

# Nobuhito Imanaka

## 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.

285 papers	5,745 citations	34 h-index	64 g-index
301 ext. papers	6,316 ext. citations	5 avg, IF	5.7 L-index

#	Paper	IF	Citations
285	The Binary Rare Earth Oxides. <i>Chemical Reviews</i> , <b>1998</b> , 98, 1479-1514	68.1	727
284	Ionic Conductivity of Solid Electrolytes Based on Lithium Titanium Phosphate. <i>Journal of the Electrochemical Society</i> , <b>1990</b> , 137, 1023-1027	3.9	592
283	Fast Li <sup>+</sup> Conducting Ceramic Electrolytes. <i>Advanced Materials</i> , <b>1996</b> , 8, 127-135	24	258
282	High Li <sup>+</sup> Conducting Ceramics. <i>Accounts of Chemical Research</i> , <b>1994</b> , 27, 265-270	24.3	147
281	Ionic conducting lanthanide oxides. <i>Chemical Reviews</i> , <b>2002</b> , 102, 2405-30	68.1	112
280	Synthesis of cerium oxide nanoparticles by hydrothermal crystallization with citric acid. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 489-491		106
279	Amorphous Cerium-Titanium Solid Solution Phosphate as a Novel Family of Band Gap Tunable Sunscreen Materials. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 2289-2291	9.6	98
278	Trivalent Al <sup>3+</sup> Ion Conduction in Aluminum Tungstate Solid. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 1649-1654	9.6	97
277	Advances in direct NO <sub>x</sub> decomposition catalysts. <i>Applied Catalysis A: General</i> , <b>2012</b> , 431-432, 1-8	5.1	92
276	Total oxidation of toluene on Pt/CeO <sub>2</sub> -ZrO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> /gamma-Al <sub>2</sub> O <sub>3</sub> catalysts prepared in the presence of polyvinyl pyrrolidone. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 176, 1106-9	12.8	86
275	Trivalent Rare Earth Ion Conduction in the Rare Earth Tungstates with the Sc <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> -Type Structure. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 2006-2012	9.6	78
274	A Direct Evidence for Trivalent Ion Conduction in Solids. <i>Chemistry Letters</i> , <b>1995</b> , 24, 433-434	1.7	68
273	Novel and environmentally friendly (Bi,Ca,Zn)VO <sub>4</sub> yellow pigments. <i>Dyes and Pigments</i> , <b>2013</b> , 99, 636-641	4.6	58
272	Rare earth contribution in solid state electrolytes, especially in the chemical sensor field. <i>Journal of Alloys and Compounds</i> , <b>1997</b> , 250, 492-500	5.7	57
271	Synthesis and characterization of cerium oxide nanoparticles coated with turbostratic boron nitride. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 622-627		53
270	Trivalent Aluminum Ion Conducting Characteristics in Al <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> Single Crystals. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 2542-2545	9.6	49
269	Direct Decomposition of Nitric Oxide over C-Type Cubic (Gd <sub>1-x</sub> Y <sub>x</sub> Bay)2O <sub>3</sub> Solid Solutions. <i>Advanced Materials</i> , <b>2007</b> , 19, 3660-3663	24	47

268	Multivalent Cationic Conduction in Crystalline Solids. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 3790-3812	9.6	46
267	Synthesis of new environment-friendly yellow pigments. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 418, 255-258	5.7	45
266	Divalent magnesium ion conducting characteristics in phosphate based solid electrolyte composites. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 1431-1435		45
265	Water-insoluble lanthanum oxychloride-based solid electrolytes with ultra-high chloride ion conductivity. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 3890-2	16.4	44
264	Synthesis and luminescence of Sr <sub>2</sub> CeO <sub>4</sub> fine particles. <i>Materials Research Bulletin</i> , <b>2003</b> , 38, 17-24	5.1	44
263	Trivalent Sc <sup>3+</sup> Ion Conduction in Sc <sub>1/3</sub> Zr <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Solids with the NASICON-Type Structure. <i>Advanced Materials</i> , <b>1999</b> , 11, 1521-1523	24	43
262	Preparation of the cubic-type La <sub>2</sub> O <sub>3</sub> phase by thermal decomposition of LaI <sub>3</sub> . <i>Journal of Solid State Chemistry</i> , <b>2005</b> , 178, 395-398	3.3	41
261	Pressure-induced amorphization in negative thermal expansion Sc <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> . <i>Journal of Materials Science Letters</i> , <b>2001</b> , 20, 1339-1340		41
260	Extraordinary High Trivalent Al <sup>3+</sup> Ion Conduction in Solids. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 4481-4483	9.6	40
259	Synthesis and characterization of new promoters based on CeO <sub>2</sub> -ZrO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> for automotive exhaust catalysts. <i>Catalysis Today</i> , <b>2006</b> , 117, 187-192	5.3	39
258	A carbon dioxide gas sensor by combination of multivalent cation and anion conductors with a water-insoluble oxycarbonate-based auxiliary electrode. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 4800-4	7.8	39
257	Significant Low-Temperature Redox Activity of Ce <sub>0.64</sub> Zr <sub>0.16</sub> Bi <sub>0.20</sub> O <sub>1.90</sub> Supported on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Advanced Materials</i> , <b>2007</b> , 19, 1608-1611	24	36
256	Redox behavior of CeO <sub>2</sub> -ZrO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> and CeO <sub>2</sub> -ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> solid solutions at moderate temperatures. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 408-412, 1132-1135	5.7	36
255	Synthesis of a new NASICON-type blue luminescent material. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 418, 73-76	5.7	36
254	Characterization and thermal behavior of amorphous cerium phosphate. <i>Physica Status Solidi A</i> , <b>2003</b> , 198, 364-368		36
253	Trivalent Aluminum Ionic Conduction in the Aluminum Tungstate-Scandium Tungstate-Lutetium Tungstate Solid Solution System. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 1958-1962	9.6	35
252	Trivalent Ion Conduction in Molybdates Having Sc <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> -Type Structure. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 1910-1913	9.6	34
251	Carbon monoxide oxidation at room temperature on Pt/CeO <sub>2</sub> -ZrO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> catalysts. <i>Chemical Communications</i> , <b>2011</b> , 47, 11032-4	5.8	33

