

Dieter G Ast

List of Publications by Year in descending order

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23
papers

307
citations

933447

10
h-index

839539

18
g-index

24
all docs

24
docs citations

24
times ranked

176
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of reactively sputtered c-axis aligned nanocrystalline InGaZnO ₄ . Applied Physics Letters, 2014, 105, .	3.3	42
2	Kinetics of silicide-induced crystallization of polycrystalline thin-film transistors fabricated from amorphous chemical-vapor deposition silicon. Applied Physics Letters, 1998, 72, 803-805.	3.3	41
3	High mobility, dual layer, c-axis aligned crystalline/amorphous IGZO thin film transistor. Applied Physics Letters, 2015, 107, 183503.	3.3	40
4	21.4: Deposition Conditions and HRTEM Characterization of CAAC IGZO. Digest of Technical Papers SID International Symposium, 2015, 46, 308-311.	0.3	25
5	Chemical Etch Rate and X-Ray Structure of Reactive Sputtered c-Axis Aligned Crystalline In _x Ga _y Zn _z O ₄ Films. ECS Journal of Solid State Science and Technology, 2015, 4, Q43-Q45.	1.8	24
6	High mobility amorphous InGaZnO ₄ thin film transistors formed by CO ₂ laser spike annealing. Applied Physics Letters, 2015, 106, .	3.3	24
7	45.2: Effects of RF Sputtering Parameters and Film Composition on c-Axis Aligned Crystalline (CAAC) IGZO Films. Digest of Technical Papers SID International Symposium, 2015, 46, 677-680.	0.3	21
8	Mechanical properties of methanol crazes in poly(methyl methacrylate). Journal of Polymer Science, Polymer Physics Edition, 1978, 16, 349-366.	1.0	19
9	Holographic interferometry of crazes in polycarbonate. Journal of Applied Physics, 1974, 45, 4220-4228.	2.5	16
10	Hybrid reflections from multiple x-ray scattering in epitaxial oxide films. Applied Physics Letters, 2017, 111, 131903.	3.3	11
11	The thermal stability of lattice mismatched InGaAs grown on patterned GaAs. Journal of Electronic Materials, 1991, 20, 703-708.	2.2	10
12	Measurements of Grain Boundary Trap Density and Hydrogen Diffusivity in Polycrystalline Silicon Fet's. Materials Research Society Symposia Proceedings, 1990, 182, 341.	0.1	7
13	Effects of RF Sputtering Parameters on C-axis Aligned Crystalline (CAAC) InGaZnO ₄ Films Using Design of Experiment (DOE) Approach. ECS Journal of Solid State Science and Technology, 2016, 5, P368-P375.	1.8	6
14	Rapid Solidification Of Composite Materials. Materials Research Society Symposia Proceedings, 1983, 28, 189.	0.1	5
15	The Structure of a Near Coincidence $\hat{\epsilon}=5$, [001] Twist Boundary in Silicon. Materials Research Society Symposia Proceedings, 1982, 14, 369.	0.1	4
16	Optical Simulation of the Origin of Contrast in the Electron Microscope. American Journal of Physics, 1971, 39, 1164-1168.	0.7	3
17	Ebic/Tem Investigation of Defects in Solar Cell Silicon. Materials Research Society Symposia Proceedings, 1981, 5, 167.	0.1	3
18	Oxidation of Epitaxial- and Polycrystalline-SiGe Alloys. Materials Research Society Symposia Proceedings, 1993, 326, 227.	0.1	2

#	ARTICLE	IF	CITATIONS
19	Characterization of Defects in Silicon Ribbons By Combined Ebic and Hvem. Materials Research Society Symposia Proceedings, 1980, 2, 297.	0.1	1
20	Creep Deformation of Ultrafine Grained Ni ₇ 5B ₁ 7Si ₈ . Materials Research Society Symposia Proceedings, 1985, 58, 421.	0.1	1
21	Instabilities in the resistivity of intrinsic polysilicon resistors during hydrogenation: Role of sodium and cooling kinetics. Journal of Applied Physics, 1994, 76, 3579-3582.	2.5	1
22	Anomalous Behavior in the Resistivity of N-I-N Polysilicon Resistors After Hydrogenation. Materials Research Society Symposia Proceedings, 1992, 262, 389.	0.1	0
23	A Misfit Dislocation Blocking Mechanism in Continuous InGaAs Layers Grown on Patterned GaAs. Materials Research Society Symposia Proceedings, 1993, 308, 401.	0.1	0