Eiki Niwa

List of Publications by Year in descending order

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567281 642732 43 619 15 23 citations h-index g-index papers 45 45 45 682 docs citations citing authors all docs times ranked

| # | Article | IF | CITATIONS |
|----|--|-----------|---------------------|
| 1 | Oxide-ion conduction in the Dion–Jacobson phase CsBi2Ti2NbO10â^Î. Nature Communications, 2020, 11, 1224. | 12.8 | 50 |
| 2 | Direct evidence for two-dimensional oxide-ion diffusion in the hexagonal perovskite-related oxide Ba ₃ MoNbO _{8.5a^î^(} . Journal of Materials Chemistry A, 2019, 7, 13910-13916. | 10.3 | 44 |
| 3 | Sintering temperature dependence of conductivity, porosity and specific surface area of LaNi0.6Fe0.4O3 ceramics as cathode material for solid oxide fuel cellsâ€"Superiority of Pechini method among various solution mixing processes. Materials Research Bulletin, 2013, 48, 1-6. | 5.2 | 35 |
| 4 | Discovery of a Rare-Earth-Free Oxide-Ion Conductor Ca ₃ Ga ₄ O ₉ by Screening through Bond Valence-Based Energy Calculations, Synthesis, and Characterization of Structural and Transport Properties. Inorganic Chemistry, 2019, 58, 9460-9468. | 4.0 | 34 |
| 5 | Conductivity and sintering property of LaNi1â^'xFexO3 ceramics prepared by Pechini method. Solid State lonics, 2011, 201, 87-93. | 2.7 | 30 |
| 6 | Thermodynamic analyses of structural phase transition of Pr2NiO4+ \hat{l} involving variation of oxygen content. Thermochimica Acta, 2014, 575, 129-134. | 2.7 | 25 |
| 7 | Experimental visualization of oxide-ion diffusion paths in pyrochlore-type Yb ₂ Ti ₂ 7. Journal of the Ceramic Society of Japan, 2018, 126, 341-345. | 1.1 | 25 |
| 8 | Thermal Expansion and Phase Transition Behavior of Al2-xMx(WO4)3 (M=Y, Ga and Sc) Ceramics. Journal of the Ceramic Society of Japan, 2007, 115, 176-181. | 1.3 | 24 |
| 9 | High performance of electroless-plated platinum electrode for electrochemical hydrogen pumps using strontium-zirconate-based proton conductors. Electrochimica Acta, 2008, 53, 8172-8177. | 5.2 | 24 |
| 10 | Evaluation of reaction kinetics of CO 2 and Li 4 SiO 4 by thermogravimetry under various CO 2 partial pressures. Materials Research Bulletin, 2018, 97, 56-60. | 5.2 | 22 |
| 11 | Analysis of chemical reaction between Li 4 SiO 4 and CO 2 by thermogravimetry under various CO 2 partial pressuresâ€"Clarification of CO 2 partial pressure and temperature region of CO 2 absorption or desorption. Materials Research Bulletin, 2017, 94, 134-139. | 5.2 | 19 |
| 12 | Dependence of thermal expansion of LaNi0.6Fe0.4O3â^' and La0.6Sr0.4Co0.2Fe0.8O3â^' on oxygen partial pressure. Solid State Ionics, 2016, 285, 187-194. | 2.7 | 18 |
| 13 | Discovery of Oxide-Ion Conductors with a New Crystal Structure, BaSc _{2â€"<i>x< i>< sub><i>A< i>_{<i>x< i>< sub>Si_{3< sub>O_{10â€"<i>x< i>x< i> 2< sub> (<i>A< i>= Mg, Ca) by Screening Sc-Containing Oxides through the Bond-Valence Method and Experiments, ACS Applied Energy Materials, 2018, 1, 4009-4015.</i></i>}}</i>}</i></i>} | 5.1 | 17 |
| 14 | Crystal structure of blue-colored ceria during redox reactions in a hydrogen atmosphere. CrystEngComm, 2018, 20, 155-158. | 2.6 | 16 |
| 15 | Analysis of structural phase transition of Nd2NiO4+ \hat{l} by scanning thermal measurement under controlled oxygen partial pressure. Thermochimica Acta, 2011, 523, 46-50. | 2.7 | 15 |
| 16 | Preparation of Ba1â^'La FeO3â^' (x = 0.1–0.6) with cubic perovskite phase and random distribution of oxide ion vacancy and their electrical conduction property and thermal expansion behavior. Solid State lonics, 2018, 320, 76-83. | 2.7 | 15 |
| 17 | A new structure family of oxide-ion conductors Ca _{0.8} 0.8Y _{2.4} Sn _{0.8} O ₆ discovered by a combined technique of the bond-valence method and experiments. Dalton Transactions, 2018, 47, 7515-7521. | 3.3 | 15 |
| 18 | Evaluation of Specific Surface Area and Pore Size Distribution of ⟨scp⟩⟨scp⟩La⟨ scp⟩⟨scp⟩⟨lscp⟩⟨scp⟩⟨sub⟩0.6⟨ sub⟩⟨scp⟩⟨scp⟩⟨scp⟩⟨lscp⟩⟨scp⟩⟨scp⟩⟨scp⟩⟨scp⟩⟨scp⟩⟨scp⟩⟨scp⟩⟨ | >O 3.8 | <sub< td=""></sub<> |

