

# Humberto Naoyuki Yoshimura

## List of Publications by Year in descending order

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65  
papers

1,640  
citations

279487

23  
h-index

315357

38  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Slow crack growth and reliability of dental ceramics. <i>Dental Materials</i> , 2011, 27, 394-406.	1.6	135
2	Flexural strength and failure modes of layered ceramic structures. <i>Dental Materials</i> , 2011, 27, 1259-1266.	1.6	124
3	Two-body abrasive wear of Al <sub>2</sub> O <sub>3</sub> /SiC composites. <i>Wear</i> , 1999, 233-235, 444-454.	1.5	107
4	Evaluation of aluminum dross waste as raw material for refractories. <i>Ceramics International</i> , 2008, 34, 581-591.	2.3	104
5	Effect of the microstructure on the lifetime of dental ceramics. <i>Dental Materials</i> , 2011, 27, 710-721.	1.6	80
6	Correlation between fracture toughness and leucite content in dental porcelains. <i>Journal of Dentistry</i> , 2005, 33, 721-729.	1.7	76
7	Porosity dependence of elastic constants in aluminum nitride ceramics. <i>Materials Research</i> , 2007, 10, 127-133.	0.6	59
8	Influence of pH on slow crack growth of dental porcelains. <i>Dental Materials</i> , 2008, 24, 814-823.	1.6	47
9	Low-temperature synthesis of AlN powder with multicomponent additive systems by carbothermal reduction-nitridation method. <i>Materials Research Bulletin</i> , 2010, 45, 733-738.	2.7	46
10	Influence of leucite content on slow crack growth of dental porcelains. <i>Dental Materials</i> , 2008, 24, 1114-1122.	1.6	43
11	Subcritical crack growth in porcelains, glass-ceramics, and glass-infiltrated alumina composite for dental restorations. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 1017-24.	1.7	42
12	Influence of the Finishing Technique on Surface Roughness of Dental Porcelains with Different Microstructures. <i>Operative Dentistry</i> , 2006, 31, 577-583.	0.6	40
13	Relationship between fracture toughness and flexural strength in dental porcelains. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 78B, 265-273.	1.6	37
14	The role of CaO additive on sintering of aluminum nitride ceramics. <i>Ceramics International</i> , 2017, 43, 16972-16979.	2.3	37
15	Fracture Toughness of Dental Porcelains Evaluated by IF, SCF, and SEP Methods. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1680-1683.	1.9	36
16	Mechanical properties and porosity of dental glass-ceramics hot-pressed at different temperatures. <i>Materials Research</i> , 2008, 11, 301-306.	0.6	33
17	Effect of ion exchange on strength and slow crack growth of a dental porcelain. <i>Dental Materials</i> , 2009, 25, 736-743.	1.6	33
18	Effect of sample pre-cracking method and notch geometry in plane strain fracture toughness tests as applied to a PMMA resin. <i>Polymer Testing</i> , 2012, 31, 834-840.	2.3	33

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19	Effect of processing induced particle alignment on the fracture toughness and fracture behavior of multiphase dental ceramics. <i>Dental Materials</i> , 2009, 25, 1293-1301.	1.6	32
20	Influence of Silica and Aluminum Contents on Sintering of and Grain Growth in 6H- $\beta$ -SiC Powders. <i>Journal of the American Ceramic Society</i> , 2000, 83, 226-28.	1.9	31
21	Effect of TiO <sub>2</sub> addition on the chemical durability of Bi <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -ZnO-B <sub>2</sub> O <sub>3</sub> glass system. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4777-4785.	1.5	31
22	Effect of ion exchange on hardness and fracture toughness of dental porcelains. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 83B, 538-545.	1.6	28
23	Effects of CaCO <sub>3</sub> content on the densification of aluminum nitride. <i>Journal of the European Ceramic Society</i> , 2006, 26, 3431-3440.	2.8	27
24	Sintering mechanisms in aluminum nitride with Y or Ca-containing additive. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 1-8.	1.1	26
25	Ultra-low friction coefficient in alumina-silicon nitride pair lubricated with water. <i>Wear</i> , 2012, 296, 656-659.	1.5	25
26	Relationship between elastic and mechanical properties of dental ceramics and their index of brittleness. <i>Ceramics International</i> , 2012, 38, 4715-4722.	2.3	25
27	Designing a new family of high temperature wear resistant alloys based on Ni <sub>3</sub> Al IC: experimental results and thermodynamic modelling. <i>Intermetallics</i> , 2004, 12, 963-968.	1.8	23
28	Effect of temperature and heating rate on the sintering of leucite-based dental porcelains. <i>Ceramics International</i> , 2011, 37, 1073-1078.	2.3	21
29	Sintering of 6H( $\beta$ )-SiC and 3C( $\beta$ )-SiC powders with B <sub>4</sub> C and C additives. <i>Journal of Materials Science</i> , 2002, 37, 1541-1546.	1.7	20
30	Efeito da porosidade nas propriedades mecânicas de uma alumina de elevada pureza. <i>Ceramica</i> , 2005, 51, 239-251.	0.3	20
31	Stress intensity factor threshold in dental porcelains. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1945-1951.	1.7	19
32	Light scattering in polycrystalline alumina with bi-dimensionally large surface grains. <i>Journal of the European Ceramic Society</i> , 2009, 29, 293-303.	2.8	18
33	Al <sub>2</sub> O <sub>3</sub> /GdAlO <sub>3</sub> fiber for dental porcelain reinforcement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2009, 2, 471-477.	1.5	17
34	High temperature flexural strength and fracture toughness of AlN with Y <sub>2</sub> O <sub>3</sub> ceramic. <i>Journal of Materials Science</i> , 2009, 44, 5773-5780.	1.7	15
35	Efeito da incorporação de lodo de ETA contendo alto teor de ferro em cerâmica argilosa. <i>Ceramica</i> , 2008, 54, 63-76.	0.3	14
36	Determination of the slow crack growth susceptibility coefficient of dental ceramics using different methods. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 99B, 247-257.	1.6	12

