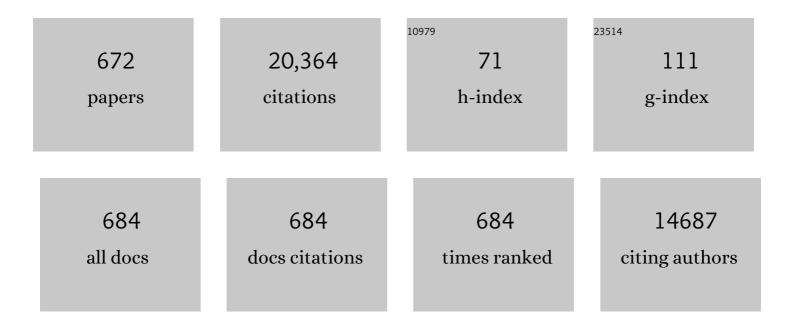
## Jeff De Hosson

List of Publications by Year in descending order

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IFFF DF HOSSON

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Plasticity in small-sized metallic systems: Intrinsic versus extrinsic size effect. Progress in Materials<br>Science, 2011, 56, 654-724.  | 16.0 | 1,508     |
| 2  | Analysis of coaxial laser cladding processing conditions. Surface and Coatings Technology, 2005, 197, 127-136.  | 2.2  | 363       |
| 3  | Secondary phases in AlxCoCrFeNi high-entropy alloys: An in-situ TEM heating study and thermodynamic appraisal. Acta Materialia, 2017, 131, 206-220.   | 3.8  | 292       |
| 4  | Nanostructure and properties of TiC/a-C:H composite coatings. Acta Materialia, 2005, 53, 4505-4521.   | 3.8  | 264       |
| 5  | Effects of size on the mechanical response of metallic glasses investigated through in situ TEM bending and compression experiments. Acta Materialia, 2010, 58, 189-200.  | 3.8  | 246       |
| 6  | Electron diffraction and high-resolution transmission electron microscopy of the high temperature<br>crystal structures of GexSb2Te3+x (x=1,2,3) phase change material. Journal of Applied Physics, 2002, 92,<br>3584-3590. | 1.1  | 229       |
| 7  | Functionally graded materials produced by laser cladding. Acta Materialia, 2000, 48, 2617-2624.   | 3.8  | 214       |
| 8  | Oxidation-induced crack healing in Ti3AlC2 ceramics. Scripta Materialia, 2008, 58, 13-16.   | 2.6  | 198       |
| 9  | In situtransmission electron microscopy study of the crystallization of Ge2Sb2Te5. Journal of Applied Physics, 2004, 95, 924-932.   | 1.1  | 187       |
| 10 | Incipient plasticity during nanoindentation at grain boundaries in body-centered cubic metals. Acta<br>Materialia, 2005, 53, 4665-4676.   | 3.8  | 181       |
| 11 | Thick Co-based coating on cast iron by side laser cladding: Analysis of processing conditions and coating properties. Surface and Coatings Technology, 2007, 201, 5875-5883.  | 2.2  | 170       |
| 12 | Ti3SiC2: A damage tolerant ceramic studied with nano-indentations and transmission electron microscopy. Acta Materialia, 2003, 51, 2859-2872.   | 3.8  | 165       |
| 13 | Reactive wetting of liquid metals on ceramic substrates. Acta Materialia, 1996, 44, 421-426.  | 3.8  | 163       |
| 14 | Grinding of WC–Co hardmetals. Wear, 2001, 248, 187-196.   | 1.5  | 157       |
| 15 | Effect of surface roughness on magnetic domain wall thickness, domain size, and coercivity. Journal of Applied Physics, 2001, 89, 1325-1330.  | 1.1  | 152       |
| 16 | The evolution of microstructure in a laser clad TiB–Ti composite coating. Acta Materialia, 2003, 51,<br>831-845.  | 3.8  | 149       |
| 17 | Intrinsic and extrinsic size effects in the deformation of metallic glass nanopillars. Acta Materialia, 2012, 60, 889-898.  | 3.8  | 144       |
| 18 | Effects of solute Mg on grain boundary and dislocation dynamics during nanoindentation of Al–Mg<br>thin films. Acta Materialia, 2004, 52, 5783-5790.  | 3.8  | 141       |

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Dilution effects in laser cladding of Ni–Cr–B–Si–C hardfacing alloys. Materials Letters, 2012, 84,<br>69-72.                                     | 1.3 | 140       |
| 20 | Optical properties of gold films and the Casimir force. Physical Review B, 2008, 77, .   | 1.1 | 136       |
| 21 | Microstructural control of TiC/a-C nanocomposite coatings with pulsed magnetron sputtering. Acta<br>Materialia, 2008, 56, 696-709.               | 3.8 | 135       |
| 22 | Interfaces within strain gradient plasticity: Theory and experiments. Acta Materialia, 2006, 54, 5077-5085.                                      | 3.8 | 133       |
| 23 | SiCp/Ti6Al4V functionally graded materials produced by laser melt injection. Acta Materialia, 2002, 50, 2035-2051.                               | 3.8 | 132       |
