

Anagh Bhaumik

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381
papers

11,402
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52
h-index

95
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392
ext. papers

12,059
ext. citations

3.9
avg, IF

6.44
L-index

#	Paper	IF	Citations
381	Pulsed-laser evaporation technique for deposition of thin films: Physics and theoretical model. <i>Physical Review B</i> , 1990 , 41, 8843-8859	3.3	823
380	Domain epitaxy: A unified paradigm for thin film growth. <i>Journal of Applied Physics</i> , 2003 , 93, 278-285	2.5	465
379	Optical and structural properties of epitaxial Mg _x Zn _{1-x} O alloys. <i>Applied Physics Letters</i> , 1999 , 75, 3327-3329	3.4	354
378	Excitonic structure and absorption coefficient measurements of ZnO single crystal epitaxial films deposited by pulsed laser deposition. <i>Journal of Applied Physics</i> , 1999 , 85, 7884-7887	2.5	304
377	Zn _{0.9} Co _{0.1} O-based diluted magnetic semiconducting thin films. <i>Applied Physics Letters</i> , 2004 , 84, 5255-5257	3.4	284
376	Epitaxial growth of TiN films on (100) silicon substrates by laser physical vapor deposition. <i>Applied Physics Letters</i> , 1992 , 61, 1290-1292	3.4	255
375	Electrical properties of transparent and conducting Ga doped ZnO. <i>Journal of Applied Physics</i> , 2006 , 100, 033713	2.5	239
374	Metallic conductivity and metal-semiconductor transition in Ga-doped ZnO. <i>Applied Physics Letters</i> , 2006 , 88, 032106	3.4	229
373	Theoretical model for deposition of superconducting thin films using pulsed laser evaporation technique. <i>Journal of Applied Physics</i> , 1990 , 68, 233-247	2.5	209
372	Defects and interfaces in epitaxial ZnO/Al ₂ O ₃ and AlN/ZnO/Al ₂ O ₃ heterostructures. <i>Journal of Applied Physics</i> , 1998 , 84, 2597-2601	2.5	195
371	Formation of thin superconducting films by the laser processing method. <i>Applied Physics Letters</i> , 1987 , 51, 1845-1847	3.4	183
370	Refractive indices and absorption coefficients of Mg _x Zn _{1-x} O alloys. <i>Applied Physics Letters</i> , 2000 , 76, 979-981	3.4	175
369	In situ processing of epitaxial Y-Ba-Cu-O high T _c superconducting films on (100) SrTiO ₃ and (100) YS-ZrO ₂ substrates at 500-550 °C. <i>Applied Physics Letters</i> , 1989 , 54, 2271-2273	3.4	162
368	Interface structures during solid-phase-epitaxial growth in ion implanted semiconductors and a crystallization model. <i>Journal of Applied Physics</i> , 1982 , 53, 8607-8614	2.5	156
367	Laser method for synthesis and processing of continuous diamond films on nondiamond substrates. <i>Science</i> , 1991 , 252, 416-8	33.3	145
366	High quality epitaxial aluminum nitride layers on sapphire by pulsed laser deposition. <i>Applied Physics Letters</i> , 1995 , 67, 1549-1551	3.4	135
365	Laser annealing of ion-implanted semiconductors. <i>Science</i> , 1979 , 204, 461-8	33.3	133

