

Vincent Ji

List of Publications by Year in descending order

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310
papers

5,737
citations

81743

39
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143772

57
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311
all docs

311
docs citations

311
times ranked

4775
citing authors

#	ARTICLE	IF	CITATIONS
1	A first-principles study on gas sensing properties of graphene and Pd-doped graphene. Applied Surface Science, 2015, 343, 121-127.	3.1	217
2	General compliance transformation relation and applications for anisotropic hexagonal metals. Solid State Communications, 2006, 139, 87-91.	0.9	153
3	Atomic-scale investigation of the interface precipitation in a TiB ₂ nanoparticles reinforced Al-Zn-Mg-Cu matrix composite. Acta Materialia, 2020, 185, 287-299.	3.8	148
4	Finite element analysis of laser shock peening of 2050-T8 aluminum alloy. International Journal of Fatigue, 2015, 70, 480-489.	2.8	128
5	Improving SO ₂ gas sensing properties of graphene by introducing dopant and defect: A first-principles study. Applied Surface Science, 2014, 313, 405-410.	3.1	102
6	Electronic and magnetic properties of pristine and chemically functionalized germanene nanoribbons. Nanoscale, 2011, 3, 4330.	2.8	93
7	Quantitative study of particle size distribution in an in-situ grown Al-TiB ₂ composite by synchrotron X-ray diffraction and electron microscopy. Materials Characterization, 2015, 102, 131-136.	1.9	82
8	Young's modulus surface and Poisson's ratio curve for cubic metals. Journal of Physics and Chemistry of Solids, 2007, 68, 503-510.	1.9	79
9	Microstructure and residual stresses in Ti-6Al-4V alloy pulsed and unpulsed TIG welds. Journal of Materials Processing Technology, 2016, 231, 441-448.	3.1	78
10	Hydride embrittlement in ZIRCALOY-4 plate: Part II. interaction between the tensile stress and the hydride morphology. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1994, 25, 1199-1208.	1.1	75
11	Investigation of magnetic properties, residual stress and densification in compacted iron powder specimens coated with polyepoxy. Materials Chemistry and Physics, 2009, 114, 588-594.	2.0	72
12	Direct Fabrication of a Ti-47Al-2Cr-2Nb Alloy by Selective Laser Melting and Direct Metal Deposition Processes. Advanced Materials Research, 0, 89-91, 586-591.	0.3	66
13	Simultaneously increasing strength and ductility of nanoparticles reinforced Al composites via accumulative orthogonal extrusion process. Materials Research Letters, 2018, 6, 406-412.	4.1	66
14	First-principles study of the perfect and vacancy defect AlN nanoribbon. Physica B: Condensed Matter, 2010, 405, 3775-3781.	1.3	65
15	Improvement in wear resistance of plasma sprayed yttria stabilized zirconia coating using nanostructured powder. Tribology International, 2004, 37, 77-84.	3.0	64
16	Competition between surface and strain energy during grain growth in free-standing and attached Ag and Cu films on Si substrates. Applied Surface Science, 2002, 187, 60-67.	3.1	63
17	Residual stresses in surface induction hardening of steels: Comparison between experiment and simulation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 487, 328-339.	2.6	63
18	Corrosion behavior of NiTi alloy in fetal bovine serum. Electrochimica Acta, 2010, 55, 5551-5560.	2.6	59

#	ARTICLE	IF	CITATIONS
19	Characterization on surface mechanical properties of Ti-6Al-4V after shot peening. Journal of Alloys and Compounds, 2016, 666, 65-70.	2.8	59
20	Dependence of strain energy on the grain orientations in an FCC-polycrystalline film on rigid substrate. Applied Surface Science, 2002, 185, 177-182.	3.1	58
21	Uniformity of residual stress distribution on the surface of S30432 austenitic stainless steel by different shot peening processes. Materials Letters, 2013, 99, 61-64.	1.3	58
22	Microstructure and mechanical properties of friction stir processed Al-Mg-Si alloys dispersion-strengthened by nanosized TiB ₂ particles. Journal of Alloys and Compounds, 2014, 616, 128-136.	2.8	58
23	Study of the thermal stability of nanoparticle distributions in an oxide dispersion strengthened (ODS) ferritic alloys. Journal of Nuclear Materials, 2012, 428, 154-159.	1.3	57
24	Evaluation of the residual stress and microstructure character in SAF 2507 duplex stainless steel after multiple shot peening process. Surface and Coatings Technology, 2018, 344, 132-140.	2.2	57
25	First-principles study on electronic properties of SiC nanoribbon. Journal of Materials Science, 2010, 45, 3259-3265.	1.7	56
26	Toughening effects of Mo and Nb addition on impact toughness and crack resistance of titanium alloys. Journal of Materials Science and Technology, 2021, 79, 147-164.	5.6	56
27	Effect of shot peening on residual stress distribution and tribological behaviors of 17Cr2Ni2MoVNb steel. Surface and Coatings Technology, 2020, 386, 125497.	2.2	55
28	Strain-energy-driven abnormal grain growth in copper films on silicon substrates. Journal of Crystal Growth, 2001, 226, 168-174.	0.7	54
29	Correlation of crystallization behavior and mechanical properties of thermal sprayed PEEK coating. Surface and Coatings Technology, 2006, 200, 6690-6695.	2.2	53
30	Influence of shot peening on the fatigue life of laser hardened 17-4PH steel. International Journal of Fatigue, 2011, 33, 549-556.	2.8	50
31	Microstructure study of cold rolling nanosized in-situ TiB ₂ particle reinforced Al composites. Materials and Design, 2017, 130, 357-365.	3.3	50
32	Effects of TiO ₂ doping on the defect chemistry and thermo-physical properties of Yb ₂ O ₃ stabilized ZrO ₂ . Journal of the European Ceramic Society, 2017, 37, 4163-4169.	2.8	49
33	A comparison study of the structural and mechanical properties of cubic, tetragonal, monoclinic, and three orthorhombic phases of ZrO ₂ . Journal of Alloys and Compounds, 2018, 749, 283-292.	2.8	46
34	Synthesis, structure, microstructure and mechanical characteristics of MOCVD deposited zirconia films. Applied Surface Science, 2007, 253, 4626-4640.	3.1	44
35	Anisotropic elasticity in hexagonal crystals. Thin Solid Films, 2007, 515, 7020-7024.	0.8	43
36	Structural and electronic properties of substitutionally doped armchair silicene nanoribbons. Physica B: Condensed Matter, 2013, 425, 66-71.	1.3	43

