

Katsuro Hayashi

List of Publications by Year in descending order

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128
papers

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citations

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times ranked

3829
citing authors

#	ARTICLE	IF	CITATIONS
1	Proton conductive behaviors of Ba(Zn Nb _{1-x})O _{3-x} (OH) ₂ studied by infrared spectroscopy. Journal of Solid State Chemistry, 2022, 308, 122913.	2.9	3
2	Synthesis of Hydride-Doped Perovskite Stannate with Visible Light Absorption Capability. Inorganic Chemistry, 2022, , .	4.0	2
3	Glass-ceramic route to NASICON-type Na Ti ₂ (PO ₄) ₃ electrodes for Na-ion batteries. Ceramics International, 2022, 48, 24758-24764.	4.8	2
4	Controlling Defects to Achieve Reproducibly High Ionic Conductivity in Na ₃ Sb ₄ Solid Electrolytes. Chemistry of Materials, 2022, 34, 5634-5643.	6.7	9
5	Sn-Based Perovskite with a Wide Visible-Light Absorption Band Assisted by Hydride Doping. Chemistry of Materials, 2021, 33, 3631-3638.	6.7	12
6	Sodium ion conduction in sodium lanthanum zirconate ceramics prepared by spark plasma sintering. Scripta Materialia, 2021, 200, 113887.	5.2	0
7	Electronic Origin of Non-Zone-Center Phonon Condensation: Octahedral Rotation as a Case Study. Physical Review Letters, 2021, 127, 215701.	7.8	7
8	Investigation of the stability of NASICON-type solid electrolyte in neutral-alkaline aqueous solutions. Corrosion Science, 2020, 177, 109012.	6.6	15
9	Gas sorption porosimetry for the evaluation of hard carbons as anodes for Li- and Na-ion batteries. Beilstein Journal of Nanotechnology, 2020, 11, 1217-1229.	2.8	6
10	Aging of starting solutions for nanoparticles synthesis with two different ultrasonication. Ultrasonics Sonochemistry, 2020, 67, 105142.	8.2	2
11	Reversible Electrochemical Insertion/Extraction of Magnesium Ion into/from Robust NASICON-Type Crystal Lattice in a Mg(BF ₄) ₂ -Based Electrolyte. ACS Applied Energy Materials, 2020, 3, 6824-6833.	5.1	14
12	Variation of meso- and macroporous morphologies in resorcinol-formaldehyde (RF) gels tailored via a sol-gel process combined with soft-templating and phase separation. Journal of Sol-Gel Science and Technology, 2020, 95, 801-812.	2.4	8
13	Ferroelectricity of Dionâ€“Jacobson layered perovskites CsNdNb ₂ O ₇ and RbNdNb ₂ O ₇ . Japanese Journal of Applied Physics, 2020, 59, SPPC04.	1.5	12
14	Thermogravimetric Evolved Gas Analysis and Microscopic Elemental Mapping of the Solid Electrolyte Interphase on Silicon Incorporated in Free-Standing Porous Carbon Electrodes. Langmuir, 2019, 35, 12680-12688.	3.5	7
15	Sodium titanium oxide bronze nanoparticles synthesized <i>via</i> concurrent reduction and Na ⁺ -doping into TiO ₂ (B). Nanoscale, 2019, 11, 1442-1450.	5.6	8
16	Characterization of an AX Compound Derived from Ti ₂ SC MAX Phase. European Journal of Inorganic Chemistry, 2019, 2019, 2312-2317.	2.0	1
17	A highly conductive Na ₃ V ₂ (PO ₄) ₃ ceramic sheet prepared by tape-casting method. Electrochimica Acta, 2019, 305, 197-203.	5.2	7
18	Kinetic approach for the adsorption-photodecomposition properties of mesoporous silica-titania. Journal of the Ceramic Society of Japan, 2019, 127, 242-248.	1.1	2

