Anagh Bhaumik

List of Publications by Year in descending order

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385 papers

12,814 citations

28190 55 h-index 101 g-index

392 all docs

392 docs citations

times ranked

392

9392 citing authors

#	Article	IF	CITATIONS
1	Pulsed-laser evaporation technique for deposition of thin films: Physics and theoretical model. Physical Review B, 1990, 41, 8843-8859.	1.1	897
2	Domain epitaxy: A unified paradigm for thin film growth. Journal of Applied Physics, 2003, 93, 278-285.	1.1	515
3	Optical and structural properties of epitaxial MgxZn1â^'xO alloys. Applied Physics Letters, 1999, 75, 3327-3329.	1.5	378
4	Excitonic structure and absorption coefficient measurements of ZnO single crystal epitaxial films deposited by pulsed laser deposition. Journal of Applied Physics, 1999, 85, 7884-7887.	1.1	337
5	Zn0.9Co0.1O-based diluted magnetic semiconducting thin films. Applied Physics Letters, 2004, 84, 5255-5257.	1.5	301
6	Epitaxial growth of TiN films on (100) silicon substrates by laser physical vapor deposition. Applied Physics Letters, 1992, 61, 1290-1292.	1.5	275
7	Electrical properties of transparent and conducting Ga doped ZnO. Journal of Applied Physics, 2006, 100, 033713.	1.1	259
8	Metallic conductivity and metal-semiconductor transition in Ga-doped ZnO. Applied Physics Letters, 2006, 88, 032106.	1.5	248
9	Theoretical model for deposition of superconducting thin films using pulsed laser evaporation technique. Journal of Applied Physics, 1990, 68, 233-247.	1.1	227
10	Defects and interfaces in epitaxial ZnO/ \hat{l} ±-Al2O3 and AlN/ZnO/ \hat{l} ±-Al2O3 heterostructures. Journal of Applied Physics, 1998, 84, 2597-2601.	1.1	205
11	Refractive indices and absorption coefficients of MgxZn1â^'xO alloys. Applied Physics Letters, 2000, 76, 979-981.	1.5	191
12	Formation of thin superconducting films by the laser processing method. Applied Physics Letters, 1987, 51, 1845-1847.	1.5	189
13	Insituprocessing of epitaxial Yâ€Baâ€Cuâ€O highTcsuperconducting films on (100) SrTiO3and (100) YSâ€ZrO2substrates at 500–650 °C. Applied Physics Letters, 1989, 54, 2271-2273.	1.5	169
14	Interface structures during solidâ€phaseâ€epitaxial growth in ion implanted semiconductors and a crystallization model. Journal of Applied Physics, 1982, 53, 8607-8614.	1.1	163
15	Laser Method for Synthesis and Processing of Continuous Diamond Films on Nondiamond Substrates. Science, 1991, 252, 416-418.	6.0	161
16	Epitaxial growth in large″atticeâ€mismatch systems. Journal of Applied Physics, 1994, 75, 860-871.	1.1	146
17	Laser Annealing of Ion-Implanted Semiconductors. Science, 1979, 204, 461-468.	6.0	144
18	Epitaxial growth of AlN thin films on silicon (111) substrates by pulsed laser deposition. Journal of Applied Physics, 1995, 77, 4724-4728.	1,1	144

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19	High quality epitaxial aluminum nitride layers on sapphire by pulsed laser deposition. Applied Physics Letters, 1995, 67, 1549-1551.	1.5	141
20	Gallium-doped zinc oxide films as transparent electrodes for organic solar cell applications. Journal of Applied Physics, 2007, 102, .	1.1	140
21	Effect of Li doping in NiO thin films on its transparent and conducting properties and its application in heteroepitaxial p-n junctions. Journal of Applied Physics, 2010, 108, .	1.1	138
22	Novel phase of carbon, ferromagnetism, and conversion into diamond. Journal of Applied Physics, 2015, 118, .	1.1	133
23	Epitaxial growth and properties of MoOx(2 <x<2.75) 083539.<="" 2005,="" 97,="" applied="" films.="" journal="" of="" physics,="" td=""><td>1.1</td><td>132</td></x<2.75)>	1.1	132
24	Grain size effect on deformation twinning and detwinning. Journal of Materials Science, 2013, 48, 4467-4475.	1.7	132
25	Semiconductor-metal transition characteristics of VO2 thin films grown on c- and r-sapphire substrates. Journal of Applied Physics, 2010, 107, .	1.1	124
26	A novel method for simulating laser-solid interactions in semiconductors and layered structures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1989, 3, 217-230.	1.7	123
27	Subsurface heating effects during pulsed laser evaporation of materials. Applied Physics Letters, 1990, 57, 2022-2024.	1.5	123
28	Thinâ€film deposition by a new laser ablation and plasma hybrid technique. Applied Physics Letters, 1989, 54, 2455-2457.	1.5	121
29	Structural characteristics of AlN films deposited by pulsed laser deposition and reactive magnetron sputtering: A comparative study. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 2804-2815.	0.9	114
30	Effect of the chemical nature of transitionâ€metal substrates on chemicalâ€vapor deposition of diamond. Journal of Applied Physics, 1993, 74, 4168-4173.	1.1	105
31	Twinning partial multiplication at grain boundary in nanocrystalline fcc metals. Applied Physics Letters, 2009, 95, .	1.5	104
32	Effects of pulsed ruby″aser annealing on As and Sb implanted silicon. Journal of Applied Physics, 1979, 50, 3261-3273.	1.1	95
33	Rectifying electrical characteristics of La0.7Sr0.3MnO3/ZnO heterostructure. Applied Physics Letters, 2003, 83, 1773-1775.	1.5	91
34	Pulsed laser melting of amorphous silicon layers. Applied Physics Letters, 1984, 44, 35-37.	1.5	90
35	Enhancement of nucleation and adhesion of diamond films on copper, stainless steel, and silicon substrates. Journal of Applied Physics, 1992, 71, 966-971.	1.1	90
36	Characteristics of titanium nitride films grown by pulsed laser deposition. Journal of Materials Research, 1996, 11, 1458-1469.	1.2	90

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37	Pulsed-Laser Melting of Amorphous Silicon: Time-Resolved Measurements and Model Calculations. Physical Review Letters, 1984, 52, 561-564.	2.9	88
38	Dislocations, twins, and grain boundaries in CVD diamond thin films: Atomic structure and properties. Journal of Materials Research, 1990, 5, 2414-2423.	1.2	85
39	Superhard diamondlike carbon: preparation, theory, and properties. International Materials Reviews, 2000, 45, 133-164.	9.4	85
40	Interface instability and cell formation in ionâ€implanted and laserâ€annealed silicon. Journal of Applied Physics, 1981, 52, 1289-1293.	1.1	84
41	Strain-induced tuning of metal–insulator transition in NdNiO3. Applied Physics Letters, 2002, 80, 4039-4041.	1.5	75
42	Atomic structure of dislocations in silicon, germanium and diamond. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1990, 61, 873-891.	0.8	72
43	Semiconductor to metal transition characteristics of VO2 thin films grown epitaxially on Si (001). Applied Physics Letters, 2009, 95, .	1.5	72
44	Mechanism of combustion synthesis of silicon carbide. Journal of Applied Physics, 1994, 75, 7252-7257.	1.1	71
45	Bulk nucleation and amorphous phase formation in highly undercooled molten silicon. Applied Physics Letters, 1984, 44, 770-772.	1.5	69
46	Enhanced photoconductivity of ZnO films Co-doped with nitrogen and tellurium. Applied Physics Letters, 2005, 86, 211918.	1.5	66
47	Role of interfacial transition layers in VO2/Al2O3 heterostructures. Journal of Applied Physics, 2011, 110, .	1.1	66
48	Significant enhancement of optical absorption through nano-structuring of copper based oxide semiconductors: possible future materials for solar energy applications. Physical Chemistry Chemical Physics, 2014, 16, 11054-11066.	1.3	64
49	Mechanism for grain size softening in nanocrystalline Zn. Applied Physics Letters, 2002, 81, 2241-2243.	1.5	63
50	Lowâ€temperature processing of titanium nitride films by laser physical vapor deposition. Applied Physics Letters, 1989, 54, 1519-1521.	1.5	61
51	Discovery of High-Temperature Superconductivity ($\langle i \rangle T \langle i \rangle \langle sub \rangle c \langle sub \rangle = 55 K$) in B-Doped Q-Carbon. ACS Nano, 2017, 11, 11915-11922.	7.3	60
52	Insitusingle chamber laser processing of YBa2Cu3O7â^Î superconducting thin films on Si (100) with yttriaâ€stabilized zirconia buffer layers. Applied Physics Letters, 1990, 57, 1578-1580.	1.5	59
53	Progress in Q-carbon and related materials with extraordinary properties. Materials Research Letters, 2018, 6, 353-364.	4.1	59
54	Self-climb of dislocation loops in magnesium oxide. Philosophical Magazine and Journal, 1972, 26, 1179-1190.	1.8	58

