

# John W Nicholson

## List of Publications by Citations

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96  
papers

2,095  
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24  
h-index

43  
g-index

99  
ext. papers

2,508  
ext. citations

5.1  
avg, IF

5.76  
L-index

#	Paper	IF	Citations
96	Chemistry of glass-ionomer cements: a review. <i>Biomaterials</i> , <b>1998</b> , 19, 485-94	15.6	293
95	A Review of Glass-Ionomer Cements for Clinical Dentistry. <i>Journal of Functional Biomaterials</i> , <b>2016</b> , 7,	4.8	201
94	The biocompatibility of resin-modified glass-ionomer cements for dentistry. <i>Dental Materials</i> , <b>2008</b> , 24, 1702-8	5.7	92
93	Polyacid-modified composite resins ("compomers") and their use in clinical dentistry. <i>Dental Materials</i> , <b>2007</b> , 23, 615-22	5.7	78
92	Titanium Alloys for Dental Implants: A Review. <i>Prosthesis</i> , <b>2020</b> , 2, 100-116	4.7	76
91	Buffering and ion-release by a glass-ionomer cement under near-neutral and acidic conditions. <i>Biomaterials</i> , <b>2002</b> , 23, 2783-8	15.6	75
90	The biocompatibility of glass-poly(alkenoate) (Glass-Ionomer) cements: a review. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>1991</b> , 2, 277-85	3.5	75
89	Studies on the setting chemistry of glass-ionomer cements. <i>Clinical Materials</i> , <b>1991</b> , 7, 289-293		54
88	Adhesive dental materials—A review. <i>International Journal of Adhesion and Adhesives</i> , <b>1998</b> , 18, 229-236	3.4	45
87	Ion release by resin-modified glass-ionomer cements into water and lactic acid solutions. <i>Journal of Dentistry</i> , <b>2006</b> , 34, 539-43	4.8	43
86	The rate of change of pH of lactic acid exposed to glass-ionomer dental cements. <i>Biomaterials</i> , <b>2000</b> , 21, 1989-93	15.6	42
85	Glass ionomer cements in pediatric dentistry: review of the literature. <i>Pediatric Dentistry (discontinued)</i> , <b>2002</b> , 24, 423-9	1.2	39
84	Review paper: Role of aluminum in glass-ionomer dental cements and its biological effects. <i>Journal of Biomaterials Applications</i> , <b>2009</b> , 24, 293-308	2.9	38
83	Adhesion of glass-ionomer cements to teeth: A review. <i>International Journal of Adhesion and Adhesives</i> , <b>2016</b> , 69, 33-38	3.4	37
82	Ag <sup>+</sup> - and Zn <sup>2+</sup> -exchange kinetics and antimicrobial properties of 11 fluorobermorites. <i>Journal of the European Ceramic Society</i> , <b>2009</b> , 29, 1109-1117	6	36
81	A preliminary study of the effect of glass-ionomer and related dental cements on the pH of lactic acid storage solutions. <i>Biomaterials</i> , <b>1999</b> , 20, 155-8	15.6	36
80	Atomic and vibrational origins of mechanical toughness in bioactive cement during setting. <i>Nature Communications</i> , <b>2015</b> , 6, 8631	17.4	34

