

Takahisa Omata

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5283826/publications.pdf>

Version: 2024-02-01

160
papers

3,884
citations

172207

29
h-index

143772

57
g-index

164
all docs

164
docs citations

164
times ranked

3674
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable Photoluminescence Wavelength of Chalcopyrite CuInS ₂ -Based Semiconductor Nanocrystals Synthesized in a Colloidal System. Chemistry of Materials, 2006, 18, 3330-3335.	3.2	272
2	New ultraviolet- ϵ transport electroconductive oxide, ZnGa ₂ O ₄ spinel. Applied Physics Letters, 1994, 64, 1077-1078.	1.5	214
3	Size dependent optical band gap of ternary I-III-VI ₂ semiconductor nanocrystals. Journal of Applied Physics, 2009, 105, .	1.1	172
4	Synthesis of Ternary CuInS ₂ Nanocrystals; Phase Determination by Complex Ligand Species. Chemistry of Materials, 2009, 21, 2607-2613.	3.2	170
5	Formation of Ni ₃ C Nanocrystals by Thermolysis of Nickel Acetylacetonate in Oleylamine: Characterization Using Hard X-ray Photoelectron Spectroscopy. Chemistry of Materials, 2008, 20, 4156-4160.	3.2	162
6	New oxide phase with wide band gap and high electroconductivity, MgIn ₂ O ₄ . Applied Physics Letters, 1992, 61, 1954-1955.	1.5	128
7	Crystal structure of metastable β -CeZrO ₄ phase possessing an ordered arrangement of Ce and Zr ions. Journal of Alloys and Compounds, 2000, 312, 94-103.	2.8	124
8	Oxygen Release Behavior of CeZrO ₄ Powders and Appearance of New Compounds β and γ . Journal of Solid State Chemistry, 1998, 138, 47-54.	1.4	114
9	Colloidal Synthesis of Ternary Copper Indium Diselenide Quantum Dots and Their Optical Properties. Journal of Physical Chemistry C, 2009, 113, 3455-3460.	1.5	112
10	Vibrational Spectroscopic and X-Ray Diffraction Studies of Cerium Zirconium Oxides with Ce/Zr Composition Ratio=1 Prepared by Reduction and Successive Oxidation of β -(Ce _{0.5} Zr _{0.5})O ₂ Phase. Journal of Solid State Chemistry, 1999, 147, 573-583.	1.4	110
11	Generation of electron carriers in insulating thin film of MgIn ₂ O ₄ spinel by Li ⁺ implantation. Journal of Applied Physics, 1994, 76, 7935-7941.	1.1	90
12	Wurtzite CuGaO ₂ : A New Direct and Narrow Band Gap Oxide Semiconductor Applicable as a Solar Cell Absorber. Journal of the American Chemical Society, 2014, 136, 3378-3381.	6.6	85
13	New oxide phase with wide band gap and high electroconductivity CdGa ₂ O ₄ spinel. Applied Physics Letters, 1993, 62, 499-500.	1.5	79
14	Electrical Properties of Proton-Conducting Ca ²⁺ -Doped La ₂ Zr ₂ O ₇ with a Pyrochlore-Type Structure. Journal of the Electrochemical Society, 2001, 148, E252.	1.3	68
15	Oxygen release behaviour of Ce(1-x)Zr _x O ₂ powders and appearance of Ce(8-y)Zr _{4y} O(14-y) solid solution in the ZrO ₂ -CeO ₂ -CeO _{1.5} system. Journal of Alloys and Compounds, 1998, 270, 107-114.	2.8	66
16	Preparation of MgIn ₂ O ₄ Thin Films on Glass Substrate by RF Sputtering. Japanese Journal of Applied Physics, 1993, 32, L1260-L1262.	0.8	65
17	Photocatalytic behavior of cerium titanates, CeTiO ₄ and CeTi ₂ O ₆ and their composite powders with SrTiO ₃ . Journal of Alloys and Compounds, 2004, 376, 262-267.	2.8	61
18	Electronic transition responsible for size-dependent photoluminescence of colloidal CuInS ₂ quantum dots. Journal of Materials Chemistry C, 2014, 2, 6867.	2.7	60

