

Naoomi Yamada

List of Publications by Year in descending order

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73
papers

2,540
citations

159585

30
h-index

197818

49
g-index

75
all docs

75
docs citations

75
times ranked

2402
citing authors

#	ARTICLE	IF	CITATIONS
1	Truly Transparent p-Type CuI Thin Films with High Hole Mobility. <i>Chemistry of Materials</i> , 2016, 28, 4971-4981.	6.7	166
2	Properties of TiO_2 -based transparent conducting oxides. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 1529-1537.	1.8	165
3	Fabrication of highly conductive $\text{Ti}_{1-x}\text{Nb}_x\text{O}_2$ polycrystalline films on glass substrates via crystallization of amorphous phase grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2007, 90, 212106.	3.3	146
4	Electronic Band Structure of Transparent Conductor: Nb-Doped Anatase TiO_2 . <i>Applied Physics Express</i> , 2008, 1, 111203.	2.4	134
5	Study on the species of heavy metals in MSW incineration fly ash and their leaching behavior. <i>Fuel Processing Technology</i> , 2016, 152, 108-115.	7.2	132
6	Transport properties of d-electron-based transparent conducting oxide: Anatase $\text{Ti}_{1-x}\text{Nb}_x\text{O}_2$. <i>Journal of Applied Physics</i> , 2007, 101, 093705.	2.5	115
7	Fabrication of Low Resistivity Nb-doped TiO_2 Transparent Conductive Polycrystalline Films on Glass by Reactive Sputtering. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5275.	1.5	86
8	Structural, electrical and optical properties of sputter-deposited Nb-doped TiO_2 (TNO) polycrystalline films. <i>Thin Solid Films</i> , 2008, 516, 5754-5757.	1.8	70
9	Direct growth of transparent conducting Nb-doped anatase TiO_2 polycrystalline films on glass. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	70
10	Low-temperature Fabrication of Transparent Conducting Anatase Nb-doped TiO_2 Films by Sputtering. <i>Applied Physics Express</i> , 2008, 1, 115001.	2.4	69
11	Large electron mass anisotropy in a d-electron-based transparent conducting oxide: Nb-doped anatase TiO_2 films. <i>Physical Review B</i> , 2009, 79, .	3.2	63
12	Synthesis of ZnSnN_2 crystals via a high-pressure metathesis reaction. <i>Crystal Research and Technology</i> , 2016, 51, 220-224.	1.3	62
13	High-Mobility Transparent p-Type CuI Semiconducting Layers Fabricated on Flexible Plastic Sheets: Toward Flexible Transparent Electronics. <i>Advanced Electronic Materials</i> , 2017, 3, 1700298.	5.1	62
14	Doping Mechanisms of Sn in In_2O_3 Powder Studied Using ^{119}Sn Mössbauer Spectroscopy and X-Ray Diffraction. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 2856-2862.	1.5	59
15	Transparent conducting Nb-doped anatase TiO_2 (TNO) thin films sputtered from various oxide targets. <i>Thin Solid Films</i> , 2010, 518, 3101-3104.	1.8	51
16	Donor Compensation and Carrier-Transport Mechanisms in Tin-doped In_2O_3 Films Studied by Means of Conversion Electron ^{119}Sn Mössbauer Spectroscopy and Hall Effect Measurements. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 4158-4163.	1.5	48
17	Effects of HCl, SO_2 and H_2O in flue gas on the condensation behavior of Pb and Cd vapors in the cooling section of municipal solid waste incineration. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 2787-2793.	3.9	46
18	Visible-blind wide-dynamic-range fast-response self-powered ultraviolet photodetector based on CuI/In-Ga-Zn-O heterojunction. <i>Applied Materials Today</i> , 2019, 15, 153-162.	4.3	46

