Naoomi Yamada

List of Publications by Citations

70 papers	2,086 citations	27 h-index	44 g-index
75 ext. papers	2,342 ext. citations	3.8 avg, IF	4.79 L-index

#	Paper	IF	Citations
70	Fabrication of highly conductive Ti1−xNbxO2 polycrystalline films on glass substrates via crystallization of amorphous phase grown by pulsed laser deposition. *Applied Physics Letters*, **2007**, 90, 212106	3.4	138
69	Properties of TiO2-based transparent conducting oxides. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 1529-1537	1.6	135
68	Electronic Band Structure of Transparent Conductor: Nb-Doped Anatase TiO2. *Applied Physics Express*, **2008**, 1, 111203	2.4	122
67	Transport properties of d-electron-based transparent conducting oxide: Anatase Ti1−xNbxO2. *Journal of Applied Physics*, **2007**, 101, 093705	2.5	111
66	Truly Transparent p-Type γ-CuI Thin Films with High Hole Mobility. *Chemistry of Materials*, **2016**, 28, 4971-4981	9.8	110
65	Study on the species of heavy metals in MSW incineration fly ash and their leaching behavior. *Fuel Processing Technology*, **2016**, 152, 108-115	7.2	89
64	Fabrication of Low Resistivity Nb-doped TiO2Transparent Conductive Polycrystalline Films on Glass by Reactive Sputtering. *Japanese Journal of Applied Physics*, **2007**, 46, 5275-5277	1.4	79
63	Direct growth of transparent conducting Nb-doped anatase TiO2 polycrystalline films on glass. *Journal of Applied Physics*, **2009**, 105, 123702	2.5	67
62	Structural, electrical and optical properties of sputter-deposited Nb-doped TiO2 (TNO) polycrystalline films. *Thin Solid Films*, **2008**, 516, 5754-5757	2.2	66
61	Low-temperature Fabrication of Transparent Conducting Anatase Nb-doped TiO2Films by Sputtering. *Applied Physics Express*, **2008**, 1, 115001	2.4	64
60	Large electron mass anisotropy in a d-electron-based transparent conducting oxide: Nb-doped anatase TiO2 epitaxial films. *Physical Review B*, **2009**, 79,	3.3	59
59	Doping Mechanisms of Sn in In2O3Powder Studied Using119Sn Mössbauer Spectroscopy and X-Ray Diffraction. *Japanese Journal of Applied Physics*, **1999**, 38, 2856-2862	1.4	52
58	Transparent conducting Nb-doped anatase TiO2 (TNO) thin films sputtered from various oxide targets. *Thin Solid Films*, **2010**, 518, 3101-3104	2.2	46
57	Synthesis of ZnSnN2 crystals via a high-pressure metathesis reaction. *Crystal Research and Technology*, **2016**, 51, 220-224	1.3	46
56	Donor Compensation and Carrier-Transport Mechanisms in Tin-doped In2O3Films Studied by Means of Conversion Electron119Sn Mössbauer Spectroscopy and Hall Effect Measurements. *Japanese Journal of Applied Physics*, **2000**, 39, 4158-4163	1.4	44
55	High-Mobility Transparent p-Type CuI Semiconducting Layers Fabricated on Flexible Plastic Sheets: Toward Flexible Transparent Electronics. *Advanced Electronic Materials*, **2017**, 3, 1700298	6.4	42
54	Effects of HCl, SO2 and H2O in flue gas on the condensation behavior of Pb and Cd vapors in the cooling section of municipal solid waste incineration. *Proceedings of the Combustion Institute*, **2011**, 33, 2787-2793	5.9	40