| 24 | Strengthening mechanisms in high entropy alloys: Fundamental issues. Scripta Materialia, 2020, 187,<br>148-156.                                  | 2.6 | 131       |
| 25 | Sliding wear resistance of metal matrix composite layers prepared by high power laser. Surface and Coatings Technology, 2005, 197, 303-315.      | 2.2 | 124       |
| 26 | Laser-induced periodic surface structures: Fingerprints of light localization. Physical Review B, 2012, 85, .                                    | 1.1 | 122       |
| 27 | Additive Manufacturing of High-Entropy Alloys by Laser Processing. Jom, 2016, 68, 1810-1818.   | 0.9 | 122       |
| 28 | High entropy alloys: Key issues under passionate debate. Scripta Materialia, 2020, 188, 54-58.   | 2.6 | 122       |
| 29 | Stress analysis and microstructure of PVD monolayer TiN and multilayer TiN/(Ti,Al)N coatings. Thin Solid Films, 2003, 429, 179-189.              | 0.8 | 116       |
| 30 | Nanostructured TiC/a-C coatings for low friction and wear resistant applications. Surface and Coatings Technology, 2005, 198, 44-50.             | 2.2 | 114       |
| 31 | BCC-FCC interfacial effects on plasticity and strengthening mechanisms in high entropy alloys. Acta<br>Materialia, 2018, 157, 83-95.             | 3.8 | 113       |
| 32 | State of residual stress in laser-deposited ceramic composite coatings on aluminum alloys. Acta<br>Materialia, 2007, 55, 1203-1214.              | 3.8 | 110       |
| 33 | Wetting on rough surfaces. Acta Materialia, 2001, 49, 3533-3538.   | 3.8 | 109       |
| 34 | Enhanced Strain in Functional Nanoporous Gold with a Dual Microscopic Length Scale Structure.<br>ACS Nano, 2012, 6, 3734-3744.                   | 7.3 | 109       |
| 35 | Mechanical properties of attapulgite clay reinforced polyurethane shape-memory nanocomposites.<br>European Polymer Journal, 2009, 45, 1904-1911. | 2.6 | 108       |
| 36 | Relation between microstructure and adhesion of hot dip galvanized zinc coatings on dual phase steel. Acta Materialia, 2012, 60, 2973-2981.      | 3.8 | 106       |

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Investigation on the formation of tungsten carbide in tungsten-containing diamond like carbon coatings. Surface and Coatings Technology, 2003, 162, 288-293. | 2.2 | 105       |
| 38 | On the specific surface area of nanoporous materials. Acta Materialia, 2011, 59, 7488-7497.  | 3.8 | 104       |
| 39 | Laser melt injection in aluminum alloys: on the role of the oxide skin. Acta Materialia, 2000, 48, 4225-4233.  | 3.8 | 103       |
| 40 | On the evolution of surface roughness during deformation of polycrystalline aluminum alloys. Acta<br>Materialia, 2005, 53, 4043-4050.                        | 3.8 | 103       |
| 41 | An electron microscopy appraisal of tensile fracture in metallic glasses. Acta Materialia, 2008, 56, 1762-1773.  | 3.8 | 103       |
| 42 | In situ TEM nanoindentation and dislocation-grain boundary interactions: a tribute to David Brandon.<br>Journal of Materials Science, 2006, 41, 7704-7719.   | 1.7 | 101       |
| 43 | Microstructure and wear studies of laser clad Al-Si/SiC(p) composite coatings. Surface and Coatings<br>Technology, 2007, 201, 9497-9505.                     | 2.2 | 101       |
| 44 | Metallic Muscles at Work: High Rate Actuation in Nanoporous Gold/Polyaniline Composites. ACS<br>Nano, 2013, 7, 4299-4306.                                    | 7.3 | 100       |
| 45 | Influence of random roughness on the Casimir force at small separations. Physical Review B, 2008, 77, .  | 1.1 | 99        |
| 46 | Supramolecular Route to Well-Ordered Metal Nanofoams. ACS Nano, 2011, 5, 6339-6348.  | 7.3 | 94        |
| 47 | Reaction layers around SiC particles in Ti: an electron microscopy study. Acta Materialia, 1999, 47, 3105-3116.  | 3.8 | 92        |
| 48 | Deformation and failure mechanism of nano-composite coatings under nano-indentation. Surface and<br>Coatings Technology, 2006, 200, 6718-6726.               | 2.2 | 91        |
