Vincent Ji

List of Publications by Year in Descending Order

301 papers	4,194 citations	33 h-index	48 g-index
311 ext. papers	4,918 ext. citations	3.3 avg, IF	5.67 L-index

#	Paper	IF	Citations
301	Kinetics and energetics of room-temperature microstructure in nanocrystalline Cu films: The grain-size dependent intragrain strain energy. *Journal of Applied Physics*, **2022**, 131, 055301	2.5	
300	The synergistic role of Ti microparticles and CeO2 nanoparticles in tailoring microstructures and properties of high-quality Ni matrix nanocomposite coating. *Journal of Materials Science and Technology*, **2022**, 105, 182-193	9.1	2
299	Surface characteristic and wear resistance of S960 high-strength steel after shot peening combing with ultrasonic sprayed graphene oxide coating. *Journal of Materials Research and Technology*, **2022**, 18, 978-989	5.5	1
298	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	5.7	1
297	Surface characteristics and stress corrosion behavior of AA 7075-T6 aluminum alloys after different shot peening processes. *Surface and Coatings Technology*, **2022**, 440, 128481	4.4	1
296	Surface residual stress and microstructure evolutions of Hastelloy X alloy after severe shot peening. *Vacuum*, **2021**, 187, 110136	3.7	10
295	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	9.1	14
294	Microstructure evolution and mechanical properties of a lamellar near-□titanium alloy treated by laser shock peening. *Vacuum*, **2021**, 184, 109906	3.7	7
293	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	2.5	
292	Theoretical analysis and performance prediction on modified surface layer caused by ultrasonic surface rolling. *International Journal of Advanced Manufacturing Technology*, **2021**, 113, 1307-1330	3.2	1
291	Effects of ultrasonic surface rolling on fretting wear behaviors of a novel 25CrNi2MoV steel. *Materials Letters*, **2021**, 284, 128955	3.3	3
290	Surface characteristic and wear resistance of QT-700-2 nodular cast iron after laser quenching combing with shot peening treatment. *Surface and Coatings Technology*, **2021**, 423, 127589	4.4	2
289	Effect of stress shot peening on the residual stress field and microstructure of nanostructured Mg-8Gd-3Y alloy. *Journal of Materials Research and Technology*, **2021**, 10, 74-83	5.5	4
288	Mechanism of Blunt Punching Tools□Influence on Deformation and Residual Stress Distribution. *Metals*, **2021**, 11, 2029	2.3	1
287	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	5.5	6
286	Improved wear properties of NiTi nanocomposite coating with tailored spatial microstructures by extra adding CeO2 nanoparticles. *Surface and Coatings Technology*, **2020**, 399, 126119	4.4	7
285	Effect of shot peening on residual stress distribution and tribological behaviors of 17Cr2Ni2MoVNb steel. *Surface and Coatings Technology*, **2020**, 386, 125497	4.4	22

284	Evaluation of Mechanical Behavior and Surface Morphology of Shot-Peened Ti-6Al-4V Alloy. *Journal of Materials Engineering and Performance*, **2020**, 29, 182-190	1.6	6
283	Residual Stresses and Microstructural Features of Rotary-Friction-Welded from Dissimilar Medium Carbon Steels. *Physics of Metals and Metallography*, **2020**, 121, 1339-1346	1.2	3
282	Atomic-scale investigation of the interface precipitation in a TiB2 nanoparticles reinforced Al□Zn□Mg□Cu matrix composite. *Acta Materialia*, **2020**, 185, 287-299	8.4	53
281	Microstructure evolution and residual stress distribution of nanostructured Mg-8Gd-3Y alloy induced by severe shot peening. *Surface and Coatings Technology*, **2020**, 404, 126465	4.4	4
280	Mechanical properties of CoCrCuFeNi multi-principal element alloy thin films on Kapton substrates. *Surface and Coatings Technology*, **2020**, 402, 126474	4.4	4
