

Yao-Gen Shen

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#	Paper	IF	Citations
151	XPS study for reactively sputtered titanium nitride thin films deposited under different substrate bias. <i>Physica B: Condensed Matter</i> , 2004 , 352, 118-126	2.8	100
150	Effect of deposition conditions on mechanical stresses and microstructure of sputter-deposited molybdenum and reactively sputter-deposited molybdenum nitride films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 359, 158-167	5.3	82
149	Recent advances on understanding the origin of superhardness in nanocomposite coatings: A critical review. <i>Journal of Materials Science</i> , 2006 , 41, 937-950	4.3	81
148	Nanocomposite TiSiN films deposited by reactive unbalanced magnetron sputtering at room temperature. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004 , 106, 163-171	3.1	81
147	Superhard nanocomposite TiAlSiN films deposited by reactive unbalanced magnetron sputtering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 135, 1-9	3.1	72
146	High performance WAlN cermet solar coatings designed by modelling calculations and deposited by DC magnetron sputtering. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 81, 25-37	6.4	72
145	Structural and mechanical properties of titaniumaluminumnitride films deposited by reactive close-field unbalanced magnetron sputtering. <i>Surface and Coatings Technology</i> , 2004 , 185, 245-253	4.4	67
144	Deformation behavior and mechanical properties of polycrystalline and single crystal alumina during nanoindentation. <i>Scripta Materialia</i> , 2011 , 65, 127-130	5.6	64
143	Hardening mechanisms of nanocrystalline TiAlN solid solution films. <i>Thin Solid Films</i> , 2004 , 468, 161-166	2.2	60
142	Nanoscale elastic-plastic deformation and stress distributions of the C plane of sapphire single crystal during nanoindentation. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 1865-1871	6	56
141	Atomic force microscopy study of surface roughening of sputter-deposited TiN thin films. <i>Journal of Applied Physics</i> , 2002 , 92, 3559-3563	2.5	56
140	Studies of surface composition and structure of Cu ₃ Pt(111) by low energy alkali ion scattering. <i>Surface Science</i> , 1995 , 328, 21-31	1.8	56
139	XPS, AFM and nanoindentation studies of Ti _{1-x} Al _x N films synthesized by reactive unbalanced magnetron sputtering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 100, 204-213	3.1	55
138	n-type conductivity and phase transition in ultrananocrystalline diamond films by oxygen ion implantation and annealing. <i>Journal of Applied Physics</i> , 2011 , 109, 053524	2.5	50
137	Microstructure, mechanical properties, and oxidation resistance of nanocomposite TiSiN coatings. <i>Applied Surface Science</i> , 2006 , 252, 6141-6153	6.7	48
136	Nano-structured CrN/CN _x multilayer films deposited by magnetron sputtering. <i>Composites Science and Technology</i> , 2008 , 68, 2922-2929	8.6	47
135	Microstructure, surface morphology, and mechanical properties of nanocrystalline TiN/amorphous Si ₃ N ₄ composite films synthesized by ion beam assisted deposition. <i>Journal of Applied Physics</i> , 2004 , 95, 1460-1467	2.5	47