#	ARTICLE	IF	CITATIONS
19	Water and hydrogen evolution properties and protonic conducting behaviors of Ca ²⁺ -doped La ₂ Zr ₂ O ₇ with a pyrochlore structure. <i>Solid State Ionics</i> , 1997, 104, 249-258.	1.3	57
20	Chemical role of amines in the colloidal synthesis of CdSe quantum dots and their luminescence properties. <i>Journal of Luminescence</i> , 2007, 126, 21-26.	1.5	56
21	Proton solubility for La ₂ Zr ₂ O ₇ with a pyrochlore structure doped with a series of alkaline-earth ions. <i>Solid State Ionics</i> , 2004, 167, 389-397.	1.3	50
22	Electrical Conduction Properties of Sr-Doped LaPO ₄ and CePO ₄ under Oxidizing and Reducing Conditions. <i>Journal of the Electrochemical Society</i> , 2005, 152, A658.	1.3	50
23	Characterization of indium-tin oxide sputtering targets showing various densities of nodule formation. <i>Thin Solid Films</i> , 2006, 503, 22-28.	0.8	46
24	O-H stretching vibrations of proton conducting alkaline-earth zirconates. <i>Solid State Ionics</i> , 2004, 168, 99-109.	1.3	41
25	Wide band gap semiconductor alloy: x(LiGaO ₂) _{1-x} (ZnO). <i>Journal of Applied Physics</i> , 2008, 103, 083706.	1.1	40
26	Preparation of Cd _{1-x} YxSb ₂ O ₆ thin film on glass substrate by radio frequency sputtering. <i>Applied Physics Letters</i> , 1994, 65, 406-408.	1.5	39
27	Thermodynamic Behavior of Various Phases Appearing in the CeZrO ₄ -CeZrO _{3.5} System and the Formation of Metastable Solid Solutions. <i>Journal of the Electrochemical Society</i> , 1998, 145, 1406-1413.	1.3	37
28	Structural and Thermal Properties of Ternary Narrow-Gap Oxide Semiconductor; Wurtzite-Derived I ² -CuGaO ₂ . <i>Inorganic Chemistry</i> , 2015, 54, 1698-1704.	1.9	33
29	Electrochemical substitution of sodium ions with protons in phosphate glass to fabricate pure proton conducting glass at intermediate temperatures. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3940.	5.2	31
30	Proton conducting tungsten phosphate glass and its application in intermediate temperature fuel cells. <i>Solid State Ionics</i> , 2014, 262, 856-859.	1.3	30
31	First-Principles Study of CuGaO ₂ Polymorphs: Delafossite I [±] -CuGaO ₂ and Wurtzite I ² -CuGaO ₂ . <i>Inorganic Chemistry</i> , 2016, 55, 7610-7616.	1.9	29
32	Colloidal Zn(Te,Se)/ZnS Core/Shell Quantum Dots Exhibiting Narrow-Band and Green Photoluminescence. <i>ACS Omega</i> , 2018, 3, 6703-6709.	1.6	29
33	SnS Homojunction Solar Cell with n-type Single Crystal and p-type Thin Film. <i>Solar Rrl</i> , 2021, 5, 2000708.	3.1	29
34	Electrical and magnetic properties of hole-doped Sr _{1-x} La _x FeO ₄ . <i>Physical Review B</i> , 1994, 49, 10194-10199.	1.1	28
35	Ultraviolet electroluminescence from colloidal ZnO quantum dots in an all-inorganic multilayer light-emitting device. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	26
36	Electrochemical Substitution of Sodium Ions in Tungsten Phosphate Glass with Protons. <i>Journal of the Electrochemical Society</i> , 2013, 160, E143-E147.	1.3	26

