

Hiroshi Ikeda

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

877
citations

623699

14
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526264

27
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61
all docs

61
docs citations

61
times ranked

725
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of mixed-potential type zirconia-based gas sensors. <i>Ionics</i> , 2014, 20, 901-925.	2.4	271
2	Oxygen sorption/desorption behavior and crystal structural change for SrFeO ₃ . <i>Chemical Engineering Science</i> , 2016, 147, 166-172.	3.8	43
3	Sr _{1-x} Ca _x FeO _{3-δ} as a New Oxygen Sorbent for the High-Temperature Pressure-Swing Adsorption Process. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 3091-3096.	3.7	41
4	Low-temperature fabrication of fine structures on glass using electrical nanoimprint and chemical etching. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	26
5	Mixed-Potential Type Zirconia-Based NH ₃ Sensor Using SnO ₂ -Disk Sensing-Electrode Attached with Sputtered Au. <i>ECS Electrochemistry Letters</i> , 2014, 3, B13-B15.	1.9	25
6	SrCo _x Fe _{1-x} O ₃ Oxygen Sorbent Usable for High-Temperature Pressure-Swing Adsorption Process Operating at Approximately 300 Å°C. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6501-6505.	3.7	24
7	Correlation between microstructure of CAD/CAM composites and the silanization effect on adhesive bonding. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 101, 103441.	3.1	24
8	Development of Dental Poly(methyl methacrylate)-Based Resin for Stereolithography Additive Manufacturing. <i>Polymers</i> , 2021, 13, 4435.	4.5	24
9	Preparation of SiO ₂ -PVA nanocomposite and monolithic transparent silica glass by sintering. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 65-69.	1.1	23
10	Potentiometric YSZ-based oxygen sensor using BaFeO ₃ sensing-electrode. <i>Electrochemistry Communications</i> , 2014, 48, 134-137.	4.7	23
11	Insight into the Aging Effect on Enhancement of Hydrogen-Sensing Characteristics of a Zirconia-Based Sensor Utilizing a Zn-Ta-O-Based Sensing Electrode. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12099-12106.	8.0	20
12	Impedancemetric YSZ-based oxygen sensor using BaFeO ₃ sensing-electrode. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 279-282.	7.8	18
13	YSZ-based sensor using Cr-Fe-based spinel-oxide electrodes for selective detection of CO. <i>Analytica Chimica Acta</i> , 2017, 982, 176-184.	5.4	18
14	Preparation of silica-poly(methyl methacrylate) composite with a nanoscale dual-network structure and hardness comparable to human enamel. <i>Dental Materials</i> , 2019, 35, 893-899.	3.5	16
15	Selective NO ₂ detection using YSZ-based amperometric sensor attached with NiFe ₂ O ₄ (+ Fe ₂ O ₃) sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 30-35.	7.8	14
16	PICN Nanocomposite as Dental CAD/CAM Block Comparable to Human Tooth in Terms of Hardness and Flexural Modulus. <i>Materials</i> , 2021, 14, 1182.	2.9	14
17	Generation of alkali-free and high-proton concentration layer in a soda lime glass using non-contact corona discharge. <i>Journal of Applied Physics</i> , 2013, 114, 063303.	2.5	13
18	Fabrication of Micropatterns on Silica Glass by a Room-Temperature Imprinting Method. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2319-2322.	3.8	12

