

Gb Stringfellow

List of Publications by Year in descending order

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110
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4,981
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87888

38
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95266

68
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111
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111
docs citations

111
times ranked

1701
citing authors

#	ARTICLE	IF	CITATIONS
1	Miscibility gaps in quaternary III/V alloys. <i>Journal of Crystal Growth</i> , 1982, 58, 194-202.	1.5	328
2	The importance of lattice mismatch in the growth of $GaxIn_{1-x}P$ epitaxial crystals. <i>Journal of Applied Physics</i> , 1972, 43, 3455-3460.	2.5	310
3	Calculation of ternary and quaternary III ϵ V phase diagrams. <i>Journal of Crystal Growth</i> , 1974, 27, 21-34.	1.5	249
4	Calculation of ternary phase diagrams of III ϵ V systems. <i>Journal of Physics and Chemistry of Solids</i> , 1972, 33, 665-677.	4.0	178
5	A critical appraisal of growth mechanisms in MOVPE. <i>Journal of Crystal Growth</i> , 1984, 68, 111-122.	1.5	169
6	Calculation of III ϵ V ternary phase diagrams: In-Ga-As and In-As-Sb. <i>Journal of Physics and Chemistry of Solids</i> , 1969, 30, 1779-1791.	4.0	146
7	Microstructures produced during the epitaxial growth of InGaN alloys. <i>Journal of Crystal Growth</i> , 2010, 312, 735-749.	1.5	142
8	Thermodynamic aspects of organometallic vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 1983, 62, 225-229.	1.5	135
9	Solubility of nitrogen in binary III ϵ V systems. <i>Journal of Crystal Growth</i> , 1997, 178, 1-7.	1.5	132
10	Calculation of regular solution interaction parameters in semiconductor solid solutions. <i>Journal of Physics and Chemistry of Solids</i> , 1973, 34, 1749-1751.	4.0	102
11	Mass spectrometric studies of trimethylindium pyrolysis. <i>Journal of Crystal Growth</i> , 1988, 92, 591-604.	1.5	102
12	Decomposition mechanisms of tertiarybutylarsine. <i>Journal of Crystal Growth</i> , 1989, 94, 663-672.	1.5	95
13	Decomposition mechanisms of trimethylgallium. <i>Journal of Crystal Growth</i> , 1990, 102, 103-116.	1.5	94
14	MOVPE growth of InP using isobutylphosphine and tert-butylphosphine. <i>Journal of Crystal Growth</i> , 1986, 77, 11-18.	1.5	91
15	Immiscibility and spinodal decomposition in III/V alloys. <i>Journal of Crystal Growth</i> , 1983, 65, 454-462.	1.5	90
16	Decomposition kinetics of OMVPE precursors. <i>Journal of Crystal Growth</i> , 1986, 75, 247-254.	1.5	86
17	The role of impurities in III/V semiconductors grown by organometallic vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 1986, 75, 91-100.	1.5	85
18	$Al_xGa_{1-x}As_ySb_{1-y}$ phase diagram. <i>Journal of Crystal Growth</i> , 1983, 62, 1-6.	1.5	84