250	Trivalent ion conducting solid electrolytes. <i>Solid State Ionics</i> , <b>2000</b> , 136-137, 319-324	3.3	31
249	Trivalent cation conduction in $R_1/3Zr_2(PO_4)_3$ (R: rare earths) with the NASICON-type structure. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 323-324, 540-544	5.7	30
248	Characterization and thermal behavior of amorphous rare earth phosphates. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 374, 84-88	5.7	29
247	Advanced materials for environmental catalysts. <i>Chemical Record</i> , <b>2009</b> , 9, 40-50	6.6	28
246	Solid electrolyte type ammonia gas sensor based on trivalent aluminum ion conducting solids. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 147, 735-740	8.5	28
245	Enhancement of the luminescent intensity of the green emitting $Gd_2O_2CO_3:Tb$ phosphor. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 451, 132-135	5.7	28
244	Direct decomposition of nitric oxide into nitrogen and oxygen over C-type cubic $Y_2O_3:ErO_2$ solid solutions. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 451, 406-409	5.7	28
243	Synthesis of a new phosphor based on rare earth oxycarbonate. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 408-412, 867-870	5.7	28
242	Synthesis and Characterization of New Environmentally-Friendly Pigments Based on Cerium Phosphate. <i>Journal of the Ceramic Society of Japan</i> , <b>2004</b> , 112, 646-649		28
241	Low-Temperature Complete Combustion of Volatile Organic Compounds over Novel $Pt/CeO_2:ErO_2:SnO_2/Al_2O_3$ Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , <b>2012</b> , 85, 522-526	5.1	27
240	New environment-friendly yellow pigments based on $CeO_2:ErO_2$ solid solutions. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 451, 640-643	5.7	27
239	Synthesis of new green emitting phosphors based on rare earth oxycarbonates. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 418, 230-233	5.7	27
238	A tip-type carbon dioxide gas-sensor probe based on lithium and oxide ionic conductors. <i>Sensors and Actuators B: Chemical</i> , <b>1995</b> , 25, 380-382	8.5	27
237	Novel environmentally friendly (Bi, Ca, Zn, La) $VO_4$ inorganic yellow pigments. <i>RSC Advances</i> , <b>2013</b> , 3, 24941	3.7	26
236	Highly conducting divalent $Mg^{2+}$ cation solid electrolytes with well-ordered three-dimensional network structure. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 235, 7-11	3.3	25
235	Synthesis of a new green-emitting phosphor based on lanthanum oxycarbonate ( $La_2O_2CO_3-II$ ). <i>Journal of Materials Science</i> , <b>2005</b> , 40, 4121-4123	4.3	25
234	Catalytic combustion of methane over Pt and PdO-supported $CeO_2:ErO_2:Bi_2O_3/Al_2O_3$ catalysts. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 4046-4052	4.3	23
233	Synthesis of new red emitting phosphors based on rare earth oxycarbonates. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 418, 243-246	5.7	23