134	Mechanical and tribological properties of titanium-aluminium-nitride films deposited by reactive close-field unbalanced magnetron sputtering. <i>Wear</i> , 2004 , 257, 1030-1040	3.5	46
133	Substrate bias effects on mechanical and tribological properties of substitutional solid solution (Ti, Al)N films prepared by reactive magnetron sputtering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 131, 62-71	3.1	44
132	X-Ray photoelectron spectroscopy characterization of reactively sputtered TiBN thin films. <i>Surface and Coatings Technology</i> , 2004 , 187, 98-105	4.4	42
131	Phosphorus ion implantation and annealing induced n-type conductivity and microstructure evolution in ultrananocrystalline diamond films. <i>Applied Physics Letters</i> , 2011 , 99, 131902	3.4	40
130	Nanoindentation-induced elastic-plastic transition and size effect in α -Al ₂ O ₃ (0001). <i>Philosophical Magazine Letters</i> , 2007 , 87, 409-415	1	40
129	Influence of microstructures on mechanical behaviours of SiC nanowires: a molecular dynamics study. <i>Nanotechnology</i> , 2012 , 23, 025703	3.4	39
128	The role of the electronic structure in charge exchange between low energy ions and surfaces. <i>Surface Science</i> , 1988 , 197, 277-294	1.8	39
127	A comparative study of mechanical and microstructural characteristics of aluminium and titanium undergoing ultrasonic assisted compression testing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 376-388	5.3	37
126	Effects of amorphous matrix on the grain growth kinetics in two-phase nanostructured films: a Monte Carlo study. <i>Acta Materialia</i> , 2004 , 52, 729-736	8.4	37
125	Structural properties and nitrogen-loss characteristics in sputtered tungsten nitride films. <i>Thin Solid Films</i> , 2000 , 372, 257-264	2.2	37
124	Nanoindentation Study of Pop-in Phenomenon Characteristics and Mechanical Properties of Sapphire (102) Crystal. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3605-3612	3.8	30
123	Mechanical and tribological properties of nanostructured TiN/TiBN multilayer films. <i>Wear</i> , 2008 , 265, 516-524	3.5	29
122	Mechanical and tribological properties of multicomponent TiBN thin films with varied C contents. <i>Surface and Coatings Technology</i> , 2010 , 204, 1528-1534	4.4	26
121	First-principles calculations for the elastic properties of nanostructured superhard TiNSixNy superlattices. <i>Applied Physics Letters</i> , 2007 , 91, 081916	3.4	25
120	Thin film growth of Pt on Cu(111): a LEIS study. <i>Surface Science</i> , 1996 , 357-358, 921-925	1.8	25
119	The oxidization behavior and mechanical properties of ultrananocrystalline diamond films at high temperature annealing. <i>Applied Surface Science</i> , 2014 , 317, 11-18	6.7	24
118	Optimum information in crackling noise. <i>Physical Review E</i> , 2005 , 72, 027101	2.4	24
117	Monte Carlo simulation of nanocrystalline TiN/amorphous SiNx composite films. <i>Journal of Applied Physics</i> , 2004 , 95, 758-760	2.5	23

116	Structural studies of amorphous and crystallized tungsten nitride thin films by EFED, XRD and TEM. <i>Applied Surface Science</i> , 2000 , 167, 59-68	6.7	23
115	Investigation of nanostructure evolution and twinning of nanocrystallites in TiB _x N _{1-y} nanocomposite thin films deposited by magnetron sputtering at low temperature by means of HRTEM and Monte Carlo simulations. <i>Acta Materialia</i> , 2006 , 54, 2897-2905	8.4	22
114	Synthesis and characterization of CN _x /TiN multilayers on Si(100) substrates. <i>Surface and Coatings Technology</i> , 2005 , 200, 2293-2300	4.4	22
113	Characterization of sputter deposited WBiN coatings based on $\sqrt{3}\sqrt{3}$ structure. <i>Materials Letters</i> , 2005 , 59, 618-623	3.3	22
112	A bifurcation-based decohesion model for simulating the transition from localization to decohesion with the MPM. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2005 , 56, 908-930	1.6	22
111	Phase stability, electronic structures, and superconductivity properties of the BaPb _{1-x} Bi _x O ₃ and Ba _{1-x} K _x BiO ₃ perovskites. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1221-1230	3.8	21
110	Effects of B content and wear parameters on dry sliding wear behaviors of nanocomposite TiBN thin films. <i>Wear</i> , 2007 , 262, 1372-1379	3.5	21
109	Structure, stress and hardness of sputter deposited nanocomposite W-Si-N coatings. <i>Surface and Coatings Technology</i> , 2005 , 200, 2525-2530	4.4	21
108	Compositional phase diagram and microscopic mechanism of BaCaZrTiO relaxor ferroelectrics. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 22190-22196	3.6	20
107	Structure, Phase Transition, and Electronic Properties of K _{1-x} NaxNbO ₃ Solid Solutions from First-Principles Theory. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 4019-4023	3.8	20
106	Oscillating growth of surface roughness in multilayer films. <i>Applied Physics Letters</i> , 2004 , 84, 5121-5123	3.4	20
105	Effect of heat treatment on deformation and mechanical properties of 8 mol% yttria-stabilized zirconia by Berkovich nanoindentation. <i>Applied Surface Science</i> , 2015 , 338, 92-98	6.7	19
104	Improvement of high-speed turning performance of TiAlN coatings by using a pretreatment of high-energy ion implantation. <i>Surface and Coatings Technology</i> , 2005 , 198, 414-419	4.4	19
103	SiV center photoluminescence induced by C=O termination in nanocrystalline diamond and graphite loops hybridized films. <i>Journal of Applied Physics</i> , 2016 , 120, 225107	2.5	19
102	Sol-gel derived Ag-containing TiO ₂ films on surface roughened biomedical NiTi alloy. <i>Ceramics International</i> , 2014 , 40, 12423-12429	5.1	18
101	Zr ₂ ZrO ₂ cermet solar coatings designed by modelling calculations and deposited by dc magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 723-729	3	18
100	CO adsorption on Cu ₃ Pt(111): a LEIS study. <i>Surface Science</i> , 1995 , 331-333, 746-752	1.8	18
99	Sol-gel preparation and properties of Ag ₃ TiO ₂ films on surface roughened Ti ₃ Al ₂ V alloy. <i>Materials Science and Technology</i> , 2015 , 31, 501-505	1.5	17

