Jia-hong Huang

List of Publications by Year in descending order

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101 3,064 32 papers citations h-index

106 106 2137 all docs docs citations times ranked citing authors

182427

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#	Article	IF	CITATIONS
1	Residual stress measurement in textured thin film by grazing-incidence X-ray diffraction. Thin Solid Films, 2002, 418, 73-78.	1.8	236
2	Mechanical properties of TiN thin film coatings on 304 stainless steel substrates. Surface and Coatings Technology, 2002, 149, 7-13.	4.8	197
3	Effect of nitrogen flow rate on structure and properties of nanocrystalline TiN thin films produced by unbalanced magnetron sputtering. Surface and Coatings Technology, 2005, 191, 17-24.	4.8	107
4	Hardness and residual stress in nanocrystalline ZrN films: Effect of bias voltage and heat treatment. Materials Science & Description A: Structural Materials: Properties, Microstructure and Processing, 2009, 500, 104-108.	5.6	105
5	In situ observation of the cracking behavior of TiN coating on 304 stainless steel subjected to tensile strain. Thin Solid Films, 1999, 352, 173-178.	1.8	88
6	Nanohardness of nanocrystalline TiN thin films. Surface and Coatings Technology, 2006, 200, 3868-3875.	4.8	86
7	Corrosion resistance of ZrN films on AISI 304 stainless steel substrate. Surface and Coatings Technology, 2003, 167, 59-67.	4.8	82
8	Deposition of TiN thin films on Si(100) by HCD ion plating. Surface and Coatings Technology, 2001, 140, 206-214.	4.8	79
9	A tensile-film-cracking model for evaluating interfacial shear strength of elastic film on ductile substrate. Surface and Coatings Technology, 2000, 126, 91-95.	4.8	69
10	Aging embrittlement and lattice image analysis in a Fe-Cr-Ni duplex stainless steel aged at 400°C. Journal of Nuclear Materials, 1994, 217, 269-278.	2.7	64
11	Bias effect of ion-plated zirconium nitride film on Si(100). Thin Solid Films, 2002, 405, 162-169.	1.8	62
12	Corrosion behavior of TiN-coated 304 stainless steel. Corrosion Science, 2001, 43, 2023-2035.	6.6	60
13	Corrosion behavior and adhesion of ion-plated TiN films on AISI 304 steel. Materials Chemistry and Physics, 2000, 65, 310-315.	4.0	56
14	Effect of film thickness and Ti interlayer on the structure and properties of nanocrystalline TiN thin films on AISI D2 steel. Surface and Coatings Technology, 2007, 201, 7043-7053.	4.8	54
15	Effect of nitrogen flow rate on the structure and mechanical properties of ZrN thin films on Si(100) and stainless steel substrates. Materials Chemistry and Physics, 2007, 102, 31-38.	4.0	54
16	Effect of hydrogen contents on the mechanical properties of Zircaloy-4. Journal of Nuclear Materials, 1994, 208, 166-179.	2.7	53
17	Microstructure and Hardness of Hollow Cathode Discharge Ion-Plated Titanium Nitride Film. Journal of Materials Engineering and Performance, 1998, 7, 324-328.	2.5	51
18	On the corrosion behavior of TiN-coated AISI D2 steel. Surface and Coatings Technology, 1999, 111, 16-21.	4.8	50

#	Article	IF	CITATIONS
19	A study of preferred orientation of vanadium nitride and zirconium nitride coatings on silicon prepared by ion beam assisted deposition. Surface and Coatings Technology, 2000, 133-134, 289-294.	4.8	50
20	Mechanical properties of ion-plated TiN films on AISI D2 steel. Surface and Coatings Technology, 1998, 110, 111-119.	4.8	48
21	Texture evolution of transition-metal nitride thin films by ion beam assisted deposition. Thin Solid Films, 2004, 446, 184-193.	1.8	44
22	Effect of Ti interlayer on the residual stress and texture development of TiN thin films. Surface and Coatings Technology, 2006, 200, 5937-5945.	4.8	44
23	Optimization of the deposition process of ZrN and TiN thin films on $Si(1\ 0\ 0)$ using design of experiment method. Materials Chemistry and Physics, 2003, 82, 228-236.	4.0	42
24	Effect of nitrogen flow rate on properties of nanostructured TiZrN thin films produced by radio frequency magnetron sputtering. Thin Solid Films, 2010, 518, 7308-7311.	1.8	42
25	Effect of substrate bias on the structure and properties of ion-plated ZrN on Si and stainless steel substrates. Materials Chemistry and Physics, 2003, 77, 14-21.	4.0	41
26	Effect of film thickness on the structure and properties of nanocrystalline ZrN thin films produced by ion plating. Surface and Coatings Technology, 2005, 195, 204-213.	4.8	40
27	Internal hydrogen-induced subcritical crack growth in austenitic stainless steels. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1991, 22, 2605-2618.	1.4	36
28	Effect of heat treatment on the structure and properties of ion-plated TiN films. Surface and Coatings Technology, 2003, 168, 43-50.	4.8	34
29	Heat treatment of nanocrystalline TiN films deposited by unbalanced magnetron sputtering. Surface and Coatings Technology, 2006, 200, 4291-4299.	4.8	34
30	Mechanical properties and corrosion resistance of nanocrystalline ZrNxOy coatings on AISI 304 stainless steel by ion plating. Surface and Coatings Technology, 2008, 202, 4992-5000.	4.8	34
31	Fracture toughness measurement on TiN hard coatings using internal energy induced cracking. Surface and Coatings Technology, 2014, 239, 20-27.	4.8	34
32	Effect of processing parameters on the microstructure and mechanical properties of TiN film on stainless steel by HCD ion plating. Thin Solid Films, 1999, 355-356, 440-445.	1.8	33
33	Role of process parameters in the texture evolution of TiN films deposited by hollow cathode discharge ion plating. Surface and Coatings Technology, 2001, 141, 156-163.	4.8	32
34	Synthesis and characterization of nanocrystalline ZrNxOy thin films on Si by ion plating. Surface and Coatings Technology, 2007, 201, 6404-6413.	4.8	32
35	The fracture and shear band formation in an Alî—¸Cuî—¸Liî—¸Mgî—¸Zr alloy. Acta Metallurgica, 1986, 34, 1657-1662	2.1	29
36	Effect of Ti interlayer on the residual stress and texture development of TiN thin films deposited by unbalanced magnetron sputtering. Surface and Coatings Technology, 2006, 201, 3199-3204.	4.8	28