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19	OMVPE growth of GaAs _{1-x} Sb _x : solid composition. Journal of Crystal Growth, 1983, 64, 413-415.	1.5	82
20	Mass spectrometric studies of phosphine pyrolysis and OMVPE growth of InP. Journal of Crystal Growth, 1987, 85, 148-153.	1.5	82
21	The kinetic aspects of ordering in GaAs _{1-x} Sb _x grown by organometallic vapor phase epitaxy. Journal of Crystal Growth, 1987, 85, 175-181.	1.5	82
22	OMVPE growth of Al _x Ga _{1-x} As. Journal of Crystal Growth, 1981, 55, 42-52.	1.5	78
23	OMVPE growth of GaInAs. Journal of Crystal Growth, 1983, 64, 461-470.	1.5	75
24	OMVPE growth of InP using TMIIn. Journal of Crystal Growth, 1983, 63, 8-12.	1.5	72
25	Thermodynamic aspects of OMVPE. Journal of Crystal Growth, 1984, 70, 133-139.	1.5	72
26	InAsBi alloys grown by organometallic vapor phase epitaxy. Journal of Crystal Growth, 1993, 134, 29-34.	1.5	68
27	Order/disorder heterostructure in Ga _{0.5} In _{0.5} P with $\Gamma^c E_g = 160$ meV. Journal of Crystal Growth, 1994, 145, 140-146.	1.5	65
28	Kinetics of the reaction between trimethylgallium and arsine. Journal of Crystal Growth, 1990, 102, 126-136.	1.5	60
29	GaAs growth using tertiarybutylarsine and trimethylgallium. Journal of Crystal Growth, 1988, 93, 15-19.	1.5	58
30	VPE growth of Al _x Ga _{1-x} As. Journal of Crystal Growth, 1978, 43, 47-60.	1.5	57
31	Ordered structures and metastable alloys grown by OMVPE. Journal of Crystal Growth, 1989, 98, 108-117.	1.5	55
32	Effect of growth rate on properties of Ga _{0.51} In _{0.49} P grown by organometallic vapor phase epitaxy. Journal of Crystal Growth, 1991, 109, 279-284.	1.5	55
33	The calculation of regular solution interaction parameters between elements from groups III, IV and V of the periodic table. Materials Research Bulletin, 1971, 6, 371-379.	5.2	48
34	Doping studies for InP grown by organometallic vapor phase epitaxy. Journal of Crystal Growth, 1986, 74, 535-542.	1.5	48
35	OMVPE growth of the new semiconductor alloys Ga _{1-x} P _x Sb _x and In _{1-x} P _x Sb _x . Journal of Crystal Growth, 1988, 93, 62-69.	1.5	43
36	Incomplete Solubility in Nitride Alloys. Materials Research Society Symposia Proceedings, 1996, 449, 871.	0.1	42

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37	A mass spectrometric study of the simultaneous reaction mechanism of TMIn and PH ₃ to grow InP. Journal of Crystal Growth, 1988, 92, 605-615.	1.5	41
38	Sb and Bi surfactant effects on homo-epitaxy of GaAs on () patterned substrates. Journal of Crystal Growth, 2004, 265, 367-374.	1.5	41
39	Surface processes in OMVPE – the frontiers. Journal of Crystal Growth, 2000, 221, 1-11.	1.5	40
40	OMVPE growth of GaInP. Journal of Crystal Growth, 1983, 62, 648-650.	1.5	36
41	Fundamental aspects of vapor growth and epitaxy. Journal of Crystal Growth, 1991, 115, 1-11.	1.5	35
42	OMVPE growth mechanism for GaP using tertiarybutylphosphine and trimethylgallium. Journal of Crystal Growth, 1989, 96, 906-914.	1.5	34
43	Alternate sources and growth chemistry for OMVPE and CBE processes. Journal of Crystal Growth, 1990, 105, 260-270.	1.5	34
44	Ordering in GaInP grown at low temperatures. Journal of Crystal Growth, 1995, 146, 558-563.	1.5	34
45	Fundamental aspects of organometallic vapor phase epitaxy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 87, 97-116.	3.5	34
46	Order and Surface Processes in III-V Semiconductor Alloys. MRS Bulletin, 1997, 22, 27-32.	3.5	33
47	The effect of supplemental t-butyl radicals on the pyrolysis of tertiarybutylarsine, tertiarybutylphosphine, and ditertiarybutylarsine. Journal of Crystal Growth, 1989, 98, 309-316.	1.5	30
48	InTlSb growth by OMVPE. Journal of Crystal Growth, 1995, 156, 320-326.	1.5	30
49	Organometallic vapor-phase epitaxial growth of Al _x Ga _{1-x} Sb and Al _x Ga _{1-x} As _y Sb _{1-y} . Journal of Crystal Growth, 1991, 113, 441-448.	1.5	29
50	Trisdimethylaminoantimony: a new Sb source for low temperature epitaxial growth of InSb. Journal of Crystal Growth, 1994, 143, 15-21.	1.5	29
51	Novel precursors for organometallic vapor phase epitaxy. Journal of Crystal Growth, 1993, 128, 503-510.	1.5	25
52	Effect of Te doping on step structure and ordering in GaInP. Journal of Crystal Growth, 1998, 195, 13-20.	1.5	25
53	Calculation of distribution coefficients of donors in III-V semiconductors. Journal of Physics and Chemistry of Solids, 1974, 35, 775-783.	4.0	24
54	Mechanisms of GaAs growth using tertiarybutylarsine and trimethylgallium. Journal of Crystal Growth, 1989, 94, 673-682.	1.5	24

