

# Toshiyuki Mori

## List of Publications by Citations

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12,397  
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#	Paper	IF	Citations
297	Phosphorus-doped carbon nitride solid: enhanced electrical conductivity and photocurrent generation. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 6294-5	16.4	1014
296	Preparation and Characterization of Well-Ordered Hexagonal Mesoporous Carbon Nitride. <i>Advanced Materials</i> , <b>2005</b> , 17, 1648-1652	24	474
295	Non-covalent doping of graphitic carbon nitride polymer with graphene: controlled electronic structure and enhanced optoelectronic conversion. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4517	35.4	371
294	Co-precipitation synthesis and sintering of yttrium aluminum garnet (YAG) powders: the effect of precipitant. <i>Journal of the European Ceramic Society</i> , <b>2000</b> , 20, 2395-2405	6	280
293	Photocatalytic activity of La-doped ZnO for the degradation of monocrotophos in aqueous suspension. <i>Journal of Molecular Catalysis A</i> , <b>2007</b> , 266, 149-157		274
292	Wet chemical synthesis of nitrogen-doped graphene towards oxygen reduction electrocatalysts without high-temperature pyrolysis. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6575		257
291	Highly Ordered Nitrogen-Rich Mesoporous Carbon Nitrides and Their Superior Performance for Sensing and Photocatalytic Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8481-8485	16.4	209
290	Preparation of Highly Ordered Nitrogen-Containing Mesoporous Carbon from a Gelatin Biomolecule and its Excellent Sensing of Acetic Acid. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3596-3604	15.6	177
289	Photocatalytic degradation of 2,4,6-trichlorophenol using lanthanum doped ZnO in aqueous suspension. <i>Catalysis Communications</i> , <b>2007</b> , 8, 1377-1382	3.2	171
288	Carboxy-mesoporous carbon and its excellent adsorption capability for proteins. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 1819		171
287	Oxide ionic conductivity and microstructures of Sm- or La-doped CeO <sub>2</sub> -based systems. <i>Solid State Ionics</i> , <b>2002</b> , 154-155, 461-466	3.3	168
286	Coordination chemistry and supramolecular chemistry in mesoporous nanospace. <i>Coordination Chemistry Reviews</i> , <b>2007</b> , 251, 2562-2591	23.2	167
285	Low temperature processing of dense samarium-doped CeO <sub>2</sub> ceramics: sintering and grain growth behaviors. <i>Acta Materialia</i> , <b>2004</b> , 52, 2221-2228	8.4	148
284	Synthesis of Mesoporous BN and BCN Exhibiting Large Surface Areas via Templating Methods. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5887-5890	9.6	147
283	New families of mesoporous materials. <i>Science and Technology of Advanced Materials</i> , <b>2006</b> , 7, 753-771	7.1	142
282	Fabrication of Transparent Yttria Ceramics by the Low-Temperature Synthesis of Yttrium Hydroxide. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 85, 1725-1729	3.8	139
281	Large pore cage type mesoporous carbon, carbon nanocage: a superior adsorbent for biomaterials. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 5122		136

280	One-pot separation of tea components through selective adsorption on pore-engineered nanocarbon, carbon nanocage. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 11022-3	16.4	130
279	Polymeric Carbon Nitrides: Semiconducting Properties and Emerging Applications in Photocatalysis and Photoelectrochemical Energy Conversion. <i>Science of Advanced Materials</i> , <b>2012</b> , 4, 282-291	2.3	130
278	Facile synthesis and basic catalytic application of 3D mesoporous carbon nitride with a controllable bimodal distribution. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9831		122
277	Microstructural and metal-support interactions of the Pt-CeO <sub>2</sub> /C catalysts for direct methanol fuel cell application. <i>Langmuir</i> , <b>2011</b> , 27, 3859-66	4	122