364	Epitaxial growth of AlN thin films on silicon (111) substrates by pulsed laser deposition. <i>Journal of Applied Physics</i> , 1995 , 77, 4724-4728	2.5	132
363	Epitaxial growth in large-lattice-mismatch systems. <i>Journal of Applied Physics</i> , 1994 , 75, 860-871	2.5	126
362	Gallium-doped zinc oxide films as transparent electrodes for organic solar cell applications. <i>Journal of Applied Physics</i> , 2007 , 102, 023501	2.5	123
361	Effect of Li doping in NiO thin films on its transparent and conducting properties and its application in heteroepitaxial p-n junctions. <i>Journal of Applied Physics</i> , 2010 , 108, 083715	2.5	122
360	Epitaxial growth and properties of MoOx(2. <i>Journal of Applied Physics</i> , 2005 , 97, 083539	2.5	119
359	Subsurface heating effects during pulsed laser evaporation of materials. <i>Applied Physics Letters</i> , 1990 , 57, 2022-2024	3.4	113
358	Thin-film deposition by a new laser ablation and plasma hybrid technique. <i>Applied Physics Letters</i> , 1989 , 54, 2455-2457	3.4	111
357	Semiconductor-metal transition characteristics of VO2 thin films grown on c- and r-sapphire substrates. <i>Journal of Applied Physics</i> , 2010 , 107, 053514	2.5	108
356	A novel method for simulating laser-solid interactions in semiconductors and layered structures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1989 , 3, 217-230	3.1	108
355	Novel phase of carbon, ferromagnetism, and conversion into diamond. <i>Journal of Applied Physics</i> , 2015 , 118, 215303	2.5	106
354	Grain size effect on deformation twinning and detwinning. <i>Journal of Materials Science</i> , 2013 , 48, 4467-4475	4.5	104
353	Structural characteristics of AlN films deposited by pulsed laser deposition and reactive magnetron sputtering: A comparative study. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998 , 16, 2804-2815	2.9	100
352	Effect of the chemical nature of transition-metal substrates on chemical-vapor deposition of diamond. <i>Journal of Applied Physics</i> , 1993 , 74, 4168-4173	2.5	95
351	Pulsed laser melting of amorphous silicon layers. <i>Applied Physics Letters</i> , 1984 , 44, 35-37	3.4	87
350	Enhancement of nucleation and adhesion of diamond films on copper, stainless steel, and silicon substrates. <i>Journal of Applied Physics</i> , 1992 , 71, 966-971	2.5	86
349	Effects of pulsed ruby-laser annealing on As and Sb implanted silicon. <i>Journal of Applied Physics</i> , 1979 , 50, 3261-3273	2.5	86
348	Twinning partial multiplication at grain boundary in nanocrystalline fcc metals. <i>Applied Physics Letters</i> , 2009 , 95, 031909	3.4	83
347	Rectifying electrical characteristics of La0.7Sr0.3MnO3/ZnO heterostructure. <i>Applied Physics Letters</i> , 2003 , 83, 1773-1775	3.4	83

346	Pulsed-Laser Melting of Amorphous Silicon: Time-Resolved Measurements and Model Calculations. <i>Physical Review Letters</i> , 1984 , 52, 561-564	7.4	80
345	Characteristics of titanium nitride films grown by pulsed laser deposition. <i>Journal of Materials Research</i> , 1996 , 11, 1458-1469	2.5	78
344	Interface instability and cell formation in ion-implanted and laser-annealed silicon. <i>Journal of Applied Physics</i> , 1981 , 52, 1289-1293	2.5	76
343	Superhard diamondlike carbon: preparation, theory, and properties. <i>International Materials Reviews</i> , 2000 , 45, 133-164	16.1	75
342	Dislocations, twins, and grain boundaries in CVD diamond thin films: Atomic structure and properties. <i>Journal of Materials Research</i> , 1990 , 5, 2414-2423	2.5	74
341	Strain-induced tuning of metal-insulator transition in NdNiO ₃ . <i>Applied Physics Letters</i> , 2002 , 80, 4039-4044	3.4	67
340	Atomic structure of dislocations in silicon, germanium and diamond. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1990 , 61, 873-891		66
339	Bulk nucleation and amorphous phase formation in highly undercooled molten silicon. <i>Applied Physics Letters</i> , 1984 , 44, 770-772	3.4	66
338	Enhanced photoconductivity of ZnO films Co-doped with nitrogen and tellurium. <i>Applied Physics Letters</i> , 2005 , 86, 2119-18	3.4	64
337	Semiconductor to metal transition characteristics of VO ₂ thin films grown epitaxially on Si (001). <i>Applied Physics Letters</i> , 2009 , 95, 1119-15	3.4	63
336	Mechanism for grain size softening in nanocrystalline Zn. <i>Applied Physics Letters</i> , 2002 , 81, 2241-2243	3.4	59
335	In situ single chamber laser processing of YBa ₂ Cu ₃ O _{7-x} superconducting thin films on Si (100) with yttria-stabilized zirconia buffer layers. <i>Applied Physics Letters</i> , 1990 , 57, 1578-1580	3.4	58
334	Role of interfacial transition layers in VO ₂ /Al ₂ O ₃ heterostructures. <i>Journal of Applied Physics</i> , 2011 , 110, 073515	2.5	57
333	Mechanism of combustion synthesis of silicon carbide. <i>Journal of Applied Physics</i> , 1994 , 75, 7252-7257	2.5	56
332	Low-temperature processing of titanium nitride films by laser physical vapor deposition. <i>Applied Physics Letters</i> , 1989 , 54, 1519-1521	3.4	54
331	Atomic structure of dislocations and dipoles in silicon. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1987 , 56, 625-639		53
330	Self-climb of dislocation loops in magnesium oxide. <i>Philosophical Magazine and Journal</i> , 1972 , 26, 1179-1190		53
329	Diamond-ceramic composite tool coatings. <i>Journal of Materials Research</i> , 1994 , 9, 2850-2867	2.5	51

