Shigehiko Sasa

List of Publications by Year in descending order

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		394421	377865
59	1,198	19	34
papers	citations	h-index	g-index
FO	FO	FO	1117
59	59	59	1117
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low-Temperature Formation of Indium Oxide Thin-Film using Excimer Light by Solution Process and Characterization of Thin-Film Transistor Characteristics. Vacuum and Surface Science, 2022, 65, 139-144.	0.1	O
2	Improved electrical performance of solution-processed zinc oxide-based thin-film transistors with bilayer structures. Journal of Information Display, 2022, 23, 105-113.	4.0	5
3	Development of terahertz optical sources for an excitation wavelength of 1.56 \hat{l} /4m. , 2020, , .		0
4	Disorder and Weak Localization near Charge Neutral Point in Tiâ€cleaned Single‣ayer Graphene. Physica Status Solidi (B): Basic Research, 2019, 256, 1800541.	1.5	1
5	The thermal stability of α 03 thin films grown on (111) 3C-SiC template substrates., 2019, , .		0
6	Bending Durability of Zinc Oxide Thin-films Transistors Formed on Flexible Substrates. Vacuum and Surface Science, 2018, 61, 274-279.	0.1	1
7	Effects of He plasma treatment on zinc oxide thin film transistors. , 2017, , .		1
8	Protonation-induced change on optical, electrical, and structural properties of epitaxial WO <inf>3</inf> films. , 2017, , .		1
9	Glucose Sensing by an Enzyme-modified ZnO-based FET. Procedia Engineering, 2016, 168, 84-88.	1.2	15
10	Non-destructive carrier concentration determination in InAs thin films for THz radiation generating devices using fast differential reflectance spectroscopy. Optical and Quantum Electronics, 2016, 48, 1.	3.3	4
11	Reflection Layer Mediated Enhancement of Terahertz Radiation Utilizing Heavily-Doped InAs Thin Films. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 423-429.	2.2	6
12	A potentiometric glucose sensing by an enzyme-modified Ta <inf>2</inf> O <inf>5</inf> /ZnO/Zn <inf>0.6</inf> Mg <inf>0.4</inf> O solution-gate field-effect transistor., 2015,,.		0
13	Postgrowth annealing effects on structural, optical, and electrical properties of & amp;#x03B2;-MoO <inf>3</inf> films grown by molecular beam epitaxy., 2014,,.		O
14	A potentiometric immunosensor based on a ZnO field-effect transistor. Japanese Journal of Applied Physics, 2014, 53, 05FF04.	1.5	6
15	Characteristics of MoO ₃ films grown by molecular beam epitaxy. Japanese Journal of Applied Physics, 2014, 53, 05FJ02.	1.5	38
16	Zinc oxide ion-sensitive field-effect transistors and biosensors. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2098-2104.	1.8	25
17	Characteristics of P-type (Zn _{_{<l></l>}Mg<i>_x</i>} </td <td>gt;)Cr<s 0:1</s </td> <td>sub>2&<mark>lt;</mark></td>	gt;)Cr <s 0:1</s 	sub>2& <mark>lt;</mark>
18	8 MeV Proton Irradiation Damage and Its Recovery by Annealing on Single-Crystalline Zinc Oxide Crystals. Materials Research Society Symposia Proceedings, 2012, 1432, 159.	0.1	2

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19	Zinc oxideâ€based biosensors. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1570-1573.	0.8	23
20	Radiation hardness of singleâ€crystalline zinc oxide films. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1577-1579.	0.8	33
21	Irradiation effect of 8 MeV protons on single-crystalline zinc oxide. , 2011, , .		2
22	Intense Terahertz Radiation from InAs Thin Films. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 646-654.	2.2	16
23	Microwave performance of ZnO/ZnMgO heterostructure field effect transistors. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 449-452.	1.8	41
24	Electric properties of aqueous grown ZnO nanorods on Au/Ti/Si substrates. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 522-524.	0.8	1
25	Development of ZnO Transistors and Their Application to Bio-Sensors. Zairyo/Journal of the Society of Materials Science, Japan, 2011, 60, 447-456.	0.2	2
26	Irradiation Effect of 8MeV Protons on Single-Crystalline Zinc Oxide Films. Zairyo/Journal of the Society of Materials Science, Japan, 2011, 60, 988-993.	0.2	0
27	Improvement of chemical stability of aqueous solution grown ZnO nanorods by aminosilane modification. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1562-1564.	0.8	2
28	ZnO nanorods growth on sapphire substrates using aqueous solution with microwave heating and their photoluminescence properties. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1592-1594.	0.8	2
29	Thickness dependence of intense terahertz emission from InAs thin films. , 2010, , .		1
30	Polarization Analysis of Ga1-xAlxN and Zn1-xMgxO by First-Principles Calculation. Zairyo/Journal of the Society of Materials Science, Japan, 2010, 59, 660-665.	0.2	1
31	Characteristics of Enzyme-Based ZnO/Zn0.7Mg0.3O Heterojunction Field-Effect Transistor as Glucose Sensor. Japanese Journal of Applied Physics, 2009, 48, 04C081.	1.5	15
32	First-Principles Study on the Spontaneous Polarization of Wurtzite Zn1-xMgxO Alloy Crystals. Zairyo/Journal of the Society of Materials Science, Japan, 2009, 58, 243-250.	0.2	7
33	Performance and Stability of ZnO/ZnMgO Hetero-Metal–Insulator–Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2008, 47, 2845-2847.	1.5	15
34	Structural and optical properties of ZnMgO thin films grown by pulsed laser deposition using ZnO-MgO multiple targets. Journal of Physics: Conference Series, 2007, 59, 670-673.	0.4	5
35	Ion-Sensitive Characteristics of an Electrolyte-Solution-Gate ZnO/ZnMgO Heterojunction Field-Effect Transistor as a Biosensing Transducer. Japanese Journal of Applied Physics, 2007, 46, L865-L867.	1.5	33
36	Microwave-assisted synthesis of c-axis oriented ZnO nanorods on a glass substrate coated with ZnO film. Materials Research Society Symposia Proceedings, 2007, 1035, 1.	0.1	1

