

# Vincent Ji

## List of Publications by Citations

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ext. citations

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#	Paper	IF	Citations
301	A first-principles study on gas sensing properties of graphene and Pd-doped graphene. <i>Applied Surface Science</i> , <b>2015</b> , 343, 121-127	6.7	155
300	General compliance transformation relation and applications for anisotropic hexagonal metals. <i>Solid State Communications</i> , <b>2006</b> , 139, 87-91	1.6	121
299	Finite element analysis of laser shock peening of 2050-T8 aluminum alloy. <i>International Journal of Fatigue</i> , <b>2015</b> , 70, 480-489	5	87
298	Improving SO <sub>2</sub> gas sensing properties of graphene by introducing dopant and defect: A first-principles study. <i>Applied Surface Science</i> , <b>2014</b> , 313, 405-410	6.7	78
297	Quantitative study of particle size distribution in an in-situ grown Al <sub>3</sub> TiB <sub>2</sub> composite by synchrotron X-ray diffraction and electron microscopy. <i>Materials Characterization</i> , <b>2015</b> , 102, 131-136	3.9	66
296	Hydride embrittlement in ZIRCALOY-4 plate: Part II. interaction between the tensile stress and the hydride morphology. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>1994</b> , 25, 1199-1208	2.3	66
295	Electronic and magnetic properties of pristine and chemically functionalized germanene nanoribbons. <i>Nanoscale</i> , <b>2011</b> , 3, 4330-8	7.7	65
294	Investigation of magnetic properties, residual stress and densification in compacted iron powder specimens coated with polyepoxy. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 114, 588-594	4.4	60
293	Competition between surface and strain energy during grain growth in free-standing and attached Ag and Cu films on Si substrates. <i>Applied Surface Science</i> , <b>2002</b> , 187, 60-67	6.7	58
292	First-principles study of the perfect and vacancy defect AlN nanoribbon. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 3775-3781	2.8	57
291	Improvement in wear resistance of plasma sprayed yttria stabilized zirconia coating using nanostructured powder. <i>Tribology International</i> , <b>2004</b> , 37, 77-84	4.9	57
290	Microstructure and residual stresses in Ti-6Al-4V alloy pulsed and unpulsed TIG welds. <i>Journal of Materials Processing Technology</i> , <b>2016</b> , 231, 441-448	5.3	53
289	Direct Fabrication of a Ti-47Al-2Cr-2Nb Alloy by Selective Laser Melting and Direct Metal Deposition Processes. <i>Advanced Materials Research</i> , <b>2010</b> , 89-91, 586-591	0.5	53
288	Atomic-scale investigation of the interface precipitation in a TiB <sub>2</sub> nanoparticles reinforced Al <sub>75</sub> Ni <sub>15</sub> Mg <sub>10</sub> Cu matrix composite. <i>Acta Materialia</i> , <b>2020</b> , 185, 287-299	8.4	53
287	Young's modulus surface and Poisson's ratio curve for cubic metals. <i>Journal of Physics and Chemistry of Solids</i> , <b>2007</b> , 68, 503-510	3.9	51
286	Dependence of strain energy on the grain orientations in an FCC-polycrystalline film on rigid substrate. <i>Applied Surface Science</i> , <b>2002</b> , 185, 177-182	6.7	50
285	Study of the thermal stability of nanoparticle distributions in an oxide dispersion strengthened (ODS) ferritic alloys. <i>Journal of Nuclear Materials</i> , <b>2012</b> , 428, 154-159	3.3	49

284	Uniformity of residual stress distribution on the surface of S30432 austenitic stainless steel by different shot peening processes. <i>Materials Letters</i> , <b>2013</b> , 99, 61-64	3.3	49
283	Residual stresses in surface induction hardening of steels: Comparison between experiment and simulation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 487, 328-339	5.3	48