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37	Numerical analysis and experimental validation on residual stress distribution of titanium matrix composite after shot peening treatment. <i>Mechanics of Materials</i> , 2016, 99, 2-8.	1.7	43
38	Estimation of microstructure and corrosion properties of peened nickel aluminum bronze. <i>Surface and Coatings Technology</i> , 2017, 313, 136-142.	2.2	43
39	Atomistic simulation of point defects at low-index surfaces of noble metals. <i>Surface Science</i> , 2006, 600, 1277-1282.	0.8	42
40	Influence of Y ₂ O ₃ nanoparticles on microstructures and properties of electrodeposited Ni-W-Y ₂ O ₃ nanocrystalline coatings. <i>Vacuum</i> , 2020, 181, 109665.	1.6	42
41	Residual stress gradient analysis with GIXRD on ZrO ₂ thin films deposited by MOCVD. <i>Surface and Coatings Technology</i> , 2011, 206, 405-410.	2.2	41
42	Surface characteristics and stress corrosion behavior of AA 7075-T6 aluminum alloys after different shot peening processes. <i>Surface and Coatings Technology</i> , 2022, 440, 128481.	2.2	40
43	Influence of humidity on high temperature oxidation of Inconel 600 alloy: Oxide layers and residual stress study. <i>Applied Surface Science</i> , 2013, 284, 446-452.	3.1	38
44	Investigation on surface layer characteristics of shot peened graphene reinforced Al composite by X-ray diffraction method. <i>Applied Surface Science</i> , 2018, 435, 1257-1264.	3.1	38
45	Experimental study on macro- and microstress state, microstructural evolution of austenitic and ferritic steel processed by shot peening. <i>Surface and Coatings Technology</i> , 2019, 359, 511-519.	2.2	38
46	Microstructure and mechanical properties of flame-sprayed PEEK coating remelted by laser process. <i>Progress in Organic Coatings</i> , 2009, 66, 248-253.	1.9	37
47	Effect of shot peening on the residual stress and microstructure of duplex stainless steel. <i>Surface and Coatings Technology</i> , 2013, 226, 140-144.	2.2	37
48	Investigation on microstructure and properties of electrodeposited Ni-Ti-CeO ₂ composite coating. <i>Journal of Alloys and Compounds</i> , 2018, 754, 93-104.	2.8	35
49	Half-metallic ferromagnetic nature of the double perovskite Pb ₂ FeMoO ₆ from first-principle calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1116-1121.	1.9	34
50	Hydrogen adsorption and storage of Ca-decorated graphene with topological defects: A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 63, 45-51.	1.3	34
51	Laser cladding of Ni based powder on a Cu-Ni-Al glassmold: Influence of the process parameters on bonding quality and coating geometry. <i>Journal of Alloys and Compounds</i> , 2019, 771, 1018-1028.	2.8	34
52	Residual stress gradient analysis by the GIXRD method on CVD tantalum thin films. <i>Surface and Coatings Technology</i> , 2006, 200, 2738-2743.	2.2	33
53	Effect of prestress state on surface layer characteristic of S30432 austenitic stainless steel in shot peening process. <i>Materials & Design</i> , 2012, 42, 89-93.	5.1	33
54	Thermal stability of residual stresses and work hardening of shot peened tungsten cemented carbide. <i>Journal of Materials Processing Technology</i> , 2017, 240, 98-103.	3.1	33

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55	Surface layer microstructures and wear properties modifications of Mg-8Gd-3Y alloy treated by shot peening. <i>Materials Characterization</i> , 2019, 158, 109952.	1.9	32
56	Thermal residual stresses in ceramic matrix compositesâ€”II. Experimental results for model materials. <i>Acta Metallurgica Et Materialia</i> , 1995, 43, 2255-2268.	1.9	31
57	Microstructures and rolling contact fatigue behaviors of 17Cr2Ni2MoVNb steel under combined ultrasonic surface rolling and shot peening. <i>International Journal of Fatigue</i> , 2020, 141, 105867.	2.8	31
58	Effects of Co contents on the microstructures and properties of electrodeposited NiCoâ€”Al composite coatings. <i>Applied Surface Science</i> , 2015, 324, 482-489.	3.1	30
59	Optimisation of microstructure and corrosion resistance of Ni-Ti composite coatings by the addition of CeO ₂ nanoparticles. <i>Surface and Coatings Technology</i> , 2017, 331, 196-205.	2.2	30
60	About the Role of Chromium and Oxygen Ion Diffusion on the Growth Mechanism of Oxidation Films of the AISI 304 Austenitic Stainless Steel. <i>Oxidation of Metals</i> , 2012, 78, 211-220.	1.0	29
61	Hydrogen adsorption and storage on palladium-decorated graphene with boron dopants and vacancy defects: A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 66, 40-47.	1.3	29
62	Effects of exposure at 700Â°C on RT tensile properties in a PM Î³-TiAl alloy. <i>Intermetallics</i> , 2006, 14, 1143-1150.	1.8	28
63	Fretting wear behavior of bulk amorphous steel. <i>Intermetallics</i> , 2011, 19, 1385-1389.	1.8	28
64	Residual stress and microstructure evolutions of SAF 2507 duplex stainless steel after shot peening. <i>Applied Surface Science</i> , 2018, 459, 155-163.	3.1	28
65	Ab initio modeling of CaTiO ₃ (110) polar surfaces. <i>Physical Review B</i> , 2007, 76, .	1.1	27
66	Fabrication and characterization of Niâ€”Zr composite coatings using electrodepositing technique. <i>Journal of Alloys and Compounds</i> , 2015, 635, 73-81.	2.8	27
67	Calcium-magnesium-alumina-silicate (CMAS) resistance property of BaLn ₂ Ti ₃ O ₁₀ (Ln=La, Nd) for thermal barrier coating applications. <i>Ceramics International</i> , 2017, 43, 10521-10527.	2.3	27
68	Effect of stress shot peening on the residual stress field and microstructure of nanostructured Mg-8Gd-3Y alloy. <i>Journal of Materials Research and Technology</i> , 2021, 10, 74-83.	2.6	27
69	Electrochemical Behaviour of Pure Aluminium and Alâ€”5%Zn Alloy in 3% NaCl Solution. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 113-122.	1.1	26
70	Effect of scandia content on the hot corrosion behavior of Sc ₂ O ₃ and Y ₂ O ₃ co-doped ZrO ₂ in Na ₂ SO ₄ +â€”V ₂ O ₅ molten salts at 1000â€”Â°C. <i>Corrosion Science</i> , 2019, 158, 108094.	3.0	26
71	Dependence of stresses on grain orientations in thin polycrystalline films on substrates: an explanation of the relationship between preferred orientations and stresses. <i>Applied Surface Science</i> , 2001, 180, 1-5.	3.1	25
72	Thermal relaxation of residual stresses in shot peened surface layer of (TiB+TiC)/Tiâ€”6Alâ€”4V composite at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6478-6483.	2.6	25

