Gottfried Schmalz

List of Publications by Year
in descending order

73 papers	4,166 citations	94433 37 h-index	110387 64 g-index
74 all docs	74 docs citations	74 times ranked	4521 citing authors

#	Article	IF	Citations
1	Dentin Conditioning Codetermines Cell Fate in Regenerative Endodontics. Journal of Endodontics, 2011, 37, 1536-1541.	3.1	244
2	A review of adaptive mechanisms in cell responses towards oxidative stress caused by dental resin monomers. Biomaterials, 2013, 34, 4555-4563.	11.4	236
3	A Customized Self-Assembling Peptide Hydrogel for Dental Pulp Tissue Engineering. Tissue Engineering - Part A, 2012, 18, 176-184.	3.1	233
4	Biological interactions of dental cast alloys with oral tissues. Dental Materials, 2002, 18, 396-406.	3.5	222
5	Effect of N-acetyl-l-cysteine on ROS production and cell death caused by HEMA in human primary gingival fibroblasts. Biomaterials, 2006, 27, 1803-1809.	11.4	189
6	Influence of Root Canal Disinfectants on Growth Factor Release from Dentin. Journal of Endodontics, 2015, 41, 363-368.	3.1	179
7	Proteome analysis of glandular parotid and submandibular-sublingual saliva in comparison to whole human saliva by two-dimensional gel electrophoresis. Proteomics, 2006, 6, 1631-1639.	2.2	130
8	Triethylene glycol dimethacrylate induces large deletions in the hprt gene of V79 cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 1999, 438, 71-78.	1.7	108
9	Photodynamic biofilm inactivation by SAPYRâ€"An exclusive singlet oxygen photosensitizer. Free Radical Biology and Medicine, 2013, 65, 477-487.	2.9	106
10	The biocompatibility of non-amalgam dental filling materials. European Journal of Oral Sciences, 1998, 106, 696-706.	1.5	104
11	Influences of protein films on antibacterial or bacteria-repellent surface coatings in a model system using silicon wafers. Biomaterials, 2009, 30, 4921-4929.	11.4	98
12	The influence of glutathione on redox regulation by antioxidant proteins and apoptosis in macrophages exposed to 2-hydroxyethyl methacrylate (HEMA). Biomaterials, 2012, 33, 5177-5186.	11.4	95
13	Blue light kills Aggregatibacter actinomycetemcomitans due to its endogenous photosensitizers. Clinical Oral Investigations, 2014, 18, 1763-1769.	3.0	94
14	TEGDMA-induced oxidative DNA damage and activation of ATM and MAP kinases. Biomaterials, 2009, 30, 2006-2014.	11.4	90
15	Oxidative stress and cytotoxicity generated by dental composites in human pulp cells. Clinical Oral Investigations, 2012, 16, 215-224.	3.0	87
16	Release of prostaglandin E2, IL-6 and IL-8 from human oral epithelial culturemodels after exposure to compounds of dental materials. European Journal of Oral Sciences, 2000, 108, 442-448.	1.5	86
17	Biocompatibility of biomaterials â€“ Lessons learned and considerations for the design of novel materials. Dental Materials, 2017, 33, 382-393.	3.5	85
18	Toxicity parameters for cytotoxicity testing of dental materials in two different mammalian cell lines. European Journal of Oral Sciences, 1996, 104, 292-299.	1.5	84