282	Strain-energy-driven abnormal grain growth in copper films on silicon substrates. <i>Journal of Crystal Growth</i> , <b>2001</b> , 226, 168-174	1.6	48
281	Characterization on surface mechanical properties of Ti <sub>3</sub> Al <sub>2</sub> V after shot peening. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 666, 65-70	5.7	47
280	Correlation of crystallization behavior and mechanical properties of thermal sprayed PEEK coating. <i>Surface and Coatings Technology</i> , <b>2006</b> , 200, 6690-6695	4.4	47
279	Microstructure and mechanical properties of friction stir processed AlMgSi alloys dispersion-strengthened by nanosized TiB <sub>2</sub> particles. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 616, 128-136	5.7	46
278	Corrosion behavior of NiTi alloy in fetal bovine serum. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 5551-5560	6.7	46
277	First-principles study on electronic properties of SiC nanoribbon. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 3259-3265	4.3	45
276	Synthesis, structure, microstructure and mechanical characteristics of MOCVD deposited zirconia films. <i>Applied Surface Science</i> , <b>2007</b> , 253, 4626-4640	6.7	43
275	Atomistic simulation of point defects at low-index surfaces of noble metals. <i>Surface Science</i> , <b>2006</b> , 600, 1277-1282	1.8	40
274	Microstructure study of cold rolling nanosized in-situ TiB <sub>2</sub> particle reinforced Al composites. <i>Materials and Design</i> , <b>2017</b> , 130, 357-365	8.1	37
273	Evaluation of the residual stress and microstructure character in SAF 2507 duplex stainless steel after multiple shot peening process. <i>Surface and Coatings Technology</i> , <b>2018</b> , 344, 132-140	4.4	37
272	Effects of TiO <sub>2</sub> doping on the defect chemistry and thermo-physical properties of Yb <sub>2</sub> O <sub>3</sub> stabilized ZrO <sub>2</sub> . <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 4163-4169	6	36
271	Residual stress gradient analysis with GIXRD on ZrO <sub>2</sub> thin films deposited by MOCVD. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 405-410	4.4	36
270	Influence of shot peening on the fatigue life of laser hardened 17-4PH steel. <i>International Journal of Fatigue</i> , <b>2011</b> , 33, 549-556	5	35
269	Simultaneously increasing strength and ductility of nanoparticles reinforced Al composites via accumulative orthogonal extrusion process. <i>Materials Research Letters</i> , <b>2018</b> , 6, 406-412	7.4	35
268	Structural and electronic properties of substitutionally doped armchair silicene nanoribbons. <i>Physica B: Condensed Matter</i> , <b>2013</b> , 425, 66-71	2.8	33
267	Anisotropic elasticity in hexagonal crystals. <i>Thin Solid Films</i> , <b>2007</b> , 515, 7020-7024	2.2	33

266	Half-metallic ferromagnetic nature of the double perovskite $Pb_2FeMoO_6$ from first-principle calculations. <i>Journal of Physics and Chemistry of Solids</i> , <b>2012</b> , 73, 1116-1121	3.9	32
265	Influence of humidity on high temperature oxidation of Inconel 600 alloy: Oxide layers and residual stress study. <i>Applied Surface Science</i> , <b>2013</b> , 284, 446-452	6.7	32
264	Effect of shot peening on the residual stress and microstructure of duplex stainless steel. <i>Surface and Coatings Technology</i> , <b>2013</b> , 226, 140-144	4.4	32
263	Estimation of microstructure and corrosion properties of peened nickel aluminum bronze. <i>Surface and Coatings Technology</i> , <b>2017</b> , 313, 136-142	4.4	31
262	Microstructure and mechanical properties of flame-sprayed PEEK coating remelted by laser process. <i>Progress in Organic Coatings</i> , <b>2009</b> , 66, 248-253	4.8	31
261	Numerical analysis and experimental validation on residual stress distribution of titanium matrix composite after shot peening treatment. <i>Mechanics of Materials</i> , <b>2016</b> , 99, 2-8	3.3	31