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73	The study of the P doped silicene nanoribbons with first-principles. Computational Materials Science, 2014, 95, 429-434.	1.4	25
74	Investigation for warm peening of TiB ₂ /Al composite using X-ray diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 497, 374-377.	2.6	24
75	The detailed geometrical and electronic structures of monoclinic zirconia. Journal of Physics and Chemistry of Solids, 2013, 74, 518-523.	1.9	24
76	Comparison of Electronic and Magnetic Properties of Fe, Co, and Ni Nanowires Encapsulated in Boron Nitride Nanotubes. Journal of Physical Chemistry C, 2009, 113, 17745-17750.	1.5	23
77	A new powder metallurgy routine to fabricate TiB ₂ /Al-Zn-Mg-Cu nanocomposites based on composite powders with pre-embedded nanoparticles. Materialia, 2019, 8, 100458.	1.3	23
78	Surface Layer Characteristics of S30432 Austenite Stainless Steel after Shot Peening. Materials Transactions, 2012, 53, 1002-1006.	0.4	22
79	Residual stresses in oxide scale formed on Fe-17Cr stainless steel. Applied Surface Science, 2014, 316, 108-113.	3.1	22
80	Surface mechanical properties of S30432 austenitic steel after shot peening. Applied Surface Science, 2012, 258, 9559-9563.	3.1	21
81	Nitrogen and Boron substitutional doped zigzag silicene nanoribbons: Ab initio investigation. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 60, 112-117.	1.3	21
82	Investigation on the thermostability of residual stress and microstructure in shot peened SAF 2507 duplex stainless steel. Vacuum, 2018, 153, 145-153.	1.6	21
83	Surface layer characteristics of SAF2507 duplex stainless steel treated by stress shot peening. Applied Surface Science, 2019, 481, 226-233.	3.1	21
84	Determination of surface mechanical property and residual stress stability for shot-peened SAF2507 duplex stainless steel by in situ X-ray diffraction stress analysis. Journal of Materials Research and Technology, 2020, 9, 7644-7654.	2.6	21
85	Improved wear properties of Ni Ti nanocomposite coating with tailored spatial microstructures by extra adding CeO ₂ nanoparticles. Surface and Coatings Technology, 2020, 399, 126119.	2.2	21
86	Microstructural study by XRD profile analysis and tem observations on hydrided recrystallized zircaloy-4. Scripta Metallurgica Et Materialia, 1992, 26, 369-374.	1.0	20
87	The influence of Nb ion implantation upon oxidation behavior and hardness of a Ti-48 at.% Al alloy. Surface and Coatings Technology, 1998, 100-101, 214-218.	2.2	20
88	A study of mechanical properties and microscopic stress of a two-phase TiAl-based intermetallic alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 315, 195-201.	2.6	20
89	Young's Modulus Surface and Poisson's Ratio Curve for Orthorhombic Crystals. Journal of Chemical Crystallography, 2008, 38, 733-741.	0.5	20
90	Young's modulus surface and Poisson's ratio curve for tetragonal crystals. Chinese Physics B, 2008, 17, 1565-1573.	0.7	20

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91	Structural, electronic properties and stability of the (1 $\bar{1}$ –1) PbTiO ₃ (111) polar surfaces by first-principles calculations. <i>Applied Surface Science</i> , 2009, 255, 8145-8152.	3.1	20
92	Microstructure, mechanical and tribological properties of Ti–B–C–N films prepared by reactive magnetron sputtering. <i>Diamond and Related Materials</i> , 2010, 19, 1336-1340.	1.8	20
93	Microstructure evolution and residual stress distribution of nanostructured Mg-8Gd-3Y alloy induced by severe shot peening. <i>Surface and Coatings Technology</i> , 2020, 404, 126465.	2.2	20
94	Comparative Study of Mechanical Properties and Residual Stress Distributions of Copper Coatings Obtained by Different Thermal Spray Processes. <i>Surface Engineering</i> , 2001, 17, 317-322.	1.1	19
95	Effect of internal stresses on the fracture toughness of a TiAl-based alloy with duplex microstructures. <i>Acta Materialia</i> , 2003, 51, 5349-5358.	3.8	19
96	General compliance transformation relation and applications for anisotropic cubic metals. <i>Materials Letters</i> , 2008, 62, 1328-1332.	1.3	19
97	Effect of shot peening on surface mechanical properties of TiB ₂ /Al composite. <i>Journal of Materials Science</i> , 2009, 44, 2454-2458.	1.7	19
98	Structural, electronic and magnetic properties of the 3d transition metal atoms adsorbed on boron nitride nanotubes. <i>European Physical Journal B</i> , 2010, 76, 289-299.	0.6	19
99	Synthesis and characterization of Ni–Al–Y ₂ O ₃ composite coatings with different Y ₂ O ₃ particle content. <i>Ceramics International</i> , 2014, 40, 15105-15111.	2.3	19
100	Surface residual stress and microstructure evolutions of Hastelloy X alloy after severe shot peening. <i>Vacuum</i> , 2021, 187, 110136.	1.6	19
101	X-ray study on single crystal superalloy SRR99: Mismatch $\hat{\Gamma}^3/\hat{\Gamma}^3 \hat{\alpha}^2$, mosaicity and internal stress. <i>Acta Materialia</i> , 1997, 45, 791-800.	3.8	18
102	Representation surfaces of Young's modulus and Poisson's ratio for BCC transition metals. <i>Physica B: Condensed Matter</i> , 2007, 390, 106-111.	1.3	18
103	First-principles study of the (001) surface of cubic PbTiO ₃ . <i>Surface and Interface Analysis</i> , 2008, 40, 1382-1387.	0.8	18
104	First-principles study of the (110) polar surface of cubic PbTiO ₃ . <i>Computational Materials Science</i> , 2009, 44, 1360-1365.	1.4	18
105	Diffusion mechanism of Zr-based metallic glass during oxidation under dry air. <i>Intermetallics</i> , 2012, 28, 102-107.	1.8	18
106	Electronic structure and magnetism of Ti ₂ FeSi: A first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 345, 171-175.	1.0	18
107	The effect of defects on the magnetic properties and spin polarization of Ti ₂ FeAl Heusler alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 351, 25-28.	1.0	18
108	Study of ion diffusion in oxidation films grown on a model Fe–15%Cr alloy. <i>Solid State Ionics</i> , 2015, 276, 1-8.	1.3	18

