# John W Nicholson

## List of Publications by Year in Descending Order



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| 96 papers | 2,095 citations | 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 | Glass-ionomer dental cements as novel solid-state buffers. *Journal of Materials Research and Technology*, **2021**, 15, 3570-3574 | 5.5 | 1 |
| 95 | A cancellation theorem for modules over integral group rings. *Mathematical Proceedings of the Cambridge Philosophical Society*, **2021**, 171, 317-327 | 0.7 | 1 |
| 94 | Translucency parameter of conventional restorative glass-ionomer cements. *Journal of Esthetic and Restorative Dentistry*, **2021**, 33, 935-942 | 3.5 | 1 |
| 93 | Kinetics of ion release from a conventional glass-ionomer cement. *Journal of Materials Science: Materials in Medicine*, **2021**, 32, 30 | 4.5 | 4 |
| 92 | Studies of the early stages of the dynamic setting process of chemically activated restorative glass-ionomer cements. *Biomaterial Investigations in Dentistry*, **2021**, 8, 39-47 | 2 | |
| 91 | Determination of chemical species of fluoride during uptake mechanism of glass-ionomer cements with NMR spectroscopy. *Dental Materials*, **2021**, 37, 1176-1182 | 5.7 | 1 |
| 90 | Enhancing the Mechanical Properties of Glass-Ionomer Dental Cements: A Review. *Materials*, **2020**, 13, | 3.5 | 19 |
| 89 | Titanium Alloys for Dental Implants: A Review. *Prosthesis*, **2020**, 2, 100-116 | 4.7 | 76 |
| 88 | Assessment of the Impact of the Addition of Nanoparticles on the Properties of Glass-Ionomer Cements. *Materials*, **2020**, 13, | 3.5 | 12 |
| 87 | Correlation between mechanical properties and stabilization time of chemical bonds in glass-ionomer cements. *Brazilian Oral Research*, **2020**, 34, e053 | 2.6 | 5 |
| 86 | The effect of temperature and ionic solutes on the fluoride release and recharge of glass-ionomer cements. *Dental Materials*, **2020**, 36, e9-e14 | 5.7 | 4 |
| 85 | Influence of external energy sources on the dynamic setting process of glass-ionomer cements. *Dental Materials*, **2019**, 35, 450-456 | 5.7 | 4 |
| 84 | The effect of antimicrobial additives on the properties of dental glass-ionomer cements: a review. *Acta Biomaterialia Odontologica Scandinavica*, **2019**, 5, 9-21 | 4 | 18 |
| 83 | Fluoride release and uptake in enhanced bioactivity glass ionomer cement ("glass carbomer") compared with conventional and resin-modified glass ionomer cements. *Journal of Applied Oral Science*, **2019**, 27, e20180230 | 3.3 | 8 |
| 82 | Physical property investigation of contemporary glass ionomer and resin-modified glass ionomer restorative materials. *Clinical Oral Investigations*, **2019**, 23, 1295-1308 | 4.2 | 13 |
| 81 | Positive correlation between fluoride release and acid erosion of restorative glass-ionomer cements. *Dental Materials*, **2019**, 35, 135-143 | 5.7 | 16 |
| 80 | Maturation processes in glass-ionomer dental cements. *Acta Biomaterialia Odontologica Scandinavica*, **2018**, 4, 63-71 | 4 | 28 |