279	Microstructures and rolling contact fatigue behaviors of 17Cr2Ni2MoVNb steel under combined ultrasonic surface rolling and shot peening. *International Journal of Fatigue*, **2020**, 141, 105867	5	12
278	Influence of Y2O3 nanoparticles on microstructures and properties of electrodeposited Ni□W□Y2O3 nanocrystalline coatings. *Vacuum*, **2020**, 181, 109665	3.7	16
277	Analytical modeling and experimental verification of surface roughness in the ultrasonic-assisted ball burnishing of shaft targets. *International Journal of Advanced Manufacturing Technology*, **2020**, 107, 3593-3613	3.2	5
276	A new powder metallurgy routine to fabricate TiB2/Al□Zn□Mg□Cu nanocomposites based on composite powders with pre-embedded nanoparticles. *Materialia*, **2019**, 8, 100458	3.2	6
275	Roles of growth mechanisms of Ni deposits on corrosion behaviors of NixAlyTi composite coatings. *Applied Surface Science*, **2019**, 492, 177-188	6.7	6
274	Studying the insulating characters of cubic ZrO2 slabs with nine terminations within three lower index Miller planes (001), (110) and (111). *Microelectronic Engineering*, **2019**, 213, 77-85	2.5	7
273	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	1.5	1
272	Influences of Al and Ti particles on microstructure, internal stress and property of Ni composite coatings. *Journal of Alloys and Compounds*, **2019**, 793, 314-325	5.7	6
271	Surface layer characteristics of SAF2507 duplex stainless steel treated by stress shot peening. *Applied Surface Science*, **2019**, 481, 226-233	6.7	8
270	Cube orientation bands observed in largely deformed Al-Sc alloys containing shearable precipitates. *Scripta Materialia*, **2019**, 166, 139-143	5.6	3
269	Effect of scandia content on the hot corrosion behavior of Sc2O3 and Y2O3 co-doped ZrO2 in Na2SO4 + V2O5 molten salts at 1000 °C. *Corrosion Science*, **2019**, 158, 108094	6.8	14
268	Surface layer microstructures and wear properties modifications of Mg-8Gd-3Y alloy treated by shot peening. *Materials Characterization*, **2019**, 158, 109952	3.9	12
267	Optimization of Microstructural Evolution during Laser Cladding of Ni Based Powder on GCI Glass Molds. *Key Engineering Materials*, **2019**, 813, 185-190	0.4	2

266	Laser cladding of Ni based powder on a Cu-Ni-Al glassmold: Influence of the process parameters on bonding quality and coating geometry. *Journal of Alloys and Compounds*, **2019**, 771, 1018-1028	5.7	20
265	Experimental study of the mechanisms of nanoparticle influencing the fatigue crack growth in an in-situ TiB2/Al-Zn-Mg-Cu composite. *Engineering Fracture Mechanics*, **2019**, 207, 23-35	4.2	13
264	Experimental study on macro- and microstress state, microstructural evolution of austenitic and ferritic steel processed by shot peening. *Surface and Coatings Technology*, **2019**, 359, 511-519	4.4	23
263	Investigation on microstructure and properties of Al18B4O33 whisker reinforced AlMgSi matrix composite after shot peening. *Vacuum*, **2019**, 160, 303-310	3.7	6
262	Cold rolling texture evolution of TiB2 particle reinforced Al-based composites by Neutron Diffraction and EBSD analysis. *Materials Characterization*, **2018**, 136, 293-301	3.9	10
261	Investigation on microstructure and properties of electrodeposited Ni-Ti-CeO2 composite coating. *Journal of Alloys and Compounds*, **2018**, 754, 93-104	5.7	27
260	A comparison study of the structural and mechanical properties of cubic, tetragonal, monoclinic, and three orthorhombic phases of ZrO2. *Journal of Alloys and Compounds*, **2018**, 749, 283-292	5.7	24
259	Microstructure evolution and hot corrosion mechanisms of Ba2REAlO5 (RE = Yb, Er, Dy) exposed to V2O5 + Na2SO4 molten salt. *Journal of the European Ceramic Society*, **2018**, 38, 3555-3563	6	7
258	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	4.4	37
