Naoomi Yamada

List of Publications by Year in Descending Order

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	Electron transport properties in degenerate magnesium tin oxynitride (Mg1−xSn1+xN2−yO2y) with average wurtzite structure. *Journal of Applied Physics*, **2022**, 131, 075302	2.5	1
69	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
68	Thin film synthesis and violet-light emission of widegap Cu₂ZnI₄. *Journal of the Ceramic Society of Japan*, **2022**, 130, 331-336	1	
67	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
66	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
65	Electron-transport properties of degenerate ZnSnN2 doped with oxygen. *BMC Materials*, **2020**, 2,	6.7	8
64	Wide-Range-Tunable p-Type Conductivity of Transparent CuI1−xBrx Alloy. *Advanced Functional Materials*, **2020**, 30, 2003096	15.6	11
63	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	
62	Origin of Optical Transparency in a Transparent Superconductor LiTi2O4. *ACS Applied Electronic Materials*, **2020**, 2, 517-522	4	2
61	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
60	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
59	The bandgap of ZnSnN2 with a disordered-wurtzite structure. *Japanese Journal of Applied Physics*, **2019**, 58, SC1034	1.4	12
58	Bandgap tunable Zn3-3xMg3xN2 alloy for earth-abundant solar absorber. *Materials Letters*, **2019**, 236, 649-652	3.3	7
57	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
56	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
55	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
54	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

53	Zinc nitride as a potential high-mobility transparent conductor. *Physica Status Solidi (A) Applications and Materials Science*, **2017**, 214, 1600472	1.6	8
52	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
51	Conduction-band effective mass and bandgap of ZnSnN earth-abundant solar absorber. *Scientific Reports*, **2017**, 7, 14987	4.9	22
50	Comparative study of electron transport mechanisms in epitaxial and polycrystalline zinc nitride films. *Journal of Applied Physics*, **2016**, 119, 025104	2.5	23
49	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
48	Truly Transparent p-Type CuI Thin Films with High Hole Mobility. *Chemistry of Materials*, **2016**, 28, 4971-4981	9.8	110
47	Synthesis of ZnSnN2 crystals via a high-pressure metathesis reaction. *Crystal Research and Technology*, **2016**, 51, 220-224	1.3	46
46	Oxygen-Doped Zinc Nitride as a High-Mobility Nitride-Based Semiconductor. *Journal of Physical Chemistry C*, **2015**, 119, 5327-5333	3.8	34
45	p- to n-Type Conversion and Nonmetal–Metal Transition of Lithium-Inserted Cu3N Films. *Chemistry of Materials*, **2015**, 27, 8076-8083	9.6	32
44	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	
43	Lateral solid-phase epitaxy of oxide thin films on glass substrate seeded with oxide nanosheets. *ACS Nano*, **2014**, 8, 6145-50	16.7	17
42	Transparent conducting zinc nitride films. *Japanese Journal of Applied Physics*, **2014**, 53, 05FX01	1.4	9
41	Effect of H2S concentration in gasified gas on the microstructure and leaching properties of coal slag. *Fuel*, **2014**, 116, 812-819	7.1	5
40	Electrical and Structural Properties of Ta-doped SnO2 Transparent Conductive Thin Films by Pulsed Laser Deposition. *Materials Research Society Symposia Proceedings*, **2014**, 1604, 1		
39	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
38	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
37	Effect of magnesium additives on PM2.5 reduction during pulverized coal combustion. *Fuel Processing Technology*, **2013**, 105, 188-194	7.2	20
36	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

35	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
34	Enhanced Carrier Generation in Nb-Doped SnO$_{2}$ Thin Films Grown on Strain-Inducing Substrates. *Applied Physics Express*, **2012**, 5, 061201	2.4	17
33	Transparent conductivity of fluorine-doped anatase TiO2 epitaxial thin films. *Journal of Applied Physics*, **2012**, 111, 093528	2.5	23
32	Sputter joining of TiO2/ SiO2thin film system. *IOP Conference Series: Materials Science and Engineering*, **2011**, 24, 012011	0.4	2
31	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
30	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
29	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
28	Properties of TiO2-based transparent conducting oxide thin films on GaN(0001) surfaces. *Journal of Applied Physics*, **2010**, 107, 053110	2.5	39
27	Sputter Deposition of High-Mobility Sn1-xTaxO2Films on Anatase-TiO2-Coated Glass. *Japanese Journal of Applied Physics*, **2010**, 49, 108002	1.4	10
26	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
25	Transparent conducting Nb-doped anatase TiO2 (TNO) thin films sputtered from various oxide targets. *Thin Solid Films*, **2010**, 518, 3101-3104	2.2	46
24	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
23	Properties of TiO2-based transparent conducting oxides. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 1529-1537	1.6	135
22	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
21	Direct growth of transparent conducting Nb-doped anatase TiO2 polycrystalline films on glass. *Journal of Applied Physics*, **2009**, 105, 123702	2.5	67
20	Fabrication of TiO2-based transparent conducting oxide on glass and polyimide substrates. *Thin Solid Films*, **2009**, 517, 3106-3109	2.2	33
19	Electronic Band Structure of Transparent Conductor: Nb-Doped Anatase TiO2. *Applied Physics Express*, **2008**, 1, 111203	2.4	122
18	Low-temperature Fabrication of Transparent Conducting Anatase Nb-doped TiO2Films by Sputtering. *Applied Physics Express*, **2008**, 1, 115001	2.4	64

17	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
16	Structural, electrical and optical properties of sputter-deposited Nb-doped TiO2 (TNO) polycrystalline films. *Thin Solid Films*, **2008**, 516, 5754-5757	2.2	66
15	Transparent conducting properties of anatase Ti0.94Nb0.06O2 polycrystalline films on glass substrate. *Thin Solid Films*, **2008**, 516, 5750-5753	2.2	32
14	Sputter Deposition of Anatase Titanum Dioxide Transparent Conducting Films. *Journal of the Vacuum Society of Japan*, **2008**, 51, 602-607		2
13	Recent Developments of Nb-doped Anatase TiO2 Transparent Conductors. *Hyomen Kagaku*, **2008**, 29, 25-30		
12	. *Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan*, **2007**, 58, 798-803	0.1	
11	Transport properties of d-electron-based transparent conducting oxide: Anatase Ti1−xNbxO2. *Journal of Applied Physics*, **2007**, 101, 093705	2.5	111
10	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
9	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
8	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
7	Preparation of Zn[sub 1−]Mg[sub x]O Film by Electrochemical Reaction. *Electrochemical and Solid-State Letters*, **2006**, 9, C178		18
6	Chalcopyrite Thin-Film Tandem Solar Cells with 1.5 V Open-Circuit-Voltage **2006**,		12
5	Novel Wide-Band-Gap Ag(In1-xGax)Se2 Thin Film Solar Cells. *Materials Research Society Symposia Proceedings*, **2005**, 865, 1111		30
4	Structural Properties of Ag-Based Chalcopyrite Compound Thin Films for Solar Cells. *Materials Research Society Symposia Proceedings*, **2005**, 865, 5121		9
3	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
2	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
1	Band Gap-Tunable (Mg, Zn)SnN2 Earth-Abundant Alloys with a Wurtzite Structure. *ACS Applied Electronic Materials*,	4	3