260	Residual stress gradient analysis by the GIXRD method on CVD tantalum thin films. <i>Surface and Coatings Technology</i> , <b>2006</b> , 200, 2738-2743	4.4	30
259	Investigation on microstructure and properties of electrodeposited Ni-Ti-CeO <sub>2</sub> composite coating. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 754, 93-104	5.7	27
258	Effects of exposure at 700 °C on RT tensile properties in a PM TiAl alloy. <i>Intermetallics</i> , <b>2006</b> , 14, 1143-1150	3.5	27
257	Fabrication and characterization of NiZr composite coatings using electrodepositing technique. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 635, 73-81	5.7	26
256	Hydrogen adsorption and storage of Ca-decorated graphene with topological defects: A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2014</b> , 63, 45-51	3	26
255	Effect of prestress state on surface layer characteristic of S30432 austenitic stainless steel in shot peening process. <i>Materials &amp; Design</i> , <b>2012</b> , 42, 89-93		26
254	Ab initio modeling of CaTiO <sub>3</sub> (110) polar surfaces. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	26
253	Thermal residual stresses in ceramic matrix composites. Experimental results for model materials. <i>Acta Metallurgica Et Materialia</i> , <b>1995</b> , 43, 2255-2268		26
252	Effects of Co contents on the microstructures and properties of electrodeposited NiCoAl composite coatings. <i>Applied Surface Science</i> , <b>2015</b> , 324, 482-489	6.7	25
251	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> , <b>2015</b> , 66, 40-47	3	25
250	Thermal stability of residual stresses and work hardening of shot peened tungsten cemented carbide. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 240, 98-103	5.3	25
249	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> , <b>2012</b> , 78, 211-220	1.6	25

248	A comparison study of the structural and mechanical properties of cubic, tetragonal, monoclinic, and three orthorhombic phases of ZrO <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 749, 283-292	5.7	24
247	Fretting wear behavior of bulk amorphous steel. <i>Intermetallics</i> , <b>2011</b> , 19, 1385-1389	3.5	24
246	Investigation on surface layer characteristics of shot peened graphene reinforced Al composite by X-ray diffraction method. <i>Applied Surface Science</i> , <b>2018</b> , 435, 1257-1264	6.7	24
245	Comparison of Electronic and Magnetic Properties of Fe, Co, and Ni Nanowires Encapsulated in Boron Nitride Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17745-17750	3.8	23
244	Experimental study on macro- and microstress state, microstructural evolution of austenitic and ferritic steel processed by shot peening. <i>Surface and Coatings Technology</i> , <b>2019</b> , 359, 511-519	4.4	23
243	Effect of shot peening on residual stress distribution and tribological behaviors of 17Cr2Ni2MoVNb steel. <i>Surface and Coatings Technology</i> , <b>2020</b> , 386, 125497	4.4	22
242	The study of the P doped silicene nanoribbons with first-principles. <i>Computational Materials Science</i> , <b>2014</b> , 95, 429-434	3.2	22
241	Investigation for warm peening of TiB <sub>2</sub> /Al composite using X-ray diffraction. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 497, 374-377	5.3	22
240	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> , <b>2001</b> , 180, 1-5	6.7	21
239	Thermal relaxation of residual stresses in shot peened surface layer of (TiB + TiC)/TiBAl <sub>2</sub> V composite at elevated temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 6478-6483	5.3	20
238	The influence of Nb ion implantation upon oxidation behavior and hardness of a Ti-48 at.% Al alloy. <i>Surface and Coatings Technology</i> , <b>1998</b> , 100-101, 214-218	4.4	20