98	Dissociative scattering of molecular BF ₃ ⁺ and BF ₃ ²⁺ ions from Au surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 73, 35-40	1.2	17
97	Neutralisation in low energy ion scattering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1988 , 33, 446-450	1.2	17
96	Influence of deposition conditions on mechanical and tribological properties of nanostructured TiN/CN _x multilayer films. <i>Surface and Coatings Technology</i> , 2009 , 203, 967-975	4.4	16
95	Effect of nitrogen content on phase configuration, nanostructure and mechanical behaviors in magnetron sputtered SiC _x N _y thin films. <i>Applied Surface Science</i> , 2010 , 256, 1955-1960	6.7	16
94	Au-segregated dealloying and Pd-induced clock reconstructing of Cu(001). <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 4903-4918	1.8	16
93	Nanostructure transition: From solid solution Ti(N,C) to nanocomposite nc-Ti(N,C)/p-(C,CN _x). <i>Applied Physics Letters</i> , 2007 , 90, 221913	3.4	16
92	Surface evolution and dynamic scaling of sputter-deposited Al thin films on Ti(1 0 0) substrates. <i>Applied Surface Science</i> , 2004 , 226, 371-377	6.7	16
91	Phase transformations of nano-sized cubic boron nitride to white graphene and white graphite. <i>Applied Physics Letters</i> , 2014 , 104, 093104	3.4	15
90	Ab initio atomistic thermodynamics study on the oxidation mechanism of binary and ternary alloy surfaces. <i>Journal of Chemical Physics</i> , 2015 , 142, 064705	3.9	15
89	Behavior of Ti _{0.5} Al _{0.5} N thin film in nanoscale deformation with different loading rates. <i>Thin Solid Films</i> , 2008 , 516, 7641-7647	2.2	15
88	Surface growth and anomalous scaling of sputter-deposited Al films. <i>Physica B: Condensed Matter</i> , 2008 , 403, 2306-2311	2.8	15
87	Effects of B content on microstructure and mechanical properties of nanocomposite TiB _x N _y thin films. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 449		15
86	Structure and properties of stacking faulted Al ₁₅ tungsten thin films 2001 , 36, 93-98		15
85	Effects of nitrogen content on nanostructure evolution, mechanical behaviors and thermal stability in TiB _x N _y thin films. <i>Surface and Coatings Technology</i> , 2006 , 201, 1228-1235	4.4	14
84	Reactively sputter-deposited MoO _x N _y thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 95, 222-229	3.1	14
83	Temperature effect on surface roughening of thin films. <i>Surface Science</i> , 2005 , 595, 20-29	1.8	14
82	Initial growth of ultrathin Pd films on Cu(001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1995 , 13, 1443-1447	2.9	14
81	Composition- and Pressure-Induced Relaxor Ferroelectrics: First-Principles Calculations and Landau-Devonshire Theory. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3336-3342	3.8	14