#	ARTICLE	IF	CITATIONS
37	Preparation of oxygen excess SrLaFeO _{4+δ} and its electrical and magnetic properties. Solid State Communications, 1993, 88, 807-811.	0.9	24
38	Photobleaching of Methylene Blue Aqueous Solution Sensitized by Composite Powders of Titanium Oxide with SrTiO ₃ , BaTiO ₃ , and CaTiO ₃ . Materials Transactions, 2003, 44, 2124-2129.	0.4	23
39	Wurtzite-derived ternary II ^{VI} O ₂ semiconductors. Science and Technology of Advanced Materials, 2015, 16, 024902.	2.8	23
40	Design of cadmium-free colloidal II ^{VI} semiconductor quantum dots exhibiting RGB emission. AIP Advances, 2017, 7, .	0.6	22
41	Oxygen release behavior of metastable tetragonal t ² -meta-(Ce _{0.5} Zr _{0.5}) ₂ phases prepared by reduction and successive oxidation of t ² phase. Science and Technology of Advanced Materials, 2001, 2, 397-404.	2.8	21
42	Nanocrystals of zirconia- and ceria-based solid electrolytes: Syntheses and properties. Science and Technology of Advanced Materials, 2007, 8, 524-530.	2.8	21
43	First principles calculations of ternary wurtzite I ² -CuGaO ₂ . Journal of Applied Physics, 2016, 119, .	1.1	21
44	New mixed-valence oxides of bismuth: Bi _{1-x} YxO _{1.5+δ} (x=0.4). Journal of Materials Chemistry, 1997, 7, 943-946.	6.7	20
45	UV luminescent organic-capped ZnO quantum dots synthesized by alkoxide hydrolysis with dilute water. Journal of Colloid and Interface Science, 2011, 355, 274-281.	5.0	20
46	Photoluminescence of CuInS ₂ -based semiconductor quantum dots; Its origin and the effect of ZnS coating. Journal of Physics: Conference Series, 2009, 165, 012028.	0.3	19
47	Infrared Study of High-Temperature Proton-Conducting Aliovalently Doped SrZrO ₃ and BaZrO ₃ . Journal of the Electrochemical Society, 2005, 152, E200.	1.3	18
48	Structure of I ² -AgGaO ₂ ; ternary II ^{VI} O ₂ oxide semiconductor with a wurtzite-derived structure. Journal of Solid State Chemistry, 2015, 222, 66-70.	1.4	18
49	Proton-conducting phosphate glass and its melt exhibiting high electrical conductivity at intermediate temperatures. Journal of Materials Chemistry A, 2018, 6, 23628-23637.	5.2	18
50	Proton transport properties of proton-conducting phosphate glasses at their glass transition temperatures. Physical Chemistry Chemical Physics, 2019, 21, 10744-10749.	1.3	18
51	New oxide phase Cd _{1-x} YxSb ₂ O ₆ with a wide band gap and high electrical conductivity. Applied Physics Letters, 1993, 63, 3335-3337.	1.5	17
52	Electron trapping center and SnO ₂ -doping mechanism of indium tin oxide. Applied Physics A: Materials Science and Processing, 2000, 71, 609-614.	1.1	17
53	Photocatalytic behavior of titanium oxide-perovskite type Sr(Zr _{1-x} Yx)O _{3+δ} composite particles. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 156, 243-248.	2.0	17
54	Quantum dot phosphors and their application to inorganic electroluminescence device. Thin Solid Films, 2012, 520, 3829-3834.	0.8	17