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109	Experimental study of the mechanisms of nanoparticle influencing the fatigue crack growth in an in-situ TiB ₂ /Al-Zn-Mg-Cu composite. <i>Engineering Fracture Mechanics</i> , 2019, 207, 23-35.	2.0	18
110	Surface characteristic and wear resistance of QT-700-2 nodular cast iron after laser quenching combing with shot peening treatment. <i>Surface and Coatings Technology</i> , 2021, 423, 127589.	2.2	18
111	SURFACE ROUGHNESS EFFECTS ON STRESS DETERMINATION BY THE X-RAY DIFFRACTION METHOD. <i>Experimental Techniques</i> , 1995, 19, 9-11.	0.9	17
112	Determination of proof stress and strain-hardening exponent for thin film with biaxial residual stresses by in-situ XRD stress analysis combined with tensile test. <i>Surface and Coatings Technology</i> , 2005, 192, 139-144.	2.2	17
113	First-principle study on energetics and electronic structure of a single copper atomic chain bound in carbon nanotube. <i>European Physical Journal B</i> , 2009, 72, 119-126.	0.6	17
114	Thermal Relaxation of Residual Stresses in Shot Peened Surface Layer on TiB ₂ /Al Composite at Elevated Temperatures. <i>Materials Transactions</i> , 2009, 50, 1499-1501.	0.4	17
115	Ion Diffusion Study in the Oxide Layers Due to Oxidation of AISI 439 Ferritic Stainless Steel. <i>Oxidation of Metals</i> , 2014, 81, 407-419.	1.0	17
116	Influences of Al and Ti particles on microstructure, internal stress and property of Ni composite coatings. <i>Journal of Alloys and Compounds</i> , 2019, 793, 314-325.	2.8	17
117	Surface characteristic and wear resistance of S960 high-strength steel after shot peening combing with ultrasonic sprayed graphene oxide coating. <i>Journal of Materials Research and Technology</i> , 2022, 18, 978-989.	2.6	17
118	X-ray elastic constant determination and microstresses of β phase of a two-phase TiAl-based intermetallic alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 341, 182-188.	2.6	16
119	Ab initio calculation of neutral and singly charged Mg _n (n=1,2) clusters. <i>Physica B: Condensed Matter</i> , 2008, 403, 3119-3124.	1.3	16
120	Orbital-decomposed electronic and magnetic properties of the double perovskite Sr ₂ FeReO ₆ . <i>Physica B: Condensed Matter</i> , 2012, 407, 912-917.	1.3	16
121	Magnetic properties and possible martensitic transformation in Mn ₂ NiSi and Ni ₂ MnSi Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 362, 42-46.	1.0	16
122	Surface mechanical property and residual stress of peened nickel-aluminum bronze determined by in-situ X-ray diffraction. <i>Applied Surface Science</i> , 2017, 420, 28-33.	3.1	16
123	Structural, Electronic, and Magnetic Properties of Boron Nitride Nanotubes Filled with Iron Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 840-846.	0.9	15
124	Residual Stress Relaxation of Shot Peened Deformation Surface Layer on S30432 Austenite Steel under Applied Loading. <i>Materials Transactions</i> , 2012, 53, 1578-1581.	0.4	15
125	The Roles of Ti Particles in Improving the Corrosion Resistance of Electrochemically Assembled Ni-Ti Composite Coatings. <i>Corrosion</i> , 2017, 73, 1107-1118.	0.5	15
126	Cold rolling texture evolution of TiB ₂ particle reinforced Al-based composites by Neutron Diffraction and EBSD analysis. <i>Materials Characterization</i> , 2018, 136, 293-301.	1.9	15

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127	Mechanical properties of CoCrCuFeNi multi-principal element alloy thin films on Kapton substrates. <i>Surface and Coatings Technology</i> , 2020, 402, 126474.	2.2	15
128	The non-destructive estimation of the superficial mechanical properties of components in the INCONEL 600 alloy by X-ray diffraction peak width. <i>Surface and Coatings Technology</i> , 2000, 130, 95-99.	2.2	14
129	Adsorption of oxygen atom on the pristine and antisite defected SiC nanotubes. <i>Physica B: Condensed Matter</i> , 2010, 405, 2673-2679.	1.3	14
130	Structural and electronic properties of a single C chain doped zigzag AlN nanoribbon. <i>Computational and Theoretical Chemistry</i> , 2011, 974, 151-158.	1.1	14
131	Laser shock processing with two different laser sources on 2050-T8 aluminum alloy. <i>International Journal of Structural Integrity</i> , 2011, 2, 87-100.	1.8	14
132	Structural, electronic and magnetic properties of a symmetrical FeReO terminated (001)-oriented slab of double perovskite Sr ₂ FeReO ₆ . <i>Materials Chemistry and Physics</i> , 2012, 136, 570-576.	2.0	14
133	Structural, electronic and magnetic properties of the double perovskite Pb ₂ FeReO ₆ . <i>Physica B: Condensed Matter</i> , 2012, 407, 2617-2621.	1.3	14
134	Residual stress distribution and microstructure in the friction stir weld of 7075 aluminum alloy. <i>Journal of Materials Science</i> , 2015, 50, 7262-7270.	1.7	14
135	Hot corrosion behavior of (Gd 0.9 Sc 0.1) 2 Zr 2 O 7 in V 2 O 5 molten salt at 700-1000 °C. <i>Ceramics International</i> , 2017, 43, 9041-9046.	2.3	14
136	Microstructure evolution and mechanical properties of a lamellar near-β titanium alloy treated by laser shock peening. <i>Vacuum</i> , 2021, 184, 109906.	1.6	14
137	Influence of shot peening on superficial yield strength of spring steel in hard state. <i>Surface Engineering</i> , 1998, 14, 469-472.	1.1	13
138	Effects of strain and annealing on the intensity and distribution of crystal texture in Cu-12wt.% Ag. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 478, 305-313.	2.6	13
139	XRD peak broadening characterization of deformed microstructures and heterogeneous behavior of carbon steel. <i>Theoretical and Applied Fracture Mechanics</i> , 2012, 61, 51-56.	2.1	13
140	Surface layer characteristics of CNT/Al-Mg-Si alloy composites treated by stress peening. <i>Surface and Coatings Technology</i> , 2017, 317, 10-16.	2.2	13
141	Microstructure evolution and hot corrosion mechanisms of Ba ₂ REAlO ₅ (RE=Yb, Er, Dy) exposed to V ₂ O ₅ +Na ₂ SO ₄ molten salt. <i>Journal of the European Ceramic Society</i> , 2018, 38, 3555-3563.	2.8	13
142	Hot corrosion behavior of TiO ₂ doped, Yb ₂ O ₃ stabilized zirconia exposed to V ₂ O ₅ + Na ₂ SO ₄ molten salt at 700-1000 °C. <i>Ceramics International</i> , 2018, 44, 261-268.	2.3	13
143	Analytical modeling and experimental verification of surface roughness in the ultrasonic-assisted ball burnishing of shaft targets. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 3593-3613.	1.5	13
144	Analysis of broadened X-ray diffraction profiles: Application to the characterization of carbon steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1990, 127, 71-77.	2.6	12