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19	Insights into Sodium Ion Transfer at the Na/NASICON Interface Improved by Uniaxial Compression. ACS Applied Energy Materials, 2019, 2, 2913-2920.	5.1	51
20	Revisiting Oxide-Based Sodium Ion Conductors for Next-Generation Batteries. Materia Japan, 2019, 58, 440-448.	0.1	0
21	Expanding frontiers in materials chemistry and physics with multiple anions. Nature Communications, 2018, 9, 772.	12.8	612
22	Stabilization Mechanism of the Tetragonal Structure in a Hydrothermally Synthesized BaTiO ₃ Nanocrystal. Inorganic Chemistry, 2018, 57, 5413-5419.	4.0	28
23	A dense NASICON sheet prepared by tape-casting and low temperature sintering. Electrochimica Acta, 2018, 278, 176-181.	5.2	35
24	A liquid anode for rechargeable sodium-air batteries with low voltage gap and high safety. Nano Energy, 2018, 49, 574-579.	16.0	57
25	Structural Analysis of Mixed Anion Compounds. Nihon Kessho Gakkaishi, 2018, 60, 254-259.	0.0	0
26	Preparation of Nickel Nanoparticles by Direct Current Arc Discharge Method and Their Catalytic Application in Hybrid Na-Air Battery. Nanomaterials, 2018, 8, 684.	4.1	16
27	Novel High-Energy-Density Rechargeable Hybrid Sodium-Air Cell with Acidic Electrolyte. ACS Applied Materials & Interfaces, 2018, 10, 23748-23756.	8.0	22
28	Topotactic Synthesis of Mesoporous 12CaO·7Al ₂ O ₃ Mesocrystalline Microcubes toward Catalytic Ammonia Synthesis. Chemistry of Materials, 2018, 30, 4498-4502.	6.7	14
29	Low temperature-densified NASICON-based ceramics promoted by Na ₂ O-Nb ₂ O ₅ -P ₂ O ₅ glass additive and spark plasma sintering. Solid State Ionics, 2018, 322, 54-60.	2.7	30
30	Crystallization behavior of iron-based amorphous nanoparticles prepared sonochemically. Ultrasonics Sonochemistry, 2017, 35, 563-568.	8.2	8
31	Structural analysis and capacitive properties of carbon spheres prepared by hydrothermal carbonization. Advanced Powder Technology, 2017, 28, 884-889.	4.1	49
32	Dual-phase Spinel MnCo ₂ O ₄ Nanocrystals with Nitrogen-doped Reduced Graphene Oxide as Potential Catalyst for Hybrid Na-Air Batteries. Electrochimica Acta, 2017, 244, 222-229.	5.2	52
33	Nanostructured titanium phosphates prepared via hydrothermal reaction and their electrochemical Li- and Na-ion intercalation properties. CrystEngComm, 2017, 19, 4551-4560.	2.6	13
34	Liquid exfoliation graphene sheets as catalysts for hybrid sodium-air cells. Materials Letters, 2017, 187, 32-35.	2.6	17
35	Hydrothermal Synthesis of Tetragonal Barium Titanate Rod-like Crystal. Journal of the Society of Powder Technology, Japan, 2016, 53, 804-809.	0.1	2
36	Hybrid Sodium-Air Cell with Na[FSA-C ₂ C ₁ im][FSA] Ionic Liquid Electrolyte. Electrochimica Acta, 2016, 218, 119-124.	5.2	24