257	Hot corrosion behavior of TiO2 doped, Yb2O3 stabilized zirconia exposed to V2O5 + Na2SO4 molten salt at 700–1000 °C. *Ceramics International*, **2018**, 44, 261-268	5.1	10
256	Residual stress and microstructure evolutions of SAF 2507 duplex stainless steel after shot peening. *Applied Surface Science*, **2018**, 459, 155-163	6.7	14
255	Investigation on the thermostability of residual stress and microstructure in shot peened SAF 2507 duplex stainless steel. *Vacuum*, **2018**, 153, 145-153	3.7	14
254	Effect of the shot peening on the deformation of Al alloy component. *Surface Engineering*, **2018**, 34, 946-953	2.6	2
253	Investigations into the Surface Strain/Stress State in a Single-Crystal Superalloy via XRD Characterization. *Metals*, **2018**, 8, 376	2.3	1
252	Investigation on surface layer characteristics of shot peened graphene reinforced Al composite by X-ray diffraction method. *Applied Surface Science*, **2018**, 435, 1257-1264	6.7	24
251	On the Study of a TiB2 Nanoparticle Reinforced 7075Al Composite with High Tensile Strength and Unprecedented Ductility. *Materials Science Forum*, **2018**, 941, 1933-1938	0.4	1
250	Simultaneously increasing strength and ductility of nanoparticles reinforced Al composites via accumulative orthogonal extrusion process. *Materials Research Letters*, **2018**, 6, 406-412	7.4	35
249	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. *Solid State Sciences*, **2018**, 81, 58-65	3.4	6

248	Formation of Face Centered Cubic Titanium Thin Films on MgO(111) Single Crystal Substrate. *Materials Science Forum*, **2018**, 913, 264-269	0.4	0
247	Estimation of microstructure and corrosion properties of peened nickel aluminum bronze. *Surface and Coatings Technology*, **2017**, 313, 136-142	4.4	31
246	Hot corrosion behavior of (Gd0.9Sc0.1)2Zr2O7 in V2O5 molten salt at 700–1000 °C. *Ceramics International*, **2017**, 43, 9041-9046	5.1	14
245	Effects of TiO2 doping on the defect chemistry and thermo-physical properties of Yb2O3 stabilized ZrO2. *Journal of the European Ceramic Society*, **2017**, 37, 4163-4169	6	36
244	The Roles of Ti Particles in Improving the Corrosion Resistance of Electrochemically Assembled Ni-Ti Composite Coatings. *Corrosion*, **2017**, 73, 1107-1118	1.8	9
243	Calcium-magnesium-alumina-silicate (CMAS) resistance property of BaLn2Ti3O10 (Ln=La, Nd) for thermal barrier coating applications. *Ceramics International*, **2017**, 43, 10521-10527	5.1	19
242	Surface mechanical property and residual stress of peened nickel-aluminum bronze determined by in-situ X-ray diffraction. *Applied Surface Science*, **2017**, 420, 28-33	6.7	12
241	Structural, electronic, and magnetic properties of double perovskite Pb2FeReO6 thin films with (001) orientation and three possible terminations. *Surface and Interface Analysis*, **2017**, 49, 960-966	1.5	1
240	Hot corrosion behavior of Ba2REAlO5 (RE = Dy, Er, Yb) ceramics by vanadium pentoxide at 900–1000 °C. *Ceramics International*, **2017**, 43, 11944-11952	5.1	7
239	Microstructure study of cold rolling nanosized in-situ TiB 2 particle reinforced Al composites. *Materials and Design*, **2017**, 130, 357-365	8.1	37
238	Surface layer characteristics of CNT/Al–Mg–Si alloy composites treated by stress peening. *Surface and Coatings Technology*, **2017**, 317, 10-16	4.4	8
237	Residual stress and microstructure evolution of shot peened Ni-Al bronze at elevated temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 707, 629-635	5.3	8
236	Structure transformation of Ti films deposited on SiC single crystal substrates. *Materials Characterization*, **2017**, 134, 64-68	3.9	0
235	Optimisation of microstructure and corrosion resistance of Ni-Ti composite coatings by the addition of CeO2 nanoparticles. *Surface and Coatings Technology*, **2017**, 331, 196-205	4.4	19