80	Structure and hardness of unbalanced magnetron sputtered TiB _x N _y thin films deposited at 500 °C. <i>Surface and Coatings Technology</i> , 2007 , 201, 7368-7374	4.4	13
79	Effects of nitrogen content on microstructure and oxidation behaviors of TiB _x N _y nanocomposite thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 340-349	2.9	13
78	Roughening kinetics of reactively sputter-deposited Ti-Al-N films on Si(100). <i>Philosophical Magazine Letters</i> , 2003 , 83, 627-634	1	13
77	Structural properties of sputter-deposited CN _x /TiN multilayer films. <i>Thin Solid Films</i> , 2005 , 479, 31-37	2.2	13
76	Formation of Ni(100)/Al surface alloy. <i>Surface Science</i> , 1996 , 357-358, 202-207	1.8	13
75	A search for clock reconstruction in fcc (001) surfaces induced by monolayer metal films: , and Pd/Pt/Cu(001). <i>Solid State Communications</i> , 1996 , 100, 21-26	1.6	13
74	Deformation-induced phase transformation in 4H-SiC nanopillars. <i>Acta Materialia</i> , 2014 , 80, 392-399	8.4	12
73	Stress-induced surface damages in TiSi ₂ films grown by magnetron sputtering. <i>Thin Solid Films</i> , 2008 , 516, 7609-7614	2.2	12
72	Roughening kinetics of thin films in the presence of both stress and Ehrlich-Schwobel barrier. <i>Applied Physics Letters</i> , 2003 , 83, 5404-5406	3.4	12
71	Structural, mechanical and tribological properties of nanostructured CN _x /TiN multilayers. <i>Tribology International</i> , 2009 , 42, 798-806	4.9	11
70	Structural and mechanical properties of titanium and titanium diboride monolayers and Ti/TiB ₂ multilayers. <i>Thin Solid Films</i> , 2008 , 516, 5313-5317	2.2	11
69	The growth of thin Cu films on an O-precovered Ru(0001) surface studied by low energy ion beams. <i>Thin Solid Films</i> , 1995 , 263, 72-78	2.2	11
68	Effects of oxygen vacancies on polarization stability of barium titanate. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016 , 59, 1	3.6	10
67	Elasto-plastic characteristics and mechanical properties of as-sprayed 8mol% yttria-stabilized zirconia coating under nano-scales measured by nanoindentation. <i>Applied Surface Science</i> , 2014 , 309, 271-277	6.7	10
66	Effect of N content on phase configuration, nanostructure and mechanical behaviors in TiC _x N _y thin films. <i>Applied Surface Science</i> , 2009 , 255, 7858-7863	6.7	10
65	The role of interfacial strain in the surface p4g reconstruction: a comparison between and. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 8345-8358	1.8	10
64	Dependence of phase composition on dry sliding behaviour in nanocomposite TiB _x N _y thin films. <i>Materials Science and Technology</i> , 2007 , 23, 1243-1248	1.5	10
63	Linear surface smoothening of (Ti _{0.48} Al _{0.52})N thin films grown on rough substrates. <i>Applied Physics Letters</i> , 2005 , 86, 251908	3.4	10