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55	Growth of GaSb using trisdimethylaminoantimony. Journal of Crystal Growth, 1995, 151, 1-8.	1.5	24
56	Effects of growth temperature and ratio on surface structure and ordering in Ga _{0.5} In _{0.5} P. Journal of Crystal Growth, 1997, 170, 219-224.	1.5	24
57	Organometallic vapor phase epitaxial growth studies of GaP _{1-x} Sbx and InP _{1-x} Sbx. Journal of Crystal Growth, 1989, 98, 679-689.	1.5	23
58	GaN/AlGaN strained quantum wells grown using atmospheric pressure organometallic vapor phase epitaxy. Journal of Crystal Growth, 1991, 109, 285-291.	1.5	23
59	OMVPE growth and characterization of Bi-containing III-V alloys. Journal of Crystal Growth, 1991, 107, 416-421.	1.5	23
60	Decomposition mechanisms of trimethylarsine. Journal of Crystal Growth, 1990, 102, 117-125.	1.5	22
61	OMVPE growth of metastable GaAsSb and GaInAsSb alloys using TBAs and TBDMSb. Journal of Crystal Growth, 1997, 179, 1-9.	1.5	22
62	Isoelectronic surfactant-induced surface step structure and correlation with ordering in GaInP. Journal of Crystal Growth, 2002, 235, 15-24.	1.5	22
63	Tertiarybutyldimethylantimony for InSb growth. Journal of Crystal Growth, 1992, 124, 142-149.	1.5	21
64	Lattice-Matched InAsN(X=0.38) on GaAs Grown by Molecular Beam Epitaxy. Materials Research Society Symposia Proceedings, 1996, 423, 335.	0.1	21
65	Te surfactant effects on the morphology of patterned (001) GaAs homoepitaxy. Journal of Crystal Growth, 2004, 269, 276-283.	1.5	21
66	Chapter 3 Organometallic Vapor-Phase Epitaxial Growth of III-V Semiconductors. Semiconductors and Semimetals, 1985, , 209-259.	0.7	20
67	Chapter 1 Materials Issues in High-Brightness Light-Emitting Diodes. Semiconductors and Semimetals, 1997, , 1-45.	0.7	20
68	Diisopropylantimonyhydride (DIPSbH) for low temperature epitaxial growth of InSb. Journal of Crystal Growth, 1993, 132, 371-376.	1.5	19
69	Enhancement of compositional modulation in GaInP epilayers by the addition of surfactants during organometallic vapor phase epitaxy growth. Journal of Crystal Growth, 2001, 233, 490-502.	1.5	17
70	Step structure during OMVPE growth of ordered GaInP. Journal of Crystal Growth, 1996, 163, 128-134.	1.5	16
71	Effect of P precursor on surface structure and ordering in GaInP. Journal of Crystal Growth, 1998, 193, 1-8.	1.5	16
72	Enhanced cation-substituted p-type doping in GaP from dual surfactant effects. Journal of Crystal Growth, 2010, 312, 174-179.	1.5	16

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73	OMVPE growth of InAsSb using novel precursors. Journal of Crystal Growth, 1995, 156, 311-319.	1.5	15
74	Pyrolysis of tertiarybutylamine alone and with trimethylgallium for GaN growth. Journal of Crystal Growth, 1998, 191, 1-7.	1.5	15
75	Development and current status of organometallic vapor phase epitaxy. Journal of Crystal Growth, 2004, 264, 620-630.	1.5	15
76	OMVPE growth of GaAs using dimethylarsine. Journal of Crystal Growth, 1989, 96, 497-504.	1.5	14
77	Zn enhancement during surfactant-mediated growth of GaInP and GaP. Journal of Crystal Growth, 2006, 287, 647-651.	1.5	14
78	Organometallic vapor phase epitaxial growth of a new quaternary semiconductor alloy $Ga_{1-x}In_xP_{1-y}Sb_y$. Journal of Crystal Growth, 1990, 106, 208-216.	1.5	13
79	Effect of growth parameters on step structure and ordering in GaInP. Journal of Crystal Growth, 1997, 174, 585-592.	1.5	13
80	Pyrolysis of monomethylhydrazine for organometallic vapor-phase epitaxy (OMVPE) growth. Journal of Crystal Growth, 1999, 204, 247-255.	1.5	13
81	Thermodynamic considerations for epitaxial growth of III/V alloys. Journal of Crystal Growth, 2017, 468, 11-16.	1.5	13
82	High quality $Ga_{1-x}In_xP$ ($x = 0.65, 0.69$) grown by OMVPE. Journal of Crystal Growth, 1986, 78, 63-68.	1.5	12
83	Use of ratio to produce heterostructures in ordered GaInP. Journal of Crystal Growth, 1997, 170, 263-269.	1.5	12
84	Tris-dimethylaminophosphorus reactions at low pressure on GaP, InP and quartz surfaces. Journal of Crystal Growth, 1996, 162, 1-6.	1.5	11
85	A comparison of the reactions of phosphorus precursors on deposited GaP and InP films. Journal of Crystal Growth, 1997, 181, 321-325.	1.5	11
86	Comparative pyrolysis studies of ethylarsines. Journal of Crystal Growth, 1991, 107, 32-36.	1.5	10
87	Triisopropylindium for OMVPE growth. Journal of Crystal Growth, 1992, 124, 88-92.	1.5	9
88	Compositional Ordering in Semiconductor Alloys. Materials Research Society Symposia Proceedings, 1993, 312, 35.	0.1	8
89	Fundamentals of thin film growth. Journal of Crystal Growth, 1994, 137, 212-223.	1.5	8
90	Time dependent surfactant effects on growth of GaInP heterostructures by organometallic vapor phase epitaxy. Journal of Crystal Growth, 2002, 234, 327-336.	1.5	8