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145	Broadened X-ray-diffraction profile analysis of cold-rolled aluminium-magnesium alloys. <i>Journal of Materials Science</i> , 1994, 29, 1553-1557.	1.7	12
146	Calculation of surface energy and simulation of reconstruction for diamond cubic crystals (001) surface. <i>Applied Surface Science</i> , 2008, 254, 4128-4133.	3.1	12
147	Surface Layer Characteristics of TiB ₂ /Al Composite by Stress Peening. <i>Materials Transactions</i> , 2009, 50, 837-840.	0.4	12
148	Microstructure and tribological properties of ternary BCN thin films with different carbon contents. <i>Diamond and Related Materials</i> , 2010, 19, 1225-1229.	1.8	12
149	Electronic and magnetic properties of perfect and defected germanium nanoribbons. <i>Materials Chemistry and Physics</i> , 2011, 130, 140-146.	2.0	12
150	The relationship between t-ZrO ₂ stability and the crystallization of a Zr-based bulk metallic glass during oxidation. <i>Intermetallics</i> , 2012, 31, 21-25.	1.8	12
151	Stabilization of the tetragonal phase in large columnar zirconia crystals without incorporating dopants. <i>Scripta Materialia</i> , 2013, 68, 559-562.	2.6	12
152	Roles of growth mechanisms of Ni deposits on corrosion behaviors of Ni _x Al _y Ti composite coatings. <i>Applied Surface Science</i> , 2019, 492, 177-188.	3.1	12
153	Ab initio calculation of Ag monolayer adhesion on BaTiO ₃ (100) surfaces. <i>Surface and Coatings Technology</i> , 2008, 202, 3284-3289.	2.2	11
154	Residual stress and micro-structure of GCr15 steel after multistep shot peening. <i>Surface Engineering</i> , 2014, 30, 847-851.	1.1	11
155	Neutron Diffraction Study of Strain/Stress States and Subgrain Defects in a Creep-Deformed, Single-Crystal Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 139-146.	1.1	11
156	Two stages for the evolution of crystallite size and texture of electrodeposited Ni-ZrC composite coating. <i>Surface and Coatings Technology</i> , 2015, 261, 122-129.	2.2	11
157	Characterization on Surface Properties of Ti-6Al-4V After Multiple Shot Peening Treatments. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2016, 138, .	0.8	11
158	Residual stress and microstructure evolution of shot peened Ni-Al bronze at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 707, 629-635.	2.6	11
159	Investigation on microstructure and properties of Al ₁₈ B ₄ O ₃₃ whisker reinforced Al Mg Si matrix composite after shot peening. <i>Vacuum</i> , 2019, 160, 303-310.	1.6	11
160	Evaluation of Mechanical Behavior and Surface Morphology of Shot-Peened Ti-6Al-4V Alloy. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 182-190.	1.2	11
161	The Effect of Y/Ti Ratio on Oxide Precipitate Evolution in ODS Fe-14Wt%Cr Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1413-1418.	1.1	10
162	Effects of the defects on the structural, electronic and magnetic properties of Sr ₂ FeMoO ₆ . <i>Journal of Alloys and Compounds</i> , 2015, 648, 374-381.	2.8	10

#	ARTICLE	IF	CITATIONS
163	Effects of ultrasonic surface rolling on fretting wear behaviors of a novel 25CrNi2MoV steel. <i>Materials Letters</i> , 2021, 284, 128955.	1.3	10
164	Dependence of the strain energies on grain orientations in HCP metal films. <i>Applied Surface Science</i> , 2006, 253, 2432-2436.	3.1	9
165	First-Principle Study on Structural and Electronic Properties of Pristine and Adsorbed LiF Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1650-1657.	1.5	9
166	Structural and electronic properties of armchair graphene nanoribbons under uniaxial strain. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 56, 55-58.	1.3	9
167	Studying the insulating characters of cubic ZrO ₂ slabs with nine terminations within three lower index Miller planes (001), (110) and (111). <i>Microelectronic Engineering</i> , 2019, 213, 77-85.	1.1	9
168	The synergistic role of Ti microparticles and CeO ₂ nanoparticles in tailoring microstructures and properties of high-quality Ni matrix nanocomposite coating. <i>Journal of Materials Science and Technology</i> , 2022, 105, 182-193.	5.6	9
169	Mechanical stability and strength of a single Au crystal. <i>Canadian Journal of Physics</i> , 2008, 86, 935-941.	0.4	8
170	Microstructure and magnetic properties of FeSiBNbCu-Al cold spray coatings. <i>EPJ Applied Physics</i> , 2008, 43, 79-86.	0.3	8
171	Residual Stress Relaxation in Shot Peened Surface Layer on Ti₂/Al Composite under Applied Loading. <i>Materials Transactions</i> , 2009, 50, 158-160.	0.4	8
172	Orbital-decomposed electronic structures of cubic zirconia. <i>Solid State Communications</i> , 2012, 152, 1673-1677.	0.9	8
173	Residual Stresses Comparison Determined by Short-Wavelength X-Ray Diffraction and Neutron Diffraction for 7075 Aluminum Alloy. <i>Journal of Nondestructive Evaluation</i> , 2014, 33, 82.	1.1	8
174	The detailed orbital-decomposed electronic structures of tetragonal ZrO ₂ . <i>Physica B: Condensed Matter</i> , 2013, 411, 126-130.	1.3	8
175	Hot corrosion behavior of Ba ₂ REAlO ₅ (RE = Dy, Er, Yb) ceramics by vanadium pentoxide at 900–1000 Å°C. <i>Ceramics International</i> , 2017, 43, 11944-11952.	2.3	8
176	A comparison study of the Born effective charges and dielectric properties of the cubic, tetragonal, monoclinic, ortho-I, ortho-II and ortho-III phases of zirconia. <i>Solid State Sciences</i> , 2018, 81, 58-65.	1.5	8
177	Tempering treatment study of two steels by X-ray diffraction profile analysis. <i>Journal of Materials Science Letters</i> , 1989, 8, 1127-1130.	0.5	7
178	Anisotropy analysis of the surface stress and surface energy in Cu surfaces with the modified embedded atom method. <i>Solid State Communications</i> , 2007, 141, 384-389.	0.9	7
179	Properties of mono-vacancy in L1 ₂ -type Ni ₃ Al ordered alloy. <i>Superlattices and Microstructures</i> , 2008, 44, 259-267.	1.4	7
180	Theoretical strength and structural response of Cu crystal. <i>Computational Materials Science</i> , 2008, 43, 917-923.	1.4	7

#	ARTICLE	IF	CITATIONS
181	Air Oxidation Kinetics Study of Zr ₅₈ Nb ₃ Cu ₁₆ Ni ₁₃ Al ₁₀ Bulk Metallic Glass. Defect and Diffusion Forum, 2009, 283-286, 209-213.	0.4	7
182	Properties of the bare, passivated and doped germanium nanowire: A density-functional theory study. Computational Materials Science, 2010, 49, 682-690.	1.4	7
183	Armchair graphene nanoribbons under shear strain. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 60, 156-159.	1.3	7
184	A first-principles study on uniaxial strain effects of nonplanar oxygen-functionalized armchair graphene nanoribbons. Journal of Alloys and Compounds, 2015, 631, 219-224.	2.8	7
185	Structural, electronic and magnetic properties of the Si chains doped zigzag AlN nanoribbons. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 65, 114-119.	1.3	7
186	Residual Stresses and Microstructural Features of Rotary-Friction-Welded from Dissimilar Medium Carbon Steels. Physics of Metals and Metallography, 2020, 121, 1339-1346.	0.3	7
187	Effect of Ti microparticles on the microstructure and properties of Ni-Ti composite coating prepared by electrodeposition. Journal of Alloys and Compounds, 2022, 908, 164313.	2.8	7
188	Computer simulation of symmetrical tilt grain boundaries in noble metals with MAEAM. Chinese Physics B, 2007, 16, 210-216.	1.3	6
189	Neutron and X-Ray Diffraction Study of Internal Stress in Thermomechanically Fatigued Single-Crystal Superalloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 3141-3148.	1.1	6
190	General compliance transformation relations for all seven crystal systems. Science China: Physics, Mechanics and Astronomy, 2013, 56, 694-700.	2.0	6
191	Structural and electronic properties of single-side fluorinated graphene C ₄ F under equibiaxial strains. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 58, 59-62.	1.3	6
192	Theoretical analysis and performance prediction on modified surface layer caused by ultrasonic surface rolling. International Journal of Advanced Manufacturing Technology, 2021, 113, 1307-1330.	1.5	6
193	Tribological Behavior and Corrosion Resistance of S30432 Steel after Different Shot Peening Processes. Journal of Materials Engineering and Performance, 2022, 31, 1250-1258.	1.2	6
194	Microstructural study of static and dynamic deformed polycrystalline copper by x-ray diffraction profile analysis. Scripta Metallurgica Et Materialia, 1990, 24, 1547-1552.	1.0	5
195	MAEAM for phonon dispersion of noble metals in symmetry and off-symmetry directions. Solid State Communications, 2008, 145, 182-185.	0.9	5
196	Structural properties and diffusion processes of the Cu ₃ Au (001) surface. Applied Surface Science, 2010, 256, 7083-7087.	3.1	5
197	Initial Oxidation Behavior of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ Bulk Metallic Glass in Short-Term Stage. Materials Science Forum, 0, 675-677, 209-212.	0.3	5
198	Oxidation resistance of quintuple Ti-Al-Si-C-N coatings and associated mechanism. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	0.9	5

