

Anagh Bhaumik

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

381
papers

11,402
citations

52
h-index

95
g-index

392
ext. papers

12,059
ext. citations

3.9
avg, IF

6.44
L-index

#	Paper	IF	Citations
381	Emergence of orbital two-channel Kondo effect in epitaxial TiN thin films. <i>Solid State Communications</i> , 2022 , 341, 114547	1.6	0
380	Q-carbon as a new radiation-resistant material. <i>Carbon</i> , 2022 , 186, 253-261	10.4	7
379	Self-organization of amorphous Q-carbon and Q-BN nanoballs. <i>Carbon</i> , 2022 , 192, 301-307	10.4	2
378	Formation of self-organized nano- and micro-diamond rings. <i>Materials Research Letters</i> , 2021 , 9, 300-307	7.4	5
377	Role of Q-carbon in nucleation and formation of continuous diamond film. <i>Carbon</i> , 2021 , 176, 558-568	10.4	10
376	Synthesis of multifunctional microdiamonds on stainless steel substrates by chemical vapor deposition. <i>Carbon</i> , 2021 , 171, 739-749	10.4	12
375	Tunable n-Type Conductivity and Transport Properties of Cubic Boron Nitride via Carbon Doping. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1359-1367	4	5
374	Advances in laser-assisted conversion of polymeric and graphitic carbon into nanodiamond films. <i>Nanotechnology</i> , 2021 , 32,	3.4	6
373	Discovery of double helix of screw dislocations: a perspective. <i>Materials Research Letters</i> , 2021 , 9, 453-457	7.4	0
372	Selective Liquid-Phase Regrowth of Reduced Graphene Oxide, Nanodiamond, and Nanoscale Q-Carbon by Pulsed Laser Annealing for Radiofrequency Devices. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5178-5188	5.6	3
371	Fabrication of ultrahard Q-carbon nanocoatings on AISI 304 and 316 stainless steels and subsequent formation of high-quality diamond films. <i>Diamond and Related Materials</i> , 2020 , 104, 107742	3.5	11
370	Structural evolution of laser-irradiated ultrananocrystalline diamond/amorphous carbon composite films prepared by coaxial arc plasma. <i>Applied Physics Express</i> , 2020 , 13, 105503	2.4	9
369	Evidence of weak antilocalization in epitaxial TiN thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 498, 166094	2.8	5
368	Nonequilibrium Structural Evolution of Q-Carbon and Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1330-1338	9.5	13
367	Direct conversion of Teflon into nanodiamond films. <i>Materials Research Letters</i> , 2020 , 8, 408-416	7.4	7
366	Electron mobility modulation in graphene oxide by controlling carbon melt lifetime. <i>Carbon</i> , 2020 , 170, 327-337	10.4	14
365	Nanometer-Thick Hexagonal Boron Nitride Films for 2D Field-Effect Transistors. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7930-7941	5.6	1

364	Conversion of h-BN into c-BN for tuning optoelectronic properties. <i>Materials Advances</i> , 2020 , 1, 830-836	3.3	4
363	Scale-up of Q-carbon and nanodiamonds by pulsed laser annealing. <i>Diamond and Related Materials</i> , 2019 , 99, 107531	3.5	14
362	Nano-to-micro diamond formation by nanosecond pulsed laser annealing. <i>Journal of Applied Physics</i> , 2019 , 126, 125307	2.5	6
361	Formation of Q-carbon and diamond coatings on WC and steel substrates. <i>Diamond and Related Materials</i> , 2019 , 98, 107515	3.5	4
360	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
359	Formation and characterization of nano- and microstructures of twinned cubic boron nitride. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1700-1710	3.6	4
358	Reduced Graphene Oxide/Amorphous Carbon P-N Junctions: Nanosecond Laser Patterning. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24318-24330	9.5	15
357	Emergence of shallow energy levels in B-doped Q-carbon: A high-temperature superconductor. <i>Acta Materialia</i> , 2019 , 174, 153-159	8.4	7
356	Synthesis of diamond nanostructures from carbon nanotube and formation of diamond-CNT hybrid structures. <i>Carbon</i> , 2019 , 150, 388-395	10.4	25
355	Structure-property correlations in phase-pure B-doped Q-carbon high-temperature superconductor with a record T = 55 K. <i>Nanoscale</i> , 2019 , 11, 9141-9154	7.7	4
354	Direct conversion of carbon nanofibers into diamond nanofibers using nanosecond pulsed laser annealing. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7208-7219	3.6	3
353	Electrical Transition in Isostructural VO Thin-Film Heterostructures. <i>Scientific Reports</i> , 2019 , 9, 3009	4.9	20
352	Pseudo-topotactic growth of diamond nanofibers. <i>Acta Materialia</i> , 2019 , 178, 179-185	8.4	6
351	Non-equilibrium processing of ferromagnetic heavily reduced graphene oxide. <i>Carbon</i> , 2019 , 153, 663-673	10.4	13
350	Laser-induced structure transition of diamond-like carbon coated on cemented carbide and formation of reduced graphene oxide. <i>MRS Communications</i> , 2019 , 9, 910-915	2.7	7
349	Search for near room-temperature superconductivity in B-doped Q-carbon. <i>Materials Research Letters</i> , 2019 , 7, 164-172	7.4	5
348	Room-temperature ferromagnetism in epitaxial titanium nitride thin films. <i>Acta Materialia</i> , 2019 , 166, 221-230	8.4	16
347	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