53	Properties of TiO2-based transparent conducting oxide thin films on GaN(0001) surfaces. *Journal of Applied Physics*, **2010**, 107, 053110	2.5	39
52	High Mobility Exceeding 80 cm2V-1s-1in Polycrystalline Ta-Doped SnO2Thin Films on Glass Using Anatase TiO2Seed Layers. *Applied Physics Express*, **2010**, 3, 031102	2.4	35
51	Oxygen-Doped Zinc Nitride as a High-Mobility Nitride-Based Semiconductor. *Journal of Physical Chemistry C*, **2015**, 119, 5327-5333	3.8	34
50	Fabrication of TiO2-based transparent conducting oxide on glass and polyimide substrates. *Thin Solid Films*, **2009**, 517, 3106-3109	2.2	33
49	p- to n-Type Conversion and NonmetalⅡMetal Transition of Lithium-Inserted Cu3N Films. *Chemistry of Materials*, **2015**, 27, 8076-8083	9.6	32
48	Transparent conducting properties of anatase Ti0.94Nb0.06O2 polycrystalline films on glass substrate. *Thin Solid Films*, **2008**, 516, 5750-5753	2.2	32
47	Novel Wide-Band-Gap Ag(In1-xGax)Se2 Thin Film Solar Cells. *Materials Research Society Symposia Proceedings*, **2005**, 865, 1111		30
46	Fabrication of highly conductive Ta-doped SnO2 polycrystalline films on glass using seed-layer technique by pulse laser deposition. *Thin Solid Films*, **2010**, 518, 3093-3096	2.2	28
45	Visible-blind wide-dynamic-range fast-response self-powered ultraviolet photodetector based on CuI/In-Ga-Zn-O heterojunction. *Applied Materials Today*, **2019**, 15, 153-162	6.6	27
44	Effect of HCl, SO2 and H2O on the condensation of heavy metal vapors in flue gas cooling section. *Fuel Processing Technology*, **2013**, 105, 181-187	7.2	27
43	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	1.6	27
42	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	1.4	25
41	Comparative study of electron transport mechanisms in epitaxial and polycrystalline zinc nitride films. *Journal of Applied Physics*, **2016**, 119, 025104	2.5	23
40	Transparent conductivity of fluorine-doped anatase TiO2 epitaxial thin films. *Journal of Applied Physics*, **2012**, 111, 093528	2.5	23
39	Conduction-band effective mass and bandgap of ZnSnN earth-abundant solar absorber. *Scientific Reports*, **2017**, 7, 14987	4.9	22
38	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	5.9	21
37	Enhanced Carrier Transport in Uniaxially (001)-Oriented Anatase Ti0.94Nb0.06O2Films Grown on Nanosheet Seed Layers. *Applied Physics Express*, **2011**, 4, 045801	2.4	21
36	Fabrication of transparent conductive W-doped SnO2 thin films on glass substrates using anatase TiO2 seed layers. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2011**, 8, 543-545		21

35	A microscopic study of the precipitation of metallic iron in slag from iron-rich coal during high temperature gasification. *Fuel*, **2013**, 103, 101-110	7.1	20
34	Effect of magnesium additives on PM2.5 reduction during pulverized coal combustion. *Fuel Processing Technology*, **2013**, 105, 188-194	7.2	20
33	Synthesis of a Novel Rocksalt-Type Ternary Nitride Semiconductor MgSnN2 Using the Metathesis Reaction under High Pressure. *European Journal of Inorganic Chemistry*, **2020**, 2020, 446-451	2.3	19
32	Preparation of Zn[sub 1⊠]Mg[sub x]O Film by Electrochemical Reaction. *Electrochemical and Solid-State Letters*, **2006**, 9, C178		18
31	High-throughput optimization of near-infrared-transparent Mo-doped In2O3 thin films with high conductivity by combined use of atmospheric-pressure mist chemical-vapor deposition and sputtering. *Thin Solid Films*, **2017**, 626, 46-54	2.2	17
30	Lateral solid-phase epitaxy of oxide thin films on glass substrate seeded with oxide nanosheets. *ACS Nano*, **2014**, 8, 6145-50	16.7	17
29	Enhanced Carrier Generation in Nb-Doped SnO$_{2}$ Thin Films Grown on Strain-Inducing Substrates. *Applied Physics Express*, **2012**, 5, 061201	2.4	17
28	Condensation Behavior of Heavy Metals during Oxy-fuel Combustion: Deposition, Species Distribution, and Their Particle Characteristics. *Energy & Fuels*, **2013**, 27, 5640-5652	4.1	17
27	The bandgap of ZnSnN2 with a disordered-wurtzite structure. *Japanese Journal of Applied Physics*, **2019**, 58, SC1034	1.4	12
26	Chalcopyrite Thin-Film Tandem Solar Cells with 1.5 V Open-Circuit-Voltage **2006**,		12
25	Wide-Range-Tunable p-Type Conductivity of Transparent CuI1⊠Brx Alloy. *Advanced Functional Materials*, **2020**, 30, 2003096	15.6	11
24	Sputter Deposition of High-Mobility Sn1-xTaxO2Films on Anatase-TiO2-Coated Glass. *Japanese Journal of Applied Physics*, **2010**, 49, 108002	1.4	10
23	Structural study of TiO2-based transparent conducting films. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2008**, 26, 1027-1029	2.9	10
22	Transparent conducting zinc nitride films. *Japanese Journal of Applied Physics*, **2014**, 53, 05FX01	1.4	9
21	Structural Properties of Ag-Based Chalcopyrite Compound Thin Films for Solar Cells. *Materials Research Society Symposia Proceedings*, **2005**, 865, 5121		9
20	Zinc nitride as a potential high-mobility transparent conductor. *Physica Status Solidi (A) Applications and Materials Science*, **2017**, 214, 1600472	1.6	8
19	Electron-transport properties of degenerate ZnSnN2 doped with oxygen. *BMC Materials*, **2020**, 2,	6.7	8
18	Effect of kaolin on ash partitioning during combustion of a low-rank coal in O2/CO2 atmosphere. *Fuel*, **2018**, 222, 538-543	7.1	8