328	Control of surface particle density in pulsed laser deposition of superconducting YBa ₂ Cu ₃ O ₇ and diamondlike carbon thin films. <i>Applied Physics Letters</i> , 1992 , 61, 483-485	3.4	51
327	Strain relief mechanisms and the nature of dislocations in GaAs/Si heterostructures. <i>Journal of Applied Physics</i> , 1989 , 66, 2376-2380	2.5	51
326	Significant enhancement of optical absorption through nano-structuring of copper based oxide semiconductors: possible future materials for solar energy applications. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11054-66	3.6	49
325	Formation of epitaxial and textured platinum films on ceramics-(100) MgO single crystals by pulsed laser deposition. <i>Applied Physics Letters</i> , 1994 , 64, 2093-2095	3.4	49
324	Epitaxial growth of ZnO films on Si(111). <i>Journal of Materials Research</i> , 2002 , 17, 2480-2483	2.5	47
323	Microstructure and properties of YBa ₂ Cu ₃ O ₉ superconductors with transitions at 90 and near 290 K. <i>Applied Physics Letters</i> , 1987 , 51, 940-942	3.4	47
322	Phase transformation and impurity redistribution during pulsed laser irradiation of amorphous silicon layers. <i>Journal of Applied Physics</i> , 1984 , 56, 1821-1830	2.5	47
321	Progress in Q-carbon and related materials with extraordinary properties. <i>Materials Research Letters</i> , 2018 , 6, 353-364	7.4	46
320	Discovery of High-Temperature Superconductivity (T = 55 K) in B-Doped Q-Carbon. <i>ACS Nano</i> , 2017 , 11, 11915-11922	16.7	46
319	Microstructural and compositional variations in laser-deposited superconducting thin films. <i>Applied Physics Letters</i> , 1988 , 53, 1013-1015	3.4	45
318	Conversion of p to n-type reduced graphene oxide by laser annealing at room temperature and pressure. <i>Journal of Applied Physics</i> , 2017 , 121, 125303	2.5	44
317	Microstructure and electrical property correlations in Ga:ZnO transparent conducting thin films. <i>Journal of Applied Physics</i> , 2006 , 100, 093519	2.5	43
316	High-Temperature Superconductivity in Boron-Doped Q-Carbon. <i>ACS Nano</i> , 2017 , 11, 5351-5357	16.7	42
315	Effect of processing geometry in oxygen incorporation and in situ formation of YBa ₂ Cu ₃ O ₇ superconducting thin films by pulsed laser evaporation technique. <i>Applied Physics Letters</i> , 1989 , 55, 2351-2353	3.4	42
314	The Inverse Hall-Petch Effect: Fact or Artifact?. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 634, 511		41
313	Self-assembled epitaxial and polycrystalline magnetic nickel nanocrystallites. <i>Applied Physics Letters</i> , 2001 , 79, 2817-2819	3.4	40
312	Atomistic study of dislocation nucleation in Ge/(001)Si heterostructures. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1995 , 72, 281-295		40
311	Structure-magnetic property correlations in the epitaxial FePt system. <i>Applied Physics Letters</i> , 2008 , 92, 102504	3.4	39