346	Reduced Graphene Oxide-Nanostructured Silicon Photosensors with High Photoresponsivity at Room Temperature. <i>ACS Applied Nano Materials</i> , 2019 , 2, 2086-2098	5.6	3
345	Tunable charge states of nitrogen-vacancy centers in diamond for ultrafast quantum devices. <i>Carbon</i> , 2019 , 142, 662-672	10.4	20
344	Diamond film growth by HFCVD on Q-carbon seeded substrate. <i>Carbon</i> , 2019 , 141, 182-189	10.4	16
343	Electron field emission from Q-carbon. <i>Diamond and Related Materials</i> , 2018 , 86, 71-78	3.5	27
342	High temperature superconductivity in distinct phases of amorphous B-doped Q-carbon. <i>Journal of Applied Physics</i> , 2018 , 123, 135304	2.5	11
341	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
340	Polarized neutron reflectivity studies on epitaxial BiFeO ₃ /La _{0.7} Sr _{0.3} MnO ₃ heterostructure integrated with Si (100). <i>AIP Advances</i> , 2018 , 8, 055821	1.5	
339	Synthesis and Characterization of Quenched and Crystalline Phases: Q-Carbon, Q-BN, Diamond and Phase-Pure c-BN. <i>Jom</i> , 2018 , 70, 456-463	2.1	5
338	Structural Evolution of Q-Carbon and Nanodiamonds. <i>Jom</i> , 2018 , 70, 450-455	2.1	22
337	Q-carbon harder than diamond. <i>MRS Communications</i> , 2018 , 8, 428-436	2.7	30
336	Magnetic relaxation and three-dimensional critical fluctuations in B-doped Q-carbon - a high-temperature superconductor. <i>Nanoscale</i> , 2018 , 10, 12665-12673	7.7	2
335	Progress in Q-carbon and related materials with extraordinary properties. <i>Materials Research Letters</i> , 2018 , 6, 353-364	7.4	46
334	Electrochromic effect in Q-carbon. <i>Applied Physics Letters</i> , 2018 , 112, 223104	3.4	5
333	Undercooling driven growth of Q-carbon, diamond, and graphite. <i>MRS Communications</i> , 2018 , 8, 533-540	2.7	23
332	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
331	Enhanced mechanical properties of Q-carbon nanocomposites by nanosecond pulsed laser annealing. <i>Nanotechnology</i> , 2018 , 29, 45LT02	3.4	25
330	Stability of electron field emission in Q-carbon. <i>MRS Communications</i> , 2018 , 8, 1343-1351	2.7	18
329	High-Temperature Superconductivity in Boron-Doped Q-Carbon. <i>ACS Nano</i> , 2017 , 11, 5351-5357	16.7	42

