Presence of arsenic in different types of MTA and white and gray Portland cement

DOI: 10.1016/j.tripleo.2008.07.018
Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2008, 106, 909-13.

#	Paper	IF	Citations
86	Radiographic effect of different radiopacifiers on a potential retrograde filling material. *Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics*, **2009**, 108, 628-32		53
85	Evaluation of the radiopacity of some commercial and experimental root-end filling materials. *Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics*, **2009**, 108, e35-8		40
84	Understanding mineral trioxide aggregate/Portland-cement: a review of literature and background factors. *European Archives of Paediatric Dentistry: Official Journal of the European Academy of Paediatric Dentistry*, **2009**, 10, 93-7	2.7	36
83	Mineral trioxide aggregate: a comprehensive literature review--Part III: Clinical applications, drawbacks, and mechanism of action. *Journal of Endodontics*, **2010**, 36, 400-13	4.7	801
82	Analysis of arsenic in gray and white mineral trioxide aggregates by using atomic absorption spectrometry. *Journal of Endodontics*, **2010**, 36, 1988-90	4.7	22
81	Analysis of heavy metal contents in gray and white MTA and 2 kinds of Portland cement: a preliminary study. *Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics*, **2010**, 109, 642-6		36
80	Evaluation of the physical and chemical properties of two commercial and three experimental root-end filling materials. *Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics*, **2010**, 110, 250-6		75
79	Radiopacity evaluation of calcium aluminate cement containing different radiopacifying agents. *Journal of Endodontics*, **2011**, 37, 67-71	4.7	32
78	Heavy metal analysis of ortho MTA and ProRoot MTA. *Journal of Endodontics*, **2011**, 37, 1673-6	4.7	54
77	Dynamic sealing ability of MTA root canal sealer. *International Endodontic Journal*, **2011**, 44, 9-20	5.4	47
76	"MTA"-an Hydraulic Silicate Cement: review update and setting reaction. *Dental Materials*, **2011**, 27, 407-22	5.7	143
75	Characterization and hydration kinetics of tricalcium silicate cement for use as a dental biomaterial. *Dental Materials*, **2011**, 27, 836-44	5.7	106
74	Incorporation of anti-inflammatory agent into calcium hydroxide pulp capping material: an in vitro study of physical and mechanical properties. *Dental Materials Journal*, **2012**, 31, 32-9	2.5	8
73	Evaluation of cytotoxicity and up-regulation of gelatinases in fibroblast cells by three root repair materials. *International Endodontic Journal*, **2012**, 45, 815-20	5.4	21
72	Reaction of rat subcutaneous connective tissue to a mineral trioxide aggregate-based and a zinc oxide and eugenol sealer. *Journal of Endodontics*, **2012**, 38, 1233-8	4.7	32
71	Effect of different radiopacifying agents on the physicochemical properties of white Portland cement and white mineral trioxide aggregate. *Journal of Endodontics*, **2012**, 38, 394-7	4.7	64
70	Mineral trioxide aggregate-based endodontic sealer stimulates hydroxyapatite nucleation in human osteoblast-like cell culture. *Journal of Endodontics*, **2012**, 38, 971-6	4.7	74

69	Chemical characteristics of mineral trioxide aggregate and its hydration reaction. *Restorative Dentistry & Endodontics*, **2012**, 37, 188-93	1.5	30
68	Quantitative evaluation by glucose diffusion of microleakage in aged calcium silicate-based open-sandwich restorations. *International Journal of Dentistry*, **2012**, 2012, 105863	1.9	48
67	The effect of curing conditions on the physical properties of tricalcium silicate cement for use as a dental biomaterial. *International Endodontic Journal*, **2012**, 45, 326-36	5.4	42
66	Characterization and analyses of acid-extractable and leached trace elements in dental cements. *International Endodontic Journal*, **2012**, 45, 737-43	5.4	91
65	Biocompatibility of BioAggregate and mineral trioxide aggregate on the liver and kidney. *International Endodontic Journal*, **2013**, 46, 730-7	5.4	30
64	Investigation of the physical properties of tricalcium silicate cement-based root-end filling materials. *Dental Materials*, **2013**, 29, e20-8	5.7	205
63	Analysis of six heavy metals in Ortho mineral trioxide aggregate and ProRoot mineral trioxide aggregate by inductively coupled plasma-optical emission spectrometry. *Australian Endodontic Journal*, **2013**, 39, 126-30	1.7	25
62	Cytotoxicity and physical properties of tricalcium silicate-based endodontic materials. *Restorative Dentistry & Endodontics*, **2014**, 39, 89-94	1.5	27
61	Genotoxicity of three endodontic sealers by single cell gel-electrophoresis/comet assay. *Tanta Dental Journal*, **2014**, 11, 85-92	0.2	4
60	Introduction to Mineral Trioxide Aggregate. **2014**, 1-17		
59	Material Modifications and Related Materials. **2014**, 131-149		1
58	Products and Distinctions. **2014**, 151-172		3
57	Composition and Setting Reaction. **2014**, 19-36		0
56	Properties of Hydrated Mineral Trioxide Aggregate. **2014**, 37-59		1
55	Comparative evaluation of platelet-rich fibrin and mineral trioxide aggregate as pulpotomy agents in permanent teeth with incomplete root development: a randomized controlled trial. *Journal of Endodontics*, **2014**, 40, 599-605	4.7	16
54	Calcium Silicate-Based Cements. **2014**, 281-332		4
53	Chemical Properties of MTA. **2014**, 17-35		2
52	Biodentine and mineral trioxide aggregate induce similar cellular responses in a fibroblast cell line. *Journal of Endodontics*, **2014**, 40, 406-11	4.7	49

