

# Toyohiko J Konno

## List of Publications by Year in descending order

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43  
papers

911  
citations

623734

14  
h-index

454955

30  
g-index

43  
all docs

43  
docs citations

43  
times ranked

835  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of mechanical stress on ferroelectricity in (Hf <sub>0.5</sub> Zr <sub>0.5</sub> )O <sub>2</sub> thin films. Applied Physics Letters, 2016, 108, .	3.3	187
2	Crystallization of silicon in aluminium/amorphous-silicon multilayers. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1992, 66, 749-765.	0.6	129
3	Ferroelectricity mediated by ferroelastic domain switching in HfO <sub>2</sub> -based epitaxial thin films. Applied Physics Letters, 2018, 113, .	3.3	69
4	Metal-mediated crystallization of amorphous silicon in silicon-silver layered systems. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 71, 163-178.	0.6	45
5	Bulk and domain-wall effects in ferroelectric photovoltaics. Physical Review B, 2016, 94, .	3.2	43
6	Effect of the film thickness on the crystal structure and ferroelectric properties of (Hf <sub>0.5</sub> Zr <sub>0.5</sub> )O <sub>2</sub> thin films deposited on various substrates. Materials Science in Semiconductor Processing, 2017, 70, 239-245.	4.0	41
7	Solid state epitaxy of (Hf,Zr)O <sub>2</sub> thin films with orthorhombic phase. Journal of the Ceramic Society of Japan, 2016, 124, 689-693.	1.1	34
8	Metal-mediated crystallization of amorphous germanium in germanium-silver layered systems. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 71, 179-199.	0.6	32
9	Formation of the orthorhombic phase in CeO <sub>2</sub> -HfO <sub>2</sub> solid solution epitaxial thin films and their ferroelectric properties. Applied Physics Letters, 2019, 114, .	3.3	30
10	Fabrication of ferroelectric Fe doped HfO <sub>2</sub> epitaxial thin films by ion-beam sputtering method and their characterization. Japanese Journal of Applied Physics, 2018, 57, 11UF02.	1.5	23
11	Crystal Structure Analysis of Hydrothermally Synthesized Epitaxial (K <sub>x</sub> Na <sub>1-x</sub> )NbO <sub>3</sub> Films. Japanese Journal of Applied Physics, 2013, 52, 09KA11.	1.5	22
12	Formation of ordered CoAl alloy clusters by the plasma-gas condensation technique. Journal of Applied Physics, 2001, 90, 3079-3085.	2.5	18
13	Co cluster coalescence behavior observed by electrical conduction and transmission electron microscopy. Applied Physics Letters, 2001, 78, 1535-1537.	3.3	18
14	Effects of starting materials on the deposition behavior of hydrothermally synthesized {111̄} oriented epitaxial (K,Nb)NbO <sub>3</sub> thick films and their ferroelectric and piezoelectric properties. Journal of Crystal Growth, 2019, 511, 1-7.	1.5	18
15	Comparative study on alloy cluster formation in Co-Al and Co-Pt systems. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 834.	1.6	17
16	Enhanced photovoltaic effects in ferroelectric solid solution thin films with nanodomains. Applied Physics Letters, 2020, 116, .	3.3	17
17	Domain orientation relationship of orthorhombic and coexisting monoclinic phases of YO <sub>1.5</sub> -doped HfO <sub>2</sub> epitaxial thin films. Japanese Journal of Applied Physics, 2018, 57, 11UF16.	1.5	16
18	Fabrication of L10-FeNi phase by sputtering with rapid thermal annealing. Journal of Alloys and Compounds, 2018, 750, 164-170.	5.5	15