79	Enamel alteration following tooth bleaching and remineralization. <i>Journal of Microscopy</i> , <b>2016</b> , 262, 232-44		33
78	Effect of denture cleansers on chemical and mechanical behavior of selected soft lining materials. <i>Dental Materials</i> , <b>2011</b> , 27, 281-90	5.7	32
77	Adhesive dental materials and their durability. <i>International Journal of Adhesion and Adhesives</i> , <b>2000</b> , 20, 11-16	3.4	30
76	Maturation processes in glass-ionomer dental cements. <i>Acta Biomaterialia Odontologica Scandinavica</i> , <b>2018</b> , 4, 63-71	4	28
75	Remineralization of demineralized enamel by toothpastes: a scanning electron microscopy, energy dispersive X-ray analysis, and three-dimensional stereo-micrographic study. <i>Microscopy and Microanalysis</i> , <b>2013</b> , 19, 587-95	0.5	27
74	Incorporation of crosslinking agents into poly(vinyl phosphonic acid) as a route to glass-polyalkenoate cements of improved compressive strength. <i>Journal of Materials Chemistry</i> , <b>1993</b> , 3, 361-365		27
73	Ion-release, dissolution and buffering by zinc phosphate dental cements. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2003</b> , 14, 601-4	4.5	26
72	The use of organic compounds of phosphorus in clinical dentistry. <i>Biomaterials</i> , <b>1996</b> , 17, 2023-30	15.6	23
71	Polymerization behavior of an organophosphorus monomer for use in dental restorative materials. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 565-569	2.9	21
70	Heat transfer properties and thermal cure of glass-ionomer dental cements. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 249	4.5	20
69	The incorporation of nanoparticles into conventional glass-ionomer dental restorative cements. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 392-406	0.5	20
68	A preliminary study of experimental polyacid-modified composite resins (compomers) containing vinyl phosphonic acid. <i>Dental Materials</i> , <b>2005</b> , 21, 491-7	5.7	20
67	Thermal behaviour of films of partially neutralized poly(acrylic acid). 1: Influence of metal ions. <i>British Polymer Journal</i> , <b>1987</b> , 19, 67-72		20
66	Enhancing the Mechanical Properties of Glass-Ionomer Dental Cements: A Review. <i>Materials</i> , <b>2020</b> , 13,	3.5	19
65	The effect of antimicrobial additives on the properties of dental glass-ionomer cements: a review. <i>Acta Biomaterialia Odontologica Scandinavica</i> , <b>2019</b> , 5, 9-21	4	18
64	Marginal adaptation and performance of bioactive dental restorative materials in deciduous and young permanent teeth. <i>Journal of Applied Oral Science</i> , <b>2008</b> , 16, 1-6	3.3	17
63	Thermal behaviour of films of partially neutralized poly(acrylic acid). 3: Effect of magnesium and calcium ions. <i>British Polymer Journal</i> , <b>1988</b> , 20, 97-101		17
62	Kinetic studies of the effect of varnish on water loss by glass-ionomer cements. <i>Dental Materials</i> , <b>2007</b> , 23, 1549-52	5.7	16

61	Positive correlation between fluoride release and acid erosion of restorative glass-ionomer cements. <i>Dental Materials</i> , <b>2019</b> , 35, 135-143	5.7	16
60	Changes in compressive strength on ageing in glass polyalkenoate (glass-ionomer) cements prepared from acrylic/maleic acid copolymers. <i>Biomaterials</i> , <b>1997</b> , 18, 59-62	15.6	15
59	The Conversion of Carboxylic Acids to Ketones: A Repeated Discovery. <i>Journal of Chemical Education</i> , <b>2004</b> , 81, 1362	2.4	15
58	Maturation affects fluoride uptake by glass-ionomer dental cements. <i>Dental Materials</i> , <b>2012</b> , 28, e1-5	5.7	14
57	Ion migration from fluoride-releasing dental restorative materials into dental hard tissues. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 1811-21	4.5	14
56	Physical property investigation of contemporary glass ionomer and resin-modified glass ionomer restorative materials. <i>Clinical Oral Investigations</i> , <b>2019</b> , 23, 1295-1308	4.2	13
55	The synthesis and tin-119m Mössbauer spectra of some tetraalkylammonium di- and tri-organohalogenostannate(IV) complexes. <i>Journal of Organometallic Chemistry</i> , <b>1981</b> , 219, 309-316	2.3	13
54	Assessment of the Impact of the Addition of Nanoparticles on the Properties of Glass-Ionomer Cements. <i>Materials</i> , <b>2020</b> , 13,	3.5	12
53	Kinetic studies of water uptake and loss in glass-ionomer cements. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 1723-7	4.5	12
52	A study of cements formed by aqueous lactic acid and aluminosilicate glass. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2002</b> , 13, 417-9	4.5	12
51	Glass-ionomer cements in orthopaedic surgery: design of laboratory tests. <i>Clinical Materials</i> , <b>1991</b> , 8, 125-9		12
50	Shear bond strengths of glass-ionomer cements to sound and to prepared carious dentine. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2007</b> , 18, 845-9	4.5	10
49	The role of the ionomer glass component in polyacid-modified composite resin dental restorative materials. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2004</b> , 15, 751-4	4.5	10
48	Metal salts interaction with acrylic acid/maleic acid copolymer: An infrared spectroscopic study. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 78, 1680-1684	2.9	10
47	Effect of operator skill in determining the physical properties of glass-ionomer cements. <i>Clinical Materials</i> , <b>1994</b> , 15, 169-172		10
46	Qualitative assessment of microstructure and Hertzian indentation failure in biocompatible glass ionomer cements. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 677-85	4.5	9
45	The effect of trivalent metal nitrates on the properties of dental cements made from poly(acrylic acid). <i>Journal of Applied Polymer Science</i> , <b>1998</b> , 70, 2353-2359	2.9	9
44	Ion release by endodontic grade glass-ionomer cement. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2007</b> , 18, 649-52	4.5	9