| 49 | The mechanical properties and the deformation microstructures of the C15 Laves phase Cr2Nb at high temperatures. Acta Materialia, 2007, 55, 1873-1884.       | 3.8 | 88        |
| 50 | Microstructural characterization of AISI 431 martensitic stainless steel laser-deposited coatings.<br>Journal of Materials Science, 2011, 46, 3405-3414.     | 1.7 | 87        |
| 51 | Carbon Nanotubes Encapsulating Superconducting Single-Crystalline Tin Nanowires. Nano Letters, 2006, 6, 1131-1135.   | 4.5 | 86        |
| 52 | Thermo-mechanical properties of polystyrene-based shape memory nanocomposites. Journal of<br>Materials Chemistry, 2010, 20, 3442.                            | 6.7 | 86        |
| 53 | Nanoporous silver as electrochemical actuator. Scripta Materialia, 2013, 69, 195-198.  | 2.6 | 86        |
| 54 | High temperature healing of Ti2AlC: On the origin of inhomogeneous oxide scale. Scripta Materialia, 2011. 65, 135-138.                                       | 2.6 | 85        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Detection of grain-boundary resistance to slip transfer using nanoindentation. Materials Letters, 2005, 59, 3192-3195.  | 1.3 | 84        |
| 56 | Residual stress analysis in Co-based laser clad layers by laboratory X-rays and synchrotron diffraction techniques. Surface and Coatings Technology, 2006, 201, 533-542.  | 2.2 | 84        |
| 57 | Nanosized metal clusters: Challenges and opportunities. Jom, 2004, 56, 40-45.   | 0.9 | 83        |
| 58 | Intrinsic size effects in the mechanical response of taper-free nanopillars of metallic glass. Physical Review B, 2011, 83, .   | 1.1 | 83        |
| 59 | Microstructure and properties of laser clad coatings studied by orientation imaging microscopy. Acta<br>Materialia, 2010, 58, 6763-6772.  | 3.8 | 82        |
| 60 | On the crystallization of thin films composed of Sb3.6Te with Ge for rewritable data storage. Journal of Applied Physics, 2004, 95, 4714-4721.  | 1.1 | 81        |
| 61 | Effects of crystal structure and grain orientation on the roughness of deformed polycrystalline metals. Acta Materialia, 2006, 54, 2813-2821.   | 3.8 | 81        |
| 62 | Smallest 90° domains in epitaxial ferroelectric films. Applied Physics Letters, 2007, 91, .   | 1.5 | 81        |
| 63 | Local Stress States and Microstructural Damage Response Associated with Deformation Twins in Hexagonal Close Packed Metals. Crystals, 2018, 8, 1.   | 1.0 | 81        |
| 64 | Influence of roughness on capillary forces between hydrophilic surfaces. Physical Review E, 2008, 78,<br>031606.  | 0.8 | 80        |
| 65 | Atomic structure of stoichiometric and non-stoichiometric grain boundaries in A3B compounds with L12 structure. Acta Metallurgica, 1988, 36, 2729-2741.   | 2.1 | 79        |
| 66 | Influence of surface roughness on the wetting angle. Journal of Materials Research, 1995, 10, 1984-1992.  | 1.2 | 79        |
| 67 | Interaction between lattice dislocations and grain boundaries in f.c.c. and ordered compounds: A computer simulation. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 64, 951-969. | 0.7 | 75        |
| 68 | Hybrid Polyamide/Silica Nanocomposites: Synthesis and Mechanical Testing. Macromolecular<br>Materials and Engineering, 2002, 287, 106-110.  | 1.7 | 75        |
| 69 | Gas-phase synthesis of magnesium nanoparticles: A high-resolution transmission electron microscopy<br>study. Applied Physics Letters, 2006, 89, 161914.   | 1.5 | 75        |
| 70 | Properties and characterization of multilayers of carbides and diamond-like carbon. Surface and Coatings Technology, 2001, 142-144, 707-713.  | 2.2 | 74        |
| 71 | Tribological and mechanical properties of high power laser surface-treated metallic glasses.<br>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and<br>Processing, 2007, 471, 155-164.                    | 2.6 | 73        |