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37	Improved Stability of High-Performance ZnO/ZnMgO Hetero-MISFETs. IEEE Electron Device Letters, 2007, 28, 543-545.	3.9	46
38	Polarization-induced high-quality two-dimensional electrons in a ZnO/ZnMgO heterostructure. AIP Conference Proceedings, 2007, , .	0.4	4
39	Polarization-induced two-dimensional electron gas at Zn1â^3xMgxO/ZnO heterointerface. Journal of Crystal Growth, 2007, 301-302, 353-357.	1.5	61
40	ZnO/ZnMgO Heterojunction FETs. , 2006, , 371-414.		8
41	Characterization of [ZnO]m[ZnMgO]n multiple quantum wells grown by molecular beam epitaxy. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 191-194.	2.7	20
42	High-performance ZnOâ^•ZnMgO field-effect transistors using a hetero-metal-insulator-semiconductor structure. Applied Physics Letters, 2006, 89, 053502.	3.3	96
43	Molecular beam epitaxial growth of wide bandgap ZnMgO alloy films on (111)-oriented Si substrate toward UV-detector applications. Journal of Crystal Growth, 2005, 278, 288-292.	1.5	169
44	Growth of ZnO/Zn1â^'xMgxO films by pulsed laser ablation. Thin Solid Films, 2005, 486, 174-177.	1.8	21
45	Molecular Beam Epitaxial Growth of Al-doped ZnMgO Alloy Films for Modulation-doped ZnO/ZnMgO Heterostructures. Japanese Journal of Applied Physics, 2005, 44, 3822-3827.	1.5	35
46	Characteristics of a Zn0.7Mg0.3Oâ^•ZnO heterostructure field-effect transistor grown on sapphire substrate by molecular-beam epitaxy. Applied Physics Letters, 2005, 87, 112106.	3.3	88
47	Piezoelectric Carrier Confinement by Lattice Mismatch at ZnO/Zn0.6Mg0.4O Heterointerface. Japanese Journal of Applied Physics, 2004, 43, L1372-L1375.	1.5	75
48	Terahertz radiation from $InAs/AlxGa1a^{**}xSb$ (x=0.5) heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 574-577.	2.7	3
49	Implant isolation of ZnO. Journal of Applied Physics, 2003, 93, 2972-2976.	2.5	66
50	Electrical isolation of ZnO by ion bombardment. Applied Physics Letters, 2002, 81, 3350-3352.	3.3	64
51	Numerical simulation of electron diffraction through a narrow constriction. Journal of Applied Physics, 1999, 86, 6249-6255.	2.5	7
52	Timeâ€evolved numerical simulation of a twoâ€dimensional electron wave packet through a quantum double slit. Journal of Applied Physics, 1993, 73, 998-1000.	2.5	6
53	Timeâ€evolved numerical simulation of a twoâ€dimensional electron wave packet through a quantum point contact. Applied Physics Letters, 1992, 61, 52-54.	3.3	8
54	Direct and indirect transitions in (GaAs)m/(AlAs)5 superlattices. Surface Science, 1990, 228, 206-209.	1.9	5

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55	Electronic properties of Si atomic-planar-doped GaAs/AlAs quantum well structures grown by MBE. Surface Science, 1986, 174, 433-438.	1.9	7
56	Surface morphology of GaAs grown by gas-source MBE using trimethylgallium and arsenic. Journal of Crystal Growth, 1986, 76, 521-524.	1.5	11
57	MBE Growth of High-Quality GaAs Using Triethylgallium as a Gallium Source. Japanese Journal of Applied Physics, 1986, 25, L52-L53.	1.5	24
58	Si Atomic-Planar-Doping in GaAs Made by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 1985, 24, L602-L604.	1.5	52
59	Characteristics of Polycrystalline ZnO-Based Electrolyte-Solution-Gate Field-Effect Transistors Fabricated on Glass Substrates. Applied Physics Express, 0, 2, 087001.	2.4	15