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37	Microstructure and coating properties of ion-plated TiN on type 304 stainless steel. Thin Solid Films, 1998, 334, 125-132.	1.8	27
38	Microstructures, mechanical properties and oxidation behavior of vacuum annealed TiZrN thin films. Vacuum, 2015, 115, 12-18.	3.5	27
39	Effect of bias on the structure and properties of TiZrN thin films deposited by unbalanced magnetron sputtering. Thin Solid Films, 2016, 618, 13-20.	1.8	27
40	Oxidation behavior and corrosion resistance of vacuum annealed ZrN-coated stainless steel. Surface and Coatings Technology, 2019, 358, 308-319.	4.8	27
41	An Adaptive Receiver Design for OFDM Systems Using Conjugate Transmission. IEEE Transactions on Communications, 2013, 61, 599-608.	7.8	26
42	Determination of average X-ray strain (AXS) on TiN hard coatings using cos2αsin2Ï^ X-ray diffraction method. Surface and Coatings Technology, 2015, 262, 40-47.	4.8	26
43	Low-Voltage Operation of ZrO ₂ -Gated n-Type Thin-Film Transistors Based on a Channel Formed by Hybrid Phases of SnO and SnO ₂ . ACS Applied Materials & Diterfaces, 2015, 7, 15129-15137.	8.0	25
44	Cracking of duplex stainless steel due to dissolved hydrogen. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 1079-1085.	2.2	23
45	Residual stress measurement on TiN thin films by combing nanoindentation and average X-ray strain (AXS) method. Surface and Coatings Technology, 2015, 280, 43-49.	4.8	23
46	Determination of Young's modulus and Poisson's ratio of thin films by combining sin2Ï [^] X-ray diffraction and laser curvature methods. Thin Solid Films, 2009, 517, 6759-6766.	1.8	22
47	Texture evolution of vanadium nitride thin films. Thin Solid Films, 2019, 688, 137415.	1.8	22
48	Low energy ion beam assisted deposition of TiN thin films on silicon. Scripta Materialia, 2000, 42, 573-579.	5.2	21
49	Effect of Ti interlayer on mechanical properties of TiZrN coatings on D2 steel. Surface and Coatings Technology, 2018, 350, 745-754.	4.8	21
50	Phase transition and mechanical properties of ZrNxOy thin films on AISI 304 stainless steel. Surface and Coatings Technology, 2011, 206, 107-116.	4.8	20
51	Control of the corrosion resistance of TiN-coated AISI 304 stainless steel. Corrosion Science, 1997, 39, 893-899.	6.6	19
52	Microstructure and corrosion resistance of nanocrystalline TiZrN films on AISI 304 stainless steel substrate. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 774-778.	2.1	19
53	Effect of Ti interlayer thickness on mechanical properties and wear resistance of TiZrN coatings on AISI D2 steel. Surface and Coatings Technology, 2020, 394, 125690.	4.8	19
54	Hydriding of zirconium alloys in hydrogen gas. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 161, 247-253.	5.6	18