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55	Atomic structure of dislocations and dipoles in silicon. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1987, 56, 625-639.	0.8	56
56	Strain relief mechanisms and the nature of dislocations in GaAs/Si heterostructures. Journal of Applied Physics, 1989, 66, 2376-2380.	1.1	56
57	Diamond-ceramic composite tool coatings. Journal of Materials Research, 1994, 9, 2850-2867.	1.2	55
58	Conversion of <i>p</i> to <i>n-</i> type reduced graphene oxide by laser annealing at room temperature and pressure. Journal of Applied Physics, 2017, 121, .	1.1	55
59	Control of surface particle density in pulsed laser deposition of superconducting YBa2Cu3O7and diamondlike carbon thin films. Applied Physics Letters, 1992, 61, 483-485.	1.5	53
60	Phase transformation and impurity redistribution during pulsed laser irradiation of amorphous silicon layers. Journal of Applied Physics, 1984, 56, 1821-1830.	1.1	51
61	Formation of epitaxial and textured platinum films on ceramicsâ€(100) MgO single crystals by pulsed laser deposition. Applied Physics Letters, 1994, 64, 2093-2095.	1.5	51
62	High-Temperature Superconductivity in Boron-Doped Q-Carbon. ACS Nano, 2017, 11, 5351-5357.	7.3	49
63	Microstructure and properties of YBa2Cu3O9â^δsuperconductors with transitions at 90 and near 290 K. Applied Physics Letters, 1987, 51, 940-942.	1.5	48
64	Microstructural and compositional variations in laserâ€deposited superconducting thin films. Applied Physics Letters, 1988, 53, 1013-1015.	1.5	48
65	Epitaxial growth of ZnO films on Si(111). Journal of Materials Research, 2002, 17 , 2480-2483.	1.2	48
66	Room-Temperature Ferromagnetism and Extraordinary Hall Effect in Nanostructured Q-Carbon: Implications for Potential Spintronic Devices. ACS Applied Nano Materials, 2018, 1, 807-819.	2.4	46
67	Effect of processing geometry in oxygen incorporation andinsituformation of YBa2Cu3O7superconducting thin films by pulsed laser evaporation technique. Applied Physics Letters, 1989, 55, 2351-2353.	1.5	45
68	Atomic structure and energy of grain boundaries in silicon, germanium and diamond. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1991, 63, 1181-1192.	0.6	45
69	Characteristics of stacking faults in AlN thin films. Journal of Applied Physics, 1997, 82, 4296-4299.	1.1	45
70	Research Update: Direct conversion of amorphous carbon into diamond at ambient pressures and temperatures in air. APL Materials, 2015, 3, .	2.2	45
71	Self-assembled epitaxial and polycrystalline magnetic nickel nanocrystallites. Applied Physics Letters, 2001, 79, 2817-2819.	1.5	44
72	Microstructure and electrical property correlations in Ga:ZnO transparent conducting thin films. Journal of Applied Physics, 2006, 100, 093519.	1.1	44

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73	Atomistic study of dislocation nucleation in Ge/(001)Si heterostructuses. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1995, 72, 281-295.	0.8	43
74	The Inverse Hall-Petch Effectâ€"Fact or Artifact?. Materials Research Society Symposia Proceedings, 2000, 634, 511.	0.1	43
75	Magnetic properties of self-assembled nanoscale La2/3Ca1/3MnO3 particles in an alumina matrix. Applied Physics Letters, 2001, 79, 1327-1329.	1.5	43
76	Structure-magnetic property correlations in the epitaxial FePt system. Applied Physics Letters, 2008, 92,	1.5	43
77	Properties of YBa2Cu3AgxO7â^δcomposite superconductors. Journal of Applied Physics, 1989, 66, 5935-5939.	1.1	42
78	Z-contrast imaging of dislocation cores at the GaAs/Si interface. Applied Physics Letters, 2002, 81, 2728-2730.	1.5	40
79	Copper diffusion characteristics in single-crystal and polycrystalline TaN. Applied Physics Letters, 2002, 81, 1453-1455.	1.5	40
80	Synthesis of diamond nanostructures from carbon nanotube and formation of diamond-CNT hybrid structures. Carbon, 2019, 150, 388-395.	5.4	40
81	Silicon oxidation and Si–SiO ₂ interface of thin oxides. Journal of Materials Research, 1987, 2, 216-221.	1.2	39
82	Superconducting YBa2Cu3O7â^Îthin films on Si (100) substrates with CoSi2buffer layers by aninsitupulsed laser evaporation method. Applied Physics Letters, 1991, 59, 1785-1787.	1.5	39
83	Defect dependent ferromagnetism in MgO doped with Ni and Co. Applied Physics Letters, 2008, 93, .	1.5	39
84	Observation of room temperature ferromagnetism in Ga:ZnO: A transition metal free transparent ferromagnetic conductor. Applied Physics Letters, 2008, 93, .	1.5	37
85	Growth of ceramic thin films on Si(100) using anin situlaser deposition technique. Journal of Applied Physics, 1991, 69, 8358-8362.	1.1	36
86	Mechanical properties of nanocrystalline and epitaxial TiN films on (100) silicon. Journal of Materials Research, 2001, 16, 2733-2738.	1.2	36
87	Epitaxial integration of dilute magnetic semiconductor Sr3SnO with Si (001). Applied Physics Letters, 2013, 103, .	1.5	36
88	A microstructural approach toward the effect of thickness on semiconductor-to-metal transition characteristics of VO2 epilayers. Journal of Applied Physics, 2014, 115, .	1.1	36
89	Q-carbon harder than diamond. MRS Communications, 2018, 8, 428-436.	0.8	36
90	Epitaxial growth of TaN thin films on $Si(100)$ and $Si(111)$ using a TiN buffer layer. Applied Physics Letters, 2002, 80, 2323-2325.	1.5	35

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91	Electron field emission from Q-carbon. Diamond and Related Materials, 2018, 86, 71-78.	1.8	35
92	Preparation of Pb(Zr0.54Ti0.46)O3thin films on (100)Si using textured YBa2Cu3O7â^Îand yttriaâ€stabilized zirconia buffer layers by laser physical vapor deposition technique. Applied Physics Letters, 1993, 63, 30-32.	1.5	34
93	Evidence for topological surface states in epitaxial Bi 2 Se 3 thin film grown by pulsed laser deposition through magneto-transport measurements. Current Opinion in Solid State and Materials Science, 2014, 18, 279-285.	5 . 6	34
94	Research Update: Direct conversion of h-BN into pure c-BN at ambient temperatures and pressures in air. APL Materials, $2016, 4, .$	2.2	34
95	Enhanced mechanical properties of Q-carbon nanocomposites by nanosecond pulsed laser annealing. Nanotechnology, 2018, 29, 45LT02.	1.3	34
96	Laserâ€enhanced synthesis and processing of diamond films from liquid hydrocarbons. Journal of Applied Physics, 1993, 73, 4351-4356.	1.1	33
97	Pulsed laser deposition and characterization of epitaxial Cu/TiN/Si(100) heterostructures. Applied Physics Letters, 1994, 65, 2565-2567.	1.5	33
98	The role of Ag in the pulsed laser growth of YBCO thin films. Journal of Applied Physics, 1999, 85, 6636-6641.	1.1	33
99	Inâ€situpatterned laser deposition of highâ€TcYâ€Baâ€Cuâ€O superconducting thin films. Journal of Applied Physics, 1990, 67, 3448-3451.	1.1	32
100	Synthesis and atomic-level characterization of Ni nanoparticles in Al2O3 matrix. Applied Physics Letters, 2002, 81, 4204-4206.	1.5	32
101	Effect of microstructure on diffusion of copper in TiN films. Journal of Applied Physics, 2003, 93, 5210-5214.	1.1	32
102	Large-area diamond thin film on Q-carbon coated crystalline sapphire by HFCVD. Journal of Crystal Growth, 2018, 504, 17-25.	0.7	32
103	Electron mobility modulation in graphene oxide by controlling carbon melt lifetime. Carbon, 2020, 170, 327-337.	5.4	32
104	Electrostatic measurement of plasma plume characteristics in pulsed laser evaporated carbon. Journal of Applied Physics, 1999, 86, 2865-2871.	1.1	31
105	Ultrafast switching in wetting properties of TiO2/YSZ/Si(001) epitaxial heterostructures induced by laser irradiation. Journal of Applied Physics, 2013, 113, 063706.	1.1	31
106	Macroscopic Twinning Strain in Nanocrystalline Cu. Materials Research Letters, 2014, 2, 63-69.	4.1	31
107	Direct conversion of h-BN into c-BN and formation of epitaxial c-BN/diamond heterostructures. Journal of Applied Physics, 2016, 119, .	1.1	31
108	Direct conversion of carbon nanofibers and nanotubes into diamond nanofibers and the subsequent growth of large-sized diamonds. Nanoscale, 2019, 11, 2238-2248.	2.8	31