310	Research Update: Direct conversion of amorphous carbon into diamond at ambient pressures and temperatures in air. <i>APL Materials</i> , 2015 , 3, 100702	5.7	38
309	Z-contrast imaging of dislocation cores at the GaAs/Si interface. <i>Applied Physics Letters</i> , 2002 , 81, 2728-2730	3.4	38
308	Copper diffusion characteristics in single-crystal and polycrystalline TaN. <i>Applied Physics Letters</i> , 2002 , 81, 1453-1455	3.4	38
307	Atomic structure and energy of grain boundaries in silicon, germanium and diamond. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1991 , 63, 1181-1192		38
306	Properties of YBa ₂ Cu ₃ Ag _x O _{7-x} composite superconductors. <i>Journal of Applied Physics</i> , 1989 , 66, 5935-5939	2.5	38
305	Characteristics of stacking faults in AlN thin films. <i>Journal of Applied Physics</i> , 1997 , 82, 4296-4299	2.5	37
304	Defect dependent ferromagnetism in MgO doped with Ni and Co. <i>Applied Physics Letters</i> , 2008 , 93, 082507	3.4	37
303	Magnetic properties of self-assembled nanoscale La _{2/3} Ca _{1/3} MnO ₃ particles in an alumina matrix. <i>Applied Physics Letters</i> , 2001 , 79, 1327-1329	3.4	37
302	Superconducting YBa ₂ Cu ₃ O _{7-x} thin films on Si (100) substrates with CoSi ₂ buffer layers by an in situ pulsed laser evaporation method. <i>Applied Physics Letters</i> , 1991 , 59, 1785-1787	3.4	36
301	Observation of room temperature ferromagnetism in Ga:ZnO: A transition metal free transparent ferromagnetic conductor. <i>Applied Physics Letters</i> , 2008 , 93, 021912	3.4	35
300	Silicon oxidation and Si/SiO ₂ interface of thin oxides. <i>Journal of Materials Research</i> , 1987 , 2, 216-221	2.5	35
299	Room-Temperature Ferromagnetism and Extraordinary Hall Effect in Nanostructured Q-Carbon: Implications for Potential Spintronic Devices. <i>ACS Applied Nano Materials</i> , 2018 , 1, 807-819	5.6	34
298	Growth of ceramic thin films on Si(100) using an in situ laser deposition technique. <i>Journal of Applied Physics</i> , 1991 , 69, 8358-8362	2.5	34
297	Mechanical properties of nanocrystalline and epitaxial TiN films on (100) silicon. <i>Journal of Materials Research</i> , 2001 , 16, 2733-2738	2.5	33
296	Pulsed laser deposition and characterization of epitaxial Cu/TiN/Si(100) heterostructures. <i>Applied Physics Letters</i> , 1994 , 65, 2565-2567	3.4	33
295	Epitaxial growth of TaN thin films on Si(100) and Si(111) using a TiN buffer layer. <i>Applied Physics Letters</i> , 2002 , 80, 2323-2325	3.4	32
294	The role of Ag in the pulsed laser growth of YBCO thin films. <i>Journal of Applied Physics</i> , 1999 , 85, 6636-6641	2.5	32
293	In-situ patterned laser deposition of high-T _c Y-Ba-Cu-O superconducting thin films. <i>Journal of Applied Physics</i> , 1990 , 67, 3448-3451	2.5	32