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| 79 | Release of antimicrobial compounds from a zinc oxide-chelate cement. *Journal of Oral Science*, **2018**, 60, 24-28 | 1.5 | 4 |
| 78 | Emerging Ethical Issues in Restorative Dentistry. *New Bioethics*, **2017**, 23, 236-248 | 1 | 1 |
| 77 | The effect of petroleum jelly, light-cured varnish and different storage media on the flexural strength of glass ionomer dental cements. *Acta Biomaterialia Odontologica Scandinavica*, **2016**, 2, 55-59 | 4 | 6 |
| 76 | A Review of Glass-Ionomer Cements for Clinical Dentistry. *Journal of Functional Biomaterials*, **2016**, 7, | 4.8 | 201 |
| 75 | Enamel alteration following tooth bleaching and remineralization. *Journal of Microscopy*, **2016**, 262, 232-44 | 1.9 | 33 |
| 74 | Adhesion of glass-ionomer cements to teeth: A review. *International Journal of Adhesion and Adhesives*, **2016**, 69, 33-38 | 3.4 | 37 |
| 73 | Release of cetyl pyridinium chloride from fatty acid chelate temporary dental cement. *Acta Biomaterialia Odontologica Scandinavica*, **2016**, 2, 1-6 | 4 | 1 |
| 72 | Heat transfer properties and thermal cure of glass-ionomer dental cements. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 249 | 4.5 | 20 |
| 71 | Atomic and vibrational origins of mechanical toughness in bioactive cement during setting. *Nature Communications*, **2015**, 6, 8631 | 17.4 | 34 |
| 70 | The incorporation of nanoparticles into conventional glass-ionomer dental restorative cements. *Microscopy and Microanalysis*, **2015**, 21, 392-406 | 0.5 | 20 |
| 69 | Adhesion of resin-modified glass-ionomer cements may affect the integrity of tooth structure in the open sandwich technique. *Dental Materials*, **2014**, 30, e301-5 | 5.7 | 6 |
| 68 | Fluoride-Releasing Dental Restorative Materials: An Update*. *Balkan Journal of Dental Medicine*, **2014**, 18, 60-69 | 0.4 | 5 |
| 67 | Direct and transdentinal (indirect) antibacterial activity of commercially available dental gel formulations against Streptococcus mutans. *Medical Principles and Practice*, **2013**, 22, 397-401 | 2.1 | 4 |
| 66 | Reflections on the ethics of biomaterials science. *New Bioethics*, **2013**, 19, 54-63 | 1 | 1 |
| 65 | Remineralization of demineralized enamel by toothpastes: a scanning electron microscopy, energy dispersive X-ray analysis, and three-dimensional stereo-micrographic study. *Microscopy and Microanalysis*, **2013**, 19, 587-95 | 0.5 | 27 |
| 64 | Maturation affects fluoride uptake by glass-ionomer dental cements. *Dental Materials*, **2012**, 28, e1-5 | 5.7 | 14 |
| 63 | Qualitative assessment of microstructure and Hertzian indentation failure in biocompatible glass ionomer cements. *Journal of Materials Science: Materials in Medicine*, **2012**, 23, 677-85 | 4.5 | 9 |
| 62 | Martha Whiteley of Imperial College, London: A Pioneering Woman Chemist. *Journal of Chemical Education*, **2012**, 89, 598-601 | 2.4 | 1 |

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| 61 | Ion migration from fluoride-releasing dental restorative materials into dental hard tissues. *Journal of Materials Science: Materials in Medicine*, **2012**, 23, 1811-21 | 4.5 | 14 |
| 60 | Effect of denture cleansers on chemical and mechanical behavior of selected soft lining materials. *Dental Materials*, **2011**, 27, 281-90 | 5.7 | 32 |
| 59 | Zinc polycarboxylate dental cement for the controlled release of an active organic substance: proof of concept. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 1249-53 | 4.5 | 3 |
| 58 | Release of sodium fusidate from glass-ionomer dental cement. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 1997-2000 | 4.5 | 7 |
| 57 | The interaction of polyacid-modified composite resins (Ścompomers9) with aqueous fluoride solutions. *Journal of Applied Oral Science*, **2009**, 17, 216-9 | 3.3 | 2 |
| 56 | A preliminary study of the release of quaternary ammonium antimicrobial compounds from acrylic bone cement. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 1579-83 | 4.5 | 5 |
| 55 | Ag+- and Zn2+-exchange kinetics and antimicrobial properties of 11 Ītobermorites. *Journal of the European Ceramic Society*, **2009**, 29, 1109-1117 | 6 | 36 |
| 54 | Review paper: Role of aluminum in glass-ionomer dental cements and its biological effects. *Journal of Biomaterials Applications*, **2009**, 24, 293-308 | 2.9 | 38 |
| 53 | A revised classification for direct tooth-colored restorative materials. *Quintessence International*, **2009**, 40, 691-7 | 2 | 6 |
| 52 | The biocompatibility of resin-modified glass-ionomer cements for dentistry. *Dental Materials*, **2008**, 24, 1702-8 | 5.7 | 92 |
| 51 | Marginal adaptation and performance of bioactive dental restorative materials in deciduous and young permanent teeth. *Journal of Applied Oral Science*, **2008**, 16, 1-6 | 3.3 | 17 |
| 50 | Water sorption/desorption in polyacid-modified composite resins for dentistry. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 1713-7 | 4.5 | 4 |
| 49 | Kinetic studies of water uptake and loss in glass-ionomer cements. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 1723-7 | 4.5 | 12 |
| 48 | The kinetics of water loss from zinc phosphate and zinc polycarboxylate dental cements. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 1719-22 | 4.5 | 4 |
| 47 | Aluminium and fluoride release into artificial saliva from dental restoratives placed in teeth. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 3163-7 | 4.5 | 8 |
| 46 | Compomers. *Journal of Esthetic and Restorative Dentistry*, **2008**, 20, 3-4 | 3.5 | 1 |
| 45 | Polyacid-modified composite resins ("compomers") and their use in clinical dentistry. *Dental Materials*, **2007**, 23, 615-22 | 5.7 | 78 |
| 44 | Kinetic studies of the effect of varnish on water loss by glass-ionomer cements. *Dental Materials*, **2007**, 23, 1549-52 | 5.7 | 16 |