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37	Green apatites: hydride ions, electrons and their interconversion in the crystallographic channel. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8186-8195.	2.8	14
38	Facile synthesis of nanorods of tetragonal barium titanate using ethylene glycol. <i>Ceramics International</i> , 2015, 41, 5581-5587.	4.8	23
39	A High-Energy-Density Mixed-Aprotic-Aqueous Sodium-Air Cell with a Ceramic Separator and a Porous Carbon Electrode. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1215-A1219.	2.9	58
40	Aqueous and Nonaqueous Sodium-Air Cells with Nanoporous Gold Cathode. <i>Electrochimica Acta</i> , 2015, 182, 809-814.	5.2	45
41	Chloride-stabilized Strontium Mayenite: Expansion of Versatile Material Family. <i>Journal of the American Ceramic Society</i> , 2014, 97, 4037-4044.	3.8	12
42	Hydride ions in oxide hosts hidden by hydroxide ions. <i>Nature Communications</i> , 2014, 5, 3515.	12.8	108
43	C-axis oriented γ -alumina ceramics with anisotropic ionic conductivity prepared by spark plasma sintering. <i>Solid State Ionics</i> , 2014, 267, 22-26.	2.7	27
44	Formation and quantification of peroxide anions in nanocages of $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$. <i>RSC Advances</i> , 2013, 3, 18311.	3.6	13
45	Thermionic Electron Emission from a Mayenite Electride/Metallic Titanium Composite Cathode. <i>Applied Physics Express</i> , 2013, 6, 015802.	2.4	17
46	A Mixed Aqueous/Aprotic Sodium/Air Cell Using a NASICON Ceramic Separator. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1467-A1472.	2.9	101
47	Solid-state source of atomic oxygen for low-temperature oxidation processes: Application to pulsed laser deposition of $\text{TiO}_2\text{:N}$ films. <i>Review of Scientific Instruments</i> , 2012, 83, 023903.	1.3	1
48	An oxyhydride of BaTiO_3 exhibiting hydride exchange and electronic conductivity. <i>Nature Materials</i> , 2012, 11, 507-511.	27.5	251
49	Simultaneous Quantification of Hydride Ions and Electrons Incorporated in $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ Cages by Deuterium-Labeled Volumetric Analysis. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8747-8752.	3.1	7
50	Kinetics of Electron Decay in Hydride Ion-Doped Mayenite. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11003-11009.	3.1	16
51	Heavy doping of H^+ ion in $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1428-1432.	2.9	31
52	New functionalities in abundant element oxides: ubiquitous element strategy. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 034303.	6.1	36
53	Iodometric Determination of Electrons Incorporated into Cages in $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ Crystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15354-15357.	3.1	25
54	Humidity-Sensitive Electrical Conductivity in $\text{Ca}_{12}\text{Al}_{14-x}\text{Si}_x\text{O}_{32}\text{Cl}_{2+x}$ ($0 \leq x \leq 3.4$) Ceramics. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, J11.	2.2	11

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55	Sustainable Thermionic O ²⁺ Emission from Stoichiometric $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ with Nanoporous Crystal Structure. <i>Journal of the Electrochemical Society</i> , 2009, 156, G1.	2.9	4
56	Oxygen ion conduction in $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$: O ²⁺ conduction mechanism and possibility of O ²⁺ fast conduction†. <i>Solid State Ionics</i> , 2009, 180, 550-555.	2.7	57
57	Field-assisted sustainable O ²⁺ ion emission from fluorine-substituted $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ with improved thermal stability. <i>Solid State Ionics</i> , 2009, 180, 1113-1117.	2.7	11
58	Intense Atomic Oxygen Emission from Incandescent Zirconia. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9436-9439.	3.1	7
59	$12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ (C12A7) の表面に酸素イオンを放出する構造を有する薄膜の形成とその特性. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2009, 0, 641-646.	0.2	0
60	Fabrication and transport properties of $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ (C12A7) electride nanowire. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2047-2051.	1.8	10
61	Solid State Syntheses of $12\text{SrO}\cdot 7\text{Al}_2\text{O}_3$ and Formation of High Density Oxygen Radical Anions, O ^{•-} and O ^{2•-} . <i>Chemistry of Materials</i> , 2008, 20, 5987-5996.	6.7	30
62	Functionalities of a Nanoporous Crystal $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ Originating from the Incorporation of Active Anions. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 872-884.	3.2	34
63	Anion Incorporation-induced Cage Deformation in $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ Crystal. <i>Chemistry Letters</i> , 2007, 36, 902-903.	1.3	25
64	Vibrational Dynamics and Oxygen Diffusion in a Nanoporous Oxide Ion Conductor $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ Studied by ¹⁸ O Labeling and Micro-Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14855-14861.	3.1	53
65	Nanoporous Crystal $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$: A Playground for Studies of Ultraviolet Optical Absorption of Negative Ions. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1946-1956.	2.6	61
66	Metallic State in a Lime ²⁺ Alumina Compound with Nanoporous Structure. <i>Nano Letters</i> , 2007, 7, 1138-1143.	9.1	208
67	Active anion manipulation for emergence of active functions in the nanoporous crystal $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$: a case study of abundant element strategy. <i>Journal of Materials Science</i> , 2007, 42, 1872-1883.	3.7	24
68	Fabrication of room temperature-stable $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ electride: a review. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 5-14.	2.2	63
69	Role of hydrogen atoms in the photoinduced formation of stable electron centers in H-doped $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$. <i>Physical Review B</i> , 2006, 73, .	3.2	39
70	Synthesis of a Room Temperature Stable $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ Electride from the Melt and Its Application as an Electron Field Emitter. <i>Chemistry of Materials</i> , 2006, 18, 1938-1944.	6.7	109
71	Czochralski Growth of $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ Crystals. <i>Crystal Growth and Design</i> , 2006, 6, 1602-1605.	3.0	67
72	Mechanisms of oxygen ion diffusion in a nanoporous complex oxide $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$. <i>Physical Review B</i> , 2006, 73, .	3.2	58