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91	Reaction mechanisms in OMVPE growth of GaAs determined using D2 labelling experiments. Progress in Crystal Growth and Characterization, 1989, 19, 115-123.	0.8	6
92	Triisopropylindium: decomposition study and use for low temperature growth of InAs. Journal of Crystal Growth, 1993, 126, 309-316.	1.5	6
93	Characterization of ordered and disordered Ga _{0.5} In _{0.49} P domains by micro Raman spectroscopy. Journal of Crystal Growth, 1994, 145, 171-178.	1.5	6
94	Isoelectronic dopant induced ordering transition in GaInP grown by organometallic vapour phase epitaxy. Surface Science, 2000, 457, L381-L385.	1.9	6
95	CBE growth of InP using BPE and TBP: a comparative study. Journal of Crystal Growth, 1996, 164, 104-111.	1.5	5
96	Epitaxial growth of metastable semiconductor alloys. Journal of Crystal Growth, 2021, 564, 126065.	1.5	5
97	Chemical Beam Epitaxial Growth of GaP and InP Using Alternative, Safer Precursors. Materials Research Society Symposia Proceedings, 1994, 340, 167.	0.1	4
98	Chemical beam epitaxy of InP without precracking using tertiarybutylbis(dimethylamino)phosphine. Journal of Crystal Growth, 1997, 172, 1-4.	1.5	4
99	Non-Hydride Group V Sources for Omvpe. Materials Research Society Symposia Proceedings, 1989, 145, 171.	0.1	3
100	Effect of Substrate Misorientation on Ordering in Ga _{0.5} In _{0.5} P. Materials Research Society Symposia Proceedings, 1994, 340, 123.	0.1	3
101	Vapor Phase Growth. , 1980, , 181-220.		2
102	Radical reactions in pyrolysis of triethylarsine and diethylarsine. Journal of Crystal Growth, 1991, 112, 515-524.	1.5	2
103	Compositional Ordering in GaInP for Heterostructure Formation. Materials Research Society Symposia Proceedings, 1995, 417, 207.	0.1	2
104	Effects of Surfactants N and Br on Ordering in GaInP. Materials Research Society Symposia Proceedings, 2003, 794, 43.	0.1	1
105	Thermodynamics of modern epitaxial growth processes. , 2004, , 1-26.		1
106	Effects of dimethylhydrazine on Zn, C, and H doping of GaP. Journal of Crystal Growth, 2008, 310, 2702-2706.	1.5	1
107	Reply to comment on "miscibility gaps in quaternary III/V alloys" by B. De Cremoux, P. Hirtz and J. Ricciardi. Journal of Crystal Growth, 1983, 61, 179.	1.5	0
108	Ordering in III/V Alloys. Materials Research Society Symposia Proceedings, 1989, 163, 893.	0.1	0

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109	Use of the Newly-Developed Triisopropylindium for Omvpe Growth of Inas. , 0, , .		0
110	Adsorption and desorption of the surfactant Sb on GalnP grown by organometallic vapor phase epitaxy. , 0, , .		0