276	Synthesis of nitrogen-rich mesoporous carbon nitride with tunable pores, band gaps and nitrogen content from a single aminoguanidine precursor. <i>ChemSusChem</i> , <b>2012</b> , 5, 700-8	8.3	117
275	Oxygen-vacancy ordering in lanthanide-doped ceria: Dopant-type dependence and structure model. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	115
274	Three-Dimensional Cage Type Mesoporous CN-Based Hybrid Material with Very High Surface Area and Pore Volume. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 4367-4372	9.6	114
273	Low-Temperature Fabrication of Transparent Yttrium Aluminum Garnet (YAG) Ceramics without Additives. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 961-963	3.8	107
272	Microstructures and electrolytic properties of yttrium-doped ceria electrolytes: Dopant concentration and grain size dependences. <i>Acta Materialia</i> , <b>2006</b> , 54, 3737-3746	8.4	106
271	Role of Cerium Oxide in the Enhancement of Activity for the Oxygen Reduction Reaction at Pt/CeO <sub>x</sub> Nanocomposite Electrocatalyst - An in Situ Electrochemical X-ray Absorption Fine Structure Study. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 10098-10102	3.8	105
270	Putting the 'N' in ACENE: pyrazinacenes and their structural relatives. <i>Organic and Biomolecular Chemistry</i> , <b>2011</b> , 9, 5005-17	3.9	104
269	Oxygen vacancy ordering in heavily rare-earth-doped ceria. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 171911	3.4	104
268	Photoluminescence study of mixtures of anatase and rutile TiO <sub>2</sub> nanoparticles: Influence of charge transfer between the nanoparticles on their photoluminescence excitation bands. <i>Chemical Physics Letters</i> , <b>2005</b> , 409, 81-84	2.5	99
267	Carbon nanocage: a large-pore cage-type mesoporous carbon material as an adsorbent for biomolecules. <i>Journal of Porous Materials</i> , <b>2006</b> , 13, 379-383	2.4	97
266	Fabrication of partially graphitic three-dimensional nitrogen-doped mesoporous carbon using polyaniline nanocomposite through nanotemplating method. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 109, 398-404	5.3	96
265	Influence of particle morphology on nanostructural feature and conducting property in Sm-doped CeO <sub>2</sub> sintered body. <i>Solid State Ionics</i> , <b>2004</b> , 175, 641-649	3.3	95
264	Characterization and sintering of nanocrystalline CeO <sub>2</sub> powders synthesized by a mimic alkoxide method. <i>Acta Materialia</i> , <b>2001</b> , 49, 419-426	8.4	92
263	Synthesis of MgAl spinel powder via precipitation using ammonium bicarbonate as the precipitant. <i>Journal of the European Ceramic Society</i> , <b>2001</b> , 21, 139-148	6	91

262	Controlling the textural parameters of mesoporous carbon materials. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 100, 20-26	5.3	86
261	Highly crystalline and conductive nitrogen-doped mesoporous carbon with graphitic walls and its electrochemical performance. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 3390-7	4.8	83
260	A wet-chemical process yielding reactive magnesium aluminate spinel (MgAl <sub>2</sub> O <sub>4</sub> ) powder. <i>Ceramics International</i> , <b>2001</b> , 27, 481-489	5.1	83
259	Multiple Doping Effect on the Electrical Conductivity in the (Ce <sub>1-x-y</sub> La <sub>x</sub> My) <sub>2</sub> O <sub>3</sub> (M = Ca, Sr) System. <i>Electrochemistry</i> , <b>2000</b> , 68, 455-459	1.2	83
258	Thermoelectric properties of homologous p- and n-type boron-rich borides. <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 2908-2915	3.3	82
257	Reactive Ceria Nanopowders via Carbonate Precipitation. <i>Journal of the American Ceramic Society</i> , <b>2002</b> , 85, 2376-2378	3.8	80
