.0	27
50	Human Co- and Triple-Culture Model of the Alveolar-Capillary Barrier on a Basement Membrane Mimic. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 495-503.	2.1	25
51	Radiation Sensitization of Basal Cell and Head and Neck Squamous Cell Carcinoma by the Hedgehog Pathway Inhibitor Vismodegib. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2485.	4.1	25
52	Individualized Titanium Mesh Combined With Platelet-Rich Fibrin and Deproteinized Bovine Bone: A New Approach for Challenging Augmentation. <i>Journal of Oral Implantology</i> , 2018, 44, 345-351.	1.0	25
53	Injectable Bone Substitute Based on β -TCP Combined With a Hyaluronan-Containing Hydrogel Contributes to Regeneration of a Critical Bone Size Defect Towards Restitutio ad Integrum. <i>Journal of Oral Implantology</i> , 2016, 42, 127-137.	1.0	23
54	Hedgehog pathway inhibitor in combination with radiation therapy for basal cell carcinomas of the head and neck. <i>Strahlentherapie Und Onkologie</i> , 2016, 192, 25-31.	2.0	22

#	ARTICLE	IF	CITATIONS
55	Biomaterial-based bone regeneration and soft tissue management of the individualized 3D-titanium mesh: An alternative concept to autologous transplantation and flap mobilization. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2019, 47, 1633-1644.	1.7	22
56	Efficacy of platelet-rich fibrin in promoting the healing of extraction sockets: a systematic review. <i>International Journal of Implant Dentistry</i> , 2021, 7, 117.	2.7	22
57	One-stage microvascular mandible reconstruction and alloplastic TMJ prosthesis. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014, 42, 28-34.	1.7	20
58	Foreign Body Giant Cell-Related Encapsulation of a Synthetic Material Three Years After Augmentation. <i>Journal of Oral Implantology</i> , 2016, 42, 273-277.	1.0	20
59	Expansion of the peri-implant attached gingiva with a three-dimensional collagen matrix in head and neck cancer patients—results from a prospective clinical and histological study. <i>Clinical Oral Investigations</i> , 2017, 21, 1103-1111.	3.0	20
60	Performance and safety of collagenated xenogeneic bone block for lateral alveolar ridge augmentation and staged implant placement. A monocenter, prospective single-arm clinical study. <i>Clinical Oral Implants Research</i> , 2017, 28, 954-960.	4.5	19
61	A Proof of the Low Speed Centrifugation Concept in Rodents: New Perspectives for <i>In Vivo</i> Research. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 659-670.	2.1	19
62	Allogeneic bone block for challenging augmentation—a clinical, histological, and histomorphometrical investigation of tissue reaction and new bone formation. <i>Clinical Oral Investigations</i> , 2018, 22, 3159-3169.	3.0	18
63	Biomaterial-induced multinucleated giant cells express proinflammatory signaling molecules: A histological study in humans. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 780-790.	4.0	18
64	Nanocrystalline Hydroxyapatite-Based Material Already Contributes to Implant Stability After 3 Months: A Clinical and Radiologic 3-Year Follow-up Investigation. <i>Journal of Oral Implantology</i> , 2014, 40, 103-110.	1.0	17
65	Bilayered, non-cross-linked collagen matrix for regeneration of facial defects after skin cancer removal: a new perspective for biomaterial-based tissue reconstruction. <i>Journal of Cell Communication and Signaling</i> , 2016, 10, 3-15.	3.4	16
66	Prognostic impact of CD8-positive tumour-infiltrating lymphocytes and PD-L1 expression in salivary gland cancer. <i>Oral Oncology</i> , 2020, 111, 104931.	1.5	16
67	Effects of rotor angle and time after centrifugation on the biological <i>in vitro</i> properties of platelet rich fibrin membranes. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 60-68.	3.4	16
68	Short implants in the posterior maxilla to avoid sinus augmentation procedure: 5-year results from a retrospective cohort study. <i>International Journal of Implant Dentistry</i> , 2019, 5, 3.	2.7	15
69	Covalent linkage of sulfated hyaluronan to the collagen scaffold Mucograft® enhances scaffold stability and reduces proinflammatory macrophage activation <i>in vivo</i> . <i>Bioactive Materials</i> , 2022, 8, 420-434.	15.6	15
70	The role of centrifugation process in the preparation of therapeutic blood concentrates: Standardization of the protocols to improve reproducibility. <i>International Journal of Growth Factors and Stem Cells in Dentistry</i> , 2019, 2, 41.	0.6	15
71	Do Clinical and Radiological Assessments Contribute to the Understanding of Biomaterials? Results From a Prospective Randomized Sinus Augmentation Split-Mouth Trial. <i>Journal of Oral Implantology</i> , 2018, 44, 62-69.	1.0	13
72	Reply from authors: RE: Optimized platelet-rich fibrin with the low-speed concept: Growth factor release, biocompatibility, and cellular response. <i>Journal of Periodontology</i> , 2019, 90, 122-125.	3.4	13