292	Synthesis and atomic-level characterization of Ni nanoparticles in Al ₂ O ₃ matrix. <i>Applied Physics Letters</i> , 2002 , 81, 4204-4206	3.4	31
291	Preparation of Pb(Zr _{0.54} Ti _{0.46})O ₃ thin films on (100)Si using textured YBa ₂ Cu ₃ O ₇ and yttria-stabilized zirconia buffer layers by laser physical vapor deposition technique. <i>Applied Physics Letters</i> , 1993 , 63, 30-32	3.4	31
290	Q-carbon harder than diamond. <i>MRS Communications</i> , 2018 , 8, 428-436	2.7	30
289	Ultrafast switching in wetting properties of TiO ₂ /YSZ/Si(001) epitaxial heterostructures induced by laser irradiation. <i>Journal of Applied Physics</i> , 2013 , 113, 063706	2.5	30
288	Synthesis of superconducting YBa ₂ Cu ₃ O ₇ thin films on nickel-based superalloy using in situ pulsed laser deposition. <i>Applied Physics Letters</i> , 1990 , 57, 2594-2596	3.4	30
287	Evidence for topological surface states in epitaxial Bi ₂ Se ₃ thin film grown by pulsed laser deposition through magneto-transport measurements. <i>Current Opinion in Solid State and Materials Science</i> , 2014 , 18, 279-285	12	29
286	Epitaxial integration of dilute magnetic semiconductor Sr ₃ SnO with Si (001). <i>Applied Physics Letters</i> , 2013 , 103, 112101	3.4	29
285	Integration of Pb(Zr _{0.52} Ti _{0.48})O ₃ epilayers with Si by domain epitaxy. <i>Applied Physics Letters</i> , 2000 , 76, 1458-1460	3.4	29
284	Effect of microstructure on diffusion of copper in TiN films. <i>Journal of Applied Physics</i> , 2003 , 93, 5210-5214	3.4	28
283	Electrostatic measurement of plasma plume characteristics in pulsed laser evaporated carbon. <i>Journal of Applied Physics</i> , 1999 , 86, 2865-2871	2.5	28
282	Low resistivity copper germanide on (100) Si for contacts and interconnections. <i>Applied Physics Letters</i> , 1996 , 69, 3560-3562	3.4	28
281	Superconducting thin films of Y-Ba-Cu-O prepared by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , 1990 , 67, 1562-1565	2.5	28
280	Research Update: Direct conversion of h-BN into pure c-BN at ambient temperatures and pressures in air. <i>APL Materials</i> , 2016 , 4, 020701	5.7	28
279	Electron field emission from Q-carbon. <i>Diamond and Related Materials</i> , 2018 , 86, 71-78	3.5	27
278	A microstructural approach toward the effect of thickness on semiconductor-to-metal transition characteristics of VO ₂ epilayers. <i>Journal of Applied Physics</i> , 2014 , 115, 164311	2.5	27
277	Domain epitaxy in TiO ₂ /Al ₂ O ₃ thin film heterostructures with Ti ₂ O ₃ transient layer. <i>Applied Physics Letters</i> , 2012 , 100, 251606	3.4	27
276	Nature of epitaxial growth of high-T _c laser-deposited Y-Ba-Cu-O films on (100) strontium titanate substrates. <i>Journal of Applied Physics</i> , 1990 , 67, 3785-3790	2.5	27
275	Deformation twin formed by self-thickening, cross-slip mechanism in nanocrystalline Ni. <i>Applied Physics Letters</i> , 2008 , 93, 031910	3.4	26