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19	Improving Photodynamic Inactivation of Bacteria in Dentistry: Highly Effective and Fast Killing of Oral Key Pathogens with Novel Tooth-Colored Type-II Photosensitizers. Journal of Medicinal Chemistry, 2014, 57, 5157-5168.	6.4	84
20	Selective Influence of Dentin Thickness upon Cytotoxicity of Dentin Contacting Materials. Journal of Endodontics, 2005, 31, 396-399.	3.1	81
21	Pulp Development, Repair, and Regeneration: Challenges of the Transition from Traditional Dentistry to Biologically Based Therapies. Journal of Endodontics, 2014, 40, S2-S5.	3.1	81
22	Retrospective clinical investigation and survival analysis on ceramic inlays and partial ceramic crowns: results up to 7 years. Clinical Oral Investigations, 1998, 2, 161-167.	3.0	74
23	Proliferation of osteoblasts and fibroblasts on model surfaces of varying roughness and surface chemistry. Journal of Materials Science: Materials in Medicine, 2007, 18, 1895-1905.	3.6	69
24	Cell-free Approaches for Dental Pulp Tissue Engineering. Journal of Endodontics, 2014, 40, S41-S45.	3.1	69
25	An in vitro pulp chamber with three-dimensional cell cultures. Journal of Endodontics, 1999, 25, 24-29.	3.1	65
26	Resin monomer-induced differential activation of MAP kinases and apoptosis in mouse macrophages and human pulp cells. Biomaterials, 2010, 31, 2964-2975.	11.4	58
27	Epitheliumâ€fibroblast coâ€culture for assessing mucosal irritancy of metals used in dentistry. European Journal of Oral Sciences, 1997, 105, 86-91.	1.5	57
28	Cell Homing for Pulp Tissue Engineering with Endogenous Dentin Matrix Proteins. Journal of Endodontics, 2018, 44, 956-962.e2.	3.1	54
29	Cytotoxicity of Low pH Dentin-Bonding Agents in a Dentin Barrier Test In Vitro. Journal of Endodontics, 2002, 28, 188-192.	3.1	53
30	Mutagenic activity of structurally related oxiranes and siloranes in Salmonella typhimurium. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2002, 521, 19-27.	1.7	53
31	Evaluation of cell responses toward adhesives with different photoinitiating systems. Dental Materials, 2015, 31, 916-927.	3.5	52
32	Inhibition of cytokine and surface antigen expression in LPS-stimulated murine macrophages by triethylene glycol dimethacrylate. Biomaterials, 2009, 30, 1665-1674.	11.4	51
33	Clinical Perspectives of Pulp Regeneration. Journal of Endodontics, 2020, 46, S161-S174.	3.1	49
34	Reinforcement of experimental composite materials based on amorphous calcium phosphate with inert fillers. Dental Materials, 2014, 30, 1052-1060.	3.5	45
35	The impact of dendrimer-grafted modifications to model silicon surfaces on protein adsorption and bacterial adhesion. Biomaterials, 2011, 32, 9168-9179.	11.4	43
36	Function of MAPK and downstream transcription factors in monomer-induced apoptosis. Biomaterials, 2012, 33, 740-750.	11.4	40

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37	Cytotoxicity of Metal Cations used in Dental Cast Alloys. ATLA Alternatives To Laboratory Animals, 1997, 25, 323-330.	1.0	40
38	Clinical evaluation of packable composite resins in Class-II restorations. Clinical Oral Investigations, 2001, 5, 102-107.	3.0	36
39	Materials Science: Biological Aspects. Journal of Dental Research, 2002, 81, 660-663.	5.2	35
40	Influence of TEGDMA on the mammalian cell cycle in comparison with chemotherapeutic agents. Dental Materials, 2010, 26, 232-241.	3.5	35
41	Effect of the degree of conversion of resin-based composites on cytotoxicity, cell attachment, and gene expression. Dental Materials, 2019, 35, 1173-1193.	3.5	35
42	The influence of Ni(II) on surface antigen expression in murine macrophages. Biomaterials, 2009, 30, 1492-1501.	11.4	34
43	Bovine dental papilla-derived cells immortalized with HPV 18 E6/E7. European Journal of Oral Sciences, 2000, 108, 432-441.	1.5	31
44	Signaling Molecules and Pulp Regeneration. Journal of Endodontics, 2017, 43, S7-S11.	3.1	31
45	Surface-immobilized PAMAM-dendrimers modified with cationic or anionic terminal functions: Physicochemical surface properties and conformational changes after application of liquid interface stress. Journal of Colloid and Interface Science, 2012, 366, 179-190.	9.4	30
46	Salivary protein adsorption and Streptococccus gordonii adhesion to dental material surfaces. Dental Materials, 2013, 29, 1080-1089.	3.5	27
47	Environmental issues in dentistry - mercury. International Dental Journal, 1997, 47, 105-109.	2.6	26
48	Long-term water sorption and solubility of experimental bioactive composites based on amorphous calcium phosphate and bioactive glass. Dental Materials Journal, 2019, 38, 555-564.	1.8	25
49	Chemiluminescence-based detection and comparison of protein amounts adsorbed on differently modified silica surfaces. Analytical Biochemistry, 2006, 359, 194-202.	2.4	24
50	Flowable composites for restoration of non-carious cervical lesions: Results after five years. Dental Materials, 2017, 33, e428-e437.	3.5	22
51	Endodontic regeneration: hard shell, soft core. Odontology / the Society of the Nippon Dental University, 2021, 109, 303-312.	1.9	21
52	Photodynamic Inactivation of Root Canal Bacteria by Light Activation through Human Dental Hard and Simulated Surrounding Tissue. Frontiers in Microbiology, 2016, 7, 929.	3.5	19
53	Clinical evaluation of heat-pressed glass-ceramic inlays in vivo: 2-year results. Clinical Oral Investigations, 1997, 1, 27-34.	3.0	18
54	Clinical evaluation of different adhesive systems for restoring teeth with erosion lesions. Clinical Oral Investigations, 1998, 2, 58-66.	3.0	18