234	Thermal stability of residual stresses and work hardening of shot peened tungsten cemented carbide. *Journal of Materials Processing Technology*, **2017**, 240, 98-103	5.3	25
233	The half-metallic ferromagnetic characters of (001)-oriented thin films of the double perovskite Pb2FeMoO6. *Thin Solid Films*, **2016**, 615, 318-323	2.2	3
232	First-principles study of the structural, electronic, and magnetic properties of double perovskite Sr 2 FeReO 6 containing various imperfections. *Chinese Physics B*, **2016**, 25, 058102	1.2	1
231	The structural, electronic, and magnetic properties of the stoichiometric (001) surface of double perovskite Sr2FeMoO6. *Surface and Interface Analysis*, **2016**, 48, 1040-1047	1.5	3

230	Characterization on surface mechanical properties of Ti6Al4V after shot peening. *Journal of Alloys and Compounds*, **2016**, 666, 65-70	5.7	47
229	Microstructure and residual stresses in Ti-6Al-4V alloy pulsed and unpulsed TIG welds. *Journal of Materials Processing Technology*, **2016**, 231, 441-448	5.3	53
228	EFFECT OF HEAT TREATMENT ON THE MICROSTRUCTURAL EVOLUTION IN WELD REGION OF 304L PIPELINE STEEL. *Journal of Thermal Engineering*, **2016**, 2,	1.1	2
227	Characterization on Surface Properties of Ti6Al4V After Multiple Shot Peening Treatments. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **2016**, 138,	1.8	7
226	Numerical analysis and experimental validation on residual stress distribution of titanium matrix composite after shot peening treatment. *Mechanics of Materials*, **2016**, 99, 2-8	3.3	31
225	The detailed crystal and electronic structures of the cotunnite-type ZrO2. *Solid State Communications*, **2016**, 239, 27-31	1.6	1
224	Fabrication and characterization of Ni–Zr composite coatings using electrodepositing technique. *Journal of Alloys and Compounds*, **2015**, 635, 73-81	5.7	26
223	The Effect of Y/Ti Ratio on Oxide Precipitate Evolution in ODS Fe-14 Wt Pct Cr Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 1413-1418	2.3	9
222	Effects of the defects on the structural, electronic and magnetic properties of Sr2FeMoO6. *Journal of Alloys and Compounds*, **2015**, 648, 374-381	5.7	8
221	Effects of Co contents on the microstructures and properties of the electrodeposited NiCo–Zr composite coatings. *Materials Research Bulletin*, **2015**, 65, 195-203	5.1	2
220	Effects of the defects on the half-metallic characters and magnetic properties in double perovskite Pb2FeMoO6. *Materials Chemistry and Physics*, **2015**, 162, 711-723	4.4	3
219	A first-principles study on gas sensing properties of graphene and Pd-doped graphene. *Applied Surface Science*, **2015**, 343, 121-127	6.7	155
218	Quantitative study of particle size distribution in an in-situ grown Al–TiB2 composite by synchrotron X-ray diffraction and electron microscopy. *Materials Characterization*, **2015**, 102, 131-136	3.9	66
217	Study of ion diffusion in oxidation films grown on a model Fe–15%Cr alloy. *Solid State Ionics*, **2015**, 276, 1-8	3.3	14
216	Residual stress distribution and microstructure in the friction stir weld of 7075 aluminum alloy. *Journal of Materials Science*, **2015**, 50, 7262-7270	4.3	11
215	Effects of vertical strain on zigzag graphene nanoribbon with a topological line defect. *Physica E: Low-Dimensional Systems and Nanostructures*, **2015**, 67, 116-120	3	4
214	Effects of Co contents on the microstructures and properties of electrodeposited NiCo–Al composite coatings. *Applied Surface Science*, **2015**, 324, 482-489	6.7	25
213	Finite element analysis of laser shock peening of 2050-T8 aluminum alloy. *International Journal of Fatigue*, **2015**, 70, 480-489	5	87

212	Structural, electronic and magnetic properties of the Si chains doped zigzag AlN nanoribbons. *Physica E: Low-Dimensional Systems and Nanostructures*, **2015**, 65, 114-119	3	6
