

Hiroshi Ikeda

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

593
citations

12
h-index

22
g-index

61
ext. papers

722
ext. citations

3.7
avg, IF

4.04
L-index

#	Paper	IF	Citations
53	A review of mixed-potential type zirconia-based gas sensors. <i>Ionics</i> , 2014 , 20, 901-925	2.7	204
52	Oxygen sorption/desorption behavior and crystal structural change for SrFeO ₃ <i>Chemical Engineering Science</i> , 2016 , 147, 166-172	4.4	34
51	Sr _{1-x} CaxFeO _{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	3.9	28
50	Low-temperature fabrication of fine structures on glass using electrical nanoimprint and chemical etching. <i>Journal of Applied Physics</i> , 2013 , 114, 083514	2.5	21
49	Sr _{1-x} CoxFeO _{3-δ} Oxygen Sorbent Usable for High-Temperature Pressure-Swing Adsorption Process Operating at Approximately 300 °C. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 6501-6505	3.9	20
48	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	19
47	Potentiometric YSZ-based oxygen sensor using BaFeO ₃ sensing-electrode. <i>Electrochemistry Communications</i> , 2014 , 48, 134-137	5.1	18
46	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		18
45	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, 12099-106	9.5	18
44	Impedancemetric YSZ-based oxygen sensor using BaFeO ₃ sensing-electrode. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 279-282	8.5	15
43	YSZ-based sensor using Cr-Fe-based spinel-oxide electrodes for selective detection of CO. <i>Analytica Chimica Acta</i> , 2017 , 982, 176-184	6.6	15
42	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	12
41	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	3.3	10
40	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	6.7	10
39	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	10
38	Tuning H ₂ Sensing Performance of Zirconia-based Sensor using ZrSiO ₄ (+Au) Sensing-electrode. <i>Electrochimica Acta</i> , 2015 , 171, 7-12	6.7	9
37	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	9

36	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	2.5	8
35	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	4.4	8
34	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	2.4	8
33	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	4.1	8
32	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	1.2	6
31	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	8.5	6
30	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	6
29	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	8.5	6
28	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	5.7	5
27	Development of quasi-two-dimensional Nb ₂ O ₅ nanoflakes with thickness-dependend electro-chemical properties. <i>Functional Materials Letters</i> , 2015 , 08, 1550007	1.2	5
26	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	4.1	5
25	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	3.3	5
24	Optimization of Metal Quality for Grating Coupled Surface Plasmon Resonance. <i>Physics Procedia</i> , 2013 , 48, 179-183		5
23	Selective Deposition of SiO ₂ on Ion Conductive Area of Soda-lime Glass Surface. <i>Scientific Reports</i> , 2016 , 6, 27767	4.9	5
22	Novel zirconia-based NO ₂ sensor attached with carbon sensing-electrode. <i>Electrochemistry Communications</i> , 2014 , 46, 60-62	5.1	4
21	Alkali ion migration between stacked glass plates by corona discharge treatment. <i>Applied Surface Science</i> , 2015 , 338, 120-125	6.7	3
20	Evaluation of demolding force for glass-imprint process. <i>Journal of Non-Crystalline Solids</i> , 2014 , 383, 66-70	3.9	3
19	Adhesive bonding of alumina air-abraded Ag-Pd-Cu-Au alloy with 10-methacryloyloxydecyl dihydrogen phosphate. <i>Dental Materials Journal</i> , 2020 , 39, 262-271	2.5	3

18	PICN Nanocomposite as Dental CAD/CAM Block Comparable to Human Tooth in Terms of Hardness and Flexural Modulus. <i>Materials</i> , 2021 , 14,	3.5	3
17	Luminescent sintered silica glass prepared by adsorbing Pr ions into mesoporous SiO ₂ /PVA nanocomposite. <i>Journal of Composite Materials</i> , 2016 , 50, 2541-2547	2.7	2
16	Selective CO Detection Using YSZ-based Sensor with a Combination of CuCrFeO ₄ and CoCrFeO ₄ Electrodes. <i>Procedia Chemistry</i> , 2016 , 20, 118-120		2
15	Fabrication and photoluminescence of monolithic silica glass doped with alumina nanoparticles using SiO ₂ -PVA nanocomposite. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 550-553	1	2
14	Room Temperature Imprint Using Crack-Free Monolithic SiO ₂ -PVA Nanocomposite for Fabricating Microhole Array on Silica Glass. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-7	3.2	2
13	Fabrication and Characterization of Porous Silica Monolith by Sintering Silica Nanoparticles. <i>Journal of Minerals and Materials Characterization and Engineering</i> , 2017 , 05, 107-117	0.4	2
12	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	2.5	2
11	Printable PICN Composite Mechanically Compatible with Human Teeth. <i>Journal of Dental Research</i> , 2021 , 100, 1475-1481	8.1	2
10	Improvement in Response/Recovery Characteristics of Mixed-Potential-Type Zirconia-Based CO Sensor Using ZnCr ₂ O ₄ Added with Au Particles-Sensing Electrode. <i>ECS Transactions</i> , 2016 , 75, 59-64	1	2
9	Acceleration of the aging process of YSZ-based H ₂ sensor using Zn ₃ As ₂ O ₈ sensing-electrode. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 738-742	8.5	1
8	Data on bond strength of methyl methacrylate-based resin cement to dental restorative materials. <i>Data in Brief</i> , 2020 , 33, 106426	1.2	1
7	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
6	Effect of mold stiffness on surface flatness of mold-pressed glass. <i>Microsystem Technologies</i> , 2016 , 22, 2087-2091	1.7	
5	Influence of Alumina Air-Abrasion on Flexural and Shear Bond Strengths of CAD/CAM Composite. <i>Crystals</i> , 2020 , 10, 927	2.3	
4	Proton Implantation into Tungsten Phosphate Glass Using Corona Discharging. <i>Physics Procedia</i> , 2013 , 48, 81-84		
3	Evaluation of Demolding Force by Parallel Mold Press for Glass Imprint. <i>Physics Procedia</i> , 2013 , 48, 109-112		
2	1.?????????????????????????????????????. <i>Electrochemistry</i> , 2015 , 83, 269-275	1.2	
1	Microbicidal effect and storage stability of neutral HOCl-containing aqueous gels with different thickening/gelling agents. <i>Dental Materials Journal</i> , 2021 , 40, 1309-1319	2.5	