232	Promotion of Low-Temperature Reduction Behavior of the $\text{CeO}_2\text{-x}\text{ErO}_2\text{Bi}_2\text{O}_3$ Solid Solution by Addition of Silver. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 6511-6513	9.6	23
231	Crystal growth of aluminum tungstate $\text{Al}_2(\text{WO}_4)_3$ by the Czochralski method from nonstoichiometric melt. <i>Journal of Crystal Growth</i> , <b>1999</b> , 197, 879-882	1.6	23
230	Trivalent Ion Conduction of the $\text{Sc}_2(\text{WO}_4)_3\text{-x}\text{Nd}_2(\text{WO}_4)_3$ System. <i>Solid State Ionics</i> , <b>1998</b> , 111, 59-65	3.3	22
229	A chlorine gas sensor based on the combination of $\text{Mg}^{2+}$ cation conducting and $\text{O}_2$ anion conducting solid electrolytes with lanthanum oxychloride as an auxiliary electrode. <i>Electrochemistry Communications</i> , <b>2001</b> , 3, 49-51	5.1	22
228	Enhancement in Photoluminescence of $\text{Gd}_2\text{O}_3\text{CO}_3\text{:Tb}^{3+}$ Submicron Particles by Introducing Yttrium into the Oxycarbonate Lattice. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, J181	3.9	21
227	Synthesis and Characterization of $\text{CeO}_2\text{-x}\text{ErO}_2\text{Bi}_2\text{O}_3$ Solid Solutions for Environment-friendly Yellow Pigments. <i>Chemistry Letters</i> , <b>2006</b> , 35, 1032-1033	1.7	21
226	Synthesis of an Environmentally Friendly and Nontoxic New Pigment Based on Rare Earth Phosphate. <i>Chemistry Letters</i> , <b>2003</b> , 32, 400-401	1.7	21
225	Trivalent ion conduction in NASICON type solid electrolyte prepared by ball milling. <i>Solid State Ionics</i> , <b>2002</b> , 154-155, 767-771	3.3	21
224	Divalent Magnesium Ionic Conduction in $\text{Mg}_{1-x}(\text{Zr}_{1-x}\text{Nb}_x)_4\text{P}_6\text{O}_{24}$ ( $x=0.4$ ) Solid Solutions. <i>Electrochemical and Solid-State Letters</i> , <b>1999</b> , 3, 327		21
223	Novel Nontoxic and Environment-friendly Inorganic Yellow Pigments. <i>Chemistry Letters</i> , <b>2008</b> , 37, 104-105	5.7	20
222	Rare earth ion conduction in solids. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 323-324, 534-539	5.7	20
221	Indiumwolframat, $\text{In}_2(\text{WO}_4)_3$ ein $\text{In}^{3+}$ leitender Festkörperelektrolyt. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>1999</b> , 625, 1890-1896	1.3	20
220	Development of Multivalent Ion Conducting Solid Electrolytes. <i>Bulletin of the Chemical Society of Japan</i> , <b>2011</b> , 84, 353-362	5.1	19
219	Environmental Catalysts for Complete Oxidation of Volatile Organic Compounds and Methane. <i>Chemistry Letters</i> , <b>2011</b> , 40, 780-785	1.7	19
218	New sunscreen materials based on amorphous cerium and titanium phosphate. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 408-412, 1141-1144	5.7	19
217	Preparation and characterization of $\text{SiO}_2\text{-CeO}_2$ particles applicable for environment-friendly yellow pigments. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 4909-4911	4.3	19
216	Rare earth ion conduction in tungstate and phosphate solids. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 344, 137-140	5.7	19
215	Trivalent ion conduction of the $\text{Sc}_2(\text{WO}_4)_3\text{-x}\text{Lu}_2(\text{WO}_4)_3$ system. <i>Solid State Ionics</i> , <b>1999</b> , 118, 325-330	3.3	19

- 214 Novel environment-friendly yellow pigments based on praseodymium(III) tungstate. *Ceramics International*, **2017**, 43, 7366-7368 5.1 18
- 213 Novel environmentally friendly inorganic yellow pigments based on gehlenite-type structure. *Ceramics International*, **2016**, 42, 15104-15106 5.1 18
- 212 Novel environment friendly inorganic red pigments based on Bi<sub>4</sub>V<sub>2</sub>O<sub>11</sub>. *RSC Advances*, **2015**, 5, 44886-44894 3.7 18
- 211 Direct Decomposition of NO on C-type Cubic Rare Earth Oxides Based on Y<sub>2</sub>O<sub>3</sub>. *Chemistry Letters*, **2010**, 39, 456-457 1.7 18
- 210 Low-Temperature Redox Activity of Ce<sub>0.64</sub>Zr<sub>0.16</sub>Bi<sub>0.20</sub>O<sub>1.90</sub>/Al<sub>2</sub>O<sub>3</sub> and Ag/Ce<sub>0.64</sub>Zr<sub>0.16</sub>Bi<sub>0.20</sub>O<sub>1.90</sub>/Al<sub>2</sub>O<sub>3</sub> Catalysts. *Journal of Physical Chemistry C*, **2007**, 111, 13892-13897 3.8 18
- 209 Tetravalent Zr<sup>4+</sup> or Hf<sup>4+</sup> ion conduction in NASICON type solids. *Solid State Ionics*, **2002**, 154-155, 319-323 3.3 18
- 208 Optimization of divalent magnesium ion conduction in phosphate based polycrystalline solid electrolytes. *Ionics*, **2001**, 7, 440-446 2.7 18
- 207 First identification of tetravalent Hf<sup>4+</sup> ion-conducting solid. *Materials Letters*, **2002**, 53, 1-5 3.3 18
- 206 Single-crystal growth of aluminum tungstate-scandium tungstate solid solution samples by the modified Czochralski method. *Journal of Crystal Growth*, **1999**, 200, 169-171 1.6 18
- 205 Novel environmentally friendly inorganic red pigments based on calcium bismuth oxides. *Journal of Advanced Ceramics*, **2015**, 4, 39-45 10.7 17
- 204 Effects of Tb and Ba introduction on the reaction mechanism of direct NO decomposition over C-type cubic rare earth oxides based on Y<sub>2</sub>O<sub>3</sub>. *Catalysis Science and Technology*, **2013**, 3, 1928 5.5 17
- 203 Effect of introducing Fe<sub>2</sub>O<sub>3</sub> into CeO<sub>2</sub>-ZrO<sub>2</sub> on oxygen release properties and catalytic methane combustion over PdO/CeO<sub>2</sub>-ZrO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub>/Al<sub>2</sub>O<sub>3</sub> catalysts. *Catalysis Science and Technology*, **2017**, 7, 1986-1990 5.5 16
- 202 Chloride ion conduction in rare earth oxychlorides. *Solid State Ionics*, **2002**, 154-155, 577-580 3.3 16
- 201 Electrochemical Sc<sub>2</sub>O<sub>3</sub> single crystal growth. *Journal of Alloys and Compounds*, **2004**, 374, 97-100 5.7 16
- 200 Lithium Carbonate Flux Effects on the Luminescence Properties of Europium-doped Lanthanum Oxycarbonate Phosphor. *Chemistry Letters*, **2004**, 33, 58-59 1.7 16
- 199 Synthesis of crystalline yttrium oxycarbonate in a single phase. *Journal of Solid State Chemistry*, **2005**, 178, 3601-3603 3.3 16
- 198 New cation conducting solid electrolytes with the Sc<sub>2</sub>(WO<sub>4</sub>)<sub>3</sub> type structure. *Journal of Materials Chemistry*, **1999**, 9, 1357-1362 16
- 197 Fundamental Aspects of Rare Earth Oxides Affecting Direct NO Decomposition Catalysis. *European Journal of Inorganic Chemistry*, **2015**, 2015, 1524-1528 2.3 15