256	Three-dimensional ultralarge-pore Ia3d mesoporous silica with various pore diameters and their application in biomolecule immobilization. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 11529-38	4.8	75
255	Platinum-doped CeO <sub>2</sub> thin film catalysts prepared by magnetron sputtering. <i>Langmuir</i> , <b>2010</b> , 26, 12824-31	4.1	72
254	Selective sensing performance of mesoporous carbon nitride with a highly ordered porous structure prepared from 3-amino-1,2,4-triazine. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2913	13	71
253	Improvement of Grain-Boundary Conductivity of 8 mol % Ytria-Stabilized Zirconia by Precursor Scavenging of Siliceous Phase. <i>Journal of the Electrochemical Society</i> , <b>2000</b> , 147, 2822	3.9	71
252	Low-Temperature Synthesis of Praseodymium-Doped Ceria Nanopowders. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 85, 3105-3107	3.8	69
251	Sparse modeling of EELS and EDX spectral imaging data by nonnegative matrix factorization. <i>Ultramicroscopy</i> , <b>2016</b> , 170, 43-59	3.1	66
250	Fabrication of Transparent, Sintered Sc <sub>2</sub> O <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 817-821	3.8	65
249	Activity of oxygen reduction reaction on small amount of amorphous CeO <sub>x</sub> promoted Pt cathode for fuel cell application. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 3874-3883	6.7	63
248	Anhydrous Proton-Conducting Properties of Nafion <sup>®</sup> 2,4-Triazole and Nafion <sup>®</sup> Benzimidazole Membranes for Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A290	3.9	63
247	Preparation of High-Purity ZrSiO <sub>4</sub> Powder Using Sol-Gel Processing and Mechanical Properties of the Sintered Body. <i>Journal of the American Ceramic Society</i> , <b>1992</b> , 75, 2420-2426	3.8	63
246	Fabrication of Translucent Magnesium Aluminum Spinel Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 2866-2868	3.8	61
245	Nanocrystalline Ce <sub>1-x</sub> Y <sub>x</sub> O <sub>2-x/2</sub> (0 ≤ x ≤ 0.35) Oxides via Carbonate Precipitation: Synthesis and Characterization. <i>Journal of Solid State Chemistry</i> , <b>2002</b> , 168, 52-59	3.3	61

244	Influence of nano-structural feature on electrolytic properties in Y2O3 doped CeO2 system. <i>Science and Technology of Advanced Materials</i> , <b>2003</b> , 4, 213-220	7.1	61
243	Reactive Ce <sub>0.8</sub> RE <sub>0.2</sub> O <sub>1.9</sub> (RE = La, Nd, Sm, Gd, Dy, Y, Ho, Er, and Yb) Powders via Carbonate Coprecipitation. 1. Synthesis and Characterization. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 2913-2920	9.6	61
242	Design of nanostructured ceria-based solid electrolytes for development of IT-SOFC. <i>Journal of Solid State Electrochemistry</i> , <b>2008</b> , 12, 841-849	2.6	60
241	Well-sinterable Y3Al5O12 Powder from Carbonate Precursor. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 1514-1523	2.5	58
240	Synthesis and Characterization of Nano-Hetero-Structured Dy Doped CeO2 Solid Electrolytes Using a Combination of Spark Plasma Sintering and Conventional Sintering. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 88, 1981-1984	3.8	57
239	Pyrazinacenes: aza analogues of acenes. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 8914-23	4.2	55
238	Design of High-Quality Pt/CeO2 Composite Anodes Supported by Carbon Black for Direct Methanol Fuel Cell Application. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 1291-1294	3.8	55
237	10-mol%-Gd2O3-Doped CeO2 Solid Solutions via Carbonate Coprecipitation: A Comparative Study. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 915-921	3.8	55
236	Heat capacity and thermodynamic functions of zirconia and yttria-stabilized zirconia. <i>Journal of Chemical Thermodynamics</i> , <b>1999</b> , 31, 831-845	2.9	53
235	Compositional and structural characteristics of nano-sized domains in gadolinium-doped ceria. <i>Solid State Ionics</i> , <b>2008</b> , 179, 827-831	3.3	49