#	ARTICLE	IF	CITATIONS
55	Electrical conductivity of metastable $\hat{\Gamma}^2$ -CeZrO ₄ phase possessing ordered arrangement of Ce and Zr ions. <i>Science and Technology of Advanced Materials</i> , 2001, 2, 443-448.	2.8	16
56	Hydration behavior of Ba ₂ Sc ₂ O ₅ with an oxygen-deficient perovskite structure. <i>Solid State Ionics</i> , 2006, 177, 2447-2451.	1.3	16
57	Synthesis of colloidal Zn(Te,Se) alloy quantum dots. <i>Materials Research Express</i> , 2017, 4, 106501.	0.8	16
58	Growth of Large Single Crystals of n-Type SnS from Halogen-Added Sn Flux. <i>Crystal Growth and Design</i> , 2020, 20, 5931-5939.	1.4	16
59	Infrared Absorption Spectra of High Temperature Proton Conducting Ca ²⁺ -Doped La ₂ Zr ₂ O ₇ . <i>Journal of the Electrochemical Society</i> , 2001, 148, E475.	1.3	15
60	Infrared study of high temperature proton conducting Sr(Zr _{0.95} M _{0.05} III)O ₃ ; formation of MIIIO ₆ -cluster depends on dopant species. <i>Solid State Ionics</i> , 2005, 176, 2941-2944.	1.3	15
61	Structural variation and optical properties of ZnO-LiGaO ₂ pseudo-binary system. <i>Journal of Solid State Chemistry</i> , 2012, 188, 92-99.	1.4	15
62	Phase separation and crystallization in sodium lanthanum phosphate glasses induced by electrochemical substitution of sodium ions with protons. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22855-22861.	1.3	15
63	The mobility of proton carriers in phosphate glasses depends on polymerization of the phosphate framework. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29669-29675.	1.3	15
64	Zn ₂ LiGaO ₄ , Wurtzite-Derived Wide Band Gap Oxide. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 031102.	0.8	15
65	Extremely Suppressed Grain Growth of Y ₂ O ₃ -Stabilized Zirconia Nanocrystals Synthesized by the Nonhydrolytic Sol-Gel Technique. <i>Journal of the Electrochemical Society</i> , 2009, 156, K4.	1.3	14
66	Pseudo-binary alloying system of ZnO-AgGaO ₂ reducing the energy band gap of zinc oxide. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	14
67	Widely bandgap tunable amorphous Cd-Ga-O oxide semiconductors exhibiting electron mobilities $\sim 10^2$ cm ² V ⁻¹ s ⁻¹ . <i>Applied Physics Letters</i> , 2015, 106, 082106.	1.5	14
68	Improving thermal stability and its effects on proton mobility in proton-conducting phosphate glasses prepared by the electrochemical substitution of sodium ions with protons. <i>Solid State Ionics</i> , 2015, 275, 62-65.	1.3	14
69	Effect of alkaline-earth species in phosphate glasses on the mobility of proton carriers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12385-12392.	5.2	14
70	New Oxide Phase $\text{Cd}_{2(1-x)}\text{Y}_x\text{Sb}_2\text{O}_7$ Pyrochlore with a Wide Band Gap and High Electrical Conductivity. <i>Japanese Journal of Applied Physics</i> , 1994, 33, L238-L240.	0.8	13
71	Electrical Conductivity of Novel Tetragonal $\hat{\Gamma}^2$ -meta-(Ce _{0.5} Zr _{0.5})O ₂ Phase Prepared by Reduction and Successive Oxidation of $\hat{\Gamma}^2$ Phase. <i>Journal of Solid State Chemistry</i> , 2000, 151, 253-259.	1.4	13
72	Zn ₂ LiGaO ₄ , Wurtzite-Derived Wide Band Gap Oxide. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 031102.	0.8	13