196	Synthesis of Green-Emitting (La,Gd)OBr:Tb <sup>3+</sup> Phosphors. <i>Materials</i> , <b>2010</b> , 3, 2506-2515	3.5	15
195	Synthesis of Red-emitting Phosphors Based on Gadolinium Oxysulfate by a Flux Method. <i>Electrochemistry</i> , <b>2009</b> , 77, 611-613	1.2	15
194	Carbon Dioxide Gas Sensor Suitable for In Situ Monitoring. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, H12		15
193	Electrochemical Sc <sub>2</sub> O <sub>3</sub> Single Crystal Growth. <i>Crystal Growth and Design</i> , <b>2003</b> , 3, 289-290	3.5	15
192	A CO <sub>2</sub> sensor based on a Sc <sup>3+</sup> conducting Sc <sub>1/3</sub> Zr <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> solid electrolyte. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 73, 205-210	8.5	15
191	The enhancement of trivalent ion conductivity in NASICON type solid electrolytes. <i>Journal of Materials Science Letters</i> , <b>2001</b> , 20, 2123-2125		15
190	Novel environment-friendly inorganic red pigments based on (Bi, Er, Y, Fe) <sub>2</sub> O <sub>3</sub> solid solutionsPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , <b>2014</b> , 2, 195-198	2.4	14
189	Sulfur dioxide gas sensor based on Zr <sup>4+</sup> and O <sup>2-</sup> on conducting solid electrolytes with lanthanum oxysulfate as an auxiliary sensing electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 177, 529-534	8.5	14
188	Low-temperature-operative Carbon Monoxide Gas Sensor with Novel CO Oxidizing Catalyst. <i>Chemistry Letters</i> , <b>2013</b> , 42, 441-443	1.7	14
187	Complete oxidation of acetaldehyde on Pt/CeO <sub>2</sub> /ZrO <sub>2</sub> /Bi <sub>2</sub> O <sub>3</sub> catalysts. <i>Materials Research Bulletin</i> , <b>2010</b> , 45, 1278-1282	5.1	14
186	Novel Multivalent Cation Conducting Ceramics and Their Application. <i>Journal of the Ceramic Society of Japan</i> , <b>2005</b> , 113, 387-393		14
185	Synthesis of New Green-emitting Gd <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> :Tb <sup>3+</sup> Fine Particles with High Luminescence Intensities. <i>Chemistry Letters</i> , <b>2005</b> , 34, 1236-1237	1.7	14
184	Carbon dioxide gas sensor based on trivalent cation and divalent oxide anion conducting solids with rare earth oxycarbonate based auxiliary electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 108, 359-363	8.5	14
183	Direct NO decomposition over C-type cubic Y <sub>2</sub> O <sub>3</sub> /Pr <sub>6</sub> O <sub>11</sub> /Eu <sub>2</sub> O <sub>3</sub> solid solutions. <i>Catalysis Today</i> , <b>2015</b> , 242, 338-342	5.3	13
182	High methane combustion activity of PdO/CeO <sub>2</sub> /ZrO <sub>2</sub> /NiO/Al <sub>2</sub> O <sub>3</sub> catalystsPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , <b>2016</b> , 4, 259-262	2.4	13
181	Complete Oxidation of Ethylene at Temperatures below 100 °C over a Pt/Ce <sub>0.64</sub> Zr <sub>0.16</sub> Bi <sub>0.20</sub> O <sub>1.90</sub> /Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>Chemistry Letters</i> , <b>2008</b> , 37, 42-43	1.7	13
180	Extraordinary High Tetravalent Cation Conducting Behaviors in Solid. <i>Chemistry Letters</i> , <b>2001</b> , 30, 446-447	7.7	13
179	Solid solution single crystal growth of the aluminum tungstate-candium tungstate system by a modified CZ method. <i>Journal of Crystal Growth</i> , <b>2000</b> , 208, 466-470	1.6	13