234	Fe-N-C Artificial Enzyme: Activation of Oxygen for Dehydrogenation and Monoxygenation of Organic Substrates under Mild Condition and Cancer Therapeutic Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 35327-35333	9.5	47
233	Direct evidence of dopant segregation in Gd-doped ceria. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 093104	3.4	46
232	Stability of Ceria Supports in Pt/CeOx/C Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 19239-19245	5.8	45
231	Dopant type dependency of domain development in rare-earth-doped ceria: An explanation by computer simulation of defect clusters. <i>Solid State Ionics</i> , <b>2009</b> , 180, 1127-1132	3.3	44
230	Electrolytic Properties and Nanostructural Features in the La <sub>2</sub> O <sub>3</sub> -CeO <sub>2</sub> System. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, A665	3.9	44
229	Ionic liquid-derived Fe/C catalysts for highly efficient oxygen reduction reaction without any supports, templates, or multi-step pyrolysis. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6630-6638	13	44
228	Coupling multiphase-Fe and hierarchical N-doped graphitic carbon as trifunctional electrocatalysts by supramolecular preorganization of precursors. <i>Chemical Communications</i> , <b>2017</b> , 53, 2044-2047	5.8	42
227	Organic-Inorganic Hybrid Membranes for a PEMFC Operation at Intermediate Temperatures. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, A508	3.9	42

226	Reductive decomposition of nitrate ion to nitrogen in water on a unique hollandite photocatalyst. <i>Applied Catalysis B: Environmental</i> , <b>1999</b> , 23, 283-289	21.8	42
225	Laser-assisted three-dimensional atom probe analysis of dopant distribution in Gd-doped CeO <sub>2</sub> . <i>Scripta Materialia</i> , <b>2010</b> , 63, 332-335	5.6	41
224	TEM and XPS analysis of Ce <sub>x</sub> Ce <sub>1-x</sub> O <sub>2-y</sub> (x=0.05-0.5) as electrolyte materials for solid oxide fuel cells. <i>Acta Materialia</i> , <b>2009</b> , 57, 722-731	8.4	40
223	Simulation of ordering in large defect clusters in gadolinium-doped ceria. <i>Solid State Ionics</i> , <b>2008</b> , 179, 1962-1967	3.3	40
222	Influence of microstructure on oxide ionic conductivity in doped CeO <sub>2</sub> electrolytes. <i>Journal of Electroceramics</i> , <b>2006</b> , 17, 749-757	1.5	40
221	Design of Low Pt Concentration Electrocatalyst Surfaces with High Oxygen Reduction Reaction Activity Promoted by Formation of a Heterogeneous Interface between Pt and CeO(x) Nanowire. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9059-70	9.5	39
220	Preparation and characterization of novel microporous carbon nitride with very high surface area via nanocasting technique. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 108, 340-344	5.3	39
219	Unusual magnetic properties of size-controlled iron oxide nanoparticles grown in a nanoporous matrix with tunable pores. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 7358-61	16.4	38
218	Low-temperature fabrication and electrical property of 10 mol% Sm <sub>2</sub> O <sub>3</sub> -doped CeO <sub>2</sub> ceramics. <i>Science and Technology of Advanced Materials</i> , <b>2003</b> , 4, 229-238	7.1	38
217	Synthesis, characterization, and electrical conduction of 10mol% Dy <sub>2</sub> O <sub>3</sub> -doped CeO <sub>2</sub> ceramics. <i>Journal of the European Ceramic Society</i> , <b>2005</b> , 25, 949-956	6	38
216	Defects clustering and ordering in di- and trivalently doped ceria. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 807-812	5.1	37
215	Fast proton conductor under anhydrous condition synthesized from 12-phosphotungstic acid and ionic liquid. <i>Electrochimica Acta</i> , <b>2007</b> , 53, 963-967	6.7	37
214	Characterization and catalytic performances of three-dimensional mesoporous FeSBA-1 catalysts. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 11924-31	3.4	37