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19	Preparation and photoluminescence of monolithic silica glass doped with Tb ³⁺ ions using SiO ₂ -PVA nanocomposite. <i>Optical Materials</i> , 2014, 36, 1119-1122.	3.6	11
20	Accelerated formation of sodium depletion layer on soda lime glass surface by corona discharge treatment in hydrogen atmosphere. <i>Applied Surface Science</i> , 2014, 300, 149-153.	6.1	11
21	Tuning H ₂ Sensing Performance of Zirconia-based Sensor using ZrSiO ₄ (+Au) Sensing-electrode. <i>Electrochimica Acta</i> , 2015, 171, 7-12.	5.2	11
22	Surface modification of feldspar porcelain by corona discharge and its effect on bonding to resin cement with silane coupling agent. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 105, 103708.	3.1	11
23	Dental Poly(methyl methacrylate)-Based Resin Containing a Nanoporous Silica Filler. <i>Journal of Functional Biomaterials</i> , 2022, 13, 32.	4.4	11
24	Photoluminescence characteristics of sintered silica glass doped with Cu ions using mesoporous SiO ₂ -PVA nanocomposite. <i>Materials Chemistry and Physics</i> , 2015, 162, 431-435.	4.0	10
25	Chemical alteration of Ag-Pd-Cu-Au alloy surface by alumina air-abrasion and its effect on bonding to resin cement. <i>Dental Materials Journal</i> , 2019, 38, 630-637.	1.8	10
26	Data on changes in flexural strength and elastic modulus of dental CAD/CAM composites after deterioration tests. <i>Data in Brief</i> , 2019, 24, 103889.	1.0	10
27	Wear of Polymer-Infiltrated Ceramic Network Materials against Enamel. <i>Materials</i> , 2022, 15, 2435.	2.9	10
28	Fabrication of Au nanoparticles doped bulk silica glass by use of SiO ₂ -PVA nanocomposite. <i>Journal of the Ceramic Society of Japan</i> , 2012, 120, 238-242.	1.1	9
29	Composition and pH dependence on aggregation of SiO ₂ -PVA suspension for the synthesis of porous SiO ₂ -PVA nanocomposite. <i>Journal of Porous Materials</i> , 2014, 21, 1143-1149.	2.6	9
30	Cobalt-based solid reference-electrode usable in zirconia-based sensors for detection of oxygen or volatile organic compounds. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 899-903.	7.8	9
31	Evaluation of demolding force for glass-imprint process. <i>Journal of Non-Crystalline Solids</i> , 2014, 383, 66-70.	3.1	9
32	Preparation and Characterization of BaO-TeO ₂ Thin Films Obtained from Tellurium(VI) Alkoxide by a Sol-Gel Method. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2619-2622.	3.8	7
33	Optimization of Metal Quality for Grating Coupled Surface Plasmon Resonance. <i>Physics Procedia</i> , 2013, 48, 179-183.	1.2	7
34	Sensing characteristics of YSZ-based oxygen sensors attached with Ba _x Sr _{1-x} FeO ₃ sensing-electrode. <i>Solid State Ionics</i> , 2016, 285, 234-238.	2.7	7
35	Printable PICN Composite Mechanically Compatible with Human Teeth. <i>Journal of Dental Research</i> , 2021, 100, 1475-1481.	5.2	7
36	Effects of alumina airborne-particle abrasion on the surface properties of CAD/CAM composites and bond strength to resin cement. <i>Dental Materials Journal</i> , 2021, 40, 431-438.	1.8	6