178	Carbon dioxide gas sensing with the combination of trivalent Sc <sup>3+</sup> ion conducting Sc <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> and O <sup>2-</sup> ion conducting stabilized zirconia solid electrolytes. <i>Solid State Ionics</i> , <b>2000</b> , 133, 279-285	3.3	13
177	Divalent Magnesium Ionic Conduction in the Magnesium Phosphate Based Composites. <i>Chemistry Letters</i> , <b>1999</b> , 28, 939-940	1.7	13
176	Selective NO <sub>2</sub> Sensing Characteristics of Sc <sub>2</sub> O <sub>3</sub> Mixed Nickel Copper Oxide. <i>Chemistry Letters</i> , <b>1994</b> , 23, 319-322	1.7	13
175	Green-emitting (La,M,Tb)OCl (M=Mg, Ca, and Sr) phosphors. <i>Optical Materials</i> , <b>2012</b> , 35, 280-284	3.3	12
174	Direct Decomposition of NO into N <sub>2</sub> and O <sub>2</sub> on C-type Cubic Y <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> and Y <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> -BaO. <i>Bulletin of the Chemical Society of Japan</i> , <b>2011</b> , 84, 807-811	5.1	12
173	Coexisting Gas-resistant C-type Cubic Yb <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> Catalysts for Direct NO Decomposition. <i>Chemistry Letters</i> , <b>2011</b> , 40, 708-710	1.7	12
172	Cerium ion conducting solid electrolyte. <i>Journal of Solid State Chemistry</i> , <b>2003</b> , 171, 387-390	3.3	12
171	New chlorine gas sensor fabricated from chlorine anion- and scandium(III) cation-conducting solid electrolytes. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 93, 233-236	8.5	12
170	A new type of bromide anion conducting solid. <i>Chemical Communications</i> , <b>2003</b> , 1270-1	5.8	12
169	Solid electrolyte type nitrogen monoxide gas sensor operating at intermediate temperature region. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 108, 314-318	8.5	12
168	Extraordinarily high Zr <sup>4+</sup> ion conducting solid. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 5338-5344	16.4	11
167	Total Nitrogen Oxides Gas Sensor Based on Solid Electrolytes with Refractory Oxide-Based Auxiliary Electrode. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, H113	3.9	11
166	First electrochemical growth of Tb <sub>16</sub> O <sub>30</sub> single crystal. <i>Journal of Solid State Chemistry</i> , <b>2004</b> , 177, 3839-3842	3.9	11
165	Extraordinary high potassium ion conducting polycrystalline solids based on gadolinium oxide-potassium nitrite solid solution. <i>Electrochemistry Communications</i> , <b>2003</b> , 5, 94-97	5.1	11
164	A new type of chlorine gas sensor with the combination of Cl <sup>-</sup> anion and Al <sup>3+</sup> cation conducting solid electrolytes. <i>Materials Letters</i> , <b>2003</b> , 57, 1966-1969	3.3	11
163	Optimization of Sc <sup>3+</sup> Ion Conduction in NASICON Type Solid Electrolytes. <i>Chemistry Letters</i> , <b>2001</b> , 30, 672-673	1.7	11
162	Chloride Ion Conducting Characteristics in Rare Earth Oxychlorides. <i>Chemistry Letters</i> , <b>2001</b> , 30, 130-131	1.7	11
161	CO <sub>2</sub> gas sensor with the combination of tetravalent zirconium cation and divalent oxide anion conducting solids with water-insoluble oxycarbonate electrode. <i>Electrochemistry Communications</i> , <b>2001</b> , 3, 451-454	5.1	11

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159	The Operating Temperature Lowering for CO <sub>2</sub> Gas Sensor with a Lithium Conducting Solid Electrolyte.. <i>Chemistry Letters</i> , <b>1992</b> , 103-106	1.7	11
158	Single Surface Sealed Type Carbon Dioxide Gas Sensor Based on a Lithium Ionic Conductor. <i>Electrochemistry</i> , <b>1993</b> , 61, 909-910		11
157	Catalytic liquid phase oxidation of 1,4-dioxane over a Pt/CeO <sub>2</sub> -ZrO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> /SBA-16 catalyst. <i>Journal of Advanced Ceramics</i> , <b>2015</b> , 4, 71-75	10.7	10
156	Selective liquid phase oxidation of cyclohexane over Pt/CeO <sub>2</sub> -ZrO <sub>2</sub> -SnO <sub>2</sub> /SiO <sub>2</sub> catalysts with molecular oxygen. <i>Journal of Advanced Ceramics</i> , <b>2015</b> , 4, 111-117	10.7	10
155	Tetravalent Zr <sup>4+</sup> ion conduction in NASICON-type phosphate solids. <i>Journal of Solid State Electrochemistry</i> , <b>2003</b> , 7, 239-243	2.6	10
154	Tetravalent Ion(Zr <sup>4+</sup> ) Conduction in Solids. <i>Chemistry Letters</i> , <b>2000</b> , 29, 452-453	1.7	10
153	Ceramics Sinterability Enhancement at Ambient Pressure by Boron Oxide Addition. <i>Advanced Materials</i> , <b>1999</b> , 11, 64-66	24	10
152	Relationship between the Conductivities of CeO <sub>2</sub> -ZrO <sub>2</sub> -MO <sub>x</sub> (M = Bi, Ca, Sn, Ni, Fe) Solid Solutions and Catalytic Activities during Methane Oxidation. <i>Bulletin of the Chemical Society of Japan</i> , <b>2018</b> , 91, 158-164	5.1	10
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150	Novel Catalysts for Methane Combustion Based on Cobalt-Doped Lanthanum Silicates Having an Apatite-type Structure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 40344-40350	9.5	9
149	Enhanced luminescent properties of Ca <sub>3</sub> Al <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> phosphors by Al <sup>3+</sup> doping into the Zr <sup>4+</sup> site in the host lattice. <i>Journal of Luminescence</i> , <b>2014</b> , 148, 198-201	3.8	9
148	Direct decomposition of nitrogen monoxide on (Ho, Zr, Pr) <sub>2</sub> O <sub>3</sub> + Catalysts. <i>Catalysis Communications</i> , <b>2014</b> , 43, 84-87	3.2	9
147	New Calcium Ion Conducting Solid Electrolyte with NASICON-type Structure. <i>Chemistry Letters</i> , <b>2017</b> , 46, 1486-1489	1.7	9
146	Liquid-phase oxidation of phenol in facile condition using Pt/CeO <sub>2</sub> -ZrO <sub>2</sub> -SnO <sub>2</sub> catalyst supported on mesoporous silica SBA-16. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 3999-4003	6.8	9
145	Solid Electrolyte Type NH <sub>3</sub> Gas Sensor Applicable in a Humid Atmosphere. <i>Electrochemistry</i> , <b>2010</b> , 78, 126-128	1.2	9
144	First Electrochemical Growth of Al <sub>2</sub> O <sub>3</sub> Single Crystal. <i>Crystal Growth and Design</i> , <b>2004</b> , 4, 663-665	3.5	9
143	Trivalent praseodymium ion conducting solid electrolyte composite with NASICON type structure. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 375, 212-216	5.7	9