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73	Electron Carrier Generation in a Refractory Oxide $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ by Heating in Reducing Atmosphere: Conversion from an Insulator to a Persistent Conductor. <i>Journal of the American Ceramic Society</i> , 2006, 89, 3294-3298.	3.8	65
74	Excess Oxygen in $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ Studied by Thermogravimetric Analysis. <i>Chemistry Letters</i> , 2005, 34, 586-587.	1.3	28
75	Localisation assisted by the lattice relaxation and the optical absorption of extra-framework electrons in $12\text{CaO}\cdot \text{Al}_2\text{O}_3$. <i>Materials Science and Engineering C</i> , 2005, 25, 722-726.	7.3	16
76	Electron transport behaviors across single grain boundaries in n-type BaTiO_3 , SrTiO_3 and ZnO . <i>Journal of Materials Science</i> , 2005, 40, 881-887.	3.7	19
77	Intense thermal field electron emission from room-temperature stable electride. <i>Applied Physics Letters</i> , 2005, 87, 254103.	3.3	81
78	Electronic insulator-conductor conversion in hydride ion-doped $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ by electron-beam irradiation. <i>Applied Physics Letters</i> , 2005, 86, 022109.	3.3	22
79	Formation of inorganic electride thin films via site-selective extrusion by energetic inert gas ions. <i>Journal of Applied Physics</i> , 2005, 97, 023510.	2.5	51
80	Photoinduced generation of electron anions in H-doped nanoporous oxide $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$: Toward an optically controlled formation of electrides. <i>Applied Physics Letters</i> , 2005, 86, 092101.	3.3	43
81	Hydride Ion as Photoelectron Donor in Microporous Crystal. <i>Journal of the American Chemical Society</i> , 2005, 127, 12454-12455.	13.7	56
82	Hydride Ion as a Two-Electron Donor in a Nanoporous Crystalline Semiconductor $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23836-23842.	2.6	55
83	Simple and Efficient Fabrication of Room Temperature Stable Electride: A Melt-Solidification and Glass Ceramics. <i>Journal of the American Chemical Society</i> , 2005, 127, 1370-1371.	13.7	71
84	Thermodynamics and Kinetics of Hydroxide Ion Formation in $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11900-11906.	2.6	91
85	Field-Induced Current Modulation in Nanoporous Semiconductor, Electron-Doped $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$. <i>Chemistry of Materials</i> , 2005, 17, 6311-6316.	6.7	45
86	Persistent Electronic Conduction in $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ Thin Films Produced by Ar Ion Implantation: Selective Kick-Out Effect Leads to Electride Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2004, 811, 85.	0.1	0
87	Direct Characterization of Grain Boundary Electrical Activity in Doped $(\text{Ba}_{0.6}\text{Sr}_{0.4})\text{TiO}_3$ by Combined Imaging of Electron-Beam-Induced Current and Electron-Backscattered Diffraction. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1153-1156.	3.8	4
88	Partial oxidation of methane to syngas over promoted $\text{C}12\text{A}7$. <i>Applied Catalysis A: General</i> , 2004, 277, 239-246.	4.3	77
89	Field Emission of Electron Anions Clathrated in Subnanometer-Sized Cages in $[\text{Ca}_{24}\text{Al}_{28}\text{O}_{64}]^{4+}(4e^-)$. <i>Advanced Materials</i> , 2004, 16, 685-689.	21.0	175
90	Formation and Desorption of Oxygen Species in Nanoporous Crystal $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$. <i>ChemInform</i> , 2004, 35, no.	0.0	0