#	ARTICLE	IF	CITATIONS
199	Electronic structure and optical property of 3d transition metal doped (5,5) boron nitride nanotube. Applied Physics A: Materials Science and Processing, 2012, 109, 601-606.	1.1	5
200	Interface effects at a ferromagnetic and ferroelectric junction. Thin Solid Films, 2013, 540, 92-95.	0.8	5
201	Microstructure characterization and deposition mechanism studies of ZrO ₂ thin films deposited by LI-MOCVD. Surface and Coatings Technology, 2013, 218, 7-16.	2.2	5
202	Ab initio study of iron nanowires encapsulated inside silicon nitride nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 49, 97-104.	1.3	5
203	X-Ray Analysis of Residual Stress in Weld Region of X70 Pipeline Steel. Advanced Materials Research, 2014, 936, 2011-2016.	0.3	5
204	Effects of vertical strain on zigzag graphene nanoribbon with a topological line defect. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 67, 116-120.	1.3	5
205	Cube orientation bands observed in largely deformed Al-Sc alloys containing shearable precipitates. Scripta Materialia, 2019, 166, 139-143.	2.6	5
206	XRD profile analysis and transmission electronic microscopy observation for a plastically deformed 7475 aluminum alloy. Journal of Materials Science Letters, 1995, 14, 960-963.	0.5	4
207	THE X-RAY MEASUREMENT OF AXIAL AND HOOP RESIDUAL STRESSES IN MICROCOMPOSITE SPECIMENS. Journal of Thermal Stresses, 1998, 21, 743-749.	1.1	4
208	Yield Strength Determination of TiN Film by In-Situ XRD Stress Analysis Method. Materials Science Forum, 2002, 404-407, 671-676.	0.3	4
209	Strain and stress analysis on Zn multocrystal film by XRD method. Transactions of Nonferrous Metals Society of China, 2006, 16, s735-s738.	1.7	4
210	Formation mechanism of the di-vacancy in FCC metal Pt. Journal of Physics and Chemistry of Solids, 2008, 69, 1957-1962.	1.9	4
211	Surface effect on the GSF energy of Al. Applied Surface Science, 2008, 254, 6683-6686.	3.1	4
212	Neutron diffraction study of strain and stress induced by thermomechanical fatigue in a single crystal superalloy. Journal of Physics Condensed Matter, 2008, 20, 104255.	0.7	4
213	Texture and Residual Stress Analysis by XRD on Metastable Tetragonal Zirconia Films Obtained by MOCVD. ECS Transactions, 2009, 25, 413-420.	0.3	4
214	The texture effect of warm peening on TiB ₂ /Al composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 504, 124-128.	2.6	4
215	Atmosphere dependence of oxidation kinetics of unstabilized and Nb-stabilized AISI 430 ferritic stainless steels in the temperature range 850-950°C. Materials at High Temperatures, 2010, 27, 89-96.	0.5	4
216	Experimental and Numerical Analysis of the Distribution of Residual Stresses Induced by Laser Shock Peening in a 2050-T8 Aluminium Alloy. Materials Science Forum, 0, 681, 296-302.	0.3	4

#	ARTICLE	IF	CITATIONS
217	Oxygen Diffusion Study in Oxidation Films of the AISI 304 Austenitic Stainless Steel. Defect and Diffusion Forum, 0, 323-325, 345-351.	0.4	4
218	The half-metallic ferromagnetic characters of (001)-oriented thin films of the double perovskite Pb ₂ FeMoO ₆ . Thin Solid Films, 2016, 615, 318-323.	0.8	4
219	Thermal Relaxation Behavior of Residual Stress and Microstructure in Shot Peened S30432 Steel at Elevated Temperatures. Materials Transactions, 2012, 53, 1195-1198.	0.4	4
220	Broadened X-Ray Diffraction Profile Analysis of Cold-Rolled Commercial Aluminum and Al-Mg Alloys. Materials Science Forum, 1993, 133-136, 537-542.	0.3	3
221	Experiment and simulation of grain growth in a bidimensional polycrystalline film. Applied Surface Science, 2003, 218, 268-275.	3.1	3
222	Internal Stress Effects on Mechanical Properties of TiCp Particle Reinforced Titanium Composites. Materials Science Forum, 2005, 490-491, 564-570.	0.3	3
223	Residual Stresses Gradient Determination in Cu Thin Films. Materials Science Forum, 2006, 524-525, 595-600.	0.3	3
224	Anisotropy analysis of stresses and strain energies in diamond-cubic films. Physica B: Condensed Matter, 2007, 389, 372-376.	1.3	3
225	Anisotropic elasticity in a textured cubic film plane. Physica B: Condensed Matter, 2008, 403, 3379-3383.	1.3	3
226	Atomistic simulation of the point defects in B2-type MoTa alloy. Physica B: Condensed Matter, 2009, 404, 2178-2183.	1.3	3
227	Determination of Oxygen Diffusion Coefficient in Oxidation Films of the AISI 439 Ferritic Stainless Steel. Defect and Diffusion Forum, 0, 323-325, 339-344.	0.4	3
228	Residual stress study of nanostructured zirconia films obtained by MOCVD and by sol-gel routes. Applied Surface Science, 2013, 276, 138-146.	3.1	3
229	Structural and electronic properties of BeO nanotubes filled with Cu nanowires. European Physical Journal B, 2013, 86, 1.	0.6	3
230	Thermostability of S30432 shot peened surface layer. Surface Engineering, 2013, 29, 61-64.	1.1	3
231	Microstructural Evolution and Mechanical Response of the Surface of 18CrNiMo7-6 Steel after Multistep Shot Peening during Annealing. Materials Transactions, 2013, 54, 2180-2184.	0.4	3
232	Effects of the defects on the half-metallic characters and magnetic properties in double perovskite Pb ₂ FeMoO ₆ . Materials Chemistry and Physics, 2015, 162, 711-723.	2.0	3
233	The detailed crystal and electronic structures of the cotunnite-type ZrO ₂ . Solid State Communications, 2016, 239, 27-31.	0.9	3
234	The structural, electronic, and magnetic properties of the stoichiometric (001) surface of double perovskite Sr ₂ FeMoO ₆ . Surface and Interface Analysis, 2016, 48, 1040-1047.	0.8	3