#	ARTICLE	IF	CITATIONS
73	Fabrication of Core-Shell-Type Copper Indium Selenide and Zinc Selenide Composite Quantum Dots and Their Optical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4815-4823.	0.9	13
74	Structural change of $\text{NaO}_{1/2} \cdot \text{WO}_3 \cdot \text{NbO}_{5/2} \cdot \text{LaO}_{3/2} \cdot \text{PO}_{5/2}$ glass induced by electrochemical substitution of sodium ions with protons. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13640-13646.	1.3	13
75	Tunable Direct Band Gap of $\text{In}_2\text{-CuGaO}_2$ and $\text{In}_2\text{-LiGaO}_2$ Solid Solutions in the Full Visible Range. <i>Inorganic Chemistry</i> , 2019, 58, 4262-4267.	1.9	13
76	Photodegradation of Methylene Blue Aqueous Solution Sensitized by Pyrochlore-Related CeZrO_4 Oxide Powder. <i>Materials Transactions</i> , 2003, 44, 1620-1623.	0.4	12
77	Synthesis of CeO_2 , ZrO_2 Nanocrystals, and Core-Shell-Type Nanocomposites. <i>Journal of the Electrochemical Society</i> , 2006, 153, A2269.	1.3	12
78	Synthesis of size-controlled colloidal InAs quantum dots using triphenylarsine as a stable arsenic source. <i>Journal of Crystal Growth</i> , 2015, 416, 134-141.	0.7	12
79	High Efficiency-Carrier-Generation for the Oxygen Release Reaction in Indium Tin Oxide. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L879-L881.	0.8	11
80	Fabrication of $\text{In}_2\text{-AgGaO}_2$ thin films by radio frequency magnetron sputtering. <i>Thin Solid Films</i> , 2014, 559, 112-115.	0.8	11
81	Fabrication of ZnO Films Alloyed with LiGaO_2 by RF-Magnetron Sputtering and Their Optical Property. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 061102.	0.8	11
82	Synthesis of CdSe Quantum Dots Using Micro-Flow Reactor and Their Optical Properties. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 452-456.	0.8	10
83	Multinary wurtzite-type oxide semiconductors: present status and perspectives. <i>Semiconductor Science and Technology</i> , 2017, 32, 013007.	1.0	10
84	Electronic structure of hole-doped $\text{Sr}_{1+x}\text{La}_{1-x}\text{FeO}_4$ studied by UPS and XAS. <i>Physical Review B</i> , 1994, 49, 10200-10205.	1.1	9
85	In-Situ Observation of the Electrical Conductivity upon Release and Uptake of Oxygen in Indium Tin Oxide Sinter. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 868-871.	0.8	9
86	Characterization of novel cation-ordered compounds with fluorite and $\text{In}_2\text{-PbO}_2$ related structures prepared by oxidation of $\text{Sn} \cdot \text{Nb} \cdot \text{O}$ pyrochlore. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 53-62.	1.9	9
87	Mixed dopant effect in SrZrO_3 -based proton conductor. <i>Solid State Ionics</i> , 2008, 179, 1116-1119.	1.3	8
88	Degradation of potential barriers in ZnO-based chip varistors due to electrostatic discharge. <i>Journal of Applied Physics</i> , 2012, 112, 033707.	1.1	8
89	Variation of crystal structure and optical properties of wurtzite-type oxide semiconductor alloys of $\text{In}_2\text{-Cu(Ga,Al)O}_2$. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	8
90	Transport properties of proton conducting phosphate glass: An electrochemical hydrogen pump enabling the formation of dry hydrogen gas. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24977-24984.	3.8	8

#	ARTICLE	IF	CITATIONS
91	Ultra-thin phosphate glass exhibiting high proton conductivity at intermediate temperatures. International Journal of Hydrogen Energy, 2020, 45, 16690-16697.	3.8	8
92	n -type electrical conduction in SnS thin films. Physical Review Materials, 2021, 5, .	0.9	8
93	Features of valence band structure of. Journal of Physics Condensed Matter, 1996, 8, 303-312.	0.7	7
94	Novel wide band gap alloyed semiconductors, $x(\text{LiGaO}_2)_{1/2}-(1-x)\text{ZnO}$, and fabrication of their thin films. Science in China Series D: Earth Sciences, 2009, 52, 111-115.	0.9	7
95	Synthesis of Y_2O_3 -doped CeO_2 nanocrystals and their surface modification. Journal of Physics: Conference Series, 2009, 165, 012041.	0.3	7
96	Fabrication of ZnF_2 thin films and their vacuum ultraviolet transparency. Thin Solid Films, 2013, 534, 508-514.	0.8	7
97	Phase determination of zinc selenide nanocrystals depending on the ligand species of precursor complexes. Journal of Crystal Growth, 2014, 394, 81-88.	0.7	7
98	Relationship between structure and mobility of proton carriers injected by electrochemical substitution of sodium ions with protons in $35\text{NaO}_{1/2}-1\text{WO}_3-8\text{NbO}_{5/2}-5\text{LaO}_{3/2}-5\text{PO}_{5/2}$ -based glasses. Solid State Ionics, 2016, 288, 281-285.	1.3	7
99	Thermal stability and proton conductivity of densely proton injected phosphate glasses containing rare-earth elements. Journal of Non-Crystalline Solids, 2020, 541, 120064.	1.5	7
100	Properties of transition metal oxides with layered perovskite structure. Solid State Ionics, 1998, 108, 255-260.	1.3	6
101	Observation of Electronic Structure in Conduction Band of CaTiO_3 . Journal of the Ceramic Society of Japan, 1998, 106, 964-967.	1.3	6
102	Effect of Dopant Species on the Dissolving Site of the Protons in $\text{La}_2\text{Zr}_2\text{O}_7$ -Doped with Alkaline-Earth Ions. Journal of the Electrochemical Society, 2003, 150, E590.	1.3	6
103	Synthesis of LiGaO_2 nanocrystals and their application toward bright UV emission from ZnO quantum dots. Journal of Crystal Growth, 2011, 330, 9-16.	0.7	6
104	Fabrication of ZnO Films Alloyed with LiGaO_2 by RF-Magnetron Sputtering and Their Optical Property. Japanese Journal of Applied Physics, 2011, 50, 061102.	0.8	6
105	Wurtzite-Derived Quaternary Oxide Semiconductor $\text{Cu}_2\text{ZnGeO}_4$: Its Structural Characteristics, Optical Properties, and Electronic Structure. Inorganic Chemistry, 2017, 56, 14277-14283.	1.9	6
106	Dense proton injection into phosphate glasses using corona discharge treatment. Applied Surface Science, 2018, 428, 718-722.	3.1	6
107	Understanding the effect of oxide components on proton mobility in phosphate glasses using a statical analysis approach. RSC Advances, 2021, 11, 3012-3019.	1.7	6
108	Investigating the role of GeO_2 in enhancing the thermal stability and proton mobility of proton-conducting phosphate glasses. Journal of Materials Chemistry A, 2021, 9, 20595-20606.	5.2	6