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| 43 | Shear bond strengths of glass-ionomer cements to sound and to prepared carious dentine. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 845-9 | 4.5 | 10 |
| 42 | Ion release by endodontic grade glass-ionomer cement. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 649-52 | 4.5 | 9 |
| 41 | A preliminary study of the interaction of glass-ionomer dental cements with amino acids. *Dental Materials*, **2006**, 22, 133-7 | 5.7 | 3 |
| 40 | Special topics in polymer chemistry. *Journal of Materials Chemistry*, **2006**, 16, 3867 | | 3 |
| 39 | Ion release by resin-modified glass-ionomer cements into water and lactic acid solutions. *Journal of Dentistry*, **2006**, 34, 539-43 | 4.8 | 43 |
| 38 | Scanning electron microscopy and energy dispersive X-ray study of a recovered dental implant. *Journal of Materials Science: Materials in Medicine*, **2006**, 17, 277-9 | 4.5 | 8 |
| 37 | A preliminary study of experimental polyacid-modified composite resins (Ścompomers$) containing vinyl phosphonic acid. *Dental Materials*, **2005**, 21, 491-7 | 5.7 | 20 |
| 36 | The interaction of lactic acid-glass cements with aqueous solutions. *Journal of Materials Science: Materials in Medicine*, **2004**, 15, 151-4 | 4.5 | 3 |
| 35 | The role of the ionomer glass component in polyacid-modified composite resin dental restorative materials. *Journal of Materials Science: Materials in Medicine*, **2004**, 15, 751-4 | 4.5 | 10 |
| 34 | The Conversion of Carboxylic Acids to Ketones: A Repeated Discovery. *Journal of Chemical Education*, **2004**, 81, 1362 | 2.4 | 15 |
| 33 | Ion-release, dissolution and buffering by zinc phosphate dental cements. *Journal of Materials Science: Materials in Medicine*, **2003**, 14, 601-4 | 4.5 | 26 |
| 32 | Polymerization behavior of an organophosphorus monomer for use in dental restorative materials. *Journal of Applied Polymer Science*, **2003**, 88, 565-569 | 2.9 | 21 |
| 31 | Buffering and ion-release by a glass-ionomer cement under near-neutral and acidic conditions. *Biomaterials*, **2002**, 23, 2783-8 | 15.6 | 75 |
| 30 | A study of cements formed by aqueous lactic acid and aluminosilicate glass. *Journal of Materials Science: Materials in Medicine*, **2002**, 13, 417-9 | 4.5 | 12 |
| 29 | Glass ionomer cements in pediatric dentistry: review of the literature. *Pediatric Dentistry (discontinued)*, **2002**, 24, 423-9 | 1.2 | 39 |
| 28 | Metal salts interaction with acrylic acid–maleic acid copolymer: An infrared spectroscopic study. *Journal of Applied Polymer Science*, **2000**, 78, 1680-1684 | 2.9 | 10 |
| 27 | The rate of change of pH of lactic acid exposed to glass-ionomer dental cements. *Biomaterials*, **2000**, 21, 1989-93 | 15.6 | 42 |
| 26 | Adhesive dental materials and their durability. *International Journal of Adhesion and Adhesives*, **2000**, 20, 11-16 | 3.4 | 30 |