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| 19 | Pr/Ba cation-disordered perovskite Pr _{2/3} Ba _{1/3} CoO _{3â^î} as a new bifunctional electrocatalyst for oxygen reduction and oxygen evolution reactions. Journal of the Ceramic Society of Japan, 2018, 126, 814-819. | 1.1 | 14 |
| 20 | Dependence of crystal symmetry, electrical conduction property and electronic structure of LnFeO ₃ (Ln: La, Pr, Nd, Sm) on kinds of Ln ³⁺ . Journal of the Ceramic Society of Japan, 2015, 123, 501-506. | 1.1 | 13 |
| 21 | Crystal structure and electrical conductivity of Ba <i>R</i> _{ZnO₅ (<i>R</i> = Sm, Gd,) Tj ET lapan. 2018. 126. 292-299.} | Qq1 1 0.7 1.1 | 84314 rgBT |
| 22 | Thermal analysis of structural phase transition behavior of Ln2Ni1â^'xCuxO4+δ (Ln = Nd, Pr) under various oxygen partial pressures. Journal of Thermal Analysis and Calorimetry, 2019, 135, 2765-2774. | 3.6 | 13 |
| 23 | Li vaporization property of two-phase material of Li2TiO3 and Li2SiO3 for tritium breeder. Fusion Engineering and Design, 2015, 98-99, 1859-1863. | 1.9 | 12 |
| 24 | Oxygen nonstoichiometry and electrical conductivity of LaNi0.6Fe0.4O3â^' at high temperatures under various oxygen partial pressures. Solid State Ionics, 2015, 274, 119-122. | 2.7 | 10 |
| 25 | Electrical conduction mechanism of LaNixMe1â^'xO3â^'Î^ (Me=Fe, Mn). Materials Research Bulletin, 2015, 70, 241-247. | 5.2 | 10 |
| 26 | Dependence of crystal structure, phase transition temperature, chemical state of Fe, oxygen content and electrical conductivity of Ba2-La Fe2O5+ (x= 0.00–0.15) on La content. Solid State Ionics, 2016, 290, 71-76. | 2.7 | 10 |
| 27 | Construction of structural phase diagram of Nd2Ni1-Cu O4+ and effect of crystal structure and phase transition on electrical conduction behavior. Materials Research Bulletin, 2019, 111, 61-69. | 5.2 | 10 |
| 28 | Chemical state of Fe in LaNi1 â^' x Fe x O3 and its effect on electrical conduction property. Hyperfine Interactions, 2012, 206, 47-50. | 0.5 | 8 |
| 29 | Analysis of structural phase transition behavior of Ln2NiO4+ (Ln: Nd, Pr) with variation of oxygen content. Solid State Ionics, 2014, 262, 724-727. | 2.7 | 8 |
| 30 | Sillén–Aurivillius phase bismuth niobium oxychloride, Bi ₄ NbO ₈ Cl, as a new oxide-ion conductor. Journal of Materials Chemistry A, 2022, 10, 2550-2558. | 10.3 | 8 |
| 31 | K2NiF4 type oxides, Ln2-Sr NiO4+ (LnÂ=ÂLa and Pr; xÂ=ÂO–1.4) as an oxygen electrocatalyst for aqueous lithium–oxygen rechargeable batteries. Solid State Ionics, 2021, 369, 115708. | 2.7 | 7 |
| 32 | Prevention of Sulfur Poisoning and Performance Recovery of Sulfur-Poisoned-Anode Electrode by Shifting Anode Electrode Potential. Journal of the Electrochemical Society, 2015, 162, F1107-F1113. | 2.9 | 6 |
| 33 | High-Temperature Gravimetric Study on the Kinetics of the Formation of SrTiO ₃ by Solid State Reaction of SrCO ₃ and TiO ₂ . ECS Transactions, 2009, 16, 205-210. | 0.5 | 5 |
| 34 | Conductivities and Seebeck Coefficients of donor-doped-SrTiO ₃ Oxide Ceramics. ECS Transactions, 2009, 25, 2631-2638. | 0.5 | 5 |
| 35 | Thermodynamics and kinetics analyses of high CO ₂ absorption properties of Li ₃ NaSiO ₄ under various CO ₂ partial pressures. Dalton Transactions, 2021, 50, 5301-5310. | 3.3 | 5 |
| 36 | Analysis of thermal stability of LaNi1â^'xFexO3â^'Î' (xÂ=Â0.0, 0.2, 0.4) by thermogravimetry and high-temperature X-ray diffraction under controlled oxygen partial pressures. Journal of Thermal Analysis and Calorimetry, 2016, 123, 1769-1775. | 3.6 | 4 |