#	ARTICLE	IF	CITATIONS
109	Direct evaluation of hole effective mass of SnS \hat{c} SnSe solid solutions with ARPES measurement. Physical Chemistry Chemical Physics, 2022, 24, 634-638.	1.3	6
110	Site-Dependent Tb ³⁺ Luminescence by Energy Transfer from Ce ³⁺ in Ce ³⁺ \hat{c} Tb ³⁺ Codoped LaLuO ₃ . Journal of Physical Chemistry C, 2022, 126, 6499-6504.	1.5	6
111	Contribution of the Sn 5s state to the SnS valence band: direct observation via ARPES measurements. Electronic Structure, 2022, 4, 025004.	1.0	6
112	Preparation and Electrical Properties of La _{2-x} Sr _x MnO _{4+\hat{c}} with K ₂ NiF ₄ -Structure. Journal of the Ceramic Society of Japan, 1995, 103, 1297-1301.	1.3	5
113	Optical absorption spectra and the nature of conduction carriers of hole-doped Sr _{1+x} La ^{1-x} FeO ₄ . Solid State Communications, 1996, 97, 411-415.	0.9	5
114	Synthesis of novel compounds with cation ordered fluorite and \hat{c} -PbO ₂ related structures by oxidation of Sn ₂ Nb ₂ O ₇ pyrochlore. Journal of Alloys and Compounds, 2004, 370, 80-89.	2.8	5
115	Colloidal semiconductor quantum dots; syntheses, properties and applications. Journal of the Ceramic Society of Japan, 2015, 123, 1-8.	0.5	5
116	Fabrication of \hat{c} -CuGaO ₂ thin films by ion-exchange of \hat{c} -NaGaO ₂ thin films. Applied Physics Express, 2017, 10, 095501.	1.1	5
117	Fermi Energy Limitation at \hat{c} -CuGaO ₂ Interfaces Induced by Electrochemical Oxidation/Reduction of Cu. ACS Applied Energy Materials, 2020, 3, 9117-9125.	2.5	5
118	Zn(Te ^{1-x} Se _x) quantum dots synthesized through a facile route and their band-edge and surface state driven visible-light emission. Journal of Luminescence, 2021, 231, 117829.	1.5	5
119	Proton-conducting phosphate glass: Recent development as an electrolyte in intermediate temperature fuel cells. Journal of the Ceramic Society of Japan, 2022, 130, 1-9.	0.5	5
120	Thermodynamic Stability of Metastable Tetragonal t'-Ce _{0.5} Zr _{0.5} O ₂ Phase in the CeO ₂ -ZrO ₂ system. High Temperature Materials and Processes, 2003, 22, 157-164.	0.6	4
121	Formation and Thermal Stability of Hydrate-Like Compounds of Ba ₂ (In ^{1-x} M ^{III} _x) ₂ O ₅ \cdot nH ₂ O (M ^{III} =Ga, Sc, Lu, and Y). Journal of the Electrochemical Society, 2005, 152, A1068.	1.3	4
122	Impact of the Electrical Forming Process on the Resistance Switching Behaviors in Lanthanum-Doped Strontium Titanate Ceramic Chip Devices. Japanese Journal of Applied Physics, 2013, 52, 045802.	0.8	4
123	High temperature phases with wurtzite-derived structure in Zn ₂ LiGaO ₄ \hat{c} ZnO alloy system. Journal of Alloys and Compounds, 2016, 688, 69-76.	2.8	4
124	Formation of Amorphous H ₃ Zr ₂ Si ₂ PO ₁₂ by Electrochemical Substitution of Sodium Ions in Na ₃ Zr ₂ Si ₂ PO ₁₂ with Protons. Inorganic Chemistry, 2017, 56, 13949-13954.	1.9	4
125	Orientation control of \hat{c} -NaGaO ₂ thin film: a precursor for \hat{c} -CuGaO ₂ as a thin-film solar cell absorber. Journal of the Ceramic Society of Japan, 2017, 125, 872-875.	0.5	4
126	Flux growth of \hat{c} -NaGaO ₂ single crystals. Journal of Crystal Growth, 2018, 504, 26-30.	0.7	4