328	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
327	A novel high-temperature carbon-based superconductor: B-doped Q-carbon. <i>Journal of Applied Physics</i> , 2017 , 122, 045301	2.5	20
326	Discovery of High-Temperature Superconductivity (T = 55 K) in B-Doped Q-Carbon. <i>ACS Nano</i> , 2017 , 11, 11915-11922	16.7	46
325	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
324	Enhanced Coercivity in BiFeO ₃ /SrRuO ₃ heterostructures. <i>MRS Advances</i> , 2016 , 1, 597-602	0.7	1
323	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
322	Discovery of Q-BN and Direct Conversion of h-BN into c-BN and Formation of Epitaxial c-BN/Diamond Heterostructures. <i>MRS Advances</i> , 2016 , 1, 2573-2584	0.7	1
321	Epitaxial integration of TiO ₂ with Si(100) through a novel approach of oxidation of TiN/Si(100) epitaxial heterostructure. <i>MRS Advances</i> , 2016 , 1, 2629-2634	0.7	6
320	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
319	Ferromagnetic oxide heterostructures on silicon. <i>MRS Communications</i> , 2016 , 6, 234-240	2.7	2
318	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
317	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
316	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
315	Strain induced room temperature ferromagnetism in epitaxial magnesium oxide thin films. <i>Journal of Applied Physics</i> , 2015 , 118, 165309	2.5	7
314	Microstructure and transport properties of epitaxial topological insulator Bi ₂ Se ₃ thin films grown on MgO (100), Cr ₂ O ₃ (0001), and Al ₂ O ₃ (0001) templates. <i>Journal of Applied Physics</i> , 2015 , 118, 125309	2.5	11
313	Novel phase of carbon, ferromagnetism, and conversion into diamond. <i>Journal of Applied Physics</i> , 2015 , 118, 215303	2.5	106
312	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
311	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

310	Tunable electronic structure in dilute magnetic semiconductor Sr ₃ SnO/c-YSZ/Si (001) epitaxial heterostructures. <i>Journal of Applied Physics</i> , 2014 , 116, 164903	2.5	11
309	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
308	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
307	Macroscopic Twinning Strain in Nanocrystalline Cu. <i>Materials Research Letters</i> , 2014 , 2, 63-69	7.4	24
306	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
305	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
304	Epitaxial integration of dilute magnetic semiconductor Sr ₃ SnO with Si (001). <i>Applied Physics Letters</i> , 2013 , 103, 112101	3.4	29
303	Grain size effect on twin density in as-deposited nanocrystalline Cu film. <i>Philosophical Magazine</i> , 2013 , 93, 4355-4363	1.6	12
302	Grain size effect on deformation twinning and detwinning. <i>Journal of Materials Science</i> , 2013 , 48, 4467-4475	4.5	104
301	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
300	Field-assisted selective-melt sintering: a novel approach to high-density ceramics. <i>MRS Communications</i> , 2013 , 3, 139-143	2.7	1
299	Role of substrate crystallographic characteristics on structure and properties of rutile TiO ₂ epilayers. <i>Journal of Applied Physics</i> , 2013 , 114, 044314	2.5	7
298	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
297	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
296	Epitaxial VO ₂ /Cr ₂ O ₃ /sapphire heterostructure for multifunctional applications. <i>Applied Physics Letters</i> , 2011 , 98, 022105	3.4	17
295	Intrinsic Room-Temperature Ferromagnetic Properties of Ni-Doped ZnO Thin Films. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 3250-3254	2.3	3
294	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
293	Atomic structure of misfit dislocations in nonpolar ZnO/Al ₂ O ₃ heterostructures. <i>Applied Physics Letters</i> , 2010 , 97, 121914	3.4	12

292	Semiconductor-metal transition characteristics of VO ₂ thin films grown on c- and r-sapphire substrates. <i>Journal of Applied Physics</i> , 2010 , 107, 053514	2.5	108
291	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
290	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
289	Twinning partial multiplication at grain boundary in nanocrystalline fcc metals. <i>Applied Physics Letters</i> , 2009 , 95, 031909	3.4	83
288	MoO _x modified ZnGaO based transparent conducting oxides. <i>Journal of Applied Physics</i> , 2009 , 105, 053704	2.5	6
287	Semiconductor to metal transition characteristics of VO ₂ thin films grown epitaxially on Si (001). <i>Applied Physics Letters</i> , 2009 , 95, 111915	3.4	63
286	The synthesis and magnetic properties of a nanostructured Ni-MgO system. <i>Jom</i> , 2009 , 61, 76-81	2.1	7
285	Defect dependent ferromagnetism in MgO doped with Ni and Co. <i>Applied Physics Letters</i> , 2008 , 93, 082507	3.4	37
284	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
283	Deformation twin formed by self-thickening, cross-slip mechanism in nanocrystalline Ni. <i>Applied Physics Letters</i> , 2008 , 93, 031910	3.4	26
282	Growth of biepitaxial zinc oxide thin films on silicon (100) using yttria-stabilized zirconia buffer layer. <i>Applied Physics Letters</i> , 2008 , 93, 251905	3.4	14
281	Structure-magnetic property correlations in the epitaxial FePt system. <i>Applied Physics Letters</i> , 2008 , 92, 102504	3.4	39
280	Epitaxial growth and magnetic properties of La _{0.7} Sr _{0.3} MnO ₃ films on (0001) sapphire. <i>Applied Physics Letters</i> , 2007 , 90, 101903	3.4	13
279	Anisotropic magnetic properties in [110] oriented epitaxial La _{0.7} Sr _{0.3} MnO ₃ films on (0001) sapphire. <i>Journal of Applied Physics</i> , 2007 , 102, 013527	2.5	4
278	Nanostructured GaN nucleation layer for light-emitting diodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2719-25	1.3	4
277	Structural, magnetic, and electron transport studies on nanocrystalline layered manganite La _{1.2} Ba _{1.8} Mn ₂ O ₇ system. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 965-9	1.3	8
276	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
275	Epitaxial ZnO/Pt layered structures and ZnO-Pt nanodot composites on sapphire (0001). <i>Journal of Electronic Materials</i> , 2006 , 35, 840-845	1.9	4