237	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> , <b>2019</b> , 771, 1018-1028	5.7	20
236	Calcium-magnesium-alumina-silicate (CMAS) resistance property of BaLn <sub>2</sub> Ti <sub>3</sub> O <sub>10</sub> (Ln=La, Nd) for thermal barrier coating applications. <i>Ceramics International</i> , <b>2017</b> , 43, 10521-10527	5.1	19
235	Optimisation of microstructure and corrosion resistance of Ni-Ti composite coatings by the addition of CeO <sub>2</sub> nanoparticles. <i>Surface and Coatings Technology</i> , <b>2017</b> , 331, 196-205	4.4	19
234	Surface mechanical properties of S30432 austenitic steel after shot peening. <i>Applied Surface Science</i> , <b>2012</b> , 258, 9559-9563	6.7	19
233	Microstructure, mechanical and tribological properties of TiB <sub>2</sub> /Al films prepared by reactive magnetron sputtering. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 1336-1340	3.5	19
232	Effect of shot peening on surface mechanical properties of TiB <sub>2</sub> /Al composite. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 2454-2458	4.3	19
231	Surface Layer Characteristics of S30432 Austenite Stainless Steel after Shot Peening. <i>Materials Transactions</i> , <b>2012</b> , 53, 1002-1006	1.3	18

230	X-ray study on single crystal superalloy SRR99: Mismatch $\gamma$ , mosaicity and internal stress. <i>Acta Materialia</i> , <b>1997</b> , 45, 791-800	8.4	18
229	A study of mechanical properties and microscopic stress of a two-phase TiAl-based intermetallic alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 315, 195-201	5.3	18
228	Electronic structure and magnetism of Ti <sub>2</sub> FeSi: A first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 345, 171-175	2.8	17
227	The detailed geometrical and electronic structures of monoclinic zirconia. <i>Journal of Physics and Chemistry of Solids</i> , <b>2013</b> , 74, 518-523	3.9	17
226	Nitrogen and Boron substitutional doped zigzag silicene nanoribbons: Ab initio investigation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2014</b> , 60, 112-117	3	17
225	Thermal Relaxation of Residual Stresses in Shot Peened Surface Layer on TiB <sub>2</sub> /Al Composite at Elevated Temperatures. <i>Materials Transactions</i> , <b>2009</b> , 50, 1499-1501	1.3	17
224	Representation surfaces of Young's modulus and Poisson's ratio for BCC transition metals. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 390, 106-111	2.8	17
223	First-principles study of the (001) surface of cubic PbTiO <sub>3</sub> . <i>Surface and Interface Analysis</i> , <b>2008</b> , 40, 1382-1387	1.387	17
222	Effect of internal stresses on the fracture toughness of a TiAl-based alloy with duplex microstructures. <i>Acta Materialia</i> , <b>2003</b> , 51, 5349-5358	8.4	17
221	Residual stresses in oxide scale formed on Fe-17Cr stainless steel. <i>Applied Surface Science</i> , <b>2014</b> , 316, 108-113	6.7	16
220	Synthesis and characterization of NiAl <sub>2</sub> O <sub>3</sub> composite coatings with different Y <sub>2</sub> O <sub>3</sub> particle content. <i>Ceramics International</i> , <b>2014</b> , 40, 15105-15111	5.1	16
219	First-principle study on energetics and electronic structure of a single copper atomic chain bound in carbon nanotube. <i>European Physical Journal B</i> , <b>2009</b> , 72, 119-126	1.2	16
218	Comparative Study of Mechanical Properties and Residual Stress Distributions of Copper Coatings Obtained by Different Thermal Spray Processes. <i>Surface Engineering</i> , <b>2001</b> , 17, 317-322	2.6	16
217	Microstructural study by XRD profile analysis and tem observations on hydrided recrystallized zircaloy-4. <i>Scripta Metallurgica Et Materialia</i> , <b>1992</b> , 26, 369-374		16