#	ARTICLE	IF	CITATIONS
127	Comprehensive first-principles study of AgGaO ₂ and CuGaO ₂ polymorphs. Journal of the Ceramic Society of Japan, 2019, 127, 339-347.	0.5	4
128	Enhancement by praseodymium addition of catalytic activity of nickel supported on cerium-zirconium oxide in methane steam reforming. Journal of the Ceramic Society of Japan, 2014, 122, 537-542.	0.5	3
129	Quantum dot phosphors free from hazardous elements: Current status and prospects for established materials and new ZnTe-based alloys. Journal of the Society for Information Display, 2020, 28, 680-690.	0.8	3
130	Control of the near-surface OH concentration of float glass by anodic proton injection. Journal of the American Ceramic Society, 2020, 103, 3642-3649.	1.9	3
131	Growth of ¹² -NaGaO ₂ thin films using ultrasonic spray pyrolysis. Journal of Asian Ceramic Societies, 2022, 10, 520-529.	1.0	3
132	DC electrorheology of fluid suspending barium titanate in the range of ferroelectric size effects. Ferroelectrics, 1997, 203, 241-248.	0.3	2
133	Synthesis of novel cation-ordered compounds with fluorite-related structure prepared by oxidation of Sn-Ta-O pyrochlore. Journal of Solid State Chemistry, 2005, 178, 1254-1261.	1.4	2
134	Synthesis of CuInS ₂ nanocrystals and their structural transformation triggered by ligand exchange. Science Bulletin, 2009, 54, 4005-4008.	1.7	2
135	Distribution of Non-Ferrous Metals between Matte and Slag in Copper Matte Smelting of Low Grade Secondary Materials. Journal of MMIJ, 2014, 130, 115-124.	0.4	2
136	Facile synthesis of colloidal InAs nanocrystals using triphenylarsine as an arsenic source. Journal of Crystal Growth, 2014, 405, 39-43.	0.7	2
137	Formation of Au nanoparticle arrays on hydrogel two-dimensional patterns based on poly(vinylpyrrolidone). Japanese Journal of Applied Physics, 2017, 56, 06GG06.	0.8	2
138	Surface modification of soda-lime-silicate glass via the high-temperature electrochemical injection of tin ions. Applied Surface Science, 2020, 532, 147421.	3.1	2
139	Enhanced Valley Splitting of Exciton Emission in Colloidal PbSe Quantum Dots When the Interdot Distance Coincides with Onset of Förster Resonance Energy Transfer. Journal of Physical Chemistry Letters, 2021, 12, 3120-3126.	2.1	2
140	Formation of Spherical, Rod- and Branch-Shaped Colloidal In ₂ O ₃ Nanocrystals through Simple Thermolysis of an Oleate Precursor. Materials Transactions, 2020, 61, 462-468.	0.4	2
141	Electrical Conduction Properties of Sr-Doped LaPO ₄ and CePO ₄ under Oxidizing and Reducing Conditions.. ChemInform, 2005, 36, no.	0.1	1
142	Cu-Doped Zr-Ce-Pr-O Mixed Oxide Phases with High Oxygen Storage Capacity (OSC). Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2009, 73, 268-274.	0.2	1
143	Zr-Ce-Pr-O Mixed Oxide Phases with High Oxygen Storage Capacity (OSC). Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2009, 73, 262-267.	0.2	1
144	Synthesis of colloidal solution of ¹² -LiGaO ₂ nanocrystals capped with organic surfactant. Journal of the Ceramic Society of Japan, 2014, 122, 195-197.	0.5	1