51	Solubility and disintegration of new calcium aluminate cement (EndoBinder) containing different radiopacifying agents. *Journal of Endodontics*, **2014**, 40, 261-5	4.7	20
50	Trace metal contents of three tricalcium silicate materials: MTA Angelus, Micro Mega MTA and Bioaggregate. *International Endodontic Journal*, **2014**, 47, 704-10	5.4	29
49	Mineral trioxide aggregate: present and future developments. *Endodontic Topics*, **2015**, 32, 31-46		27
48	Rat subcutaneous tissue response to calcium silicate containing different arsenic concentrations. *Journal of Applied Oral Science*, **2015**, 23, 42-8	3.3	8
47	Characterization of un-hydrated and hydrated BioAggregate and MTA Angelus *Clinical Oral Investigations*, **2015**, 19, 689-98	4.2	33
46	Physicochemical properties of newly developed bioactive glass cement and its effects on various cells. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2015**, 103, 373-80	3.5	9
45	The setting mechanism of mineral trioxide aggregate. *Journal of Istanbul University Faculty of Dentistry*, **2016**, 50, 65-72		1
44	In Vitro Cytotoxicity of Calcium Silicate-Based Endodontic Cement as Root-End Filling Materials. *Scientifica*, **2016**, 2016, 9203932	2.6	19
43	Determination of trace elements in rat organs implanted with endodontic repair materials by ICP-MS. *Journal of Materials Science: Materials in Medicine*, **2016**, 27, 46	4.5	15
42	Development of novel tricalcium silicate-based endodontic cements with sintered radiopacifier phase. *Clinical Oral Investigations*, **2016**, 20, 967-82	4.2	9
41	Calcium silicate-based cements: composition, properties, and clinical applications. *Journal of Investigative and Clinical Dentistry*, **2017**, 8, e12195	2.3	78
40	Modified tricalcium silicate cement formulations with added zirconium oxide. *Clinical Oral Investigations*, **2017**, 21, 895-905	4.2	24
39	Assessment of radioactivity and trace elements of cement produced in Saudi Arabia. *Environmental Earth Sciences*, **2017**, 76, 1	2.9	3
38	Will Bioceramics be the Future Root Canal Filling Materials?. *Current Oral Health Reports*, **2017**, 4, 228-238	2.2	11
37	Cytotoxicity and biocompatibility of resin-free and resin-modified direct pulp capping materials: A state-of-the-art review. *Dental Materials Journal*, **2017**, 36, 1-7	2.5	25
36	Current trends and future perspectives of dental pulp capping materials: A systematic review. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2018**, 106, 1358-1368	3.5	31
35	Biocompatibility of new bioactive resin composite versus calcium silicate cements: an animal study. *BMC Oral Health*, **2019**, 19, 194	3.7	15
34	Investigation of the effect of the water to powder ratio on hydraulic cement properties. *Dental Materials*, **2019**, 35, 1146-1154	5.7	13