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19	Epitaxial Li-FeNi films with high degree of order and large uniaxial magnetic anisotropy fabricated by denitriding FeNiN films. Applied Physics Letters, 2020, 116, .	3.3	13
20	Growth of epitaxial (K, Na)NbO <sub>3</sub> films with various orientations by hydrothermal method and their properties. Japanese Journal of Applied Physics, 2019, 58, SLLB14.	1.5	11
21	Characterization of (111)-oriented epitaxial (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> thick films deposited by hydrothermal method. Japanese Journal of Applied Physics, 2017, 56, 10PF04.	1.5	10
22	Preparation of {001} <sub>c</sub> -oriented epitaxial (K, Na)NbO <sub>3</sub> thick films by repeated hydrothermal deposition technique. Journal of the Ceramic Society of Japan, 2018, 126, 281-285.	1.1	10
23	Formation of polar phase in Fe-doped ZrO <sub>2</sub> epitaxial thin films. Applied Physics Letters, 2018, 113, .	3.3	8
24	Effect of Ta-substitution on the deposition of (K,Na)(Nb,Ta)O <sub>3</sub> films by hydrothermal method. Japanese Journal of Applied Physics, 2019, 58, SLLB12.	1.5	8
25	Good piezoelectricity of self-polarized thick epitaxial (K,Na)NbO <sub>3</sub> films grown below the Curie temperature (240°C) using a hydrothermal method. Applied Physics Letters, 2020, 117, .	3.3	8
26	Structural and electrical characterization of hydrothermally deposited piezoelectric (K,Na)(Nb,Ta)O <sub>3</sub> thick films. Journal of Materials Science, 2020, 55, 8829-8842.	3.7	8
27	Low-temperature deposition of Li substituted (K,Na)NbO <sub>3</sub> films by a hydrothermal method and their structural and ferroelectric properties. Journal of the Ceramic Society of Japan, 2019, 127, 388-393.	1.1	8
28	Crystal structure and compositional analysis of epitaxial (K <sub>0.56</sub> Na <sub>0.44</sub> )NbO <sub>3</sub> films prepared by hydrothermal method. Journal of Materials Research, 2016, 31, 693-701.	2.6	7
29	Rapid deposition of (K,Na)NbO <sub>3</sub> thick films using microwave-assisted hydrothermal technique. Japanese Journal of Applied Physics, 2020, 59, SPPB02.	1.5	7
30	Ferroelectric and piezoelectric properties of 100-nm-thick CeO <sub>2</sub> -HfO <sub>2</sub> epitaxial films. Applied Physics Letters, 2022, 120, .	3.3	7
31	Structural evolution of epitaxial CeO <sub>2</sub> -HfO <sub>2</sub> thin films using atomic-scale observation: Formation of ferroelectric phase and domain structure. Acta Materialia, 2022, 235, 118091.	7.9	7
32	Crystallization of Amorphous Si In Al/Si Multilayers. Materials Research Society Symposia Proceedings, 1991, 230, 189.	0.1	5
33	Energy storage properties of epitaxially grown CaZrO <sub>3</sub> (1-x)NaNbO <sub>3</sub> thin films prepared with chemical solution deposition method. Journal of Applied Physics, 2020, 128, .	2.5	5
34	Crystallization of Amorphous Silicon-Aluminum thin Films: IN-SITU Observation and Thermal Analysis.. Materials Research Society Symposia Proceedings, 1991, 237, 609.	0.1	4
35	Reactions in Metal-Metalloid Multilayers. Materials Research Society Symposia Proceedings, 1993, 311, 3.	0.1	3
36	Crystallization of Amorphous Germanium in a Silver Germanium Layered System. Materials Research Society Symposia Proceedings, 1993, 311, 99.	0.1	3

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37	Transmission Electron Microscopy of MOCVD Titanium Nitride Films. Materials Research Society Symposia Proceedings, 1994, 337, 735.	0.1	2
38	Structure and Mechanical Properties of Fe/Zr Multilayers.. Materials Research Society Symposia Proceedings, 1991, 239, 493.	0.1	1
39	Effect of Ta substitution on the synthesis of (K,Na)(Nb,Ta) <sub>3</sub> O <sub>10</sub> powders by hydrothermal reaction: Insight into the combination of alkaline solution and raw powder. Journal of the Ceramic Society of Japan, 2021, 129, 365-371.	1.1	1
40	Lower-temperature processing of potassium niobate films by microwave-assisted hydrothermal deposition technique. Journal of the Ceramic Society of Japan, 2022, 130, 123-130.	1.1	1
41	Structure and Magnetic Properties of Fe/Zr Multilayer Films. Materials Research Society Symposia Proceedings, 1993, 313, 731.	0.1	0
42	In-Situ TEM Observation of Interfacial Reactions in the Zr/Si System. Materials Research Society Symposia Proceedings, 1994, 337, 481.	0.1	0
43	Crystallization in Metal-Metalloid Multilayers. Materials Research Society Symposia Proceedings, 1995, 382, 3.	0.1	0