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91	Field Emission of Electron Anions Clathrated in Subnanometer-Sized Cages in [Ca ₂₄ Al ₂₈ O ₆₄] ⁴⁺ (4e ⁻).. ChemInform, 2004, 35, no.	0.0	0
92	Effect of stability and diffusivity of extra-framework oxygen species on the formation of oxygen radicals in 12CaO \cdot 7Al ₂ O ₃ . Solid State Ionics, 2004, 173, 89-94.	2.7	35
93	Photonic materials utilizing naturally occurring nanostructures. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 166, 141-147.	3.9	9
94	Formation of Oxygen Radicals in 12CaO \cdot 7Al ₂ O ₃ : \hat{A} Instability of Extraframework Oxide Ions and Uptake of Oxygen Gas. Journal of Physical Chemistry B, 2004, 108, 8920-8925.	2.6	53
95	Natural nanostructures in ionic semiconductors. Microelectronic Engineering, 2004, 73-74, 620-626.	2.4	17
96	Formation and Desorption of Oxygen Species in Nanoporous Crystal 12CaO \cdot 7Al ₂ O ₃ . Chemistry of Materials, 2004, 16, 104-110.	6.7	68
97	Superoxide Ion Encaged in Nanoporous Crystal 12CaO \cdot 7Al ₂ O ₃ Studied by Continuous Wave and Pulsed Electron Paramagnetic Resonance. Journal of Physical Chemistry B, 2004, 108, 18557-18568.	2.6	41
98	Natural nanostructures in ionic semiconductors. Microelectronic Engineering, 2004, 73-74, 620-626.	2.4	2
99	Fabrication of Highly Conductive 12CaO \cdot 7Al ₂ O ₃ Thin Films Encaging Hydride Ions by Proton Implantation. Advanced Materials, 2003, 15, 1100-1103.	21.0	72
100	Light-Induced Conversion of an Insulating Refractory Oxide into a Persistent Electronic Conductor.. ChemInform, 2003, 34, no-no.	0.0	0
101	Fabrication of Highly Conductive 12CaO \cdot 7Al ₂ O ₃ Thin Films Encaging Hydride Ions by Proton Implantation.. ChemInform, 2003, 34, no.	0.0	0
102	High-Density Electron Anions in a Nanoporous Single Crystal: [Ca ₂₄ Al ₂₈ O ₆₄] ⁴⁺ (4e ⁻).. ChemInform, 2003, 34, no.	0.0	2
103	Thin film fabrication of nano-porous 12CaO \cdot 7Al ₂ O ₃ crystal and its conversion into transparent conductive films by light illumination. Thin Solid Films, 2003, 445, 309-312.	1.8	50
104	High-intensity atomic oxygen radical anion emission mechanism from 12CaO \cdot 7Al ₂ O ₃ crystal surface. Surface Science, 2003, 527, 100-112.	1.9	65
105	Hopping and optical absorption of electrons in nano-porous crystal 12CaO \cdot 7Al ₂ O ₃ . Thin Solid Films, 2003, 445, 161-167.	1.8	64
106	Hopping and optical absorption of electrons in nano-porous crystal 12CaO \cdot 7Al ₂ O ₃ . Thin Solid Films, 2003, 445, 161-161.	1.8	4
107	Maximum Incorporation of Oxygen Radicals, O \cdot and O ₂ \cdot , into 12CaO \cdot 7Al ₂ O ₃ with a Nanoporous Structure. Chemistry of Materials, 2003, 15, 1851-1854.	6.7	83
108	High-Density Electron Anions in a Nanoporous Single Crystal: [Ca ₂₄ Al ₂₈ O ₆₄] ⁴⁺ (4e ⁻). Science, 2003, 301, 626-629.	12.6	744