| 72 | Microstructural characterization of laser nitrided titanium. Scripta Metallurgica Et Materialia, 1995, 33, 567-573.   | 1.0 | 72        |

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Epitaxial TbMnO <sub>3</sub> thin films on SrTiO <sub>3</sub> substrates: a structural study. Journal of Physics Condensed Matter, 2009, 21, 182001.                           | 0.7 | 71        |
| 74 | Five-fold branched Si particles in laser clad AlSi functionally graded materials. Acta Materialia, 2001, 49, 561-571.  | 3.8 | 69        |
| 75 | Size dependent plasticity and damage response in multiphase body centered cubic high entropy alloys.<br>Acta Materialia, 2018, 150, 104-116.                                   | 3.8 | 69        |
| 76 | Influence of atomic force microscope tip–sample interaction on the study of scaling behavior. Applied Physics Letters, 1997, 71, 1347-1349.                                    | 1.5 | 68        |
| 77 | Failure mechanisms of closed-cell aluminum foam under monotonic and cyclic loading. Acta<br>Materialia, 2006, 54, 4465-4472.   | 3.8 | 68        |
| 78 | The effect of cladding speed on phase constitution and properties of AISI 431 stainless steel laser deposited coatings. Surface and Coatings Technology, 2011, 205, 5235-5239. | 2.2 | 68        |
| 79 | Influence of deposition parameters on the structure and mechanical properties of nanocomposite coatings. Surface and Coatings Technology, 2006, 201, 590-598.                  | 2.2 | 67        |
| 80 | Tribological behavior of W-DLC coated rubber seals. Surface and Coatings Technology, 2008, 202, 1869-1875.   | 2.2 | 67        |
| 81 | Wear and friction performance of PTFE filled epoxy composites with a high concentration of SiO2 particles. Wear, 2015, 322-323, 171-180.                                       | 1.5 | 67        |
| 82 | Grain boundary segregation and precipitation in aluminium alloys. Scripta Materialia, 2001, 44, 281-286.   | 2.6 | 66        |
| 83 | Advanced TiC/a-C:H nanocomposite coatings deposited by magnetron sputtering. Journal of the European Ceramic Society, 2006, 26, 565-570.                                       | 2.8 | 66        |
| 84 | On the geometry of coating layers formed by overlap. Surface and Coatings Technology, 2014, 242, 54-61.  | 2.2 | 65        |
| 85 | Three-dimensional micron-porous graphene foams for lightweight current collectors of lithium-sulfur batteries. Carbon, 2019, 144, 713-723.                                     | 5.4 | 65        |
| 86 | Ni-toughened nc-TiN/a-SiNx nanocomposite thin films. Surface and Coatings Technology, 2005, 200, 1530-1534.  | 2.2 | 64        |
| 87 | Ultra-high temperature ablation behavior of Ti2AlC ceramics under an oxyacetylene flame. Journal of the European Ceramic Society, 2011, 31, 855-862.                           | 2.8 | 64        |
| 88 | Effects of the Alloy Composition on Phase Constitution and Properties of Laser Deposited Ni-Cr-B-Si<br>Coatings. Physics Procedia, 2013, 41, 302-311.                          | 1.2 | 64        |
| 89 | Oxide-scale growth on Cr2AlC ceramic and its consequence for self-healing. Scripta Materialia, 2013, 69, 203-206.  | 2.6 | 64        |
| 90 | Deformation mechanisms in TiN/(Ti,Al)N multilayers under depth-sensing indentation. Acta Materialia,<br>2006, 54, 1857-1862.   | 3.8 | 62        |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | TEM characterization of a Cr/Ti/TiC graded interlayer for magnetron-sputtered TiC/a-C:H nanocomposite coatings. Acta Materialia, 2005, 53, 3925-3934.   | 3.8 | 61        |
| 92  | Very high-cycle fatigue failure in micron-scale polycrystalline silicon films: Effects of environment and surface oxide thickness. Journal of Applied Physics, 2007, 101, 013515.   | 1.1 | 60        |
| 93  | Nanosized iron clusters investigated with in situ transmission electron microscopy. Applied Physics<br>Letters, 2003, 82, 197-199.  | 1.5 | 59        |