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- <sup>131</sup> Glyceraldehyde production from glycerol over Pt/CeO<sub>2</sub>-ZrO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub>/SBA-16 catalysts around room temperature in open air system. *Materials Letters*, **2020**, 278, 128392 3.3 8
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121	A CO <sub>2</sub> Sensor Based on a Trivalent Ion Conducting Sc <sub>1/3</sub> Zr <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Solid Electrolyte. <i>Advanced Materials</i> , <b>2000</b> , 12, 898-901	24	7
120	Structural environment of chloride ion-conducting solids based on lanthanum oxychloride. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 297-303	3.8	7
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118	A New Catalytic Combustion-type Carbon Monoxide Gas Sensor Employing Precious Metal-free CO Oxidizing Catalyst. <i>ISIJ International</i> , <b>2015</b> , 55, 1699-1701	1.7	6
117	Novel Environmentally Friendly Inorganic Blue Pigments Based on Calcium Scandium Silicate Garnet. <i>Chemistry Letters</i> , <b>2013</b> , 42, 1562-1564	1.7	6
116	Synthesis of Red-emitting (Gd, Ca, Eu) <sub>2</sub> W <sub>2</sub> O <sub>9</sub> Phosphors. <i>Chemistry Letters</i> , <b>2011</b> , 40, 498-500	1.7	6
115	Enhancement of Photoluminescence in (Gd,Eu) <sub>2</sub> O(WO <sub>4</sub> ) <sub>2</sub> Phosphors by Lanthanum Doping into the Host Gd <sub>2</sub> O(WO <sub>4</sub> ) <sub>2</sub> Lattice. <i>ECS Journal of Solid State Science and Technology</i> , <b>2012</b> , 1, R41-R45	2	6
114	Novel catalysts for low-temperature combustion of diesel particulate matter. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 208-210		6
113	Electrochemical growth of nanometer-sized $\gamma$ -AlO single crystals by use of Al conducting solid electrolyte. <i>Solid State Ionics</i> , <b>2004</b> , 173, 131-134	3.3	6
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110	Preparation and Characterization of Amorphous Ce <sub>1-x</sub> Zr <sub>x</sub> W <sub>2</sub> O <sub>8</sub> Fine Particles for Environmental-friendly Yellow Pigments. <i>Chemistry Letters</i> , <b>2005</b> , 34, 1322-1323	1.7	6
109	. <i>Electroanalysis</i> , <b>2001</b> , 13, 1291-1294	3	6
108	Recent Progress on Mixed-Anion Materials for Energy Applications. <i>Bulletin of the Chemical Society of Japan</i> ,	5.1	6
107	Synthesis and characterization of divalent ion conductors with NASICON-type structures. <i>Journal of Asian Ceramic Societies</i> , <b>2019</b> , 7, 221-227	2.4	5