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109	Electron Localization and a Confined Electron Gas in Nanoporous Inorganic Electrides. <i>Physical Review Letters</i> , 2003, 91, 126401.	7.8	192
110	Absolute emission current density of O ⁻ from 12CaO·7Al ₂ O ₃ crystal. <i>Applied Physics Letters</i> , 2002, 80, 4259-4261.	3.3	83
111	Reproducibility of O ⁻ Negative Ion Emission from C12A7 Crystal Surface. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L530-L532.	1.5	20
112	Translucent Ceramics of 12CaO·7Al ₂ O ₃ with Microporous Structure. <i>Journal of Materials Research</i> , 2002, 17, 1244-1247.	2.6	18
113	Photo-Induced Insulator-Semiconductor Transition in 12CaO·7Al ₂ O ₃ (C12A7). <i>Materials Research Society Symposia Proceedings</i> , 2002, 747, 1.	0.1	1
114	Microporous Crystal 12CaO·7Al ₂ O ₃ Encaging Abundant O ⁻ Radicals. <i>Journal of the American Chemical Society</i> , 2002, 124, 738-739.	13.7	225
115	Electric Field Emission of High Density O ⁻ Ions from 12CaO·7Al ₂ O ₃ Engineered to Incorporate Oxygen Radicals. <i>Electrochemical and Solid-State Letters</i> , 2002, 5, J13.	2.2	25
116	Light-induced conversion of an insulating refractory oxide into a persistent electronic conductor. <i>Nature</i> , 2002, 419, 462-465.	27.8	431
117	Near-UV emitting diodes based on a transparent p-n junction composed of heteroepitaxially grown p-SrCu ₂ O ₂ and n-ZnO. <i>Journal of Crystal Growth</i> , 2002, 237-239, 496-502.	1.5	72
118	Crystal growth of Ca ₁₂ Al ₁₄ O ₃₃ by the floating zone method. <i>Journal of Crystal Growth</i> , 2002, 237-239, 801-805.	1.5	79
119	Current-Voltage Characteristics of Σ 1 Boundaries with and without Cobalt Ions in Niobium-Doped SrTiO ₃ Bicrystals. <i>Journal of the American Ceramic Society</i> , 2000, 83, 1527-1529.	3.8	16
120	Grain Boundary Structure and Electrical Properties in Nb-Doped SrTiO ₃ Bicrystals. <i>Key Engineering Materials</i> , 2000, 181-182, 225-230.	0.4	2
121	Misorientation Dependence of Grain Boundary Resistivity in Nb-Doped Barium Titanate. <i>Key Engineering Materials</i> , 2000, 181-182, 51-54.	0.4	3
122	Formation of Potential Barrier Related to Grain Boundary Character in Semiconducting Barium Titanate. <i>Journal of the American Ceramic Society</i> , 2000, 83, 2684-2688.	3.8	44
123	Chemical bonding state at grain boundaries in BaTiO ₃ doped with a small amount of cation. <i>Philosophical Magazine Letters</i> , 1999, 79, 327-331.	1.2	5
124	Grain boundary electrical barriers in positive temperature coefficient thermistors. <i>Journal of Applied Physics</i> , 1999, 86, 2909-2913.	2.5	29
125	Grain boundary structure in TiO ₂ -excess barium titanate. <i>Journal of Materials Research</i> , 1998, 13, 3449-3452.	2.6	32
126	Direct Observation of the Double Schottky Barrier in Niobium-Doped Barium Titanate by the Charge Collection Current Method. <i>Journal of the American Ceramic Society</i> , 1998, 81, 1961-1963.	3.8	25

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127	Grain Orientation Dependence of the PTCR Effect in Niobium-Doped Barium Titanate. Journal of the American Ceramic Society, 1996, 79, 1669-1672.	3.8	79
128	Mechanical and thermal properties of porous polyimide monoliths crosslinked with aromatic and aliphatic triamines. Journal of Sol-Gel Science and Technology, 0, , .	2.4	1