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109	Synthesis of superconducting YBa2Cu3O7â^Îthin films on nickelâ€based superalloy usinginsitupulsed laser deposition. Applied Physics Letters, 1990, 57, 2594-2596.	1.5	30
110	Integration of Pb(Zr0.52Ti0.48)O3 epilayers with Si by domain epitaxy. Applied Physics Letters, 2000, 76, 1458-1460.	1.5	30
111	Deformation twin formed by self-thickening, cross-slip mechanism in nanocrystalline Ni. Applied Physics Letters, 2008, 93, .	1.5	30
112	Tunable charge states of nitrogen-vacancy centers in diamond for ultrafast quantum devices. Carbon, 2019, 142, 662-672.	5.4	30
113	Optical properties of amorphous silicon and silicon dioxide. Journal of Applied Physics, 1986, 60, 1139-1146.	1.1	29
114	Superconducting thin films of Yâ€Baâ€Cuâ€O prepared by metalorganic chemical vapor deposition. Journal of Applied Physics, 1990, 67, 1562-1565.	1.1	29
115	Low resistivity copper germanide on (100) Si for contacts and interconnections. Applied Physics Letters, 1996, 69, 3560-3562.	1.5	29
116	Domain epitaxy in TiO2/ \hat{l} ±-Al2O3 thin film heterostructures with Ti2O3 transient layer. Applied Physics Letters, 2012, 100, .	1.5	29
117	Enhanced photocatalytic efficiency in zirconia buffered <i>n</i> -NiO/ <i>p</i> -NiO single crystalline heterostructures by nanosecond laser treatment. Journal of Applied Physics, 2013, 113, .	1.1	29
118	Undercooling driven growth of Q-carbon, diamond, and graphite. MRS Communications, 2018, 8, 533-540.	0.8	29
119	Nature of epitaxial growth of highâ€Tclaserâ€deposited Yâ€Baâ€Cuâ€O films on (100) strontium titanate substrates. Journal of Applied Physics, 1990, 67, 3785-3790.	1.1	28
120	Laser patterning of diamond films. Journal of Applied Physics, 1992, 71, 3795-3801.	1.1	28
121	Oxygen vacancy enhanced room-temperature ferromagnetism in Sr3SnO/c-YSZ/Si (001) heterostructures. MRS Communications, 2014, 4, 7-13.	0.8	28
122	Electrical Transition in Isostructural VO2 Thin-Film Heterostructures. Scientific Reports, 2019, 9, 3009.	1.6	28
123	Structural Evolution of Q-Carbon and Nanodiamonds. Jom, 2018, 70, 450-455.	0.9	27
124	Vacancy-Driven Robust Metallicity of Structurally Pinned Monoclinic Epitaxial VO ₂ Thin Films. ACS Applied Materials & Driverfaces, 2019, 11, 3547-3554.	4.0	27
125	Nature of interfaces and oxidation processes in Ge+â€implanted Si. Journal of Applied Physics, 1989, 65, 4028-4032.	1.1	26
126	Atomic structure, electrical properties, and infrared range optical properties of diamondlike carbon films containing foreign atoms prepared by pulsed laser deposition. Journal of Materials Research, 2000, 15, 633-641.	1,2	26

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127	Quantum confinement of E1 and E2 transitions in Ge quantum dots embedded in an Al2O3 or an AlN matrix. Applied Physics Letters, 2000, 76, 43-45.	1.5	26
128	Misfit dislocations in low-temperature grown Ge/Si heterostructures. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1995, 71, 537-551.	0.8	25
129	Insituprocessing of textured superconducting thin film of Bi(â€Pb)â€Caâ€Srâ€Cuâ€O by excimer laser ablation. Applied Physics Letters, 1990, 56, 2034-2036.	1.5	24
130	Nucleation and growth of diamond films on aluminum nitride coated nickel. Applied Physics Letters, 1995, 67, 1322-1324.	1.5	24
131	Epitaxial GaN on Si(111): Process control of SiNx interlayer formation. Applied Physics Letters, 2004, 85, 133-135.	1.5	24
132	Singleâ€chamber,insituprocessing of superconducting YBa2Cu3O7â^Îthin films on stainless steel with yttriaâ€stabilized zirconia buffer layer. Journal of Applied Physics, 1991, 69, 2410-2413.	1.1	23
133	Pulsed laser deposition of epitaxial Si/TiN/Si(100) heterostructures. Applied Physics Letters, 1994, 64, 1236-1238.	1.5	23
134	Room-temperature ferromagnetism in epitaxial titanium nitride thin films. Acta Materialia, 2019, 166, 221-230.	3.8	23
135	Nonequilibrium Structural Evolution of Q-Carbon and Interfaces. ACS Applied Materials & Samp; Interfaces, 2020, 12, 1330-1338.	4.0	23
136	Nucleation and growth of diamond on FeSi2/Si substrates by hot filament chemical vapor deposition. Journal of Applied Physics, 1992, 71, 4944-4948.	1.1	22
137	Role of twin boundaries in semiconductor to metal transition characteristics of VO2 films. Applied Physics Letters, 2010, 97, .	1.5	22
138	Alloying effect on grain-size dependent deformation twinning in nanocrystalline Cu–Zn alloys. Philosophical Magazine, 2015, 95, 301-310.	0.7	22
139	Q-carbon discovery and formation of single-crystal diamond nano- and microneedles and thin films. Materials Research Letters, 2016, 4, 118-126.	4.1	22
140	A novel high-temperature carbon-based superconductor: B-doped Q-carbon. Journal of Applied Physics, 2017, 122, .	1.1	22
141	Novel synthesis and properties of pure and NV-doped nanodiamonds and other nanostructures. Materials Research Letters, 2017, 5, 242-250.	4.1	22
142	The elastic field associated with a square dislocation loop in a twoâ€phase medium. Journal of Applied Physics, 1987, 62, 1698-1703.	1.1	21
143	Size and Interface Control of Novel Nanocrystalline Materials Using Pulsed Laser Deposition. Journal of Nanoparticle Research, 2000, 2, 91-96.	0.8	21
144	Laser-ablated plasma for deposition of ZnO thin films on various substrates. Science and Technology of Advanced Materials, 2001, 2, 517-523.	2.8	21