| 94  | In-situ microscopy investigation of failure mechanisms in Al/SiCp metal matrix composite produced by laser embedding. Scripta Materialia, 2000, 42, 589-595.  | 2.6 | 58        |
| 95  | Microstructure, mechanical properties and cutting performance of superhard (Ti,Si,Al)N<br>nanocomposite films grown by d.c. reactive magnetron sputtering. Surface and Coatings Technology,<br>2004, 177-178, 459-468.    | 2.2 | 58        |
| 96  | Electron Microscopy Characterization of Ni-Cr-B-Si-C Laser Deposited Coatings. Microscopy and Microanalysis, 2013, 19, 120-131.   | 0.2 | 58        |
| 97  | Early stages of oxidation of Ti3AlC2 ceramics. Materials Chemistry and Physics, 2008, 112, 762-768.   | 2.0 | 57        |
| 98  | The Prediction of Coating Geometry from Main Processing Parameters in Laser Cladding. Physics<br>Procedia, 2014, 56, 220-227.   | 1.2 | 57        |
| 99  | Superlattice intrinsic stacking faults in γ′ precipitates. Scripta Metallurgica, 1985, 19, 1123-1128.   | 1.2 | 56        |
| 100 | Deformation and reconstruction mechanisms in coarse-grained superplastic Al–Mg alloys. Acta<br>Materialia, 2006, 54, 3827-3833.   | 3.8 | 56        |
| 101 | Microstructure and Phase Formation in a Rapidly Solidified Laser-Deposited Ni-Cr-B-Si-C Hardfacing<br>Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45,<br>878-892. | 1.1 | 56        |
| 102 | Vortex pinning by natural defects in thin films of YBa2Cu3O7â^îr. Superconductor Science and Technology, 2002, 15, 395-404.   | 1.8 | 55        |
| 103 | Magnetic and structural properties of Co nanocluster thin films. Physical Review B, 2005, 71, .   | 1.1 | 55        |
| 104 | Molecule-by-Molecule Writing Using a Focused Electron Beam. ACS Nano, 2012, 6, 10076-10081.   | 7.3 | 55        |
| 105 | On the deposition and properties of DLC protective coatings on elastomers: A critical review. Surface and Coatings Technology, 2014, 258, 677-690.  | 2.2 | 54        |
| 106 | In-situ strain observation in high power laser cladding. Surface and Coatings Technology, 2009, 203, 3189-3196.   | 2.2 | 53        |
| 107 | Reversible strain by physisorption in nanoporous gold. Applied Physics Letters, 2011, 99, .   | 1.5 | 53        |
| 108 | Fine-tuning the feature size of nanoporous silver. CrystEngComm, 2012, 14, 5402.  | 1.3 | 53        |

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|-----|---|-----|-----------|
| 109 | Pt/ZrO <sub>2</sub> Prepared by Atomic Trapping: An Efficient Catalyst for the Conversion of Glycerol to Lactic Acid with Concomitant Transfer Hydrogenation of Cyclohexene. ACS Catalysis, 2019, 9, 9953-9963. | 5.5 | 53        |
| 110 | A comparison between different theories predicting the stacking fault energy from extended nodes.<br>Scripta Metallurgica, 1980, 14, 285-288.   | 1.2 | 52        |
| 111 | The influence of strain-induced damage on the mechanical response of open-cell aluminum foam. Acta<br>Materialia, 2008, 56, 609-618.  | 3.8 | 52        |
| 112 | TEM study of the initial oxide scales of Ti2AlC. Acta Materialia, 2011, 59, 5216-5223.  | 3.8 | 52        |
| 113 | The fcc-bcc crystallographic orientation relationship in AlxCoCrFeNi high-entropy alloys. Materials<br>Letters, 2016, 176, 29-32.   | 1.3 | 52        |
| 114 | Determination of the crystal structure of icosahedral Al-Cu-Li. Physical Review B, 1988, 38, 1681-1685.   | 1.1 | 51        |
| 115 | Coalescence aspects of cobalt nanoparticles duringin situhigh-temperature annealing. Journal of Applied Physics, 2006, 99, 024307.  | 1.1 | 51        |
| 116 | Adhesion improvement of hydrogenated diamond-like carbon thin films by pre-deposition plasma treatment of rubber substrate. Surface and Coatings Technology, 2009, 203, 1964-1970.                              | 2.2 | 51        |
| 117 | On the optimum resolution of transmission-electron backscattered diffraction (t-EBSD).<br>Ultramicroscopy, 2016, 160, 256-264.  | 0.8 | 51        |