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55	Evaluation of fracture toughness of ZrN hard coatings by internal energy induced cracking method. Surface and Coatings Technology, 2014, 258, 211-218.	4.8	18
56	In situ characterization of fracture toughness and dynamics of nanocrystalline titanium nitride films. Journal of Materials Research, 2016, 31, 370-379.	2.6	18
57	Subcritical crack growth behavior for hydrided Zircaloy-4 plate. Materials Chemistry and Physics, 1997, 47, 184-192.	4.0	17
58	Comparison of electrochemical porosity test methods for TiN-coated stainless steel. Surface and Coatings Technology, 2002, 150, 309-318.	4.8	17
59	Structure evolution and mechanical properties of ZrNxOy thin film deposited on Si by magnetron sputtering. Surface and Coatings Technology, 2011, 205, 5093-5102.	4.8	16
60	Heat treatment induced phase separation and phase transformation of ZrNxOy thin films deposited by ion plating. Surface and Coatings Technology, 2009, 203, 3491-3500.	4.8	15
61	Measurement of residual stress on TiN/Ti bilayer thin films using average X-ray strain combined with laser curvature and nanoindentation methods. Materials Chemistry and Physics, 2017, 199, 185-192.	4.0	15
62	Effect of oxygen on fracture toughness of Zr(N,O) hard coatings. Surface and Coatings Technology, 2016, 304, 330-339.	4.8	14
63	Internal hydrogen embrittlement of a ferritic stainless steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 845-849.	2.2	13
64	Characterizing the effects of multiprocess parameters on the preferred orientation of TiN coating using a combined index. Vacuum, 2002, 66, 19-25.	3.5	13
65	The ductile-brittle transition of a zirconium alloy due to hydrogen. Scripta Metallurgica Et Materialia, 1993, 28, 1537-1542.	1.0	12
66	Effect of hydrogen gas on the mechanical properties of a zirconium alloy. Materials Chemistry and Physics, 1994, 38, 138-145.	4.0	12
67	Microstructure, chemistry and coating properties of ion-plated TiN on type 304 stainless steel. Materials Chemistry and Physics, 1997, 50, 248-255.	4.0	12
68	Strong asymmetric effect of lattice mismatch on epilayer structure in thin-film deposition. Physical Review B, 2009, 79, .	3.2	12
69	Growth of BiFeO3/SrTiO3 artificial superlattice structure by RF sputtering. Journal of Crystal Growth, 2011, 334, 90-95.	1.5	12
70	The structure and ferroelectric property of La-doped BiFeO3/SrTiO3 artificial superlattice structure by rf sputtering: Effect of deposition temperature. Thin Solid Films, 2013, 529, 85-88.	1.8	12
71	Evaluation of the fracture toughness of Ti1-xZrxN hard coatings: Effect of compositions. Surface and Coatings Technology, 2019, 358, 487-496.	4.8	12
72	Optimization of deposition processing of VN thin films using design of experiment and single-variable (nitrogen flow rate) methods. Materials Chemistry and Physics, 2019, 224, 246-256.	4.0	12

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73	Hydrogen-induced subcritical crack growth in Ti–6Al–4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 242, 96-107.	5.6	11
74	Ion beam assisted deposition of TiN thin film on Si (100). Materials Chemistry and Physics, 1999, 59, 49-56.	4.0	11
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91	Evidence for discontinuous crack growth in delayed hydride cracking of a zirconium alloy. Scripta Metallurgica Et Materialia, 1992, 27, 1247-1251.	1.0	4
92	Characterization of the ion-plated TiN on AISI 304 stainless steel by energy filtering transmission electron microscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 2318-2322.	2.1	4
93	Effect of coating architecture on stress and energy relief efficiency of TiZrN coating on Si substrate. Thin Solid Films, 2022, 751, 139219.	1.8	4
94	Phase transformations in ferrite phase of a duplex stainless steel aged at 500°C. Scripta Metallurgica Et Materialia, 1993, 29, 1451-1456.	1.0	3
95	An Improved Adaptive Receiver for OFDM Systems Using Conjugate Transmission. , 2011, , .		3
96	Evaluation of incipient oxidation behavior of ZrO2-Coated Zircaloy-4 by thermogravimetric analysis. Materials Chemistry and Physics, 2021, 262, 124317.	4.0	3
97	Nonvolatile Memory With TiN Nanocrystals Three-Dimensionally Embedded in \$hbox{Si}_{3}hbox{N}_{4}\$ Formed by Spinodal Phase Segregation. IEEE Electron Device Letters, 2009, 30, 617-619.	3.9	2
98	Highâ€Energy Xâ€Ray Diffraction Study of the Inhomogeneous Zr ₄₃ Cu ₄₃ Al ₇ Ag ₇ Bulkâ€Metallic Glasses. Advanced Engineering Materials, 2013, 15, 287-294.	3.5	2
99	Dynamic Strain Aging Behavior of Alloy 600 in a High Temperature Coolant Environment. Materials Transactions, 2015, 56, 1992-1999.	1.2	1
100	Reply to comment on "the ductile-brittle transition of a zirconium alloy due to hydrogen― Scripta Metallurgica Et Materialia, 1994, 30, 1239-1240.	1.0	0
101	Pinhole Enlargement during Electrochemical Porosity Measurement. Corrosion, 2002, 58, 846-848.	1.1	O