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145	Wafer scale integration of reduced graphene oxide by novel laser processing at room temperature in air. Journal of Applied Physics, 2016 , 120 , .	1.1	21
146	Synthesis of multifunctional microdiamonds on stainless steel substrates by chemical vapor deposition. Carbon, 2021, 171, 739-749.	5.4	21
147	Epitaxial VO2/Cr2O3/sapphire heterostructure for multifunctional applications. Applied Physics Letters, 2011, 98, .	1.5	20
148	Scale-up of Q‑carbon and nanodiamonds by pulsed laser annealing. Diamond and Related Materials, 2019, 99, 107531.	1.8	20
149	Effect of free surface and interface on thermal annealing of dislocation loops in silicon. Journal of Applied Physics, 1987, 62, 1694-1697.	1.1	19
150	Synthesis of diamond films on Hastelloy. Journal of Materials Research, 1992, 7, 2785-2790.	1.2	19
151	Enhancement in critical current density of Y1Ba2Cu3O7â^Îthin films on hastelloy with TiN buffer layers. Applied Physics Letters, 1992, 61, 976-978.	1.5	19
152	Laser processing of BN and AIN films. Journal of Electronic Materials, 1996, 25, 143-149.	1.0	19
153	Room temperature ferromagnetism in epitaxial Cr2O3 thin films grown on r-sapphire. Journal of Applied Physics, 2015, 117, 193907.	1.1	19
154	Stability of electron field emission in Q-carbon. MRS Communications, 2018, 8, 1343-1351.	0.8	19
155	Diamond film growth by HFCVD on Q-carbon seeded substrate. Carbon, 2019, 141, 182-189.	5.4	19
156	Role of Q-carbon in nucleation and formation of continuous diamond film. Carbon, 2021, 176, 558-568.	5.4	19
157	Optical properties of silicon related insulators. Journal of Applied Physics, 1987, 61, 2017-2021.	1.1	18
158	Characterization of the interface between Ge+â€implanted crystalline silicon and its thermally grown oxide by spectroscopic ellipsometry. Journal of Applied Physics, 1990, 67, 599-603.	1.1	18
159	Reduced Graphene Oxide/Amorphous Carbon P–N Junctions: Nanosecond Laser Patterning. ACS Applied Materials & Samp; Interfaces, 2019, 11, 24318-24330.	4.0	18
160	Laser surface modification of metal-coated ceramics. Journal of Materials Research, 1988, 3, 1119-1126.	1.2	17
161	Origin of room-temperature ferromagnetism in cobalt-doped ZnO. Journal of Electronic Materials, 2004, 33, 1298-1302.	1.0	17
162	High temperature superconductivity in distinct phases of amorphous B-doped Q-carbon. Journal of Applied Physics, 2018, 123, .	1.1	17

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163	Fabrication of ultrahard Q-carbon nanocoatings on AISI 304 and 316 stainless steels and subsequent formation of high-quality diamond films. Diamond and Related Materials, 2020, 104, 107742.	1.8	17
164	Structural evolution of laser-irradiated ultrananocrystalline diamond/amorphous carbon composite films prepared by coaxial arc plasma. Applied Physics Express, 2020, 13, 105503.	1.1	17
165	Modelling of microstructural features in Y-Ba-Cu-O superconductors. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1989, 59, 917-937.	0.8	16
166	Role ofinsiturapid isothermal processing in the solid phase epitaxial growth of IIâ€A fluoride films on (100) and (111) InP. Applied Physics Letters, 1990, 56, 247-249.	1.5	16
167	Aluminum nitride buffer layer for diamond film growth. Journal of Materials Research, 1996, 11, 1810-1818.	1.2	16
168	Growth of single crystal MgO on TiN/Si heterostructure by pulsed laser deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 3393-3396.	0.9	16
169	Ohmic contact to p-type GaAs using Cu3Ge. Applied Physics Letters, 1999, 75, 3953-3955.	1.5	16
170	Effect of chamber pressure and atmosphere on the microstructure and nanomechanical properties of amorphous carbon films prepared by pulsed laser deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 311-316.	0.9	16
171	Grain size effect on twin density in as-deposited nanocrystalline Cu film. Philosophical Magazine, 2013, 93, 4355-4363.	0.7	16
172	Electrical and microstructural characteristics of Ge/Cu ohmic contacts to <i>n</i> -type GaAs. Journal of Materials Research, 1997, 12, 2325-2331.	1.2	15
173	Structural and magnetoresistance properties of La2/3Ca1/3MnO3 thin films on buffered silicon substrates. Applied Physics Letters, 2001, 78, 1098-1100.	1.5	15
174	Growth of biepitaxial zinc oxide thin films on silicon (100) using yttria-stabilized zirconia buffer layer. Applied Physics Letters, 2008, 93, 251905.	1.5	15
175	Non-equilibrium processing of ferromagnetic heavily reduced graphene oxide. Carbon, 2019, 153, 663-673.	5.4	15
176	Nucleation of a $60 \hat{A}^{\circ}$ glide dislocation in two-dimensional or three-dimensional growth of epilayers. Journal of Electronic Materials, 1991, 20, 767-774.	1.0	14
177	Fabrication of Ni–Al thin films by the pulsed laser deposition technique. Journal of Materials Research, 1992, 7, 2639-2642.	1.2	14
178	Growth, characterization, and electrical properties of PbZr _{0.52} Ti _{0.48} O ₃ thin films on buffered silicon substrates using pulsed laser deposition. Journal of Materials Research, 2003, 18, 111-114.	1.2	14
179	Novel Methods of Forming Self-Assembled Nanostructured Materials: Ni Nanodots in Al ₂ O ₃ and TiN Matrices. Journal of Nanoscience and Nanotechnology, 2004, 4, 726-732.	0.9	14
180	Atomic structure of misfit dislocations in nonpolar ZnO/Al2O3 heterostructures. Applied Physics Letters, 2010, 97, 121914.	1.5	14

#	Article	IF	CITATIONS
181	Reduced thermal budget processing of Yâ€Baâ€Cuâ€O films by rapid isothermal processing assisted metalorganic chemical vapor deposition. Journal of Applied Physics, 1991, 69, 2418-2422.	1.1	13
182	Microstructure and chemistry of Cu-Ge ohmic contact layers to GaAs. Journal of Electronic Materials, 1996, 25, 1673-1683.	1.0	13
183	Growth and characteristics of TaN/TiN superlattice structures. Applied Physics Letters, 2003, 83, 3072-3074.	1.5	13
184	Epitaxial growth and magnetic properties of La0.7Sr0.3MnO3 films on (0001) sapphire. Applied Physics Letters, 2007, 90, 101903.	1.5	13
185	Metallic nickel colloids in plastically deformed nickel-doped MgO crystals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1987, 55, 807-814.	0.8	12
186	Synthesis of epitaxial Pt on (100)Si using TiN buffer layer by pulsed laser deposition. Applied Physics Letters, 1994, 65, 2693-2695.	1.5	12
187	Negative surface energy change associated with step formation caused by misfit dislocation nucleation in semiconductor heterostructures. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1995, 72, 297-304.	0.8	12
188	Cu3Ge ohmic contacts to n-type GaAs. Journal of Electronic Materials, 1996, 25, 1662-1672.	1.0	12
189	Comparative study of pulsed laser ablated plasma plumes from single crystal graphite and amorphous carbon targets. Part II. Electrostatic probe measurements. Journal of Applied Physics, 2000, 88, 6868-6874.	1.1	12
190	Microstructure and electrical resistivity of Cu and Cu3Ge thin films on Si1â^'xGex alloy layers. Journal of Applied Physics, 2000, 87, 365-368.	1.1	12
191	Growth of epitaxial NdNiO3 and integration with Si(100). Applied Physics Letters, 2002, 80, 1337-1339.	1.5	12
192	Structure and Properties of Nanocrystalline Zinc Films. Journal of Nanoparticle Research, 2002, 4, 265-269.	0.8	12
193	Tunable electronic structure in dilute magnetic semiconductor Sr3SnO/c-YSZ/Si (001) epitaxial heterostructures. Journal of Applied Physics, 2014, 116, 164903.	1.1	12
194	Microstructure and transport properties of epitaxial topological insulator Bi2Se3 thin films grown on MgO (100), Cr2O3 (0001), and Al2O3 (0001) templates. Journal of Applied Physics, 2015, 118, .	1.1	12
195	Pseudo-topotactic growth of diamond nanofibers. Acta Materialia, 2019, 178, 179-185.	3.8	12
196	Laser-induced structure transition of diamond-like carbon coated on cemented carbide and formation of reduced graphene oxide. MRS Communications, 2019, 9, 910-915.	0.8	12
197	Advances in laser-assisted conversion of polymeric and graphitic carbon into nanodiamond films. Nanotechnology, 2021, 32, .	1.3	12
198	Q-carbon as a new radiation-resistant material. Carbon, 2022, 186, 253-261.	5 . 4	12