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19	High Mobility Exceeding 80 cm ² V ⁻¹ s ⁻¹ in Polycrystalline Ta-Doped SnO ₂ Thin Films on Glass Using Anatase TiO ₂ Seed Layers. Applied Physics Express, 2010, 3, 031102.	2.4	44
20	Properties of TiO ₂ -based transparent conducting oxide thin films on GaN(0001) surfaces. Journal of Applied Physics, 2010, 107, .	2.5	43
21	Low-Temperature Fabrication and Performance of Polycrystalline CuI Films as Transparent p-Type Semiconductors. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1700782.	1.8	39
22	Novel Wide-Band-Gap Ag(In _{1-x} Ga _x)Se ₂ Thin Film Solar Cells. Materials Research Society Symposia Proceedings, 2005, 865, 1111.	0.1	38
23	Oxygen-Doped Zinc Nitride as a High-Mobility Nitride-Based Semiconductor. Journal of Physical Chemistry C, 2015, 119, 5327-5333.	3.1	38
24	Transparent conducting properties of anatase Ti _{0.94} Nb _{0.06} O ₂ polycrystalline films on glass substrate. Thin Solid Films, 2008, 516, 5750-5753.	1.8	37
25	Fabrication of TiO ₂ -based transparent conducting oxide on glass and polyimide substrates. Thin Solid Films, 2009, 517, 3106-3109.	1.8	37
26	p-to n-Type Conversion and Nonmetal-Metal Transition of Lithium-Inserted Cu ₃ N Films. Chemistry of Materials, 2015, 27, 8076-8083.	6.7	35
27	Fabrication of highly conductive Ta-doped SnO ₂ polycrystalline films on glass using seed-layer technique by pulse laser deposition. Thin Solid Films, 2010, 518, 3093-3096.	1.8	34
28	Conduction-band effective mass and bandgap of ZnSnN ₂ earth-abundant solar absorber. Scientific Reports, 2017, 7, 14987.	3.3	33
29	Synthesis of a Novel Rocksalt-Type Ternary Nitride Semiconductor MgSnN ₂ Using the Metathesis Reaction under High Pressure. European Journal of Inorganic Chemistry, 2020, 2020, 446-451.	2.0	33
30	Effect of HCl, SO ₂ and H ₂ O on the condensation of heavy metal vapors in flue gas cooling section. Fuel Processing Technology, 2013, 105, 181-187.	7.2	31
31	Effects of Postdeposition Annealing on Electrical Properties of Mo-Doped Indium Oxide (IMO) Thin Films Deposited by RF Magnetron Cosputtering. Japanese Journal of Applied Physics, 2006, 45, L1179-L1182.	1.5	28
32	Comparative study of electron transport mechanisms in epitaxial and polycrystalline zinc nitride films. Journal of Applied Physics, 2016, 119, .	2.5	28
33	Fabrication of transparent conductive W-doped SnO ₂ thin films on glass substrates using anatase TiO ₂ seed layers. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 543-545.	0.8	25
34	Transparent conductivity of fluorine-doped anatase TiO ₂ epitaxial thin films. Journal of Applied Physics, 2012, 111, 093528.	2.5	25
35	Effect of inorganic particulates on the condensation behavior of lead and zinc vapors upon flue gas cooling. Proceedings of the Combustion Institute, 2013, 34, 2821-2829.	3.9	25
36	A microscopic study of the precipitation of metallic iron in slag from iron-rich coal during high temperature gasification. Fuel, 2013, 103, 101-110.	6.4	24

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37	Effect of magnesium additives on PM2.5 reduction during pulverized coal combustion. Fuel Processing Technology, 2013, 105, 188-194.	7.2	24
38	Lateral Solid-Phase Epitaxy of Oxide Thin Films on Glass Substrate Seeded with Oxide Nanosheets. ACS Nano, 2014, 8, 6145-6150.	14.6	24
39	High-throughput optimization of near-infrared-transparent Mo-doped In ₂ O ₃ thin films with high conductivity by combined use of atmospheric-pressure mist chemical-vapor deposition and sputtering. Thin Solid Films, 2017, 626, 46-54.	1.8	22
40	Enhanced Carrier Transport in Uniaxially (001)-Oriented Anatase Ti _{0.94} Nb _{0.06} O ₂ Films Grown on Nanosheet Seed Layers. Applied Physics Express, 2011, 4, 045801.	2.4	21
41	Condensation Behavior of Heavy Metals during Oxy-fuel Combustion: Deposition, Species Distribution, and Their Particle Characteristics. Energy & Fuels, 2013, 27, 5640-5652.	5.1	20
42	Wide-Range-Tunable p-Type Conductivity of Transparent Cu _{1-x} Br _x Alloy. Advanced Functional Materials, 2020, 30, 2003096.	14.9	20
43	Preparation of Zn _{1-x} Mg _x O Film by Electrochemical Reaction. Electrochemical and Solid-State Letters, 2006, 9, C178.	2.2	19
44	Enhanced Carrier Generation in Nb-Doped SnO ₂ Thin Films Grown on Strain-Inducing Substrates. Applied Physics Express, 2012, 5, 061201.	2.4	18
45	Synthesis of CaSnN ₂ via a High-Pressure Metathesis Reaction and the Properties of II-Sn-N ₂ (II = Ca, Mg, Zn) Semiconductors. Inorganic Chemistry, 2021, 60, 1773-1779.	4.0	18
46	Chalcopyrite Thin-Film Tandem Solar Cells with 1.5 V Open-Circuit-Voltage. , 2006, , .		14
47	The bandgap of ZnSnN ₂ with a disordered-wurtzite structure. Japanese Journal of Applied Physics, 2019, 58, SC1034.	1.5	14
48	Band Gap-Tunable (Mg, Zn)SnN ₂ Earth-Abundant Alloys with a Wurtzite Structure. ACS Applied Electronic Materials, 2021, 3, 4934-4942.	4.3	14
49	Effect of kaolin on ash partitioning during combustion of a low-rank coal in O ₂ /CO ₂ atmosphere. Fuel, 2018, 222, 538-543.	6.4	13
50	Sputter Deposition of High-Mobility Sn _{1-x} Ta _x O ₂ Films on Anatase-TiO ₂ -Coated Glass. Japanese Journal of Applied Physics, 2010, 49, 108002.	1.5	12
51	Composition-Dependent Properties of Wurtzite-Type Mg _{1-x} Sn _{1-x} N ₂ Epitaxially Grown on GaN(001) Templates. ACS Applied Electronic Materials, 2021, 3, 1341-1349.	4.3	12
52	Zinc nitride as a potential high-mobility transparent conductor. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600472.	1.8	11
53	Structural Properties of Ag-Based Chalcopyrite Compound Thin Films for Solar Cells. Materials Research Society Symposia Proceedings, 2005, 865, 5121.	0.1	10
54	Structural study of TiO ₂ -based transparent conducting films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 1027-1029.	2.1	10