62	Effect of B content on nanostructure evolution and twinning deformation of nanocrystallite in nc-Ti(N,B)/TiB ₂ /BN nanocomposite thin films. <i>Applied Physics Letters</i> , 2005 , 87, 151902	3.4	10
61	Surface composition and ordering of Cu ₃ Pt(111). <i>Solid State Communications</i> , 1995 , 96, 557-562	1.6	10
60	Understanding large plastic deformation of SiC nanowires at room temperature. <i>Europhysics Letters</i> , 2011 , 95, 63003	1.6	9
59	Theoretical analysis of Hertzian contact fracture: Ring crack. <i>Engineering Fracture Mechanics</i> , 2008 , 75, 4247-4256	4.2	9
58	Phase configuration, nanostructure evolution, and mechanical properties of unbalanced magnetron-sputtered Ti-Cx-Ny thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007 , 25, 1539-1546	2.9	9
57	Nanostructure evolution and properties of two-phase nc-Ti(C, N)/a-(C, CNx) nanocomposites by high-resolution transmission electron microscopy, x-ray photoelectron spectroscopy, and Raman spectroscopy. <i>Journal of Materials Research</i> , 2007 , 22, 2460-2469	2.5	9
56	Nanostructured two-phase nc-TiN/a-(TiB ₂ , BN) nanocomposite thin films. <i>Applied Surface Science</i> , 2006 , 253, 1631-1638	6.7	9
55	Structural study of the growth of thin Cu films on Ru(0001) by low-energy alkali ion scattering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1995 , 13, 1478-1483	2.9	9
54	Oxygen structure on Ni(100) using low energy Li ⁺ , negative recoil and H ⁺ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 66, 441-452	1.2	9
53	Sol-gel preparation and properties of Ag-containing bioactive glass films on titanium. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 1117-1124	2	8
52	Materials can be strengthened by nanoscale stacking faults. <i>Europhysics Letters</i> , 2015 , 110, 36002	1.6	8
51	Effect of oxidation temperature on microstructure, mechanical behaviors and surface morphology of nanocomposite TiO _x /Ny thin films. <i>Applied Surface Science</i> , 2011 , 257, 2769-2774	6.7	8
50	Microstructure evolution and grain growth of nanocomposite TiN/TiB ₂ films: experiment and simulation. <i>Surface and Coatings Technology</i> , 2006 , 200, 6474-6478	4.4	8
49	Surface growth of (Ti,Al)N thin films on smooth and rough substrates. <i>Thin Solid Films</i> , 2006 , 496, 326-332	2	8
48	Surface morphology of sputter deposited WSi ₂ /TiN composite coatings characterized by atomic force microscopy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 123, 158-162	3.1	8
47	Oxygen adsorption and oxide growth on Ni ₃ Al single crystal surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 67, 350-354	1.2	8
46	The scattering of low energy hydrogen ions from surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 78, 56-62	1.2	8
45	The effect of interface adhesion on buckling and cracking of hard thin films. <i>Applied Physics Letters</i> , 2014 , 105, 161912	3.4	7

44	Self-healing in fractured GaAs nanowires. <i>Acta Materialia</i> , 2012 , 60, 5593-5600	8.4	7
43	Mechanical and tribological characterisation of nanostructured Ti/TiB ₂ multilayer films. <i>Surface Engineering</i> , 2008 , 24, 402-409	2.6	7
42	Carbon nitride based hard multilayer films prepared by closed field unbalanced magnetron sputtering. <i>Surface Engineering</i> , 2006 , 22, 15-25	2.6	7
41	Refractive Index Controlled Plasmon Tuning of Au Nanoparticles in SiO ₂ -ZrO ₂ Film Matrices. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3868-3876	1.3	6
40	Log-normal nanograin-size distributions in nanostructured composites. <i>Philosophical Magazine Letters</i> , 2008 , 88, 829-836	1	6
39	Thermal stability of sputter deposited nanocrystalline W ₂ N/amorphous Si ₃ N ₄ coatings. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 2094-2099	2.9	6
38	Effects of Al content on grain growth of solid solution (Ti,Al)N films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 174-177	2.9	6
37	Short-pulse laser formation of monatomic metallic glass in tantalum nanowire. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	5
36	Effect of the hot electron blast force on ultrafast laser ablation of nickel thin film. <i>Applied Optics</i> , 2015 , 54, 1737	1.7	5
35	The structural properties of B _D codoped diamond films. <i>Diamond and Related Materials</i> , 2009 , 18, 210-215	3.5	5
34	Combined ion scattering, electron diffraction and work function change study on growth, alloying and initial oxygen adsorption of ultrathin Al films in Pd(001). <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 9459-9467	1.8	5
33	An investigation on the onset of plastic deformation of nanocrystalline solid solution TiAlN films. <i>Engineering Fracture Mechanics</i> , 2008 , 75, 4978-4984	4.2	5
32	Crystallization-induced stress in reactively sputter-deposited molybdenum nitride thin films. <i>Philosophical Magazine Letters</i> , 2003 , 83, 125-133	1	5
31	Size-dependent brittle-to-ductile transition in GaAs nano-rods. <i>Engineering Fracture Mechanics</i> , 2015 , 150, 135-142	4.2	4
30	The grain refining effect of energy competition and the amorphous phase in nanocomposite materials. <i>Scripta Materialia</i> , 2013 , 69, 662-665	5.6	4
29	Grain growth in nanocomposite TiB ₂ films during deposition: The effect of amorphous phase precipitation. <i>Journal of Materials Research</i> , 2006 , 21, 82-87	2.5	4
28	Temporary negative ion formation in interactions of low-energy inert gas ions (He ⁺ , Ne ⁺) with Cs-adsorbed Cu(111) surfaces. <i>Surface Science</i> , 1995 , 341, 19-28	1.8	4
27	Self-healing of fractured one-dimensional brittle nanostructures. <i>Europhysics Letters</i> , 2012 , 98, 16010	1.6	3