43	Fluoride release and uptake in enhanced bioactivity glass ionomer cement ("glass carbomer") compared with conventional and resin-modified glass ionomer cements. <i>Journal of Applied Oral Science</i> , <b>2019</b> , 27, e20180230	3.3	8
42	Aluminium and fluoride release into artificial saliva from dental restoratives placed in teeth. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 3163-7	4.5	8
41	Scanning electron microscopy and energy dispersive X-ray study of a recovered dental implant. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2006</b> , 17, 277-9	4.5	8
40	Release of sodium fusidate from glass-ionomer dental cement. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2010</b> , 21, 1997-2000	4.5	7
39	The Chemistry of Modern Dental Filling Materials. <i>Journal of Chemical Education</i> , <b>1999</b> , 76, 1497	2.4	7
38	Polyelectrolyte materials ¶ reflections on a highly charged topic. <i>Chemical Society Reviews</i> , <b>1994</b> , 23, 53	58.5	7
37	The early history of organotin chemistry. <i>Journal of Chemical Education</i> , <b>1989</b> , 66, 621	2.4	7
36	Thermal behaviour of films of partially neutralized poly(acrylic acid). 2: The influence of univalent cations. <i>British Polymer Journal</i> , <b>1987</b> , 19, 449-452		7
35	The behaviour of thermoset polymers under fire conditions. <i>Fire and Materials</i> , <b>1983</b> , 7, 89-95	1.8	7
34	A new route to tetraorganotin compounds. <i>Journal of Organometallic Chemistry</i> , <b>1982</b> , 233, 169-172	2.3	7
33	The effect of petroleum jelly, light-cured varnish and different storage media on the flexural strength of glass ionomer dental cements. <i>Acta Biomaterialia Odontologica Scandinavica</i> , <b>2016</b> , 2, 55-59	4	6
32	Adhesion of resin-modified glass-ionomer cements may affect the integrity of tooth structure in the open sandwich technique. <i>Dental Materials</i> , <b>2014</b> , 30, e301-5	5.7	6
31	A revised classification for direct tooth-colored restorative materials. <i>Quintessence International</i> , <b>2009</b> , 40, 691-7	2	6
30	Fluoride-Releasing Dental Restorative Materials: An Update*. <i>Balkan Journal of Dental Medicine</i> , <b>2014</b> , 18, 60-69	0.4	5
29	A preliminary study of the release of quaternary ammonium antimicrobial compounds from acrylic bone cement. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2009</b> , 20, 1579-83	4.5	5
28	Correlation between mechanical properties and stabilization time of chemical bonds in glass-ionomer cements. <i>Brazilian Oral Research</i> , <b>2020</b> , 34, e053	2.6	5
27	Influence of external energy sources on the dynamic setting process of glass-ionomer cements. <i>Dental Materials</i> , <b>2019</b> , 35, 450-456	5.7	4
26	Direct and transdentinal (indirect) antibacterial activity of commercially available dental gel formulations against <i>Streptococcus mutans</i> . <i>Medical Principles and Practice</i> , <b>2013</b> , 22, 397-401	2.1	4