| 118 | Fracture of open- and closed-cell metal foams. Journal of Materials Science, 2005, 40, 5821-5828.   | 1.7 | 49        |
| 119 | Interface fracture behavior of zinc coatings on steel: Experiments and finite element calculations.<br>Surface and Coatings Technology, 2006, 201, 4311-4316.   | 2.2 | 49        |
| 120 | Influence of capping layers on the crystallization of doped SbxTe fast-growth phase-change films.<br>Journal of Applied Physics, 2006, 100, 123511.   | 1.1 | 49        |
| 121 | Magnetron reactively sputtered Ti-DLC coatings on HNBR rubber: The influence of substrate bias.<br>Surface and Coatings Technology, 2008, 202, 4939-4944.   | 2.2 | 49        |
| 122 | Modification of Cu surface with picosecond laser pulses. Applied Surface Science, 2014, 303, 118-124.   | 3.1 | 49        |
| 123 | Pressure and temperature induced electrical resistance change in nano-carbon/epoxy composites.<br>Composites Science and Technology, 2015, 115, 1-8.  | 3.8 | 49        |
| 124 | Influence of hardness and roughness on the tribological performance of TiC/a-C nanocomposite coatings. Surface and Coatings Technology, 2010, 205, 2624-2632.   | 2.2 | 48        |
| 125 | Multiscale modeling of charge-induced deformation of nanoporous gold structures. Journal of the<br>Mechanics and Physics of Solids, 2014, 66, 1-15.   | 2.3 | 48        |
| 126 | Fracture and microstructure of open cell aluminum foam. Journal of Materials Science, 2005, 40, 5813-5819.  | 1.7 | 47        |

| #   | Article   | IF                        | CITATIONS |
|-----|---|---------------------------|-----------|
| 127 | Pull-in characteristics of electromechanical switches in the presence of Casimir forces: Influence of self-affine surface roughness. Physical Review B, 2005, 72, .   | 1.1                       | 47        |
| 128 | Nanoscale domain evolution in thin films of multiferroic <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML"<br/>display="inline"&gt;<mml:mrow><mml:msub><mml:mrow><mml:mtext>TbMnO</mml:mtext></mml:mrow><mml<br>Physical Review B, 2009, 80, .</mml<br></mml:msub></mml:mrow></mml:math<br> | :mn>3 <td>ıml:mn&gt;</td> | ıml:mn>   |
| 129 | Magnetic versus structural properties of Co nanocluster thin films: A magnetic force microscopy study. Applied Physics Letters, 2004, 84, 556-558.  | 1.5                       | 46        |
| 130 | Elimination of Start/Stop defects in laser cladding. Surface and Coatings Technology, 2012, 206, 2403-2409.   | 2.2                       | 46        |
| 131 | Influence of surface roughness on the adhesion of elastic films. Physical Review E, 2003, 67, 021604.   | 0.8                       | 45        |
| 132 | Incipient plasticity in metallic thin films. Applied Physics Letters, 2007, 90, 181924.   | 1.5                       | 45        |
| 133 | Actuating and Sensing Properties of Nanoporous Gold. Journal of Nanoscience and Nanotechnology, 2012, 12, 4951-4955.  | 0.9                       | 45        |
| 134 | HRTEM study of Co7W6 and its typical defect structure. Acta Materialia, 2000, 48, 2703-2712.  | 3.8                       | 44        |
| 135 | Metal/ceramic interfaces: a microscopic analysis. Surface and Interface Analysis, 2001, 31, 637-658.  | 0.8                       | 44        |
| 136 | Toughening mechanism for Ni–Cr–B–Si–C laser deposited coatings. Materials Science &<br>Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 582, 305-315.  | 2.6                       | 44        |
| 137 | On the microstructure of tungsten disulfide films alloyed with carbon and nitrogen. Thin Solid Films, 2005, 484, 389-395.   | 0.8                       | 43        |
| 138 | On the localized surface plasmon resonance modes in nanoporous gold films. Journal of Applied Physics, 2014, 115, .   | 1.1                       | 43        |
| 139 | Microstructural design of hardfacing Ni–Cr–B–Si–C alloys. Acta Materialia, 2013, 61, 6061-6070.   | 3.8                       | 42        |