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55	Five hundred patients reporting on adverse effects from dental materials: Frequencies, complaints, symptoms, allergies. Dental Materials, 2018, 34, 1756-1768.	3.5	18
56	Flowable composites for restoration of non-carious cervical lesions: Three-year results. Dental Materials, 2017, 33, e136-e145.	3.5	17
57	Randomized clinical split-mouth study on the performance of CAD/CAM-partial ceramic crowns luted with a self-adhesive resin cement or a universal adhesive and a conventional resin cement after 39 months. Journal of Dentistry, 2021, 115, 103837.	4.1	16
58	Strategies to Improve Biocompatibility of Dental Materials. Current Oral Health Reports, 2014, 1, 222-231.	1.6	15
59	BPA from dental resin material: where are we going with restorative and preventive dental biomaterials?. Clinical Oral Investigations, 2014, 18, 347-349.	3.0	9
60	Alternatives to the Animal Testing of Medical Devices. ATLA Alternatives To Laboratory Animals, 1996, 24, 659-669.	1.0	9
61	Correlation of the mechanical and biological response in light-cured RBCs to receiving a range of radiant exposures: Effect of violet light. Journal of Dentistry, 2021, 105, 103568.	4.1	7
62	Development of standard protocols for biofilm-biomaterial interface testing. , 2022, 1, 100008.		7
63	Trodimenzionalne kulture ljudskih stanica uzgojene radi testiranja citotoksiÄnosti stomatoloÅ¡kih materijala. Acta Stomatologica Croatica, 2014, 48, 99-108.	1.0	5
64	Effect of bleaching agent extracts on murine macrophages. Clinical Oral Investigations, 2018, 22, 1771-1781.	3.0	4
65	Clinical research update. Clinical Oral Investigations, 2003, 7, 1-1.	3.0	1
66	Non-allergy-related dental and orofacial findings in 625 patients reporting on adverse effects from dental materials. Dental Materials, 2021, 37, 1402-1415.	3.5	1
67	Three-Dimensional Human Cell Cultures for Cytotoxicity Testing of Dental Filling Materials. Acta Stomatologica Croatica, 2014, 48, 99-108.	1.0	1
68	Welcome on Board. Clinical Oral Investigations, 2004, 8, 1-1.	3.0	0
69	Clinical Oral Investigations manuscript processing goes online. Clinical Oral Investigations, 2004, 8, 177-178.	3.0	0
70	Handing over of the baton. Clinical Oral Investigations, 2006, 10, 95-95.	3.0	0
71	Welcome, thank you, and good luck!. Clinical Oral Investigations, 2016, 20, 1367-1368.	3.0	0
72	Regulation of Dental Materials. , 2021, , 1-31.		0

#	Article	IF	Citations
73	Regulation of Dental Materials. , 2021, , 1153-1183.		0