274	Atomic structure, electrical properties, and infrared range optical properties of diamondlike carbon films containing foreign atoms prepared by pulsed laser deposition. <i>Journal of Materials Research</i> , 2000 , 15, 633-641	2.5	26
273	Laser patterning of diamond films. <i>Journal of Applied Physics</i> , 1992 , 71, 3795-3801	2.5	26
272	Synthesis of diamond nanostructures from carbon nanotube and formation of diamond-CNT hybrid structures. <i>Carbon</i> , 2019 , 150, 388-395	10.4	25
271	Enhanced mechanical properties of Q-carbon nanocomposites by nanosecond pulsed laser annealing. <i>Nanotechnology</i> , 2018 , 29, 45LT02	3.4	25
270	Macroscopic Twinning Strain in Nanocrystalline Cu. <i>Materials Research Letters</i> , 2014 , 2, 63-69	7.4	24
269	Oxygen vacancy enhanced room-temperature ferromagnetism in Sr ₃ SnO/c-YSZ/Si (001) heterostructures. <i>MRS Communications</i> , 2014 , 4, 7-13	2.7	24
268	Enhanced photocatalytic efficiency in zirconia buffered n-NiO/p-NiO single crystalline heterostructures by nanosecond laser treatment. <i>Journal of Applied Physics</i> , 2013 , 113, 233708	2.5	24
267	Quantum confinement of E1 and E2 transitions in Ge quantum dots embedded in an Al ₂ O ₃ or an AlN matrix. <i>Applied Physics Letters</i> , 2000 , 76, 43-45	3.4	24
266	Nucleation and growth of diamond films on aluminum nitride coated nickel. <i>Applied Physics Letters</i> , 1995 , 67, 1322-1324	3.4	24
265	Laser-enhanced synthesis and processing of diamond films from liquid hydrocarbons. <i>Journal of Applied Physics</i> , 1993 , 73, 4351-4356	2.5	24
264	Nature of interfaces and oxidation processes in Ge ⁺ -implanted Si. <i>Journal of Applied Physics</i> , 1989 , 65, 4028-4032	2.5	24
263	In situ processing of textured superconducting thin film of Bi-(Pb)-Ca-Sr-Cu-O by excimer laser ablation. <i>Applied Physics Letters</i> , 1990 , 56, 2034-2036	3.4	24
262	Direct conversion of carbon nanofibers and nanotubes into diamond nanofibers and the subsequent growth of large-sized diamonds. <i>Nanoscale</i> , 2019 , 11, 2238-2248	7.7	23
261	Undercooling driven growth of Q-carbon, diamond, and graphite. <i>MRS Communications</i> , 2018 , 8, 533-540	2.7	23
260	Misfit dislocations in low-temperature grown Ge/Si heterostructures. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1995 , 71, 537-551		23
259	Pulsed laser deposition of epitaxial Si/TiN/Si(100) heterostructures. <i>Applied Physics Letters</i> , 1994 , 64, 1236-1238	3.4	23
258	Optical properties of amorphous silicon and silicon dioxide. <i>Journal of Applied Physics</i> , 1986 , 60, 1139-1146	6	23
257	Large-area diamond thin film on Q-carbon coated crystalline sapphire by HFCVD. <i>Journal of Crystal Growth</i> , 2018 , 504, 17-25	1.6	23

256	Structural Evolution of Q-Carbon and Nanodiamonds. <i>Jom</i> , 2018 , 70, 450-455	2.1	22
255	Epitaxial GaN on Si(111): Process control of SiN _x interlayer formation. <i>Applied Physics Letters</i> , 2004 , 85, 133-135	3.4	22
254	Single-chamber, in situ processing of superconducting YBa ₂ Cu ₃ O ₇ thin films on stainless steel with yttria-stabilized zirconia buffer layer. <i>Journal of Applied Physics</i> , 1991 , 69, 2410-2413	2.5	21
253	Electrical Transition in Isostructural VO Thin-Film Heterostructures. <i>Scientific Reports</i> , 2019 , 9, 3009	4.9	20
252	A novel high-temperature carbon-based superconductor: B-doped Q-carbon. <i>Journal of Applied Physics</i> , 2017 , 122, 045301	2.5	20
251	Size and Interface Control of Novel Nanocrystalline Materials Using Pulsed Laser Deposition. <i>Journal of Nanoparticle Research</i> , 2000 , 2, 91-96	2.3	20
250	The elastic field associated with a square dislocation loop in a two-phase medium. <i>Journal of Applied Physics</i> , 1987 , 62, 1698-1703	2.5	20
249	Tunable charge states of nitrogen-vacancy centers in diamond for ultrafast quantum devices. <i>Carbon</i> , 2019 , 142, 662-672	10.4	20
248	Role of twin boundaries in semiconductor to metal transition characteristics of VO ₂ films. <i>Applied Physics Letters</i> , 2010 , 97, 072101	3.4	19
247	Laser-ablated plasma for deposition of ZnO thin films on various substrates. <i>Science and Technology of Advanced Materials</i> , 2001 , 2, 517-523	7.1	19
246	Nucleation and growth of diamond on FeSi ₂ /Si substrates by hot filament chemical vapor deposition. <i>Journal of Applied Physics</i> , 1992 , 71, 4944-4948	2.5	19
245	Direct conversion of h-BN into c-BN and formation of epitaxial c-BN/diamond heterostructures. <i>Journal of Applied Physics</i> , 2016 , 119, 185302	2.5	19
244	Vacancy-Driven Robust Metallicity of Structurally Pinned Monoclinic Epitaxial VO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3547-3554	9.5	19
243	Alloying effect on grain-size dependent deformation twinning in nanocrystalline Cu ₃ Zn alloys. <i>Philosophical Magazine</i> , 2015 , 95, 301-310	1.6	18
242	Enhancement in critical current density of Y ₁ Ba ₂ Cu ₃ O ₇ thin films on hastelloy with TiN buffer layers. <i>Applied Physics Letters</i> , 1992 , 61, 976-978	3.4	18
241	Wafer scale integration of reduced graphene oxide by novel laser processing at room temperature in air. <i>Journal of Applied Physics</i> , 2016 , 120, 105304	2.5	18
240	Stability of electron field emission in Q-carbon. <i>MRS Communications</i> , 2018 , 8, 1343-1351	2.7	18
239	Q-carbon discovery and formation of single-crystal diamond nano- and microneedles and thin films. <i>Materials Research Letters</i> , 2016 , 4, 118-126	7.4	17