211	Hydrogen adsorption and storage on palladium-decorated graphene with boron dopants and vacancy defects: A first-principles study. *Physica E: Low-Dimensional Systems and Nanostructures*, **2015**, 66, 40-47	3	25
210	Effect of Humidity on High Temperature Oxidation of AISI 430 Stainless Steel. *Materials Science Forum*, **2015**, 833, 165-168	0.4	
209	Characterization of the deformation texture after tensile test and cold rolling of a Ti-6Al-4V sheet alloy. *IOP Conference Series: Materials Science and Engineering*, **2015**, 82, 012018	0.4	2
208	Two stages for the evolution of crystallite size and texture of electrodeposited Ni–ZrC composite coating. *Surface and Coatings Technology*, **2015**, 261, 122-129	4.4	9
207	A first-principles study on uniaxial strain effects of nonplanar oxygen-functionalized armchair graphene nanoribbons. *Journal of Alloys and Compounds*, **2015**, 631, 219-224	5.7	4
206	Ion Diffusion Study in the Oxide Layers Due to Oxidation of AISI 439 Ferritic Stainless Steel. *Oxidation of Metals*, **2014**, 81, 407-419	1.6	15
205	Electrochemical Behaviour of Pure Aluminium and Al–5%Zn Alloy in 3% NaCl Solution. *Arabian Journal for Science and Engineering*, **2014**, 39, 113-122		14
204	Armchair graphene nanoribbons under shear strain. *Physica E: Low-Dimensional Systems and Nanostructures*, **2014**, 60, 156-159	3	3
203	Residual stresses in oxide scale formed on Fe–17Cr stainless steel. *Applied Surface Science*, **2014**, 316, 108-113	6.7	16
202	The study of the P doped silicene nanoribbons with first-principles. *Computational Materials Science* , **2014**, 95, 429-434	3.2	22
201	Microstructure and mechanical properties of friction stir processed Al–Mg–Si alloys dispersion-strengthened by nanosized TiB2 particles. *Journal of Alloys and Compounds*, **2014**, 616, 128-136	5.7	46
200	Synthesis and characterization of Ni–Al–Y2O3 composite coatings with different Y2O3 particle content. *Ceramics International*, **2014**, 40, 15105-15111	5.1	16
199	Structural and electronic properties of single-side fluorinated graphene C4F under equibiaxial strains. *Physica E: Low-Dimensional Systems and Nanostructures*, **2014**, 58, 59-62	3	6
198	Magnetic properties and possible martensitic transformation in Mn2NiSi and Ni2MnSi Heusler alloys. *Journal of Magnetism and Magnetic Materials*, **2014**, 362, 42-46	2.8	12
197	Improving SO2 gas sensing properties of graphene by introducing dopant and defect: A first-principles study. *Applied Surface Science*, **2014**, 313, 405-410	6.7	78
196	The effect of defects on the magnetic properties and spin polarization of Ti2FeAl Heusler alloy. *Journal of Magnetism and Magnetic Materials*, **2014**, 351, 25-28	2.8	12
195	Residual Stress Study in Oxide Scale Obtained on High Temperature Oxidation of AISI 430 Stainless Steel. *Advanced Materials Research*, **2014**, 996, 918-923	0.5	

194	Effects of the 3d transition metal doping on the structural, electronic, and magnetic properties of BeO nanotubes. *Chinese Physics B*, **2014**, 23, 017103	1.2	0
193	X-Ray Analysis of Residual Stress in Weld Region of X70 Pipeline Steel. *Advanced Materials Research* , **2014**, 936, 2011-2016	0.5	4
192	Residual stress and micro-structure of GCr15 steel after multistep shot peening. *Surface Engineering*, **2014**, 30, 847-851	2.6	10
191	Hydrogen adsorption and storage of Ca-decorated graphene with topological defects: A first-principles study. *Physica E: Low-Dimensional Systems and Nanostructures*, **2014**, 63, 45-51	3	26
190	Nitrogen and Boron substitutional doped zigzag silicene nanoribbons: Ab initio investigation. *Physica E: Low-Dimensional Systems and Nanostructures*, **2014**, 60, 112-117	3	17
189	Structural and electronic properties of copper nanowires inside zigzag carbon nanotubes. *Physica B: Condensed Matter*, **2014**, 447, 77-82	2.8	1