213	Hexagonally ordered mesoporous highly acidic ALSBA-15 with different morphology: An efficient catalyst for acetylation of aromatics. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 116, 108-115	5.3	35
212	Photoluminescence excitation bands corresponding to defect states due to oxygen vacancies in yttria-stabilized zirconia. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 408-412, 728-731	5.7	35
211	Influence of platinum loading on photoluminescence of TiO <sub>2</sub> powder. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 925-927	2.5	35
210	Highly Ordered Nitrogen-Rich Mesoporous Carbon Nitrides and Their Superior Performance for Sensing and Photocatalytic Hydrogen Generation. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8601-8605	3.6	34
209	An Intermediate-Temperature Biomass Fuel Cell Using Wood Sawdust and Pulp Directly as Fuel. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, F557-F563	3.9	33

208	Reactive 10 mol% RE <sub>2</sub> O <sub>3</sub> (RE = Gd and Sm) doped CeO <sub>2</sub> nanopowders: Synthesis, characterization, and low-temperature sintering into dense ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2005</b> , 121, 54-59	3.1	33
207	Present status and future prospect of design of Pt/terium oxide electrodes for fuel cell applications. <i>Progress in Natural Science: Materials International</i> , <b>2012</b> , 22, 561-571	3.6	32
206	A structure model of nano-sized domain in Gd-doped ceria. <i>Solid State Ionics</i> , <b>2009</b> , 180, 1414-1420	3.3	32
205	Silicotungstic acid/zirconia immobilized on SBA-15 for esterifications. <i>Journal of Molecular Catalysis A</i> , <b>2007</b> , 271, 46-56		32
204	Ordered structures of defect clusters in gadolinium-doped ceria. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 224708	3.9	31
203	Formation mechanism of ZrSiO <sub>4</sub> powders. <i>Journal of Materials Science</i> , <b>1993</b> , 28, 4970-4973	4.3	31
202	Driving electrochemical oxygen reduction and hydrazine oxidation reaction by enzyme-inspired polymeric Cu(3,3'-diaminobenzidine) catalyst. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17413-17420	13	30
201	Comparative study on the magnetic properties of iron oxide nanoparticles loaded on mesoporous silica and carbon materials with different structure. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 121, 178-184	5.3	30
200	Evidence of Intragranular Segregation of Dopant Cations in Heavily Yttrium-Doped Ceria. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, P1		29
199	Wet-Chemical Routes Leading to Scandia Nanopowders. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 1493-1499	3.8	29
198	Improvement of cathode performance on Pt-CeO(x) by optimization of electrochemical pretreatment condition for PEFC application. <i>Langmuir</i> , <b>2012</b> , 28, 16692-700	4	28
197	Halogen-free acylation of toluene over FeSBA-1 molecular sieves. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 100, 87-94	5.3	28
196	Fabrication of Transparent Yttria Ceramics through the Synthesis of Yttrium Hydroxide at Low Temperature and Doping by Sulfate Ions.. <i>Journal of the Ceramic Society of Japan</i> , <b>1999</b> , 107, 297-299		28
195	Fabrication of a nano-structured Pt-loaded cerium oxide nanowire and its anode performance in the methanol electro-oxidation reaction. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6262	13	27
194	Electrical conductivity in the system ZrO <sub>2</sub> /Y <sub>2</sub> O <sub>3</sub> /Ce <sub>2</sub> O <sub>3</sub> . <i>Solid State Ionics</i> , <b>1998</b> , 107, 185-189	3.3	27
193	Ionic Conductivities and Microstructures of Ytterbium-Doped Ceria. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, B180	3.9	27
192	Microstructural characterization of terbium-doped ceria. <i>Materials Research Bulletin</i> , <b>2007</b> , 42, 943-949	5.1	27