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37	Effect of different aging methods on the mechanical behavior of multi-layered ceramic structures. <i>Dental Materials</i> , 2016, 32, 1536-1542.	1.6	11
38	Effect of fiber addition on slow crack growth of a dental porcelain. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 44, 85-95.	1.5	10
39	Effect of previous photoactivation of the adhesive system on the color stability and mechanical properties of resin components in ceramic laminate veneer luting. <i>Journal of Prosthetic Dentistry</i> , 2018, 120, 631.e1-631.e6.	1.1	10
40	Effect of ion exchange on R-curve behavior of a dental porcelain. <i>Journal of Materials Science</i> , 2011, 46, 117-122.	1.7	9
41	Systematic approach to preparing ceramic-glass composites with high translucency for dental restorations. <i>Dental Materials</i> , 2015, 31, 1188-1197.	1.6	9
42	Is It Necessary to Photoactivate the Adhesive System Inside Ceramic Laminate Veneers in a Luting Procedure?. <i>International Journal of Prosthodontics</i> , 2019, 32, 533-540.	0.7	9
43	Effect of ion-exchange temperature on mechanical properties of a dental porcelain. <i>Ceramics International</i> , 2010, 36, 1977-1981.	2.3	7
44	Efeito do teor de Y2O3 na sinterização do nitreto de alumínio. <i>Ceramica</i> , 2006, 52, 151-160.	0.3	7
45	Zircônia parcialmente estabilizada de baixo custo produzida por meio de mistura de pó com aditivos do sistema MgO-Y2O3-CaO. <i>Ceramica</i> , 2007, 53, 116-132.	0.3	6
46	Intermediate Oxide Layers for Direct Bonding of Copper (DBC) to Aluminum Nitride Ceramic Substrates. <i>Materials Science Forum</i> , 0, 660-661, 658-663.	0.3	6
47	Effect of Test Environment and Microstructure on the Flexural Strength of Dental Porcelains. <i>Journal of Prosthodontics</i> , 2011, 20, 275-279.	1.7	6
48	Efeitos do condicionamento de uma porcelana dentária em meio de saliva artificial na resistência mecânica e previsão do tempo de vida. <i>Ceramica</i> , 2009, 55, 190-198.	0.3	5
49	Second-phase evolution and densification behavior of AlN with CaO-Y2O3-C multicomponent additive system. <i>Ceramics International</i> , 2022, 48, 6615-6626.	2.3	5
50	Ecofriendly alumina processing with in situ formed nanostructured boehmite binder. <i>Materials Letters</i> , 2014, 137, 293-296.	1.3	4
51	Evaluation of glass viscosity of dental bioceramics by the SciGlass information system. <i>Ceramics International</i> , 2015, 41, 10000-10009.	2.3	4
52	Mechanical Characterization of Tricalcium Phosphate Ceramics Doped with Magnesium. <i>Materials Science Forum</i> , 0, 798-799, 454-459.	0.3	3
53	Subcritical Crack Growth Velocities ( $v$ -K Curves) of Dental Bioceramics. <i>Materials Science Forum</i> , 0, 727-728, 1211-1216.	0.3	2
54	Effects of glass chemistry on the optical properties of highly translucent alumina-glass biocomposites for dental restorations. <i>Ceramics International</i> , 2017, 43, 13970-13977.	2.3	2

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55	Influence of compaction manufacturing process on the physical and electrical characteristics of high-voltage varistor. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 957-962.	1.1	1
56	Efeitos do carbono na evoluçãõ de segundas-fases e na densificaçãõ do nitrato de alumãnio com Y2O3. <i>Ceramica</i> , 2010, 56, 331-339.	0.3	1
57	Strengthening Dental Porcelains by Ion Exchange Process. , 0, , .		1
58	Development of WC-Fe<sub>3</sub>Al Composites by Spark Plasma Sintering Process. <i>Materials Science Forum</i> , 0, 881, 307-312.	0.3	1
59	Evaluation of Mechanochemical and Hydrothermal Transformations in a Wet-Milled Alumina by Transmission Electron Microscopy and Thermal Analysis. <i>Materials Science Forum</i> , 2016, 881, 46-51.	0.3	1
60	Effects of Milling Time on Microstructure and Mechanical Properties of Composite WC-(Fe<sub>3</sub>Al-B) Consolidated by Spark Plasma Sintering. <i>Materials Science Forum</i> , 0, 899, 487-492.	0.3	1
61	Influence of Multi-cycle Infiltration on Porosity and Optical Properties of Glassinfiltrated Alumina Biocomposites for Dental Restorations. <i>Journal of Dental Science and Therapy</i> , 2016, 1, 7-11.	0.1	1
62	Effects of Hydrogen Content in Nitrogen-Based Sintering Atmosphere on Microstructure and Mechanical Properties of Fe-0.3%C-0.1%B Alloy. <i>Materials Science Forum</i> , 2014, 802, 477-482.	0.3	0
63	Devitrification in SiO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub>-La<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub>/Glass during the Infiltration of Ceramic Composite. <i>Materials Science Forum</i> , 2016, 881, 77-82.		
64	Effects of Milling pH and Hydrothermal Treatment on Formation of Nanostructured Boehmite Binder for Alumina Extrusion. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-14.	1.5	0
65	Effects of Microstructural Anisotropy on Fracture Behavior of Heat-Pressed Glass-Ceramics and Glass-Infiltrated Alumina Composites for Dental Restorations. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 77-88.	0.1	0