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| 37 | Low Temperature Preparation of LaNi1-xFexO3 as New Cathode Material for SOFC - Advantage of Liquid Phase Mixing Method ECS Transactions, 2011, 35, 1935-1943. | 0.5 | 3 |
| 38 | Preparation of Structural Phase Diagram of Ln ₂ Ni _{1-<i>X</i>} Cu <i>_x</i> O _{4+<i>Î</i>} (Ln=La, Pr, Nd,) Tj E | TQq0_0 0 | rgBJ /Overlock |
| | Transactions, 2017, 78, 613-622. | | |
| 39 | Crystal structure, thermal expansion and electrical conduction behavior of PrNi _{1−} <i>_x</i> >6 the Ceramic Society of Japan, 2017, 125, 227-235. | 1.1 | 3 |
| 40 | Effect of chemical state and occupation site of RE (RE = Yb, Y, Eu, Sm, Nd) on crystal structure and optical property of BaCe 1-x RE x O 3- \hat{l} â \in "Analyses of origin of peculiar crystal structure and property of BaCe 1-x Nd x O 3- \hat{l} . Materials Research Bulletin, 2017, 87, 6-13. | 5.2 | 2 |
| 41 | Preparation of Structural Phase Diagram of Nd2Ni1-XCuxO4+δAs New Cathode Materials – Clarification of Existence of Miscibility Gap. ECS Transactions, 2017, 78, 603-612. | 0.5 | 1 |
| 42 | Thermodynamic analyses of the orthorhombic-to-tetragonal phase transition in Pr2â^'xNdxNiO4+Î' under controlled oxygen partial pressures. Dalton Transactions, 2020, 49, 11931-11941. | 3.3 | 1 |
| 43 | Dense-film preparation of zirconium oxide by self-oxidation in air. Fusion Engineering and Design, 2021, 171, 112793. | 1.9 | O |