#	ARTICLE	IF	CITATIONS
235	Effect of the shot peening on the deformation of Al alloy component. <i>Surface Engineering</i> , 2018, 34, 946-953.	1.1	3
236	Investigations into the Surface Strain/Stress State in a Single-Crystal Superalloy via XRD Characterization. <i>Metals</i> , 2018, 8, 376.	1.0	3
237	Optimization of Microstructural Evolution during Laser Cladding of Ni Based Powder on GCI Glass Molds. <i>Key Engineering Materials</i> , 0, 813, 185-190.	0.4	3
238	Analysis of the mechanical behaviour of materials through the 2nd and 3rd order stress determination. <i>European Physical Journal Special Topics</i> , 1994, 04, C9-261-C9-264.	0.2	3
239	Microstrain Measurement in Plastically Deformed Austenitic Steel. <i>Textures and Microstructures</i> , 1999, 33, 219-230.	0.2	3
240	Ti-Al-Si-C-N Hard Coatings Synthesized by Hybrid Arc-Enhanced Magnetron Sputtering. <i>Journal of ASTM International</i> , 2011, 8, 103223.	0.2	3
241	Residual Stress Effects on Mechanical Properties of a Two Phase TiAl-Based Intermetallic Alloy. <i>Materials Science Forum</i> , 2002, 404-407, 367-372.	0.3	2
242	Investigation of the Relationship between Annealing Temperature and Yield Strength in Cu Film by In Situ XRD Stress Analysis Method. <i>Materials Science Forum</i> , 2005, 490-491, 595-600.	0.3	2
243	Computer simulation study of self-diffusion in Pd(111) surface. <i>Journal of Molecular Catalysis A</i> , 2006, 258, 341-345.	4.8	2
244	Computer simulation study of self-diffusion in Pd(001) surface. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 389-393.	1.9	2
245	Self-Adsorption on a Pt (111) Surface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16031-16035.	1.5	2
246	Textured Tetragonal ZrO ₂ Film Grown on (100) Silicon Surface by DLI Metal-Organic Chemical Vapor Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 8009-8016.	0.9	2
247	Texture and Surface Morphology Effects on Tetragonal Phase Stabilization in ZrO ₂ Films Deposited by Metal-Organic Chemical Vapor Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 8264-8268.	0.9	2
248	The structural, electronic and magnetic properties of a symmetrical FeMoO terminated (001)-oriented slab of double perovskite Sr ₂ FeMoO ₆ . <i>Thin Solid Films</i> , 2012, 520, 5695-5701.	0.8	2
249	Structural and electronic properties of copper nanowires inside zigzag carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2014, 447, 77-82.	1.3	2
250	Characterization of the deformation texture after tensile test and cold rolling of a Ti-6Al-4V sheet alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 82, 012018.	0.3	2
251	Effects of Co contents on the microstructures and properties of the electrodeposited NiCo-Zr composite coatings. <i>Materials Research Bulletin</i> , 2015, 65, 195-203.	2.7	2
252	First-principles study of the structural, electronic, and magnetic properties of double perovskite Sr ₂ FeReO ₆ containing various imperfections. <i>Chinese Physics B</i> , 2016, 25, 058102.	0.7	2

#	ARTICLE	IF	CITATIONS
253	Formation of Face Centered Cubic Titanium Thin Films on MgO(111) Single Crystal Substrate. Materials Science Forum, 0, 913, 264-269.	0.3	2
254	Prediction of the terminations and Miller planes of the tetragonal zirconia thin films as a gate dielectric layer in integrated-circuit industry. Surface and Interface Analysis, 2019, 51, 774-782.	0.8	2
255	Microstructural Characterization of Heat-Treated Cold Worked Steels and Fatigued Shot-Peened Aluminium by X-Ray Diffraction Profile Analysis. , 1989, , 65-70.		2
256	EFFECT OF HEAT TREATMENT ON THE MICROSTRUCTURAL EVOLUTION IN WELD REGION OF 304L PIPELINE STEEL. Journal of Thermal Engineering, 2016, 2, .	0.8	2
257	Kinetics and energetics of room-temperature microstructure in nanocrystalline Cu films: The grain-size dependent intragrain strain energy. Journal of Applied Physics, 2022, 131, .	1.1	2
258	Mechanism of Blunt Punching Tools™ Influence on Deformation and Residual Stress Distribution. Metals, 2021, 11, 2029.	1.0	2
259	High resolution X-ray diffraction profile analysis of a cold-rolled polycrystalline aluminium. Journal of Materials Science Letters, 1995, 14, 674-675.	0.5	1
260	The cryogenic properties of Al-Li single crystals. Journal of Materials Science Letters, 1997, 16, 332-334.	0.5	1
261	Analyse des contraintes résiduelles dans un revêtement de cuivre réalisé par projection thermique sur des cavités supraconductrices en niobium. European Physical Journal Special Topics, 2000, 10, Pr10-125-Pr10-135.	0.2	1
262	A Study on Residual Stress Relaxation under Quasi-Static Load. Materials Science Forum, 2005, 490-491, 430-435.	0.3	1
263	Dependence of the stresses on grain orientations in hexagonal films. Physica B: Condensed Matter, 2007, 388, 261-265.	1.3	1
264	In Situ Analysis of Deformation Mechanisms of Cu-Based fcc Materials under Uniaxial Loading. Materials Science Forum, 2008, 571-572, 89-94.	0.3	1
265	Laser shock processing of 6056 aluminium alloy and influence of the overlapping rate: 3D modelling and experimental validation. , 2008, , .		1
266	The formation and migration of the vacancies in HCP metal Mg. Radiation Effects and Defects in Solids, 2009, 164, 630-638.	0.4	1
267	Atomistic simulation of the vacancy diffusion in (001) surface of MoTa alloy. Applied Surface Science, 2009, 255, 8809-8815.	3.1	1
268	First-principles study on the relaxed structures and electronic properties of Fe nanowires. Physica B: Condensed Matter, 2010, 405, 2726-2732.	1.3	1
269	Direct fabrication of a Ti-47Al-2Cr-2Nb alloy by direct metal deposition. , 2010, , .		1
270	A Study of Nuclear of Interest Martensitic Steels and FeCr ODS Alloys Using Small Angle Neutron Scattering. Materials Science Forum, 2011, 675-677, 815-818.	0.3	1