#	ARTICLE	IF	CITATIONS
73	Thermal treatment at 500°C significantly reduces the reaction to irregular tricalcium phosphate granules as foreign bodies: An in vivo study. <i>Acta Biomaterialia</i> , 2021, 121, 621-636.	8.3	12
74	The Biomaterial-Induced Cellular Reaction Allows a Novel Classification System Regardless of the Biomaterials Origin. <i>Journal of Oral Implantology</i> , 2020, 46, 190-207.	1.0	12
75	Usefulness of platelet-rich fibrin as a hemostatic agent after dental extractions in patients receiving anticoagulant therapy with factor Xa inhibitors: a case series. <i>Oral and Maxillofacial Surgery</i> , 2019, 23, 381-386.	1.3	11
76	Influence of concentration and preparation of platelet rich fibrin on human bone marrow mononuclear cells (in vitro). <i>Platelets</i> , 2019, 30, 861-870.	2.3	11
77	Biologization of Pcl-Mesh Using Platelet Rich Fibrin (Prf) Enhances Its Regenerative Potential In Vitro. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2159.	4.1	11
78	Co-culture Model for Cutaneous Wound Healing to Assess a Porous Fiber-Based Drug Delivery System. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 475-484.	2.1	10
79	Multinucleated giant cells within the in vivo implantation bed of a collagen-based biomaterial determine its degradation pattern. <i>Clinical Oral Investigations</i> , 2021, 25, 859-873.	3.0	9
80	Characterization of the Cellular Reaction to a Collagen-Based Matrix: An In Vivo Histological and Histomorphometrical Analysis. <i>Materials</i> , 2020, 13, 2730.	2.9	8
81	Application of liquid platelet-rich fibrin for treating hyaluronic acid-related complications: A case report with 2 years of follow-up. <i>International Journal of Growth Factors and Stem Cells in Dentistry</i> , 2018, 1, 74.	0.6	8
82	Investigation of peri-implant tissue conditions and peri-implant tissue stability in implants placed with simultaneous augmentation procedure: a 3-year retrospective follow-up analysis of a newly developed bone level implant system. <i>International Journal of Implant Dentistry</i> , 2017, 3, 41.	2.7	6
83	Combined trauma in craniomaxillofacial and orthopedic-traumatological patients: the need for proper interdisciplinary care in trauma units. <i>European Journal of Trauma and Emergency Surgery</i> , 2022, 48, 2521-2528.	1.7	6
84	Changes in platelet-rich fibrin composition after trauma and surgical intervention. <i>Platelets</i> , 2020, 31, 1069-1079.	2.3	6
85	Re-irradiation with concurrent and maintenance nivolumab in locally recurrent and inoperable squamous cell carcinoma of the head and neck: A single-center cohort study. <i>Clinical and Translational Radiation Oncology</i> , 2021, 28, 71-78.	1.7	6
86	The utility of azan trichrome staining in Ameloblastoma. <i>Nigerian postgraduate medical journal</i> , The, 2016, 23, 44.	0.4	6
87	Modification of collagen-based sponges can induce an upshift of the early inflammatory response and a chronic inflammatory reaction led by M1 macrophages: an in vivo study. <i>Clinical Oral Investigations</i> , 2020, 24, 3485-3500.	3.0	5
88	A Standardized g-Force Allows the Preparation of Similar Platelet-Rich Fibrin Qualities Regardless of Rotor Angle. <i>Tissue Engineering - Part A</i> , 2022, 28, 353-365.	3.1	5
89	Patterns of care, toxicity and outcome in the treatment of salivary gland carcinomas: long-term experience from a tertiary cancer center. <i>European Archives of Oto-Rhino-Laryngology</i> , 2021, 278, 4411-4421.	1.6	4
90	Neoadjuvant Chemoradiotherapy for Oral Cavity Cancer: Predictive Factors for Response and Interim Analysis of the Prospective INVERT-Trial. <i>Frontiers in Oncology</i> , 2022, 12, 817692.	2.8	4

#	ARTICLE	IF	CITATIONS
91	PTCH-1 and MDM2 expression in ameloblastoma from a West African sub-population: implication for chemotherapeutics. <i>Pan African Medical Journal</i> , 2015, 20, 140.	0.8	3
92	Multiwell three-dimensional systems enable in vivo screening of immune reactions to biomaterials: a new strategy toward translational biomaterial research. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 61.	3.6	3
93	Multinucleated Giant Cells Induced by a Silk Fibroin Construct Express Proinflammatory Agents: An Immunohistological Study. <i>Materials</i> , 2021, 14, 4038.	2.9	2
94	Cellular Response of Human Osteoblasts to Different Presentations of Deproteinized Bovine Bone. <i>Materials</i> , 2022, 15, 999.	2.9	2
95	Expression of CD34 and Maspin in ameloblastoma from a West African subpopulation. <i>Tumor Biology</i> , 2014, 35, 7727-7731.	1.8	1
96	Using bone repair materials in maxillofacial and skull surgery. , 2019, , 361-378.		1
97	Xeno-synthetic bone block includes cellular remnants: Acceptable components or lack of purification?. <i>International Journal of Growth Factors and Stem Cells in Dentistry</i> , 2018, 1, 70.	0.6	1
98	Relative expression of α -smooth muscle actin and matrix metalloproteinases-2 in ameloblastoma of a black African sub-population. <i>Annals of African Medicine</i> , 2015, 14, 188.	0.5	0
99	Primary reconstruction of neck defect after excision of metastatic melanoma of unknown primary site with regional pectoral myocutaneous flap. <i>Srpski Arhiv Za Celokupno Lekarstvo</i> , 2016, 144, 436-439.	0.2	0
100	Erratum to "Thermal treatment at 500°C significantly reduces the reaction to irregular tricalcium phosphate granules as foreign bodies: An in vivo study" [Acta Biomaterialia, 121 (2021) 621-636]. <i>Acta Biomaterialia</i> , 2022, , .	8.3	0
101	Fibrin immobilization vestibular extension (<i>FIVE</i>): A case series. <i>Clinical Implant Dentistry and Related Research</i> , 2022, , .	3.7	0