#	Article	IF	CITATIONS
199	Orientation dependence of twinning characteristics in Yâ€Baâ€Cuâ€O superconducting thin films. Journal of Applied Physics, 1989, 65, 2398-2401.	1.1	11
200	Reduced thermal budget processing of Y–Ba–Cu–O high temperature superconducting thin films by metalorganic chemical vapor deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 401-404.	0.9	10
201	Interfacial processing and adhesion of diamond, diamond-like, and TiN films on metallic and polymeric substrates. Journal of Adhesion Science and Technology, 1995, 9, 753-767.	1.4	10
202	Interaction of Cu and Cu3Ge thin films with Si1â^'xGex alloys. Applied Physics Letters, 1999, 75, 1739-1741.	1.5	10
203	Improved magnetic properties of self-assembled epitaxial nickel nanocrystallites in thin-film ceramic matrix. Journal of Materials Research, 2002, 17, 738-742.	1.2	10
204	TaN-TiN binary alloys and superlattices as diffusion barriers for copper interconnects. Journal of Electronic Materials, 2003, 32, 994-999.	1.0	10
205	Electrochromic effect in Q-carbon. Applied Physics Letters, 2018, 112, .	1.5	10
206	Formation of Q-carbon and diamond coatings on WC and steel substrates. Diamond and Related Materials, 2019, 98, 107515.	1.8	10
207	Emergence of shallow energy levels in B-doped Q-carbon: A high-temperature superconductor. Acta Materialia, 2019, 174, 153-159.	3.8	10
208	Tunable n-Type Conductivity and Transport Properties of Cubic Boron Nitride via Carbon Doping. ACS Applied Electronic Materials, 2021, 3, 1359-1367.	2.0	10
209	Planar stress relaxation in solid phase epitaxial CaF2films grown on (111)Si byinsiturapid isothermal processing. Applied Physics Letters, 1990, 56, 1567-1569.	1.5	9
210	Insitufabrication of epitaxial YBa2Cu3O7films on latticeâ€mismatched (100) YSâ€ZrO2substrates by the pulsed laser evaporation method. Journal of Applied Physics, 1990, 67, 3452-3455.	1.1	9
211	New mechanism of formation of stacking faults in Gd(001)Si heterostructures. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1995, 72, 305-314.	0.8	9
212	A new design of tungsten carbide tools with diamond coatings. Journal of Materials Research, 1996, 11, 2220-2230.	1.2	9
213	Role of substrate crystallographic characteristics on structure and properties of rutile TiO2 epilayers. Journal of Applied Physics, 2013, 114, 044314.	1.1	9
214	Formation and characterization of nano- and microstructures of twinned cubic boron nitride. Physical Chemistry Chemical Physics, 2019, 21, 1700-1710.	1.3	9
215	Search for near room-temperature superconductivity in B-doped Q-carbon. Materials Research Letters, 2019, 7, 164-172.	4.1	9
216	Evidence of weak antilocalization in epitaxial TiN thin films. Journal of Magnetism and Magnetic Materials, 2020, 498, 166094.	1.0	9

#	Article	IF	CITATIONS
217	Conversion of h-BN into c-BN for tuning optoelectronic properties. Materials Advances, 2020, 1, 830-836.	2.6	9
218	Formation of self-organized nano- and micro-diamond rings. Materials Research Letters, 2021, 9, 300-307.	4.1	9
219	Nature of unseeded crystallization in semiconductors. Materials Letters, 1984, 2, 219-222.	1.3	8
220	Variation of TcOin the 110 K superconductor Bi1.5Pb0.5Ca2Sr2Cu3Ox. Applied Physics Letters, 1989, 55, 1460-1462.	1.5	8
221	Dislocation density reduction in GaAs epilayers on Si using strained layer superlattices. Journal of Electronic Materials, 1991, 20, 779-784.	1.0	8
222	Effect of processing geometry on YBa2Cu3O7â^'xplasma emission during superconducting thin film growth by pulsed laser evaporation technique. Journal of Applied Physics, 1993, 73, 316-319.	1.1	8
223	Growth Of ZnO/MgZnO Superlattice On Sapphire. Materials Research Society Symposia Proceedings, 2000, 617, 671.	0.1	8
224	Transmission electron microscopy observations on the microstructure of naturally aged Al–Mg–Si alloy AA6022 processed with an electric field. Journal of Materials Science, 2006, 41, 7555-7561.	1.7	8
225	Structural, Magnetic, and Electron Transport Studies on Nanocrystalline Layered Manganite La1.2Ba1.8Mn2O7 System. Journal of Nanoscience and Nanotechnology, 2007, 7, 965-969.	0.9	8
226	The synthesis and magnetic properties of a nanostructured Ni-MgO system. Jom, 2009, 61, 76-81.	0.9	8
227	Nano-to-micro diamond formation by nanosecond pulsed laser annealing. Journal of Applied Physics, 2019, 126, 125307.	1.1	8
228	The Effect of High Temperature Soaking on the Microstructure and Properties of a Sintered Silicon Nitride. Ceramic Engineering and Science Proceedings, 0, , 3-10.	0.1	8
229	Self-organization of amorphous Q-carbon and Q-BN nanoballs. Carbon, 2022, 192, 301-307.	5.4	8
230	Formation of Q-carbon with wafer scale integration. Carbon, 2022, 196, 972-978.	5.4	8
231	Fourier transform Raman spectra of diamond-like carbon films. Journal of Raman Spectroscopy, 1992, 23, 625-628.	1.2	7
232	LaNiO3 and Cu3Ge contacts to YBa2Cu3O7-x films. Journal of Electronic Materials, 1996, 25, 1760-1766.	1.0	7
233	Characterization of highly oriented (110) TiN films grown on epitaxial Ge/Si(001) heterostructures. Journal of Materials Research, 1996, 11 , $399-411$.	1.2	7
234	MoOx modified ZnGaO based transparent conducting oxides. Journal of Applied Physics, 2009, 105, 053704.	1.1	7

#	Article	IF	Citations
235	Strain induced room temperature ferromagnetism in epitaxial magnesium oxide thin films. Journal of Applied Physics, 2015, 118, 165309.	1.1	7
236	Epitaxial integration of TiO2 with Si(100) through a novel approach of oxidation of TiN/Si(100) epitaxial heterostructure. MRS Advances, 2016, 1, 2629-2634.	0.5	7
237	Synthesis and Characterization of Quenched and Crystalline Phases: Q-Carbon, Q-BN, Diamond and Phase-Pure c-BN. Jom, 2018, 70, 456-463.	0.9	7
238	Direct conversion of Teflon into nanodiamond films. Materials Research Letters, 2020, 8, 408-416.	4.1	7
239	Atomistic study of partial misfit dislocations in Ge/Si(001) heterostructures. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 73, 767-778.	0.8	6
240	Magnetic relaxation and three-dimensional critical fluctuations in B-doped Q-carbon – a high-temperature superconductor. Nanoscale, 2018, 10, 12665-12673.	2.8	6
241	Stress Distribution and Critical Thicknesses of Thin Epitaxial Films. Materials Research Society Symposia Proceedings, 1987, 91, 311.	0.1	5
242	Solid phase epitaxial growth of II-a fluorides on semiconductors by in-situ rapid isothermal processing. Journal of Electronic Materials, 1990, 19, 481-485.	1.0	5
243	Residual Stresses in Single and Multilayer Composite Diamond Coatings. Materials Research Society Symposia Proceedings, 1996, 458, 459.	0.1	5
244	Optical and Structural Characteristics Of Gold Nanocrystallites Embedded in a Dielectric Matrix. Materials Research Society Symposia Proceedings, 2000, 617, 271.	0.1	5
245	WEAK-LOCALIZATION EFFECT IN SINGLE CRYSTAL TaN(001) FILMS. Modern Physics Letters B, 2002, 16, 1143-1149.	1.0	5
246	Structureâ€"property correlations in phase-pure B-doped Q-carbon high-temperature superconductor with a record <i>T</i> _c = 55 K. Nanoscale, 2019, 11, 9141-9154.	2.8	5
247	Reduced Graphene Oxide-Nanostructured Silicon Photosensors with High Photoresponsivity at Room Temperature. ACS Applied Nano Materials, 2019, 2, 2086-2098.	2.4	5
248	Nanometer-Thick Hexagonal Boron Nitride Films for 2D Field-Effect Transistors. ACS Applied Nano Materials, 2020, 3, 7930-7941.	2.4	5
249	Modification of dopant profiles due to surface and interface interactions: Applications to semiconductor materials. Journal of Applied Physics, 1987, 61, 985-992.	1.1	4
250	Electrical, Optical and Structural Properties of Thin SiO2 Films On Si. Materials Research Society Symposia Proceedings, 1987, 105, 169.	0.1	4
251	Strain Relief Mechanisms and Nature of Misfit Dislocations in GaAs/Si Heterostructures. Materials Research Society Symposia Proceedings, 1988, 130, 153.	0.1	4
252	Low Temperature Laser Physical Vapor Deposition of Multilayered Thin Films. Materials Research Society Symposia Proceedings, 1989, 158, 477.	0.1	4