17	Bandgap tunable Zn3-3xMg3xN2 alloy for earth-abundant solar absorber. *Materials Letters*, **2019**, 236, 649-652	3.3	7
16	Synthesis of CaSnN via a High-Pressure Metathesis Reaction and the Properties of II-Sn-N (II = Ca, Mg, Zn) Semiconductors. *Inorganic Chemistry*, **2021**, 60, 1773-1779	5.1	6
15	Effect of H2S concentration in gasified gas on the microstructure and leaching properties of coal slag. *Fuel*, **2014**, 116, 812-819	7.1	5
14	Composition-Dependent Properties of Wurtzite-Type Mg1+xSn1−xN2 Epitaxially Grown on GaN(001) Templates. *ACS Applied Electronic Materials*, **2021**, 3, 1341-1349	4	4
13	Band Gap-Tunable (Mg, Zn)SnN2 Earth-Abundant Alloys with a Wurtzite Structure. *ACS Applied Electronic Materials*,	4	3
12	Origin of Optical Transparency in a Transparent Superconductor LiTi2O4. *ACS Applied Electronic Materials*, **2020**, 2, 517-522	4	2
11	TiO2/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	2
10	Sputter joining of TiO2/ SiO2thin film system. *IOP Conference Series: Materials Science and Engineering*, **2011**, 24, 012011	0.4	2
9	Sputter Deposition of Anatase Titanum Dioxide Transparent Conducting Films. *Journal of the Vacuum Society of Japan*, **2008**, 51, 602-607		2
8	Electron transport properties in degenerate magnesium tin oxynitride (Mg1−xSn1+xN2−2yO2y) with average wurtzite structure. *Journal of Applied Physics*, **2022**, 131, 075302	2.5	1
7	Tunability of the bandgap of SnS by variation of the cell volume by alloying with A.E. elements.. *Scientific Reports*, **2022**, 12, 7434	4.9	0
6	Synthesis of a Novel Rocksalt-Type Ternary Nitride Semiconductor MgSnN2 Using the Metathesis Reaction Under High Pressure. *European Journal of Inorganic Chemistry*, **2020**, 2020, 418-418	2.3	
5	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	0.8	
4	Electrical and Structural Properties of Ta-doped SnO2 Transparent Conductive Thin Films by Pulsed Laser Deposition. *Materials Research Society Symposia Proceedings*, **2014**, 1604, 1		
3	. *Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan*, **2007**, 58, 798-803	0.1	
2	Recent Developments of Nb-doped Anatase TiO2 Transparent Conductors. *Hyomen Kagaku*, **2008**, 29, 25-30		
1	Thin film synthesis and violet-light emission of widegap Cu₂ZnI₄. *Journal of the Ceramic Society of Japan*, **2022**, 130, 331-336	1	