106	Direct Decomposition of Nitrous Oxide Using Yb <sub>2</sub> O <sub>3</sub> -Pr <sub>6</sub> O <sub>11</sub> with C-type Cubic Structure. <i>Chemistry Letters</i> , <b>2018</b> , 47, 996-999	1.7	5
105	Catalytic toluene combustion over Pt loaded on lanthanum silicate with apatite-type structure. <i>Functional Materials Letters</i> , <b>2019</b> , 12, 1950074	1.2	5
104	Complete Toluene Oxidation on Pt/CeO <sub>2</sub> -ZrO <sub>2</sub> -ZnO Catalysts. <i>Catalysts</i> , <b>2013</b> , 3, 646-655	4	5
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102	New bismuth ion conducting solid electrolyte. <i>Solid State Ionics</i> , <b>2011</b> , 192, 134-136	3.3	5
101	A New Type of Red-emitting (La,Ca)OCl:Eu <sup>3+</sup> Phosphors. <i>Chemistry Letters</i> , <b>2010</b> , 39, 604-606	1.7	5
100	High-Trivalent Rare Earth Ion Conduction in Solids Based on NASICON-Type Phosphate. <i>Bulletin of the Chemical Society of Japan</i> , <b>2008</b> , 81, 521-524	5.1	5
99	Electrochemical single crystal growth of Tb <sub>2</sub> O <sub>4</sub> microparticles. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 418, 101-105	5.7	5
98	A Smart Carbon Dioxide Gas Sensor Based on Solid Electrolytes. <i>Electrochemistry</i> , <b>2006</b> , 74, 118-120	1.2	5
97	Direct Evidence for Trivalent Cationic Conduction in Nd <sup>3+</sup> -β'-Al <sub>2</sub> O <sub>3</sub> The fully ion exchanged Nd <sup>3+</sup> -β'-Al <sub>2</sub> O <sub>3</sub> crystals were prepared at the Universität Hannover. The electrochemical investigations were conducted at Osaka University. J.K. gratefully acknowledges the financial support for his postdoctoral fellowship for foreign researchers in Japan by the Japan Society for	16.4	5
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95	Flux growth of Y <sub>2</sub> Cu <sub>2</sub> O <sub>5</sub> single crystals. <i>Journal of Crystal Growth</i> , <b>1994</b> , 141, 150-152	1.6	5
94	Structure and Magnetic Properties of Quasi-One Dimensional Cobalt-Doped Scandium Cuprate Compounds. <i>Journal of the Ceramic Society of Japan</i> , <b>1995</b> , 103, 330-334		5
93	Practical Smart CO <sub>2</sub> Gas Sensor Applicable for In-situ Real Time Monitoring. <i>Electrochemistry</i> , <b>2003</b> , 71, 14-18	1.2	5
92	Effect of oxygen vacancies on direct N <sub>2</sub> O decomposition over ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> catalysts. <i>Journal of Asian Ceramic Societies</i> , <b>2019</b> , 7, 518-523	2.4	5
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90	Sensitivity enhancement of catalytic combustion-type CO gas sensor using an artificial diamond with Pt-loaded CeO <sub>2</sub> -ZrO <sub>2</sub> -SnO <sub>2</sub> based catalyst. <i>Journal of the Ceramic Society of Japan</i> , <b>2018</b> , 126, 750-754	4	5
89	Catalytic liquid-phase oxidation of acetaldehyde to acetic acid over a Pt/CeO <sub>2</sub> -ZrO <sub>2</sub> -SnO <sub>2</sub> /Alumina catalyst. <i>Journal of Environmental Sciences</i> , <b>2015</b> , 36, 63-6	6.4	4

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80	Tetravalent Sn <sup>4+</sup> Ion Conductor Based on NASICON-Type Phosphate. <i>ECS Electrochemistry Letters</i> , <b>2012</b> , 1, A66-A69		4
79	A Discovery of Tetravalent Ge <sup>4+</sup> Ion Conduction in Solids. <i>Chemistry Letters</i> , <b>2009</b> , 38, 658-659	1.7	4
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75	Al <sup>3+</sup> ion conducting behavior in single crystal of aluminum tungstate-scandium tungstate solid solution. <i>Materials Letters</i> , <b>2002</b> , 55, 93-96	3.3	4
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73	Electrochemical Growth of Single Crystal Alumina Nanoparticles Using Al <sup>3+</sup> Ion Conducting Solid Electrolytes. <i>Electrochemistry</i> , <b>2004</b> , 72, 405-407	1.2	4
72	A Catalytic Combustion-type Carbon Monoxide Gas Sensor Incorporating an Apatite-type Oxide. <i>ISIJ International</i> , <b>2016</b> , 56, 1634-1637	1.7	4
71	Divalent Ni <sup>2+</sup> cation conduction in NASICON-type solid. <i>Materials Letters</i> , <b>2019</b> , 234, 261-263	3.3	4

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65	CO <sub>2</sub> Gas Sensing with the Combination of Trivalent Al <sup>3+</sup> Ion Conducting Al <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> Single Crystal Solid and Oxide Ion Conducting Stabilized Zirconia. <i>Chemistry Letters</i> , <b>2000</b> , 29, 68-69	1.7	3
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63	Nitrogen Monoxide Gas Sensor Operating at Intermediate Temperature Region. <i>Sensor Letters</i> , <b>2003</b> , 1, 51-55	0.9	3
62	SO <sub>2</sub> Gas Sensor Based on Al <sup>3+</sup> and O <sup>2-</sup> Ion Conducting Solids with La <sub>2</sub> O <sub>3</sub> /SO <sub>4</sub> Auxiliary Electrode. <i>Sensor Letters</i> , <b>2005</b> , 3, 27-30	0.9	3
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60	Enhancement of bromide ion conductivity in lanthanum oxybromide based solids by doping divalent zinc ion with high electronegativity. <i>Journal of Asian Ceramic Societies</i> , <b>2020</b> , 8, 925-929	2.4	3
59	Novel catalysts based on lanthanum oxyfluoride for toluene combustion. <i>Materials Letters</i> , <b>2020</b> , 258, 126802	3.3	3
58	Catalytic Liquid-phase Oxidation of Bisphenol-A under Moderate Condition Using CeO <sub>2</sub> -ZrO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> Supported on SBA-16. <i>Chemistry Letters</i> , <b>2017</b> , 46, 257-259	1.7	2
57	Photocatalytic hydrogen evolution from water over hafnium oxyphosphate. <i>Journal of the Ceramic Society of Japan</i> , <b>2019</b> , 127, 700-702	1	2
56	Red emitting phosphors based on titanite with high thermal stabilityPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , <b>2016</b> , 4, 133-137	2.4	2
55	Novel Environmentally Friendly Inorganic Yellow Pigments Based on CeO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> . <i>Bulletin of the Chemical Society of Japan</i> , <b>2013</b> , 86, 283-288	5.1	2
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53	Highly Tetravalent Hafnium Ion Conducting Solids with a NASICON-Type Structure. <i>Electrochemistry</i> , <b>2012</b> , 80, 743-745	1.2	2