#	Article	IF	CITATIONS
253	Laser Assisted Techniques for Diamond and Diamondlike Thin Films. Materials Research Society Symposia Proceedings, 1989, 162, 185.	0.1	4
254	Comparative Study of Typical Defects in III-Nitride Thin Films and Their Alloys. Materials Research Society Symposia Proceedings, 1997, 482, 469.	0.1	4
255	Dislocation structure of low-angle grain boundaries in YBa ₂ Cu ₃ O _{7â^`Î'} /MgO films. Journal of Materials Research, 1999, 14, 2764-2772.	1.2	4
256	Novel Nanocrystalline Materials by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2000, 617, 1.	0.1	4
257	Colossal magnetoresistive and ferroelectric thin films deposited by excimer laser induced plasma. Science and Technology of Advanced Materials, 2001, 2, 525-531.	2.8	4
258	TaN-TiN binary alloys and superlattices as diffusion barriers for copper interconnections. Journal of Electronic Materials, 2004, 33, L5-L5.	1.0	4
259	Epitaxial ZnO/Pt layered structures and ZnO-Pt nanodot composites on sapphire (0001). Journal of Electronic Materials, 2006, 35, 840-845.	1.0	4
260	Anisotropic magnetic properties in [110] oriented epitaxial La0.7Sr0.3MnO3 films on (0001) sapphire. Journal of Applied Physics, 2007, 102, 013527.	1.1	4
261	Nanostructured GaN Nucleation Layer for Light-Emitting Diodes. Journal of Nanoscience and Nanotechnology, 2007, 7, 2719-2725.	0.9	4
262	Ferromagnetic oxide heterostructures on silicon. MRS Communications, 2016, 6, 234-240.	0.8	4
263	Direct conversion of carbon nanofibers into diamond nanofibers using nanosecond pulsed laser annealing. Physical Chemistry Chemical Physics, 2019, 21, 7208-7219.	1.3	4
264	Selective Liquid-Phase Regrowth of Reduced Graphene Oxide, Nanodiamond, and Nanoscale Q-Carbon by Pulsed Laser Annealing for Radiofrequency Devices. ACS Applied Nano Materials, 2020, 3, 5178-5188.	2.4	4
265	Discovery of double helix of screw dislocations: a perspective. Materials Research Letters, 2021, 9, 453-457.	4.1	4
266	Stress Distribution and Critical Thickness of Thin Epitaxial Films. Materials Research Society Symposia Proceedings, 1987, 102, 31.	0.1	3
267	Low Temperature Deposition of Hard, Amorphous Diamondlike Films by Laser Evaporation. Materials Research Society Symposia Proceedings, 1988, 129, 219.	0.1	3
268	Pulsed Laser Deposition of High T _c Superconducting Thin Films: Deposition Physics and in-Situ Processing. Materials Research Society Symposia Proceedings, 1989, 169, 423.	0.1	3
269	Laser-Target Interactions and its Effect on Surface Morphology of Laser Deposited thin films. Materials Research Society Symposia Proceedings, 1990, 201, 427.	0.1	3
270	Structural properties of (100) BaF2on (100) InP grown byinsiturapid isothermal processing. Journal of Applied Physics, 1990, 67, 6411-6414.	1.1	3

#	Article	IF	CITATIONS
271	Epitaxial Growth of TiN Films on (100) Silicon Substrates by Laser Physical Vapor Deposition. Materials Research Society Symposia Proceedings, 1992, 285, 349.	0.1	3
272	Modeling of Thermal Stresses in Composite Diamond Coatings and Mechanisms of Improvement of Adhesion. Materials Research Society Symposia Proceedings, 1994, 356, 847.	0.1	3
273	Multilayer Composite Diamond Heat Spreaders for Electronic Packaging. Materials Research Society Symposia Proceedings, 1996, 445, 51.	0.1	3
274	Investigation of Cu-Ge/Gaas Metal-Semiconductor Interfaces for Low Resistance Ohmic Contacts. Materials Research Society Symposia Proceedings, 1996, 448, 383.	0.1	3
275	Comparison of microstructural features of diamond composite coatings with polycrystalline diamond or boron nitride brazed on tungsten carbide tools. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 2262-2275.	0.9	3
276	Doping Induced Internal Stress Reduction in Diamondlike Carbon Films Deposited by Pulsed Laser Ablation. Materials Research Society Symposia Proceedings, 1997, 498, 61.	0.1	3
277	Growth of epitaxial ZnO films on Si(111). Materials Research Society Symposia Proceedings, 2002, 722, 1071.	0.1	3
278	Effect of UV/VUV Enhanced RTP on Process Variation and Device Performance of Metal Gate/High- <tex>\$kappa\$</tex> Gate Stacks for the Sub-90-nm CMOS Regime. IEEE Transactions on Semiconductor Manufacturing, 2005, 18, 55-62.	1.4	3
279	Intrinsic Room-Temperature Ferromagnetic Properties of Ni-Doped ZnO Thin Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3250-3254.	1.1	3
280	Ion Beam, Rapid Thermal, and Laser Mixing Phenomena in Insulators. Materials Research Society Symposia Proceedings, 1985, 60, 313.	0.1	2
281	Laser Chemical Vapor Deposition Of Tin Films. Materials Research Society Symposia Proceedings, 1989, 168, 287.	0.1	2
282	Role of Silver in Yba2Cu3AgXO7-δComposite Superconductors. Materials Research Society Symposia Proceedings, 1989, 169, 1267.	0.1	2
283	Superconducting and Semiconducting Thin films of La123 and 123 and their Superlattices. Materials Research Society Symposia Proceedings, 1989, 169, 561.	0.1	2
284	Inâ€Situ Patterning and Critical Current Density Measurements in Laser Deposited Highâ€Tc Superconducting Thin Films. Materials Research Society Symposia Proceedings, 1989, 169, 887.	0.1	2
285	Growth and Properties of Ceramic thin Films Processed by In-Situ Laser Deposition Technique. Materials Research Society Symposia Proceedings, 1990, 201, 189.	0.1	2
286	Ion beam analysis of laser-deposited high Tc YBa2Cu3O7 superconducting thin films. Journal of Materials Research, 1990, 5, 1793-1798.	1.2	2
287	In-Situ Laser Processing and Microstructural Characteristics of YBa2Cu3O7â [*] Î [*] Thin Films on Si with TiN Buffer Layer. Materials Research Society Symposia Proceedings, 1992, 285, 311.	0.1	2
288	Laser Processing, Characterization, and Modeling of Epitaxial Si/TiN/Si (100) Heterostructures. Materials Research Society Symposia Proceedings, 1992, 285, 501.	0.1	2