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| 25 | A preliminary study of the effect of glass-ionomer and related dental cements on the pH of lactic acid storage solutions. *Biomaterials*, **1999**, 20, 155-8 | 15.6 | 36 |
| 24 | Critical Appraisal. *Journal of Esthetic and Restorative Dentistry*, **1999**, 11, 223-227 | 3.5 | 0 |
| 23 | The Chemistry of Modern Dental Filling Materials. *Journal of Chemical Education*, **1999**, 76, 1497 | 2.4 | 7 |
| 22 | The effect of trivalent metal nitrates on the properties of dental cements made from poly(acrylic acid). *Journal of Applied Polymer Science*, **1998**, 70, 2353-2359 | 2.9 | 9 |
| 21 | Chemistry of glass-ionomer cements: a review. *Biomaterials*, **1998**, 19, 485-94 | 15.6 | 293 |
| 20 | Adhesive dental materials A review. *International Journal of Adhesion and Adhesives*, **1998**, 18, 229-236 | 3.4 | 45 |
| 19 | Current trends in biomaterials. *Materials Today*, **1998**, 1, 6-8 | 21.8 | 4 |
| 18 | Changes in compressive strength on ageing in glass polyalkenoate (glass-ionomer) cements prepared from acrylic/maleic acid copolymers. *Biomaterials*, **1997**, 18, 59-62 | 15.6 | 15 |
| 17 | The use of organic compounds of phosphorus in clinical dentistry. *Biomaterials*, **1996**, 17, 2023-30 | 15.6 | 23 |
| 16 | Glass polyalkenoate dental cements based on physical blends of poly(acrylic acid) and poly(vinyl phosphonic acid). *Polymer International*, **1994**, 34, 81-88 | 3.3 | 3 |
| 15 | Effect of operator skill in determining the physical properties of glass-Ionomer cements. *Clinical Materials*, **1994**, 15, 169-172 | | 10 |
| 14 | Polyelectrolyte materials reflections on a highly charged topic. *Chemical Society Reviews*, **1994**, 23, 53 | 58.5 | 7 |
| 13 | Incorporation of crosslinking agents into poly(vinyl phosphonic acid) as a route to glass polyalkenoate cements of improved compressive strength. *Journal of Materials Chemistry*, **1993**, 3, 361-365 | | 27 |
| 12 | Glass-ionomer cements in orthopaedic surgery: design of laboratory tests. *Clinical Materials*, **1991**, 8, 125-9 | | 12 |
| 11 | Studies on the setting chemistry of glass-ionomer cements. *Clinical Materials*, **1991**, 7, 289-293 | | 54 |
| 10 | The biocompatibility of glass-poly(alkenoate) (Glass-Ionomer) cements: a review. *Journal of Biomaterials Science, Polymer Edition*, **1991**, 2, 277-85 | 3.5 | 75 |
| 9 | Thermal behaviour of partially neutralised ethylene-maleic acid copolymer. *British Polymer Journal*, **1989**, 21, 513-517 | | 3 |
| 8 | The early history of organotin chemistry. *Journal of Chemical Education*, **1989**, 66, 621 | 2.4 | 7 |

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| 7 | Thermal behaviour of films of partially neutralized poly(acrylic acid). 3: Effect of magnesium and calcium ions. *British Polymer Journal*, **1988**, 20, 97-101 | | 17 |
| 6 | Thermal behaviour of films of partially neutralized poly(acrylic acid). 1: Influence of metal ions. *British Polymer Journal*, **1987**, 19, 67-72 | | 20 |
| 5 | Thermal behaviour of films of partially neutralized poly(acrylic acid). 2: The influence of univalent cations. *British Polymer Journal*, **1987**, 19, 449-452 | | 7 |
| 4 | The behaviour of thermoset polymers under fire conditions. *Fire and Materials*, **1983**, 7, 89-95 | 1.8 | 7 |
| 3 | A new route to tetraorganotin compounds. *Journal of Organometallic Chemistry*, **1982**, 233, 169-172 | 2.3 | 7 |
| 2 | Investigation of the direct synthesis of tetrabutyltin from butyl chloride. *Journal of Organometallic Chemistry*, **1982**, 233, 173-183 | 2.3 | 3 |
| 1 | The synthesis and tin-119m Mössbauer spectra of some tetraalkylammonium di- and tri-organohalogenostannate(IV) complexes. *Journal of Organometallic Chemistry*, **1981**, 219, 309-316 | 2.3 | 13 |