274	Metallic conductivity and metal-semiconductor transition in Ga-doped ZnO. <i>Applied Physics Letters</i> , 2006 , 88, 032106	3.4	229
273	Electrical properties of transparent and conducting Ga doped ZnO. <i>Journal of Applied Physics</i> , 2006 , 100, 033713	2.5	239
272	Microstructure and electrical property correlations in Ga:ZnO transparent conducting thin films. <i>Journal of Applied Physics</i> , 2006 , 100, 093519	2.5	43
271	Transmission electron microscopy observations on the microstructure of naturally aged AlMgSi alloy AA6022 processed with an electric field. <i>Journal of Materials Science</i> , 2006 , 41, 7555-7561	4.3	7
270	Enhanced photoconductivity of ZnO films Co-doped with nitrogen and tellurium. <i>Applied Physics Letters</i> , 2005 , 86, 211918	3.4	64
269	Effect of UV/VUV enhanced RTP on process variation and device performance of metal gate/high- κ /gate stacks for the sub-90-nm CMOS regime. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2005 , 18, 55-62	2.6	2
268	Epitaxial growth and properties of MoOx(2). <i>Journal of Applied Physics</i> , 2005 , 97, 083539	2.5	119
267	Novel methods of forming self-assembled nanostructured materials: Ni nanodots in Al ₂ O ₃ and TiN matrices. <i>Journal of Nanoscience and Nanotechnology</i> , 2004 , 4, 726-32	1.3	10
266	Epitaxial GaN on Si(111): Process control of SiNx interlayer formation. <i>Applied Physics Letters</i> , 2004 , 85, 133-135	3.4	22
265	Origin of room-temperature ferromagnetism in cobalt-doped ZnO. <i>Journal of Electronic Materials</i> , 2004 , 33, 1298-1302	1.9	17
264	TaN-TiN binary alloys and superlattices as diffusion barriers for copper interconnections. <i>Journal of Electronic Materials</i> , 2004 , 33, L5-L5	1.9	3
263	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
262	Growth, characterization, and electrical properties of PbZr _{0.52} Ti _{0.48} O ₃ thin films on buffered silicon substrates using pulsed laser deposition. <i>Journal of Materials Research</i> , 2003 , 18, 111-114	2.5	11
261	TaN-TiN binary alloys and superlattices as diffusion barriers for copper interconnects. <i>Journal of Electronic Materials</i> , 2003 , 32, 994-999	1.9	9
260	Domain epitaxy: A unified paradigm for thin film growth. <i>Journal of Applied Physics</i> , 2003 , 93, 278-285	2.5	465
259	Rectifying electrical characteristics of La _{0.7} Sr _{0.3} MnO ₃ /ZnO heterostructure. <i>Applied Physics Letters</i> , 2003 , 83, 1773-1775	3.4	83
258	Growth and characteristics of TaN/TiN superlattice structures. <i>Applied Physics Letters</i> , 2003 , 83, 3072-3074	3.4	13
257	Effect of microstructure on diffusion of copper in TiN films. <i>Journal of Applied Physics</i> , 2003 , 93, 5210-5214	3.4	28