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37	Fabrication and Characterization of Porous Silica Monolith by Sintering Silica Nanoparticles. Journal of Minerals and Materials Characterization and Engineering, 2017, 05, 107-117.	0.4	6
38	Novel zirconia-based NO ₂ sensor attached with carbon sensing-electrode. Electrochemistry Communications, 2014, 46, 60-62.	4.7	5
39	Development of quasi-two-dimensional Nb ₂ O ₅ nanoflakes with thickness-depended electro-chemical properties. Functional Materials Letters, 2015, 08, 1550007.	1.2	5
40	Selective Deposition of SiO ₂ on Ion Conductive Area of Soda-lime Glass Surface. Scientific Reports, 2016, 6, 27767.	3.3	5
41	Adhesive bonding of alumina air-abraded Ag-Pd-Cu-Au alloy with 10-methacryloyloxydecyl dihydrogen phosphate. Dental Materials Journal, 2020, 39, 262-271.	1.8	5
42	Bond durability and surface states of titanium, Ti-6Al-4V alloy, and zirconia for implant materials. Journal of Prosthodontic Research, 2022, 66, 296-302.	2.8	5
43	Fabrication and photoluminescence of monolithic silica glass doped with alumina nanoparticles using SiO ₂ -PVA nanocomposite. Journal of the Ceramic Society of Japan, 2015, 123, 550-553.	1.1	3
44	Alkali ion migration between stacked glass plates by corona discharge treatment. Applied Surface Science, 2015, 338, 120-125.	6.1	3
45	Microbicidal effect and storage stability of neutral HOCl-containing aqueous gels with different thickening/gelling agents. Dental Materials Journal, 2021, 40, 1309-1319.	1.8	3
46	Applicability of neutral electrolyzed water for cleaning contaminated fixed orthodontic appliances. American Journal of Orthodontics and Dentofacial Orthopedics, 2022, , .	1.7	3
47	Room Temperature Imprint Using Crack-Free Monolithic SiO ₂ -PVA Nanocomposite for Fabricating Microhole Array on Silica Glass. Journal of Nanomaterials, 2015, 2015, 1-7.	2.7	2
48	Improvement in Response/Recovery Characteristics of Mixed-Potential-Type Zirconia-Based CO Sensor Using ZnCr ₂ O ₄ Added with Au Particles-Sensing Electrode. ECS Transactions, 2016, 75, 59-64.	0.5	2
49	Selective CO Detection Using YSZ-based Sensor with a Combination of CuCrFeO ₄ and CoCrFeO ₄ Electrodes. Procedia Chemistry, 2016, 20, 118-120.	0.7	2
50	Acceleration of the aging process of YSZ-based H ₂ sensor using Zn-Ta-O sensing-electrode. Sensors and Actuators B: Chemical, 2016, 223, 738-742.	7.8	2
51	Luminescent sintered silica glass prepared by adsorbing Pr ions into mesoporous SiO ₂ -PVA nanocomposite. Journal of Composite Materials, 2016, 50, 2541-2547.	2.4	2
52	Data on bond strength of methyl methacrylate-based resin cement to dental restorative materials. Data in Brief, 2020, 33, 106426.	1.0	2
53	Effects of ytterbium laser surface treatment on the bonding of two resin cements to zirconia. Dental Materials Journal, 2022, 41, 45-53.	1.8	2
54	Effects of Both Fiber Post/Core Resin Construction System and Root Canal Sealer on the Material Interface in Deep Areas of Root Canal. Materials, 2021, 14, 982.	2.9	2

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55	A SiO ₂ /pHEMA-Based Polymer-Infiltrated Ceramic Network Composite for Dental Restorative Materials. <i>Journal of Composites Science</i> , 2022, 6, 17.	3.0	2
56	Castable polymer-infiltrated ceramic network composite for training model tooth with compatible machinability to human enamel. <i>Dental Materials Journal</i> , 2022, 41, 520-526.	1.8	2
57	Proton Implantation into Tungsten Phosphate Glass Using Corona Discharging. <i>Physics Procedia</i> , 2013, 48, 81-84.	1.2	0
58	Evaluation of Demolding Force by Parallel Mold Press for Glass Imprint. <i>Physics Procedia</i> , 2013, 48, 109-112.	1.2	0
59	Effect of mold stiffness on surface flatness of mold-pressed glass. <i>Microsystem Technologies</i> , 2016, 22, 2087-2091.	2.0	0
60	Influence of Alumina Air-Abrasion on Flexural and Shear Bond Strengths of CAD/CAM Composite. <i>Crystals</i> , 2020, 10, 927.	2.2	0
61	11/4Žç%°1ç°çš,,ã,-ã,1è³è~èf1/2ã,ç™ç³/4ã~èf1/2ã³ã°ã1/2“é»»æ°—ãCE—ã†ã1/4æ·æ^é»ã1/2ã;œçç”ãžã,»ãf³ã,μ. <i>Electrochemistry</i> , 2015, 83, 2		