216	Influence of Y <sub>2</sub> O <sub>3</sub> nanoparticles on microstructures and properties of electrodeposited NiAl <sub>2</sub> O <sub>3</sub> nanocrystalline coatings. <i>Vacuum</i> , <b>2020</b> , 181, 109665	3.7	16
215	Ion Diffusion Study in the Oxide Layers Due to Oxidation of AISI 439 Ferritic Stainless Steel. <i>Oxidation of Metals</i> , <b>2014</b> , 81, 407-419	1.6	15
214	General compliance transformation relation and applications for anisotropic cubic metals. <i>Materials Letters</i> , <b>2008</b> , 62, 1328-1332	3.3	15
213	Ab initio calculation of neutral and singly charged Mg <sub>n</sub> (n $\geq$ 1) clusters. <i>Physica B: Condensed Matter</i> , <b>2008</b> , 403, 3119-3124	2.8	15

212	SURFACE ROUGHNESS EFFECTS ON STRESS DETERMINATION BY THE X-RAY DIFFRACTION METHOD. <i>Experimental Techniques</i> , <b>1995</b> , 19, 9-11	1.4	15
211	Hot corrosion behavior of (Gd <sub>0.9</sub> Sc <sub>0.1</sub> ) <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> in V <sub>2</sub> O <sub>5</sub> molten salt at 700–1000 °C. <i>Ceramics International</i> , <b>2017</b> , 43, 9041-9046	5.1	14
210	Study of ion diffusion in oxidation films grown on a model Fe–15%Cr alloy. <i>Solid State Ionics</i> , <b>2015</b> , 276, 1-8	3.3	14
209	Residual stress and microstructure evolutions of SAF 2507 duplex stainless steel after shot peening. <i>Applied Surface Science</i> , <b>2018</b> , 459, 155-163	6.7	14
208	Investigation on the thermostability of residual stress and microstructure in shot peened SAF 2507 duplex stainless steel. <i>Vacuum</i> , <b>2018</b> , 153, 145-153	3.7	14
207	Effect of scandia content on the hot corrosion behavior of Sc <sub>2</sub> O <sub>3</sub> and Y <sub>2</sub> O <sub>3</sub> co-doped ZrO <sub>2</sub> in Na <sub>2</sub> SO <sub>4</sub> + V <sub>2</sub> O <sub>5</sub> molten salts at 1000 °C. <i>Corrosion Science</i> , <b>2019</b> , 158, 108094	6.8	14
206	Electrochemical Behaviour of Pure Aluminium and Al–5%Zn Alloy in 3% NaCl Solution. <i>Arabian Journal for Science and Engineering</i> , <b>2014</b> , 39, 113-122		14
205	Diffusion mechanism of Zr-based metallic glass during oxidation under dry air. <i>Intermetallics</i> , <b>2012</b> , 28, 102-107	3.5	14
204	Structural and electronic properties of a single C chain doped zigzag AlN nanoribbon. <i>Computational and Theoretical Chemistry</i> , <b>2011</b> , 974, 151-158	2	14
203	Structural, electronic, and magnetic properties of boron nitride nanotubes filled with iron nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 840-6	1.3	14
202	Laser shock processing with two different laser sources on 2050-T8 aluminum alloy. <i>International Journal of Structural Integrity</i> , <b>2011</b> , 2, 87-100	1	14
201	Structural, electronic and magnetic properties of the 3d transition metal atoms adsorbed on boron nitride nanotubes. <i>European Physical Journal B</i> , <b>2010</b> , 76, 289-299	1.2	14
200	Young's Modulus Surface and Poisson's Ratio Curve for Orthorhombic Crystals. <i>Journal of Chemical Crystallography</i> , <b>2008</b> , 38, 733-741	0.5	14
199	X-ray elastic constant determination and microstresses of $\beta$ phase of a two-phase TiAl-based intermetallic alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 341, 182-188	5.3	14
198	Toughening effects of Mo and Nb addition on impact toughness and crack resistance of titanium alloys. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 79, 147-164	9.1	14
197	Structural, electronic and magnetic properties of the double perovskite Pb <sub>2</sub> FeReO <sub>6</sub> . <i>Physica B: Condensed Matter</i> , <b>2012</b> , 407, 2617-2621	2.8	13
196	First-principles study of the (1 1 0) polar surface of cubic PbTiO <sub>3</sub> . <i>Computational Materials Science</i> , <b>2009</b> , 44, 1360-1365	3.2	13
195	Residual Stress Relaxation of Shot Peened Deformation Surface Layer on S30432 Austenite Steel under Applied Loading. <i>Materials Transactions</i> , <b>2012</b> , 53, 1578-1581	1.3	13