191	Compositional and valent state inhomogeneities and ordering of oxygen vacancies in terbium-doped ceria. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 113528	2.5	27

190	Monodispersed Sc <sub>2</sub> O <sub>3</sub> precursor particles via homogeneous precipitation: Synthesis, thermal decomposition, and the effects of supporting anions on powder properties. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 1149-1156	2.5	27
189	Defect structure analysis of heterointerface between Pt and CeO <sub>x</sub> promoter on Pt electro-catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 2698-707	9.5	26
188	Cerium-Reduction-Induced Defects Clustering, Ordering, and Associated Microstructure Evolution in Yttrium-Doped Ceria. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 5435-5443	3.8	26
187	Optimization of ionic conductivity in solid electrolytes through dopant-dependent defect cluster analysis. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 8369-75	3.6	26
186	Diverse self-assembly in soluble oligoazaacenes: a microscopy study. <i>Langmuir</i> , <b>2009</b> , 25, 8408-13	4	26
185	Effect of nickel diffusion on the microstructure of Gd-doped ceria (GDC) electrolyte film supported by Ni <sub>0.8</sub> DC cermet anode. <i>Solid State Ionics</i> , <b>2010</b> , 181, 646-652	3.3	26
184	Lysozyme adsorption onto mesoporous materials: effect of pore geometry and stability of adsorbents. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 828-32	1.3	26
183	Influence of nano-structure on electrolytic properties in CeO <sub>2</sub> based system. <i>Magyar Árvad Kélemblyek</i> , <b>2002</b> , 70, 309-319	0	26
182	Fabrication of transparent Sc <sub>2</sub> O <sub>3</sub> ceramics with powders thermally pyrolyzed from sulfate. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 1816-1822	2.5	26
181	Grain boundary's conductivity in heavily yttrium doped ceria. <i>Solid State Ionics</i> , <b>2012</b> , 222-223, 31-37	3.3	25
180	Mutual diffusion occurring at the interface between La <sub>0.8</sub> Co <sub>0.2</sub> Fe <sub>0.1</sub> O <sub>3</sub> cathode and Gd-doped ceria electrolyte during IT-SOFC cell preparation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 2772-89.5	9.5	25
179	Preparation of an Alkali-Element or Alkali-Earth-Element-Doped CeO <sub>2</sub> /Sm <sub>2</sub> O <sub>3</sub> System and Its Operation Properties as the Electrolyte in Planar Solid Oxide Fuel Cells. <i>Journal of Materials Synthesis and Processing</i> , <b>1998</b> , 6, 175-179		25
178	Sc <sub>2</sub> O <sub>3</sub> Nanopowders via Hydroxyl Precipitation: Effects of Sulfate Ions on Powder Properties. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 1008-1013	3.8	25
177	Application of a Crystallographic Index for Improvement of the Electrolytic Properties of the CeO <sub>2</sub> - Sm <sub>2</sub> O <sub>3</sub> System. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 4380-4385	3.9	25
176	Order-Disorder Transition of BaM <sub>2</sub> O <sub>4</sub> Bodies (M: La, Nd, Sm, Gd, Ho or Y) Synthesized by Sintering of BaCO <sub>3</sub> -M <sub>2</sub> O <sub>3</sub> Mixtures. <i>Journal of the Ceramic Society of Japan</i> , <b>1994</b> , 102, 583-586		25
175	Structural phase transformation through defect cluster growth in Gd-doped ceria. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	24
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168	Preparation and anode property of Pt-CeO <sub>2</sub> electrodes supported on carbon black for direct methanol fuel cell applications. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 2314-2322	2.5	23
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164	Antioxidant-substituted tetrapyrazinoporphyrazine as a fluorescent sensor for basic anions. <i>Chemical Communications</i> , <b>2012</b> , 48, 3951-3	5.8	21
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52	Study of palladium interaction with magnetron sputtered SnO <sub>2</sub> films. <i>E-Journal of Surface Science and Nanotechnology</i> , <b>2006</b> , 4, 497-503	0.7	3