188	Neutron Diffraction Study of Strain/Stress States and Subgrain Defects in a Creep-Deformed, Single-Crystal Superalloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 139-146	2.3	9
187	Structural and electronic properties of armchair graphene nanoribbons under uniaxial strain. *Physica E: Low-Dimensional Systems and Nanostructures*, **2014**, 56, 55-58	3	9
186	Interface effects at a ferromagnetic and ferroelectric junction. *Thin Solid Films*, **2013**, 540, 92-95	2.2	5
185	Electronic structure and magnetism of Ti 2 FeSi: A first-principles study. *Journal of Magnetism and Magnetic Materials*, **2013**, 345, 171-175	2.8	17
184	General compliance transformation relations for all seven crystal systems. *Science China: Physics, Mechanics and Astronomy*, **2013**, 56, 694-700	3.6	4
183	Residual Stresses Comparison Determined by Short-Wavelength X-Ray Diffraction and Neutron Diffraction for 7075 Aluminum Alloy. *Journal of Nondestructive Evaluation*, **2013**, 33, 82	2.1	7
182	The detailed orbital-decomposed electronic structures of tetragonal ZrO2. *Physica B: Condensed Matter*, **2013**, 411, 126-130	2.8	7
181	Influence of humidity on high temperature oxidation of Inconel 600 alloy: Oxide layers and residual stress study. *Applied Surface Science*, **2013**, 284, 446-452	6.7	32
180	Uniformity of residual stress distribution on the surface of S30432 austenitic stainless steel by different shot peening processes. *Materials Letters*, **2013**, 99, 61-64	3.3	49
179	Residual stress study of nanostructured zirconia films obtained by MOCVD and by sol–gel routes. *Applied Surface Science*, **2013**, 276, 138-146	6.7	3
178	The detailed geometrical and electronic structures of monoclinic zirconia. *Journal of Physics and Chemistry of Solids*, **2013**, 74, 518-523	3.9	17
177	Microstructure characterization and deposition mechanism studies of ZrO2 thin films deposited by LI-MOCVD. *Surface and Coatings Technology*, **2013**, 218, 7-16	4.4	4

176	Stabilization of the tetragonal phase in large columnar zirconia crystals without incorporating dopants. *Scripta Materialia*, **2013**, 68, 559-562	5.6	10
175	Effect of shot peening on the residual stress and microstructure of duplex stainless steel. *Surface and Coatings Technology*, **2013**, 226, 140-144	4.4	32
174	Ab initio study of iron nanowires encapsulated inside silicon nitride nanotubes. *Physica E: Low-Dimensional Systems and Nanostructures*, **2013**, 49, 97-104	3	5
173	Structural and electronic properties of substitutionally doped armchair silicene nanoribbons. *Physica B: Condensed Matter*, **2013**, 425, 66-71	2.8	33
172	Structural and electronic properties of BeO nanotubes filled with Cu nanowires. *European Physical Journal B*, **2013**, 86, 1	1.2	3
171	Heat Treatments Effect on the Mechanical Properties of Industrial Drawn Copper Wires. *Advanced Materials Research*, **2013**, 811, 9-13	0.5	1
170	Thermostability of S30432 shot peened surface layer. *Surface Engineering*, **2013**, 29, 61-64	2.6	2
169	Residual Stress and Microstructures Characterization in Welded Al-Si-12Cu Alloy. *Advanced Materials Research*, **2013**, 856, 201-204	0.5	
168	Microstructural Evolution and Mechanical Response of the Surface of 18CrNiMo7-6 Steel after Multistep Shot Peening during Annealing. *Materials Transactions*, **2013**, 54, 2180-2184	1.3	1
167	Study of the thermal stability of nanoparticle distributions in an oxide dispersion strengthened (ODS) ferritic alloys. *Journal of Nuclear Materials*, **2012**, 428, 154-159	3.3	49
166	Half-metallic ferromagnetic nature of the double perovskite Pb2FeMoO6 from first-principle calculations. *Journal of Physics and Chemistry of Solids*, **2012**, 73, 1116-1121	3.9	32
165	The structural, electronic and magnetic properties of a symmetrical FeMoO terminated (001)-oriented slab of double perovskite Sr2FeMoO6. *Thin Solid Films*, **2012**, 520, 5695-5701	2.2	2