194	Adsorption of oxygen atom on the pristine and antisite defected SiC nanotubes. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 2673-2679	2.8	13
193	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> , <b>2005</b> , 192, 139-144	4.4	13
192	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> , <b>2000</b> , 130, 95-99	4.4	13
191	Experimental study of the mechanisms of nanoparticle influencing the fatigue crack growth in an in-situ TiB <sub>2</sub> /Al-Zn-Mg-Cu composite. <i>Engineering Fracture Mechanics</i> , <b>2019</b> , 207, 23-35	4.2	13
190	Surface mechanical property and residual stress of peened nickel-aluminum bronze determined by in-situ X-ray diffraction. <i>Applied Surface Science</i> , <b>2017</b> , 420, 28-33	6.7	12
189	Surface layer microstructures and wear properties modifications of Mg-8Gd-3Y alloy treated by shot peening. <i>Materials Characterization</i> , <b>2019</b> , 158, 109952	3.9	12
188	Magnetic properties and possible martensitic transformation in Mn <sub>2</sub> NiSi and Ni <sub>2</sub> MnSi Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 362, 42-46	2.8	12
187	The effect of defects on the magnetic properties and spin polarization of Ti <sub>2</sub> FeAl Heusler alloy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 351, 25-28	2.8	12
186	Young's modulus surface and Poisson's ratio curve for tetragonal crystals. <i>Chinese Physics B</i> , <b>2008</b> , 17, 1565-1573	1.2	12
185	Influence of shot peening on superficial yield strength of spring steel in hard state. <i>Surface Engineering</i> , <b>1998</b> , 14, 469-472	2.6	12
184	Microstructures and rolling contact fatigue behaviors of 17Cr <sub>2</sub> Ni <sub>2</sub> MoVNb steel under combined ultrasonic surface rolling and shot peening. <i>International Journal of Fatigue</i> , <b>2020</b> , 141, 105867	5	12
183	Residual stress distribution and microstructure in the friction stir weld of 7075 aluminum alloy. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 7262-7270	4.3	11
182	Structural, electronic and magnetic properties of a symmetrical FeReO terminated (001)-oriented slab of double perovskite Sr <sub>2</sub> FeReO <sub>6</sub> . <i>Materials Chemistry and Physics</i> , <b>2012</b> , 136, 570-576	4.4	11
181	Electronic and magnetic properties of perfect and defected germanium nanoribbons. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 130, 140-146	4.4	11
180	Microstructure and tribological properties of ternary BCN thin films with different carbon contents. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 1225-1229	3.5	11
179	Structural, electronic properties and stability of the (1 1 1) PbTiO <sub>3</sub> (1 1 1) polar surfaces by first-principles calculations. <i>Applied Surface Science</i> , <b>2009</b> , 255, 8145-8152	6.7	11
178	Surface Layer Characteristics of TiB <sub>2</sub> /Al Composite by Stress Peening. <i>Materials Transactions</i> , <b>2009</b> , 50, 837-840	1.3	11
177	Ab initio calculation of Ag monolayer adhesion on BaTiO <sub>3</sub> (100) surfaces. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 3284-3289	4.4	11



176	Effects of strain and annealing on the intensity and distribution of crystal texture in Cu <sub>2</sub> wt.% Ag. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 478, 305-313	5.3	11
175	Analysis of broadened X-ray diffraction profiles: Application to the characterization of carbon steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1990</b> , 127, 71-77	5.3	11
174	Cold rolling texture evolution of TiB <sub>2</sub> particle reinforced Al-based composites by Neutron Diffraction and EBSD analysis. <i>Materials Characterization</i> , <b>2018</b> , 136, 293-301	3.9	10