33	Bioactive Glass-Based Endodontic Sealer as a Promising Root Canal Filling Material without Semisolid Core Materials. *Materials*, **2019**, 12,	3.5	19
32	Current and future options for dental pulp therapy. *Japanese Dental Science Review*, **2019**, 55, 5-11	6.8	43
31	In vitro and in vivo effects of a novel bioactive glass-based cement used as a direct pulp capping agent. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 161-168	3.5	19
30	The Hormetic Effect of Arsenic Trioxide on Rat Pulpal Cells: An In Vitro Preliminary Study. *European Journal of Dentistry*, **2021**, 15, 222-227	2.6	1
29	Classification of Hydraulic Cements Used in Dentistry. *Frontiers in Dental Medicine*, **2020**, 1,	1.8	11
28	Biological assessment of a new ready-to-use hydraulic sealer. *Restorative Dentistry & Endodontics*, **2021**, 46, e21	1.5	1
27	Materials and Clinical Techniques for Endodontic Therapy of Deciduous Teeth. **2021**, 263-287		
26	The Effect of Calcium-Silicate Cements on Reparative Dentinogenesis Following Direct Pulp Capping on Animal Models. *Molecules*, **2021**, 26,	4.8	7
25	Removal of decidedly lethal metal arsenic from water using metal organic frameworks: a critical review. *Reviews in Inorganic Chemistry*, **2021**,	2.4	4
24	Bioactive Materials for Direct and Indirect Restorations: Concepts and Applications. *Frontiers in Dental Medicine*, **2021**, 2,	1.8	0
23	Calcium silicate and calcium aluminate cements for dentistry reviewed. *Journal of the American Ceramic Society*,	3.8	1
22	Hydraulic cements for various intra-coronal applications: Part 1. *Dental Update*, **2021**, 48, 653-660	0.3	3
21	Healing of apical rarefaction of three nonvital open apex anterior teeth using a white portland cement apical plug. *Contemporary Clinical Dentistry*, **2012**, 3, S177-81	0.6	4
20	Efficacy of Mineral Trioxide Aggregate and Biodentine as Apical Barriers in Immature Permanent Teeth: A Microbiological Study. *International Journal of Clinical Pediatric Dentistry*, **2020**, 13, 656-662	0.8	0
19	In Vitro Mitigation of Arsenic-Induced Toxicity by Reduced Glutathione in Rat Pulp Cells. *European Endodontic Journal*, **2020**, 5, 277-281	1.5	
18	BiodentineTM Microstructure and Composition. **2022**, 1-10		
17	Current Classification of Bioceramic Materials in Endodontics. **2021**, 1-6		0
16	Assessment of antifungal activity of Proroot mineral trioxide aggregate and mineral trioxide aggregate-Angelus. *Dental Research Journal*, **2012**, 9, 256-60	0.8	3

15	Apical Sealing Ability of a Novel Material: Analysis by Fluid Filtration Technique. *Acta Stomatologica Croatica*, **2014**, 48, 132-9	1.4	8
14	Push-out bond strength of different types of mineral trioxide aggregate in root dentin. *International Journal of Health Sciences*, **2018**, 12, 66-69	1.1	
13	Root canal obturation materials. **2022**, 83-97		0
12	Portland cement-based formulations: Advances and modifications. **2022**, 227-250		
11	Portland Cement: An Overview as a Root Repair Material.. *BioMed Research International*, **2022**, 2022, 3314912	3	0
10	GRAFEN NANOPLATELET-MINERAL TRİOKSİD AGREGAT KARIŞIMININ RAT DİŞİNDE PULPA KUAFAJ MATERYALİ OLARAK DEĞERLENDİRİLMESİ. *Sağlık Bilimleri Üniversitesi Sağlık Hizmetleri Meslek Yüksek Okulu Dergisi*,	0.2	
9	Effects of calcium silicate cements on neuronal conductivity. *Restorative Dentistry & Endodontics*, 47,	1.5	
8	Clinical Radiographic Evaluation of 3Mixtatin and MTA in Primary Teeth Pulpotomies: A Randomized Controlled. *International Journal of Clinical Pediatric Dentistry*, **2022**, 15, S80-S86	0.8	
7	Tricalcium silicate cement sealers: Do the potential benefits of bioactivity justify the drawbacks?. *Journal of the American Dental Association*, **2022**,	1.9	1
6	Effect of Mesoporous Silica-Encapsulated Dexamethasone-Loaded na-HAp on the Property and Odontoblastic Differentiation of Human Dental Pulp Stem Cells. *Science of Advanced Materials*, **2022**, 14, 414-422	2.3	
5	Hydration behavior of an experimental tricalcium silicate/tetracalcium phosphate bio-cement in Streptococcus thermophiles bacterial solution in comparison with distilled water used as a root canal furcation perforation repair material. *Bulletin of the National Research Centre*, **2022**, 46,	3	
4	Hydraulic Calcium Silicate-based Endodontic Cements. **2022**, 311-346		0
3	Mineral Trioxide Aggregates (MTA) in Dentistry: A Review on Chemistry, Synthesis Methods, and Critical Properties.		0
2	Fabrication and characterization of novel rapid-setting and anti-washout bioactive glass cements for direct pulp capping. **2023**, 49, 17827-17837		0
1	Rheological Properties and Setting Kinetics of Bioceramic Hydraulic Cements: ProRoot MTA versus RS+. **2023**, 16, 3174		0