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51	Electrochemical single crystal growth of Tb <sub>11</sub> O <sub>20</sub> . <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 451, 644-647	5.7	2
50	Electrochemical Single-Crystal Growth of Nonstoichiometric Terbium Oxide. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 1035-1038	3.5	2
49	An extraordinarily high Ba <sup>2+</sup> conducting solid. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 4230		2
48	Li <sup>+</sup> ion conducting properties in (Gd,La) <sub>2</sub> O <sub>3</sub> -In <sub>2</sub> O <sub>3</sub> -Nb <sub>2</sub> O <sub>5</sub> solid. <i>Solid State Ionics</i> , <b>2006</b> , 177, 2727-2730	3.3	2
47	Br <sup>-</sup> ion-conducting properties in La <sub>1-x</sub> M <sub>x</sub> OBr solid (M=Ca, Sr). <i>Solid State Ionics</i> , <b>2004</b> , 175, 455-458	3.3	2
46	Stabilization of amorphous titanium pyrophosphate by niobium or tantalum doping. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 3309-3311	4.3	2
45	Direkter Nachweis der Ionenleitung für dreiwertige Kationen in Nd <sup>3+</sup> -Al <sub>2</sub> O <sub>3</sub> . <i>Angewandte Chemie</i> , <b>2000</b> , 112, 931-934	3.6	2
44	Selective oxidation of glycerol to dihydroxyacetone using CeO <sub>2</sub> -ZrO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> -SnO <sub>2</sub> -supported platinum catalysts. <i>Journal of Asian Ceramic Societies</i> , <b>2020</b> , 8, 470-475	2.4	2
43	Improvement of bromide ion conduction in a lanthanum oxybromide-based solid by adjusting the electronegativity of the cation dopant. <i>Materials Letters</i> , <b>2021</b> , 286, 129211	3.3	2
42	Catalytic Liquid-Phase Oxidation of Phenolic Compounds Using Ceria-Zirconia Based Catalysts. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 553	5	2
41	Novel Br <sup>-</sup> ion conducting solid electrolyte based on LaOBr. <i>Journal of the Ceramic Society of Japan</i> , <b>2018</b> , 126, 761-765	1	2
40	Complete Oxidation of Formaldehyde over a Pt/CeO <sub>2</sub> -ZrO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> /SBA-16 Catalyst at Room Temperature. <i>Chemistry Letters</i> , <b>2018</b> , 47, 715-718	1.7	1
39	The First Combined Experimental and Theoretical Evaluation of Tetravalent Cation Conduction in a Solid. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 4300-4304	2.3	1
38	Novel Environment-friendly Green Pigments for Over-glazed Decoration of Arita Ware. <i>Journal of the Japan Society of Colour Material</i> , <b>2015</b> , 88, 203-207	0	1
37	Improvement of Toluene Oxidation Catalysis by Cu Doping into Co <sub>3</sub> O <sub>4</sub> in Pt/Co <sub>3</sub> O <sub>4</sub> /CeO <sub>2</sub> -ZrO <sub>2</sub> -SnO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , <b>2015</b> , 88, 746-751	5.1	1
36	Combustion of toluene catalyzed by Pt/Co <sub>3</sub> O <sub>4</sub> /CeO <sub>2</sub> -ZrO <sub>2</sub> -SnO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Materials Science Research</i> , <b>2013</b> , 2,	1	1
35	Development of Ammonia Gas Sensors Based on Trivalent Al <sup>3+</sup> Cation Conducting Solid Electrolyte. <i>Bulletin of the Chemical Society of Japan</i> , <b>2012</b> , 85, 634-641	5.1	1

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33	A New Type of Cesium-ion-conducting Solid. <i>Chemistry Letters</i> , <b>2011</b> , 40, 118-120	1.7	1
32	Pressure-enhanced tetravalent Hf <sup>4+</sup> ion conduction in HfNb(PO <sub>4</sub> ) <sub>3</sub> . <i>Solid State Communications</i> , <b>2002</b> , 123, 411-415	1.6	1
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30	K <sup>+</sup> ion conducting properties in the R <sub>2</sub> O <sub>3</sub> -KNO <sub>3</sub> (R: Rare earths) solid solution series. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 3689-3692	4.3	1
29	Moderate-temperature operable SO <sub>2</sub> gas sensor based on Zr <sup>4+</sup> ion conducting solid electrolyte. <i>Journal of Sensors and Sensor Systems</i> , <b>2012</b> , 1, 29-32	1.6	1
28	Novel Li <sup>+</sup> Ion-conductive Solid of LiNO <sub>3</sub> with (Gd <sub>0.9</sub> La <sub>0.1</sub> ) <sub>2</sub> O <sub>3</sub> . <i>Electrochemistry</i> , <b>2003</b> , 71, 1039-1041	1.2	1
27	Carbon Dioxide and Nitrogen Monoxide Gas Sensing by Applying Newly Developed Cerium Ion Conducting Solid Electrolyte. <i>Electrochemistry</i> , <b>2003</b> , 71, 402-404	1.2	1
26	Evidence for enormous iodide anion migration in lanthanum oxyiodide-based solid. <i>Science Advances</i> , <b>2021</b> , 7, eabh0812	14.3	1
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