256	Growth of epitaxial ZnO films on Si(111). <i>Materials Research Society Symposia Proceedings</i> , 2002 , 722, 1071		3
255	Z-Contrast Imaging of Dislocation Cores at the Si/GaAs Interface. <i>Microscopy and Microanalysis</i> , 2002 , 8, 1604-1605	0.5	
254	Structure and Properties of Nanocrystalline Zinc Films. <i>Journal of Nanoparticle Research</i> , 2002 , 4, 265-269.	3	12
253	Growth of epitaxial NdNiO ₃ and integration with Si(100). <i>Applied Physics Letters</i> , 2002 , 80, 1337-1339	3.4	11
252	Z-contrast imaging of dislocation cores at the GaAs/Si interface. <i>Applied Physics Letters</i> , 2002 , 81, 2728-2730	3.4	38
251	Strain-induced tuning of metal-insulator transition in NdNiO ₃ . <i>Applied Physics Letters</i> , 2002 , 80, 4039-4041.	3.4	67
250	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
249	Copper diffusion characteristics in single-crystal and polycrystalline TaN. <i>Applied Physics Letters</i> , 2002 , 81, 1453-1455	3.4	38
248	Epitaxial growth of ZnO films on Si(111). <i>Journal of Materials Research</i> , 2002 , 17, 2480-2483	2.5	47
247	WEAK-LOCALIZATION EFFECT IN SINGLE CRYSTAL TaN(001) FILMS. <i>Modern Physics Letters B</i> , 2002 , 16, 1143-1149	1.6	4
246	Improved magnetic properties of self-assembled epitaxial nickel nanocrystallites in thin-film ceramic matrix. <i>Journal of Materials Research</i> , 2002 , 17, 738-742	2.5	10
245	Effect of Thickness Variation in High-Efficiency Ingan/Gan Light Emitting Diodes. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 743, L6.22.1		
244	Single Crystal TaN Thin Films on TiN/Si Heterostructure. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 716, 881		
243	Studies on Epitaxial Relationship and Interface Structure of AlN/Si(111) and GaN/Si(111) Heterostructures. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 743, L3.24.1		
242	Structural, optical and electrical properties of the novel semiconductor alloy ZnO _x Te(1-x). <i>Materials Research Society Symposia Proceedings</i> , 2002 , 744, 1		
241	The Growth and Characterization of Zinc Oxide Thin Film on Fused Silica and SiO ₂ /Si(100) Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 744, 1		
240	Copper Diffusion Characteristics in Single Crystal and Polycrystalline TaN. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 745, 6111		
239	Novel Nanostructured Metal and Ceramic Composites. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 750, 1		

238	Growth of TiN/AlN Superlattice by Pulsed Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 750, 1		1
237	Epitaxial Growth of Magnetic Nickel Nanodots by Pulsed Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 755, 1		2
236	Mechanism for grain size softening in nanocrystalline Zn. <i>Applied Physics Letters</i> , 2002 , 81, 2241-2243	3.4	59
235	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
234	Self-Aligned Passivated Copper Interconnects: A Novel Technique for Making Interconnections in Ultra Large Scale Integration Device Applications. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 716, 811		
233	Mechanical properties of nanocrystalline and epitaxial TiN films on (100) silicon. <i>Journal of Materials Research</i> , 2001 , 16, 2733-2738	2.5	33
232	Effect of chamber pressure and atmosphere on the microstructure and nanomechanical properties of amorphous carbon films prepared by pulsed laser deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 311-316	2.9	14
231	Structural and magnetoresistance properties of La _{2/3} Ca _{1/3} MnO ₃ thin films on buffered silicon substrates. <i>Applied Physics Letters</i> , 2001 , 78, 1098-1100	3.4	14
230	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
229	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
228	Colossal magnetoresistive and ferroelectric thin films deposited by excimer laser induced plasma. <i>Science and Technology of Advanced Materials</i> , 2001 , 2, 525-531	7.1	2
227	Self-assembled epitaxial and polycrystalline magnetic nickel nanocrystallites. <i>Applied Physics Letters</i> , 2001 , 79, 2817-2819	3.4	40
226	Hydrogen Free, High sp ³ Content DLC Films Produced by Pulsed Laser Ablation of Amorphous Graphite. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 697, 5111		
225	Tunable Magnetic Properties in Metal Ceramic Composite Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 676, 3171		
224	Pulsed Laser Deposition and Characterization of Zn _{1-x} Mn _x O Films. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 692, 1		
223	Nickel Nanocomposite Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 703, 1		1
222	Microstructure and Nanomechanical Properties of Amorphous Carbon Thin Films Prepared by Pulsed Laser Deposition in Various Atmospheres. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 616, 217		
221	Novel Nanocrystalline Materials by Pulsed Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 617, 1		3

220	Optical and Structural Characteristics of Gold Nanocrystallites Embedded in a Dielectric Matrix. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 617, 271		4
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