238	Novel synthesis and properties of pure and NV-doped nanodiamonds and other nanostructures. <i>Materials Research Letters</i> , 2017 , 5, 242-250	7.4	17
237	Epitaxial VO ₂ /Cr ₂ O ₃ /sapphire heterostructure for multifunctional applications. <i>Applied Physics Letters</i> , 2011 , 98, 022105	3.4	17
236	Origin of room-temperature ferromagnetism in cobalt-doped ZnO. <i>Journal of Electronic Materials</i> , 2004 , 33, 1298-1302	1.9	17
235	Characterization of the interface between Ge ⁺ -implanted crystalline silicon and its thermally grown oxide by spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , 1990 , 67, 599-603	2.5	17
234	Optical properties of silicon related insulators. <i>Journal of Applied Physics</i> , 1987 , 61, 2017-2021	2.5	17
233	Laser surface modification of metal-coated ceramics. <i>Journal of Materials Research</i> , 1988 , 3, 1119-1126	2.5	17
232	Laser processing of BN and AlN films. <i>Journal of Electronic Materials</i> , 1996 , 25, 143-149	1.9	16
231	Synthesis of diamond films on Hastelloy. <i>Journal of Materials Research</i> , 1992 , 7, 2785-2790	2.5	16
230	Modelling of microstructural features in Y-Ba-Cu-O superconductors. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1989 , 59, 917-937		16
229	Effect of free surface and interface on thermal annealing of dislocation loops in silicon. <i>Journal of Applied Physics</i> , 1987 , 62, 1694-1697	2.5	16
228	Room-temperature ferromagnetism in epitaxial titanium nitride thin films. <i>Acta Materialia</i> , 2019 , 166, 221-230	8.4	16
227	Diamond film growth by HFCVD on Q-carbon seeded substrate. <i>Carbon</i> , 2019 , 141, 182-189	10.4	16
226	Reduced Graphene Oxide/Amorphous Carbon P-N Junctions: Nanosecond Laser Patterning. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24318-24330	9.5	15
225	Role of in situ rapid isothermal processing in the solid phase epitaxial growth of II-A fluoride films on (100) and (111) InP. <i>Applied Physics Letters</i> , 1990 , 56, 247-249	3.4	15
224	Scale-up of Q-carbon and nanodiamonds by pulsed laser annealing. <i>Diamond and Related Materials</i> , 2019 , 99, 107531	3.5	14
223	Room temperature ferromagnetism in epitaxial Cr ₂ O ₃ thin films grown on r-sapphire. <i>Journal of Applied Physics</i> , 2015 , 117, 193907	2.5	14
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