| 140 | Breakdown of the Coulomb friction law in TiCâ^•a-C:H nanocomposite coatings. Journal of Applied Physics, 2006, 100, 114309.   | 1.1                       | 41        |
| 141 | Transition from Casimir to van der Waals force between macroscopic bodies. Applied Physics Letters, 2008, 93, .   | 1.5                       | 41        |
| 142 | Laser engineered surfaces from glass forming alloy powder precursors: Microstructure and wear.<br>Surface and Coatings Technology, 2009, 203, 1833-1843.  | 2.2                       | 41        |
| 143 | Mechanical strength of highly porous ceramics. Physical Review B, 1991, 43, 3794-3796.  | 1.1                       | 40        |
|     | Monodomain strained ferroelectric <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td></td><td></td></mml:math>   |                           |           |

144 display="inline"><mml:mrow><mml:mrow><mml:mrow><mml:mtext>PbTiO</mml:mtext></mml:mrow><mml:mn>Bx/mml:math /mml:n
145 films: Phase transition and critical thickness study. Physical Review B, 2008, 78, .

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 145 | Effect of process parameters on mechanical and tribological performance of pulsed-DC sputtered<br>TiC/a-C:H nanocomposite films. Surface and Coatings Technology, 2010, 205, 2633-2642.                    | 2.2 | 40        |
| 146 | Microstructural characterization of Co-based coating deposited by low power pulse laser cladding.<br>Journal of Materials Science, 2013, 48, 2714-2723.  | 1.7 | 40        |
| 147 | Thermodynamic calculations for liquid alloys with an application to sodium-caesium. Journal of<br>Physics F: Metal Physics, 1980, 10, 1681-1692.   | 1.6 | 39        |
| 148 | X-ray measurement of residual stresses in laser surface melted Ti-6Al-4V alloy. Materials Science &<br>Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 208, 143-147. | 2.6 | 39        |
| 149 | Binding of helium to metallic impurities in tungsten; experiments and computer simulations. Journal of Nuclear Materials, 1985, 127, 56-66.  | 1.3 | 38        |
| 150 | In situnuclear magnetic resonance investigation of deformation-generated vacancies in aluminum.<br>Physical Review B, 1995, 52, 125-133.   | 1.1 | 38        |
| 151 | Influence of random roughness on the adhesion between metal surfaces due to capillary condensation. Applied Physics Letters, 2007, 91, .   | 1.5 | 38        |
| 152 | Metal–ceramic interfaces studied with high-resolution transmission electron microscopy. Acta<br>Materialia, 1999, 47, 4077-4092.   | 3.8 | 37        |
| 153 | Temperature rise due to fast-moving dislocations. Philosophical Magazine A: Physics of Condensed<br>Matter, Structure, Defects and Mechanical Properties, 2001, 81, 1099-1120.                             | 0.7 | 37        |
| 154 | Measurement of dispersive forces between evaporated metal surfaces in the range below 100nm.<br>Applied Physics Letters, 2008, 92, 054101.   | 1.5 | 37        |
| 155 | On the surface topography of ultrashort laser pulse treated steel surfaces. Applied Surface Science, 2011, 258, 1555-1560.   | 3.1 | 37        |
| 156 | Size effects on plasticity in high-entropy alloys. Journal of Materials Research, 2018, 33, 3055-3076.   | 1.2 | 37        |
| 157 | Polarity-dependent reversible resistance switching in Ge–Sb–Te phase-change thin films. Applied<br>Physics Letters, 2007, 91, .  | 1.5 | 36        |
| 158 | Atomic force microscopy imaging of transition metal layered compounds: A twoâ€dimensional stick–slip<br>system. Applied Physics Letters, 1995, 67, 347-349.  | 1.5 | 35        |
| 159 | Microstructure of reaction zone in WCp/duplex stainless steels matrix composites processing by laser melt injection. Surface and Coatings Technology, 2008, 202, 2113-2120.                                | 2.2 | 35        |
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