25	Current trends in biomaterials. <i>Materials Today</i> , <b>1998</b> , 1, 6-8	21.8	4
24	Water sorption/desorption in polyacid-modified composite resins for dentistry. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 1713-7	4.5	4
23	The kinetics of water loss from zinc phosphate and zinc polycarboxylate dental cements. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 1719-22	4.5	4
22	The effect of temperature and ionic solutes on the fluoride release and recharge of glass-ionomer cements. <i>Dental Materials</i> , <b>2020</b> , 36, e9-e14	5.7	4
21	Kinetics of ion release from a conventional glass-ionomer cement. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2021</b> , 32, 30	4.5	4
20	Release of antimicrobial compounds from a zinc oxide-chelate cement. <i>Journal of Oral Science</i> , <b>2018</b> , 60, 24-28	1.5	4
19	Zinc polycarboxylate dental cement for the controlled release of an active organic substance: proof of concept. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2010</b> , 21, 1249-53	4.5	3
18	A preliminary study of the interaction of glass-ionomer dental cements with amino acids. <i>Dental Materials</i> , <b>2006</b> , 22, 133-7	5.7	3
17	Special topics in polymer chemistry. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 3867		3
16	The interaction of lactic acid-glass cements with aqueous solutions. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2004</b> , 15, 151-4	4.5	3
15	Glass polyalkenoate dental cements based on physical blends of poly(acrylic acid) and poly(vinyl phosphonic acid). <i>Polymer International</i> , <b>1994</b> , 34, 81-88	3.3	3
14	Thermal behaviour of partially neutralised ethylene-maleic acid copolymer. <i>British Polymer Journal</i> , <b>1989</b> , 21, 513-517		3
13	Investigation of the direct synthesis of tetrabutyltin from butyl chloride. <i>Journal of Organometallic Chemistry</i> , <b>1982</b> , 233, 173-183	2.3	3
12	The interaction of polyacid-modified composite resins (compomers) with aqueous fluoride solutions. <i>Journal of Applied Oral Science</i> , <b>2009</b> , 17, 216-9	3.3	2
11	Emerging Ethical Issues in Restorative Dentistry. <i>New Bioethics</i> , <b>2017</b> , 23, 236-248	1	1
10	Martha Whiteley of Imperial College, London: A Pioneering Woman Chemist. <i>Journal of Chemical Education</i> , <b>2012</b> , 89, 598-601	2.4	1
9	Reflections on the ethics of biomaterials science. <i>New Bioethics</i> , <b>2013</b> , 19, 54-63	1	1
8	Compomers. <i>Journal of Esthetic and Restorative Dentistry</i> , <b>2008</b> , 20, 3-4	3.5	1

7	Glass-ionomer dental cements as novel solid-state buffers. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 3570-3574	5.5	1
6	A cancellation theorem for modules over integral group rings. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , <b>2021</b> , 171, 317-327	0.7	1
5	Translucency parameter of conventional restorative glass-ionomer cements. <i>Journal of Esthetic and Restorative Dentistry</i> , <b>2021</b> , 33, 935-942	3.5	1
4	Release of cetyl pyridinium chloride from fatty acid chelate temporary dental cement. <i>Acta Biomaterialia Odontologica Scandinavica</i> , <b>2016</b> , 2, 1-6	4	1
3	Determination of chemical species of fluoride during uptake mechanism of glass-ionomer cements with NMR spectroscopy. <i>Dental Materials</i> , <b>2021</b> , 37, 1176-1182	5.7	1
2	Critical Appraisal. <i>Journal of Esthetic and Restorative Dentistry</i> , <b>1999</b> , 11, 223-227	3.5	0
1	Studies of the early stages of the dynamic setting process of chemically activated restorative glass-ionomer cements. <i>Biomaterial Investigations in Dentistry</i> , <b>2021</b> , 8, 39-47	2	