#	Article	IF	Citations
289	Structure and properties of grain boundaries in high-Tc superconductors. AIP Conference Proceedings, 1992, , .	0.3	2
290	Evaluation of physical and electrical properties of CoSi2 thin films on (100)Si grown by pulsed laser deposition. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1993, 68, 413-420.	0.6	2
291	Raman Spectroscopy of Tin Films Deposited on Silicon (001) Substrate by Laser Physical Vapor Deposition. Materials Research Society Symposia Proceedings, 1993, 317, 193.	0.1	2
292	Improvement of Adhesion of Diamond Coatings to WC(CO) Tool Substrates. Materials Research Society Symposia Proceedings, 1994, 363, 163.	0.1	2
293	The Microstructural Study of Aluminum Nitride Thin Films: Epitaxy on the Two Orientations of Sapphire and Texturing on Si. Materials Research Society Symposia Proceedings, 1995, 395, 387.	0.1	2
294	Giant Magnetoresistance Phenomenon in Laser Ablated La _{0.6} y _{0.07} ca _{0.33} mno _x Thin Films. Materials Research Society Symposia Proceedings, 1995, 397, 241.	0.1	2
295	Formation of Interfacial Dislocations in Hetero-Epitaxial Layers Grown in Two-Dimensional Mode. Materials Research Society Symposia Proceedings, 1995, 399, 443.	0.1	2
296	Bonding Silicon Devices on Diamond Heat Spreaders. Materials Research Society Symposia Proceedings, 1995, 416, 211.	0.1	2
297	Synthesis of Highly Dense \hat{l}^2 -SiC Pellet by Self Propagating High Temperature Synthesis. Materials and Manufacturing Processes, 1995, 10, 559-563.	2.7	2
298	Microstructure And Wear Resistance Of Doped Diamondlike Carbon Prepared By Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1997, 505, 331.	0.1	2
299	Properties of Cu3Ge Films for Contacts to Si and SiGe and Cu Metallization. Materials Research Society Symposia Proceedings, 1998, 514, 269.	0.1	2
300	Tem Characterization of ZnO and AIN/ZnO Thin Films Grown on Sapphire. Materials Research Society Symposia Proceedings, 1998, 526, 311.	0.1	2
301	Quantum Confinement of Above-Band-Gap Transitions in Ge Quantum Dots. Materials Research Society Symposia Proceedings, 1999, 588, 263.	0.1	2
302	Electrostatic Measurement of Plasma Plume Characteristics in Pulse Laser Ablated Carbon. Materials Research Society Symposia Proceedings, 1999, 593, 261.	0.1	2
303	Preparation Of Superhard Functionally Graded Tetrahedral Amorphous Carbon Coatings By Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2000, 617, 771.	0.1	2
304	Novel Tungsten Carbide Nanocrystalline Composites by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2000, 634, 611.	0.1	2
305	Epitaxial Growth of Magnetic Nickel Nanodots by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2002, 755, 1.	0.1	2
306	Discovery of Q-BN and Direct Conversion of h-BN into c-BN and Formation of Epitaxial c-BN/Diamond Heterostructures. MRS Advances, 2016, 1, 2573-2584.	0.5	2

#	Article	IF	Citations
307	Effect of Free Surfaces and Interfaces on Dopant Distribution Profiles. Materials Research Society Symposia Proceedings, 1987, 91, 81.	0.1	1
308	Atomic Structure of a 60° Dislocation in Bulk Silicon and Germanium, and at Ge/Si Interface Materials Research Society Symposia Proceedings, 1988, 141, 317.	0.1	1
309	Pulsed Laser Mixing of Metal Overlayers on Ceramics. Materials Research Society Symposia Proceedings, 1988, 100, 653.	0.1	1
310	Critical Thickness for Three-Dimensional Epitaxial Island Growth. Materials Research Society Symposia Proceedings, 1988, 130, 191.	0.1	1
311	Dislocation Density Reduction in GaAs Epilayers on Si Using Strained Layer Superlattices. Materials Research Society Symposia Proceedings, 1989, 160, 375.	0.1	1
312	In-Situ Pulsed Laser Deposition of High-T _C Yba ₂ Cu ₃ O ₇ Superconducting Thin Films on (100) LaAlO3 Substrates. Materials Research Society Symposia Proceedings, 1989, 169, 451.	0.1	1
313	Correlation of Raman Spectra and Bonding in DLC Films Deposited by Laser Ablation and Laser-Plasma Ablation Techniques. Materials Research Society Symposia Proceedings, 1991, 250, 367.	0.1	1
314	Epitaxial Growth of TiN on GaAs(100) by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1992, 285, 343.	0.1	1
315	Preparation of Pb(Zr0.54Ti0.46)O3 Thin Films on (100)Si Using Textured YBa2Cu3O7â^Î and Yttria-Stabilized Zirconia Buffer Layers by Laser Physical Vapor Deposition Technique. Materials Research Society Symposia Proceedings, 1992, 285, 397.	0.1	1
316	Microstructure and Properties of CoSi2 Thin Films on (100) Silicon by Laser Physical Vapor Deposition. Materials Research Society Symposia Proceedings, 1992, 285, 533.	0.1	1
317	Textured Pb(Zr0.54Ti0.46)O3 Thin Films with YBa2Cu3O7-δ and Yttria-Stabilized Zirconia Buffer Layers on (001)Si. Materials Research Society Symposia Proceedings, 1993, 310, 215.	0.1	1
318	Epitaxial Growth of Titanium Nitride Films On (100) Silicon Three-Dimensional Heterostructures: Processing and Characterization. Materials Research Society Symposia Proceedings, 1993, 317, 199.	0.1	1
319	Epitaxial Growth of Aluminum Nitride on Sapphire and Silicon. Materials Research Society Symposia Proceedings, 1994, 358, 1023.	0.1	1
320	Epitaxial Growth of AlN Thin Films on Silicon and Sapphire by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1995, 395, 325.	0.1	1
321	Epitaxial Tin Films on Sapphire and Silicon-on-Sapphire by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1995, 397, 271.	0.1	1
322	Silicon Nitride Tools Coated With Tic Or Tin Composite Diamond Structures. Materials Research Society Symposia Proceedings, 1995, 415, 45.	0.1	1
323	Electron Emission Through Tetrahedral Amorphous Carbon Coatings on Mo and Si Emitters. Materials Research Society Symposia Proceedings, 1997, 498, 233.	0.1	1
324	Comparison Of Aln Films Synthesized By Pulsed Laser Ablation And Magnetron Sputtering Techniques. Materials Research Society Symposia Proceedings, 1997, 505, 469.	0.1	1

#	Article	IF	Citations
325	Diamondlike Carbon, Carbon Nitride, and Titanium Nitride Coatings on Metal and Polymer Substrates. Materials Research Society Symposia Proceedings, 1998, 526, 355.	0.1	1
326	Inversion Domain Boundaries in Ain and GaN Thin Films. Microscopy and Microanalysis, 1998, 4, 636-637.	0.2	1
327	Structure of Low- And High-Angle Grain Boundaries In YBCO/MgO Films. Microscopy and Microanalysis, 1998, 4, 676-677.	0.2	1
328	Growth of Epitaxial Cu/TiN/6H-SiC(0001) Heterostructures by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1999, 580, 159.	0.1	1
329	Plasma and DLC Film Characteristics from Pulsed Laser Ablation Of Single Crystal Graphite and Amorphous Carbon: A Comparative Study Employing Electrostatic Probe Measurements. Materials Research Society Symposia Proceedings, 2000, 617, 311.	0.1	1
330	Nickel Nanocomposite Thin Films. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	1
331	Studies on Epitaxial Relationship and Interface Structure of AlN/Si(111) and GaN/Si(111) Heterostructures. Materials Research Society Symposia Proceedings, 2002, 743, L3.24.1.	0.1	1
332	Growth of TiN/AlN Superlattice by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2002, 750, 1.	0.1	1
333	Field-assisted selective-melt sintering: a novel approach to high-density ceramics. MRS Communications, 2013, 3, 139-143.	0.8	1
334	Enhanced Coercivity in BiFeO3/SrRuO3 heterostructures. MRS Advances, 2016, 1, 597-602.	0.5	1
335	Emergence of orbital two-channel Kondo effect in epitaxial TiN thin films. Solid State Communications, 2022, 341, 114547.	0.9	1
336	Atomic Structure of Dislocations and Dipoles in Silicon. Materials Research Society Symposia Proceedings, 1986, 82, 289.	0.1	0
337	Laser Physical and Laser Chemical Vapor Deposition of TiN and TiNxOy Films. Materials Research Society Symposia Proceedings, 1988, 129, 435.	0.1	O
338	Atomic Structure of Dislocations and Interfaces in Semiconductor Heterostructures. Materials Research Society Symposia Proceedings, 1989, 159, 121.	0.1	0
339	In-Situ Processing of Epitaxial and Textured High Tc Superconducting Hoba2Cu3O7.X Thin Films By Pulsed Laser Evaporation Technique. Materials Research Society Symposia Proceedings, 1989, 169, 459.	0.1	О
340	In‧itu Fabrication of YBa2Cu3O7â€x Superconducting Thin Films Directly on Silicon Substrates with Tc0 > 77K. Materials Research Society Symposia Proceedings, 1989, 169, 481.	0.1	0
341	Textured Superconducting Thin Films of Bismuth Cuprate by Laser Ablation Method. Materials Research Society Symposia Proceedings, 1989, 169, 527.	0.1	0
342	Grain Boundary Modelling and Correlation with Critical Current Densities in Highâ€₹c Superconductors. Materials Research Society Symposia Proceedings, 1989, 169, 817.	0.1	O