51	Microstructure evolution of yttria-doped ceria in reducing atmosphere. <i>Renewable Energy</i> , <b>2013</b> , 50, 494-497	8.1	2
50	An Assessment of Interatomic Potentials for Yttria-Stablized Zirconia. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 492, 239-247	0.3	2
49	Incubational domain characterization in lightly doped ceria. <i>Journal of Solid State Chemistry</i> , <b>2012</b> , 192, 28-33	3.3	2
48	Glass-Phase Movement in Yttria-Stabilized Zirconia/Alumina Composites. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 1494	3.8	2
47	Minimization of Pt content in Pt-CeO <sub>2</sub> composite anode. <i>Transactions of the Materials Research Society of Japan</i> , <b>2008</b> , 33, 1097-1100	0.2	2

46	Synthesis of well-ordered carboxyl group functionalized mesoporous carbon using non-toxic oxidant, (NH <sub>4</sub> ) <sub>2</sub> S <sub>2</sub> O <sub>8</sub> . <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 165, 909-912	1.8	2
45	One and three dimensional mesoporous carbon nitride molecular sieves with tunable pore diameters. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 165, 905-908	1.8	2
44	Photoluminescence properties of a hollandite compound K <sub>2</sub> Ga <sub>2</sub> Sn <sub>6</sub> O <sub>16</sub> . <i>Science and Technology of Advanced Materials</i> , <b>2003</b> , 4, 247-251	7.1	2
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39	Selective reduction of nitrogen oxide with propene on protonated Alumina catalyst: Design of active site for catalytic reaction. <i>Applied Catalysis A: General</i> , <b>1995</b> , 132, 21-27	5.1	2
38	Order-disorder Transition of Synthesized Ba <sub>2</sub> In <sub>2</sub> O <sub>5</sub> , Ba <sub>3</sub> Y <sub>4</sub> O <sub>9</sub> and BaNd <sub>2</sub> O <sub>4</sub> with a Perovskite-related Structure. <i>Electrochemistry</i> , <b>1996</b> , 64, 683-685		2
37	Preparation of Y <sub>3</sub> NbO <sub>7</sub> Powders with Excess Oxygen Vacancies and Conductivity of the Sintered Bodies. <i>Journal of the Ceramic Society of Japan</i> , <b>1993</b> , 101, 671-674		2
36	Stability of Tetragonal Zirconia in Molten Fluoride Salts. <i>Journal of the Ceramic Association Japan</i> , <b>1986</b> , 94, 961-969		2
35	Design of Pt-CeO <sub>x</sub> hetero-interface on electrodes in polymer electrolyte membrane fuel cells. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2014</b> , 54, 012010	0.4	1
34	Nano-structure design of doped ceria solid electrolytes for intermediate temperature operation of solid oxide fuel cell. <i>Transactions of the Materials Research Society of Japan</i> , <b>2010</b> , 35, 431-441	0.2	1
33	Design of Micro-Structure at Atom Level in Dy Doped CeO <sub>2</sub> Solid Electrolytes for Fuel Cell Applications. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 1437-1442	0.4	1
32	Mesoporous Nitrides through Nano-Hard Templating Techniques. <i>Solid State Phenomena</i> , <b>2007</b> , 119, 291-294	0.4	1
31	Relationship between Microstructure and Ionic Conductivity in Ytterbium Doped Ceria		1
30	Oxygen dependence of NO adsorption on Hollandite-type K <sub>x</sub> Ga <sub>x</sub> Sn <sub>8-x</sub> O <sub>16</sub> thin film. <i>Research on Chemical Intermediates</i> , <b>2002</b> , 28, 493-503	2.8	1
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20	Design of Active Site at Heterointerface between Brownmillerite Type Oxide Promoter and Fluorite Cubic ZrO <sub>2</sub> in Anode of Intermediate Temperature SOFCs. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5183-5197	6.1	0
19	Surface layer of Pt-O-Ce bonds on CeO <sub>x</sub> nanowire with high ORR activity converted by proton beam irradiation. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 1945-1952	3.8	0
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