173	Hot corrosion behavior of TiO <sub>2</sub> doped, Yb <sub>2</sub> O <sub>3</sub> stabilized zirconia exposed to V <sub>2</sub> O <sub>5</sub> + Na <sub>2</sub> SO <sub>4</sub> molten salt at 700–1000 °C. <i>Ceramics International</i> , <b>2018</b> , 44, 261-268	5.1	10
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171	Stabilization of the tetragonal phase in large columnar zirconia crystals without incorporating dopants. <i>Scripta Materialia</i> , <b>2013</b> , 68, 559-562	5.6	10
170	Residual stress and micro-structure of GCr15 steel after multistep shot peening. <i>Surface Engineering</i> , <b>2014</b> , 30, 847-851	2.6	10
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168	Broadened X-ray-diffraction profile analysis of cold-rolled aluminium-magnesium alloys. <i>Journal of Materials Science</i> , <b>1994</b> , 29, 1553-1557	4.3	10
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162	Structural and electronic properties of armchair graphene nanoribbons under uniaxial strain. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2014</b> , 56, 55-58	3	9
161	First-Principle Study on Structural and Electronic Properties of Pristine and Adsorbed LiF Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 1650-1657	3.8	9
160	Calculation of surface energy and simulation of reconstruction for diamond cubic crystals (001) surface. <i>Applied Surface Science</i> , <b>2008</b> , 254, 4128-4133	6.7	9
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158	Surface layer characteristics of CNT/AlMgSi alloy composites treated by stress peening. <i>Surface and Coatings Technology</i> , <b>2017</b> , 317, 10-16	4.4	8
157	Residual stress and microstructure evolution of shot peened Ni-Al bronze at elevated temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 707, 629-635	5.3	8
156	Surface layer characteristics of SAF2507 duplex stainless steel treated by stress shot peening. <i>Applied Surface Science</i> , <b>2019</b> , 481, 226-233	6.7	8
155	Effects of the defects on the structural, electronic and magnetic properties of Sr <sub>2</sub> FeMoO <sub>6</sub> . <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 648, 374-381	5.7	8
154	Hot corrosion behavior of Ba <sub>2</sub> REAlO <sub>5</sub> (RE = Dy, Er, Yb) ceramics by vanadium pentoxide at 900-1000 °C. <i>Ceramics International</i> , <b>2017</b> , 43, 11944-11952	5.1	7
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152	Improved wear properties of NiTi nanocomposite coating with tailored spatial microstructures by extra adding CeO <sub>2</sub> nanoparticles. <i>Surface and Coatings Technology</i> , <b>2020</b> , 399, 126119	4.4	7
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144	Theoretical strength and structural response of Cu crystal. <i>Computational Materials Science</i> , <b>2008</b> , 43, 917-923	3.2	7
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135	Structural, electronic and magnetic properties of the Si chains doped zigzag AlN nanoribbons. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2015</b> , 65, 114-119	3	6
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133	Evaluation of Mechanical Behavior and Surface Morphology of Shot-Peened Ti-6Al-4V Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2020</b> , 29, 182-190	1.6	6
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129	Properties of mono-vacancy in L1 <sub>2</sub> -type Ni <sub>3</sub> Al ordered alloy. <i>Superlattices and Microstructures</i> , <b>2008</b> , 44, 259-267	2.8	6
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123	Electronic structure and optical property of 3d transition metal doped (5,5) boron nitride nanotube. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 109, 601-606	2.6	5

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