#	Article	IF	Citations
343	Plasma Dynamics During Pulsed Laser Evaporation of High Tc Superconductors. Materials Research Society Symposia Proceedings, 1990, 201, 501.	0.1	0
344	In-situ integrated processing of thin films of high temperature superconductors and related materials by MOCVD for device applications. AIP Conference Proceedings, 1990, , .	0.3	0
345	In-situ rapid isothermal processing (RIP) of InP based devices. , 1990, , .		0
346	In-Situ Optical Emission Spectra of Ti, TiN and TiSi2 Plasma During Thin Film Growth by Pulsed Laser Evaporation. Materials Research Society Symposia Proceedings, 1991, 250, 125.	0.1	0
347	Epitaxial Growth in Large Lattice Mismatch Systems: Characteristics of Domain Epitaxy. Materials Research Society Symposia Proceedings, 1992, 280, 393.	0.1	0
348	Pulsed Laser Deposition of Epitaxial (110) Tin Films on (100) Gaas - Processing, Characterization and Modeling. Materials Research Society Symposia Proceedings, 1993, 317, 205.	0.1	0
349	Atomistic Configurations of Diamond/Silicon Interface. Materials Research Society Symposia Proceedings, 1993, 317, 535.	0.1	0
350	Pulsed Laser Deposition and Characterization of Novel Cu/TiN/Si(100) Heterostructures Grown VIA Domain Epitaxy. Materials Research Society Symposia Proceedings, 1994, 355, 39.	0.1	0
351	Formation of Submicron Single Crystal Particles and Dots by Laser Ablation. Materials Research Society Symposia Proceedings, 1994, 358, 145.	0.1	0
352	Equilibrium Configuration of Epitaxially Strained Thin Film Surfaces. Materials Research Society Symposia Proceedings, 1995, 399, 383.	0.1	0
353	Structure and Electrical Properties of Cu/Ge Ohmic Contacts. Materials Research Society Symposia Proceedings, 1995, 402, 541.	0.1	0
354	Growth of Continuous Diamond Film by Hot Filament C VD Technique on SiC/TiC Pellets, Synthesized Using Combustion Synthesis. Materials and Manufacturing Processes, 1995, 10, 547-558.	2.7	0
355	A Study of the Interaction between Cu3Ge and (100) Si, and its Effect on Electrical Properties. Materials Research Society Symposia Proceedings, 1996, 448, 431.	0.1	0
356	Pulsed Laser Deposition of Undoped and Ag-Doped Stacked Structures of YBaCuO for Bolometer Device Applications. Materials Research Society Symposia Proceedings, 1998, 526, 269.	0.1	0
357	Atomic Structure and Property Correlation in Pulsed Laser Deposited High -Tc Films. Materials Research Society Symposia Proceedings, 1998, 526, 281.	0.1	0
358	Synthesis of Single Crystal Gallium Nitride Films on Sapphire by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1998, 526, 293.	0.1	0
359	Analysis of Undoped and Ag-doped High-Tc YBCO Superconducting Bolometers Fabricated Using a Novel Anti-Reflective Coating and Photolithographic Technique. Materials Research Society Symposia Proceedings, 1998, 541, 667.	0.1	0
360	Control of Ferroelectric Properties of PbZrxTi1â^'xO3 Thin Film for Electron Emission Device Driven by Low Voltage. Materials Research Society Symposia Proceedings, 1998, 541, 759.	0.1	0

#	Article	IF	CITATIONS
361	The characteristics of dc glow discharge and its effects on enhancement of diamond nucleation in HF-CVD system. Materials Research Society Symposia Proceedings, 1998, 555, 233.	0.1	O
362	Germanium Nanostructures Fabricated by PLD. Materials Research Society Symposia Proceedings, 1998, 536, 329.	0.1	0
363	Size Effect in Germanium Nanostructures Fabricated by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1999, 581, 163.	0.1	0
364	Fabrication and Characterization of Functionally Gradient Diamond-Like Carbon Coatings. Materials Research Society Symposia Proceedings, 1999, 593, 323.	0.1	0
365	Electrical Behavior of Pure and Cu Doped Diamondlike Carbon Prepared by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1999, 593, 377.	0.1	0
366	Fabrication and Characterization of Functionally Gradient Diamondlike Carbon Coatings. Materials Research Society Symposia Proceedings, 1999, 594, 313.	0.1	0
367	Threading Dislocation Density Reduction in GaN/Sapphire Heterostructures Materials Research Society Symposia Proceedings, 1999, 595, 1.	0.1	0
368	PbZr0.52Ti0.48O3 Ferroelectric Thin Films on Silicon by KrF Excimer Laser Ablation. Materials Research Society Symposia Proceedings, 1999, 604, 239.	0.1	0
369	Microstructure and Nanomechanical Properties of Amorphous Carbon Thin Films Prepared by Pulsed Laser Deposition in Various Atmospheres. Materials Research Society Symposia Proceedings, 2000, 616, 217.	0.1	0
370	Properties of the magnetoresistive La0.8Sr0.2MnO3 film and integration with PbZr0.52 Ti0.48O3 ferroelectrics. Materials Research Society Symposia Proceedings, 2000, 617, 3231.	0.1	0
371	Novel Cubic ZnxMg1â^'xO Epitaxial Heterostructures on Si (100) Substrates. Materials Research Society Symposia Proceedings, 2000, 639, 3531.	0.1	0
372	Phase Separation in Multiple ZnO /Cubic-MgxZn1â^'xO Superlattice Heterostructures Observed Via High Resolution Transmission Electron Microscopy. Materials Research Society Symposia Proceedings, 2000, 639, 6501.	0.1	0
373	Effect of Film Thickness on the Nanoindentation Measurements of Hard Diamondlike Carbon Films Prepared by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2000, 649, 7201.	0.1	0
374	Hydrogen Free, High sp3 Content DLC Films Produced by Pulsed Laser Ablation of Amorphous Graphite. Materials Research Society Symposia Proceedings, 2001, 697, 5111.	0.1	0
375	Tunable Magnetic Properties in Metal Ceramic Composite Thin Films. Materials Research Society Symposia Proceedings, 2001, 676, 3171.	0.1	0
376	Pulsed Laser Deposition and Characterization of Zn1â^'xMnxO Films. Materials Research Society Symposia Proceedings, 2001, 692, 1.	0.1	0
377	Effect of Thickness Variation in High-Efficiency Ingan/Gan Light Emitting Diodes. Materials Research Society Symposia Proceedings, 2002, 743, L6.22.1.	0.1	0
378	Single Crystal TaN Thin Films on TiN/Si Heterostructure. Materials Research Society Symposia Proceedings, 2002, 716, 881.	0.1	0

#	Article	IF	CITATIONS
379	Structural, optical and electrical properties of the novel semiconductor alloy $ZnOxTe(1-x)$. Materials Research Society Symposia Proceedings, 2002, 744, 1.	0.1	O
380	The Growth and Characterization of Zinc Oxide Thin Film on Fused Silica and SiO2/Si(100) Substrates. Materials Research Society Symposia Proceedings, 2002, 744, 1.	0.1	0
381	Copper Diffusion Characteristics in Single Crystal and Polycrystalline TaN. Materials Research Society Symposia Proceedings, 2002, 745, 6111.	0.1	0
382	Novel Nanostructured Metal and Ceramic Composites. Materials Research Society Symposia Proceedings, 2002, 750, 1.	0.1	0
383	Z-Contrast Imaging of Dislocation Cores at the Si/GaAs Interface. Microscopy and Microanalysis, 2002, 8, 1604-1605.	0.2	0
384	Polarized neutron reflectivity studies on epitaxial BiFeO3/La0.7Sr0.3MnO3 heterostructure integrated with Si (100). AIP Advances, 2018, 8, 055821.	0.6	0
385	Self-Aligned Passivated Copper Interconnects: A Novel Technique for Making Interconnections in Ultra Large Scale Integration Device Applications. Materials Research Society Symposia Proceedings, 2002, 716, 811.	0.1	0