26	Electron relaxation effect on the sub-100-fs laser interaction with gold thin film. <i>Optics Letters</i> , 2013 , 38, 2397-400	3	3
25	Effect of nitrogen content on nanostructure and mechanical properties of TiCxNy thin films. <i>Surface Engineering</i> , 2011 , 27, 169-173	2.6	3
24	The roles of grain boundary and interfacial energies in the grain growth of nanocomposite films. <i>Applied Physics Letters</i> , 2009 , 94, 093111	3.4	3
23	Mechanisms of amorphous-phase-dependent grain growth in two-phase nanocomposite films: A Monte Carlo analysis. <i>Applied Physics Letters</i> , 2008 , 92, 021910	3.4	3
22	Determination of Effective Nanoindentation Range for Hard (Ti,Al)N Thin Film. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 6411-6416	1.4	3
21	Relationship between composition, bonding constitution and microstructure in unbalanced magnetron sputtered TiB ₂ N thin films. <i>Surface Engineering</i> , 2007 , 23, 307-312	2.6	3
20	Nanostructural C _{0.5} AlN thin films studied by x-ray photoelectron spectroscopy, Raman and high-resolution transmission electron microscopy. <i>Journal of Materials Research</i> , 2009 , 24, 3321-3330	2.5	2
19	Al-induced fullerene-like nanostructures in C _{0.5} AlN thin films. <i>Materials Letters</i> , 2009 , 63, 2479-2482	3.3	2
18	The grain size distribution in nanocomposite films. <i>Solid State Communications</i> , 2009 , 149, 903-907	1.6	2
17	Phase configuration, nanostructure, and mechanical behaviors in Ti-B-C-N thin films. <i>Journal of Materials Research</i> , 2009 , 24, 2520-2527	2.5	2
16	Effect of B content on thermal stability of nanocomposite TiB ₂ N thin films. <i>Materials Science and Technology</i> , 2006 , 22, 1255-1260	1.5	2
15	Atomic force microscopy study of growth kinetics: Scaling in TiN _{0.5} iB ₂ nanocomposite films on Si(1 0 0). <i>Applied Surface Science</i> , 2006 , 252, 8091-8095	6.7	2
14	Temperature-dependent morphology evolution of the submonolayer clusters grown on fcc metal (110) surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005 , 23, 177-183 ^{2,9}	2.9	2
13	Nanoscale elastic-plastic deformation and mechanical properties of 3C-SiC thin film using nanoindentation. <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 706-717	2	2
12	Elastic-plastic deformation behavior of sapphire M-plane under static loading using nano-indentation. <i>Ceramics International</i> , 2021 , 47, 23528-23538	5.1	2
11	Reduction of the effect of electron relaxation behavior on the femtosecond laser-induced response of copper thin film by ballistic energy transfer. <i>International Journal of Thermal Sciences</i> , 2015 , 93, 21-28 ^{4,1}	4.1	1
10	Interface structure of sputter deposited CN _x film on silicon substrate. <i>Materials Letters</i> , 2008 , 62, 2685-2687	3.9	1
9	Effect of carbon content on thermal stability of TiCxNy thin films. <i>Journal of Materials Research</i> , 2008 , 23, 671-678	2.5	1

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7 Enhancement of thermal stability by microstructural refinement in nanocomposite materials. *Scripta Materialia*, **2014**, 87, 33-36 5.6

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