#	ARTICLE	IF	CITATIONS
271	Atomistic simulation of the point defects in TaW ordered alloy. <i>Pramana - Journal of Physics</i> , 2011, 76, 127-138.	0.9	1
272	Oxidation Kinetic and Diffusion Mechanism Study of a Zr-Based Bulk Metallic Glass Alloy. <i>Materials Science Forum</i> , 0, 675-677, 193-196.	0.3	1
273	Heat Treatments Effect on the Mechanical Properties of Industrial Drawn Copper Wires. <i>Advanced Materials Research</i> , 0, 811, 9-13.	0.3	1
274	Effects of the 3d transition metal doping on the structural, electronic, and magnetic properties of BeO nanotubes. <i>Chinese Physics B</i> , 2014, 23, 017103.	0.7	1
275	Structural, electronic, and magnetic properties of double perovskite $\text{Pb}_{2\text{FeReO}_6}$ thin films with (001) orientation and three possible terminations. <i>Surface and Interface Analysis</i> , 2017, 49, 960-966.	0.8	1
276	Structure transformation of Ti films deposited on SiC single crystal substrates. <i>Materials Characterization</i> , 2017, 134, 64-68.	1.9	1
277	On the Study of a TiB_2 Nanoparticle Reinforced 7075Al Composite with High Tensile Strength and Unprecedented Ductility. <i>Materials Science Forum</i> , 2018, 941, 1933-1938.	0.3	1
278	Multi-Scale Characterization by Neutronography and Electron Diffraction of Ni Coating on Cu-Ni-Al or Cast-Iron Glass Molds after Laser Cladding. <i>Materials Science Forum</i> , 0, 1016, 297-302.	0.3	1
279	Computer predictions of thermo-mechanical behavior and residual stresses in spray coating process. <i>European Physical Journal Special Topics</i> , 2004, 120, 381-388.	0.2	1
280	A Doppler Broadening Steel Annealing Study. <i>Materials Science Forum</i> , 1992, 105-110, 909-912.	0.3	0
281	Diagnostics of TiN coatings process in pulsed D.C plasma enhanced chemical vapor deposition. <i>European Physical Journal Special Topics</i> , 2001, 11, Pr3-1109-Pr3-1116.	0.2	0
282	X-Ray Diffraction Residual Stress Analyses on a Copper Coating Realized by Inert Plasma Spray. <i>Materials Science Forum</i> , 2002, 404-407, 425-430.	0.3	0
283	401 Computer Predictions of Thermo-Mechanical Behavior and Residual Stresses in Spray Coating Process. <i>The Proceedings of the JSME Materials and Processing Conference (M&P)</i> , 2002, 10.1, 222-227.	0.1	0
284	Surface Roughness Effect on Pseudo-GIXRD Stress Analysis. <i>Materials Science Forum</i> , 2005, 490-491, 153-158.	0.3	0
285	XRD Stress Analysis in a TiAl Based Intermetallic Multicrystal. <i>Materials Science Forum</i> , 2005, 490-491, 684-689.	0.3	0
286	An Investigation into Work Hardening of Shot Peening Affected Layer Using X-Ray Stress Analysis Technique. <i>Materials Science Forum</i> , 2005, 490-491, 390-395.	0.3	0
287	Stresses Analysis on Coarse Grain Zn Film during Tensile Loading. <i>Materials Science Forum</i> , 2006, 524-525, 723-728.	0.3	0
288	Synthesis of Lanthanum Silicates Electrolyte for Intermediate Temperature SOFC. <i>ECS Transactions</i> , 2007, 7, 2351-2355.	0.3	0

#	ARTICLE	IF	CITATIONS
289	Modification of the electrochemical properties of 2050-T8 aluminium alloys by a LSP surface treatment. , 2009, , .		0
290	Residual Stress Gradient Study of Laser Shocked Aluminum Alloy by GIXRD Analysis and FEM Simulation. Materials Science Forum, 2009, 614, 61-66.	0.3	0
291	Vacancy diffusion in Cu $\hat{\epsilon}=9$ [110] twist grain boundary. Solid State Sciences, 2009, 11, 1649-1654.	1.5	0
292	Pt adsorption on the PbTiO_3 (110) polar surface: a density functional theory study. Surface and Interface Analysis, 2009, 41, 785-793.	0.8	0
293	The Nondestructive Estimation of Mechanical Properties of a Carbon Steel by X-ray Diffraction Peak Broadening. Journal of Testing and Evaluation, 2009, 37, 343-346.	0.4	0
294	SIA energetic and structural morphology of $\hat{\epsilon}$ -iron. Radiation Effects and Defects in Solids, 2009, 164, 508-516.	0.4	0
295	Structural stability and theoretical strength of Cu crystal under equal biaxial loading. Pramana - Journal of Physics, 2010, 74, 261-270.	0.9	0
296	Internal Stress and Grain Size Effect on the Phase Stabilization of ZrO_2 Deposited by MOCVD. Materials Science Forum, 2011, 675-677, 1201-1204.	0.3	0
297	Heat treatment effect on the mechanical properties of industrial drawn copper wires. , 2013, , .		0
298	Residual Stress and Microstructures Characterization in Welded Al-Si-12Cu Alloy. Advanced Materials Research, 0, 856, 201-204.	0.3	0
299	Residual Stress Study in Oxide Scale Obtained on High Temperature Oxidation of AISI 430 Stainless Steel. Advanced Materials Research, 0, 996, 918-923.	0.3	0
300	Effect of Humidity on High Temperature Oxidation of AISI 430 Stainless Steel. Materials Science Forum, 2015, 833, 165-168.	0.3	0
301	Unveiling the Residual Stresses, Local Micromechanical Properties and Crystallographic Texture in a Ti-6Al-4V Weld Joint. Acta Metallurgica Sinica (English Letters), 2021, 34, 997-1006.	1.5	0
302	OS4(1)-1(OS04W0010) GIXRD Residual Stress Analysis on CVD Tantalum Thin Films. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003, 71.	0.0	0
303	GS(P)-39(GSW0249) Surface Improvement of A Quenched Gear Using Water Peening by a Cavitation Jet Technique. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003, 399.	0.0	0
304	Residual stress distribution near HA coating interface on titanium alloy substrate. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c401-c401.	0.3	0
305	Evaluation of Residual Stress in Fiber-Textured Films by X-ray Diffraction. Journal of Testing and Evaluation, 2006, 34, 13113.	0.4	0
306	Etude de la microstructure de d'Å©formation par diffraction "haute rÅ©solution" : contribution des parois et de lâ€™intÃ©rieur des cellules de dislocations. Revue De Metallurgie, 1993, 90, 1110-1110.	0.3	0

#	ARTICLE	IF	CITATIONS
307	Interests of synchrotron radiation for internal stress analysis. European Physical Journal Special Topics, 1994, 04, C9-265-C9-268.	0.2	0
308	Residual Stress Analysis on Oxide Layers Obtained by High Temperature Oxidation of Chromia-Forming Alloys. , 2017, , .		0
309	Residual Stress Analysis in the Oxide Scales Formed on 316L Stainless Steel at 700 Å°C under Humid Air. , 2018, , .		0
310	Structural, Half-metallic and Magnetic Properties of the Imperfect $\text{Pb}_{1-x}\text{Fe}_x\text{ReO}_6$ Containing Eight Different Inherent Defects. Journal of Magnetism, 2019, 24, 413-422.	0.2	0