164	Orbital-decomposed electronic and magnetic properties of the double perovskite Sr2FeReO6. *Physica B: Condensed Matter*, **2012**, 407, 912-917	2.8	10
163	Structural, electronic and magnetic properties of the double perovskite Pb2FeReO6. *Physica B: Condensed Matter*, **2012**, 407, 2617-2621	2.8	13
162	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	2.6	5
161	About the Role of Chromium and Oxygen Ion Diffusion on the Growth Mechanism of Oxidation Films of the AISI 304 Austenitic Stainless Steel. *Oxidation of Metals*, **2012**, 78, 211-220	1.6	25
160	The relationship between t-ZrO2 stability and the crystallization of a Zr-based bulk metallic glass during oxidation. *Intermetallics*, **2012**, 31, 21-25	3.5	10
159	XRD peak broadening characterization of deformed microstructures and heterogeneous behavior of carbon steel. *Theoretical and Applied Fracture Mechanics*, **2012**, 61, 51-56	3.7	7

158	First-Principle Study on Structural and Electronic Properties of Pristine and Adsorbed LiF Nanotubes. *Journal of Physical Chemistry C*, **2012**, 116, 1650-1657	3.8	9
157	Orbital-decomposed electronic structures of cubic zirconia. *Solid State Communications*, **2012**, 152, 1673-1677	1.6	6
156	Surface mechanical properties of S30432 austenitic steel after shot peening. *Applied Surface Science*, **2012**, 258, 9559-9563	6.7	19
155	Effect of prestress state on surface layer characteristic of S30432 austenitic stainless steel in shot peening process. *Materials & Design*, **2012**, 42, 89-93		26
154	Diffusion mechanism of Zr-based metallic glass during oxidation under dry air. *Intermetallics*, **2012**, 28, 102-107	3.5	14
153	Structural, electronic and magnetic properties of a symmetrical FeReO terminated (001)-oriented slab of double perovskite Sr2FeReO6. *Materials Chemistry and Physics*, **2012**, 136, 570-576	4.4	11
152	Determination of Oxygen Diffusion Coefficient in Oxidation Films of the AISI 439 Ferritic Stainless Steel. *Defect and Diffusion Forum*, **2012**, 323-325, 339-344	0.7	3
151	Oxygen Diffusion Study in Oxidation Films of the AISI 304 Austenitic Stainless Steel. *Defect and Diffusion Forum*, **2012**, 323-325, 345-351	0.7	4
150	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, 041508	2.9	3
149	Surface Layer Characteristics of S30432 Austenite Stainless Steel after Shot Peening. *Materials Transactions*, **2012**, 53, 1002-1006	1.3	18
148	Residual Stress Relaxation of Shot Peened Deformation Surface Layer on S30432 Austenite Steel under Applied Loading. *Materials Transactions*, **2012**, 53, 1578-1581	1.3	13
147	Thermal Relaxation Behavior of Residual Stress and Microstructure in Shot Peened S30432 Steel at Elevated Temperatures. *Materials Transactions*, **2012**, 53, 1195-1198	1.3	3
146	Electronic and magnetic properties of pristine and chemically functionalized germanene nanoribbons. *Nanoscale*, **2011**, 3, 4330-8	7.7	65
145	Structural and electronic properties of a single C chain doped zigzag AlN nanoribbon. *Computational and Theoretical Chemistry*, **2011**, 974, 151-158	2	14
144	Fretting wear behavior of bulk amorphous steel. *Intermetallics*, **2011**, 19, 1385-1389	3.5	24
143	Textured tetragonal ZrO2 film grown on (100) silicon surface by DLI metal-organic chemical vapor deposition. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 8009-16	1.3	2
142	Texture and surface morphology effects on tetragonal phase stabilization in ZrO2 films deposited by metal-organic chemical vapor deposition. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 8264-8	1.3	2
141	Residual stress gradient analysis with GIXRD on ZrO2 thin films deposited by MOCVD. *Surface and Coatings Technology*, **2011**, 206, 405-410	4.4	36

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