#	ARTICLE	IF	CITATIONS
145	Fabrication of Au nanoparticles on poly(vinylpyrrolidone) nanowires exhibiting reversible frequency change of localized surface plasmon resonance. <i>AIP Advances</i> , 2018, 8, 015314.	0.6	1
146	Controlling the electrical conductivity of ternary wurtzite-type and metastable In^{2+} -AgGaO ₂ by impurity doping. <i>AIP Advances</i> , 2018, 8, 085203.	0.6	1
147	Catalytic CO oxidation of palladium nanoparticles formed by one-step synthesis on polycarbosilane nanowires. <i>Materials Research Express</i> , 2018, 5, 085003.	0.8	1
148	Invited Paper: Quantum Dot Phosphors Containing None of Hazardous Element; ZnTe-Based Alloy Quantum Dots. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 1160-1163.	0.1	1
149	Fabrication and Morphological Control of Ni-Based Nanowires by Self-Assembled Solution Synthesis. <i>Materials Transactions</i> , 2019, 60, 2188-2194.	0.4	1
150	White-light emission from zinc chalcogenide alloy quantum dots with gradient compositions. <i>Journal of Luminescence</i> , 2021, 232, 117876.	1.5	1
151	Anhydrous Silicophosphoric Acid Glass: Thermal Properties and Proton Conductivity. <i>ChemPhysChem</i> , 2021, , .	1.0	1
152	Origin of the Temperature Dependence of Proton Conductivity in Phosphate Glass Prepared by Alkali-Proton Substitution Technique. <i>Journal of the Electrochemical Society</i> , 2022, 169, 034517.	1.3	1
153	Electronic Transport Properties of Hole-Doped $\text{Sr}_{1-x}\text{La}_x\text{CrO}_{4+\delta}$. <i>Journal of the Ceramic Society of Japan</i> , 1995, 103, 1112-1116.	1.3	0
154	Synthesis of Organic Capped Colloidal Zinc Oxide Quantum Dots and Their UV Dominant Emission Property. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1207, 1.	0.1	0
155	A Cu-added Zr-Ce-Sn-Pr-O mixed oxide phase with a high oxygen storage capacity. <i>Journal of Physics: Conference Series</i> , 2009, 165, 012090.	0.3	0
156	In^{2+} -PbO ₂ -related phase appearing in the Sn^{IV} -Ta ⁵⁺ -O system transformed from cation-ordered fluorite-related phase. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 902-907.	0.5	0
157	Ternary and quaternary wurtzite-type oxide semiconductors: new materials and their properties. , 2015, , .		0
158	Invited Paper: Synthesis and optical properties of cadmium-free colloidal In^{2+} -VI alloy quantum dot phosphor. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 405-405.	0.1	0
159	Synthesis of Composite Nanoparticles of Oxide Solid Electrolytes and Their Sintering. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2007, 15, 51-57.	0.0	0
160	First Principles Calculation of Electrical and Optical Properties of Cu_3AsO_4 : Promising Thin-Film Solar Cell Absorber from Nonferrous Metal Manufacturing By-Products. <i>Materials Transactions</i> , 2021, , .	0.4	0