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55	Transparent conducting zinc nitride films. Japanese Journal of Applied Physics, 2014, 53, 05FX01.	1.5	10
56	Electron-transport properties of degenerate ZnSnN ₂ doped with oxygen. BMC Materials, 2020, 2, .	6.8	10
57	Tunability of the bandgap of SnS by variation of the cell volume by alloying with A.E. elements. Scientific Reports, 2022, 12, 7434.	3.3	9
58	Bandgap tunable Zn ₃ -3Mg ₃ N ₂ alloy for earth-abundant solar absorber. Materials Letters, 2019, 236, 649-652.	2.6	7
59	Effect of H ₂ S concentration in gasified gas on the microstructure and leaching properties of coal slag. Fuel, 2014, 116, 812-819.	6.4	6
60	Origin of Optical Transparency in a Transparent Superconductor LiTi ₂ O ₄ . ACS Applied Electronic Materials, 2020, 2, 517-522.	4.3	5
61	TiO ₂ /TNO homojunction introduced in a dye-sensitized solar cell with a novel TNO transparent conductive oxide film. Journal of the American Ceramic Society, 2018, 101, 5071-5079.	3.8	3
62	Sputter joining of TiO ₂ / SiO ₂ thin film system. IOP Conference Series: Materials Science and Engineering, 2011, 24, 012011.	0.6	2
63	Sputter Deposition of Anatase Titanium Dioxide Transparent Conducting Films. Journal of the Vacuum Society of Japan, 2008, 51, 602-607.	0.3	2
64	Electron transport properties in degenerate magnesium tin oxynitride (Mg _{1-x} Sn _{1+x} N _{2-y} O _{2-y}) with average wurtzite structure. Journal of Applied Physics, 2022, 131, 075302.	2.5	2
65	Thin film synthesis and violet-light emission of widegap Cu ₂ /Zn ₄ . Journal of the Ceramic Society of Japan, 2022, 130, 331-336.	1.1	1
66	Title is missing!. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2007, 58, 798-803.	0.2	0
67	Low-temperature crystallization of TiO ₂ films by sputter deposition. , 2010, , .		0
68	Electrical and Structural Properties of Ta-doped SnO ₂ Transparent Conductive Thin Films by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2014, 1604, 1.	0.1	0
69	Condensation Behavior of Heavy Metal Vapors upon Flue Gas Cooling in Oxy-fuel versus Air Combustion. Journal of Chemical Engineering of Japan, 2015, 48, 450-457.	0.6	0
70	Synthesis of a Novel Rocksalt-Type Ternary Nitride Semiconductor MgSnN ₂ Using the Metathesis Reaction Under High Pressure. European Journal of Inorganic Chemistry, 2020, 2020, 418-418.	2.0	0
71	Low-temperature Fabrication of Transparent Conductive Polycrystalline Nb-doped TiO ₂ Films by Sputtering. , 2008, , .		0
72	Recent Developments of Nb-doped Anatase TiO ₂ Transparent Conductors. Hyomen Kagaku, 2008, 29, 25-30.	0.0	0

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73	Growth of Transparent Conducting Nb-doped Anatase TiO ₂ Thin Films on Glass using Seed Layers. , 2008, , .		0