

# Jon M Molina-Aldareguia

## List of Publications by Year in descending order

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168  
papers

6,843  
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53939

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84171

75  
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174  
docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Effect of alloying and microstructure on formability of advanced high-strength steels processed via quenching and partitioning. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142217.	2.6	21
2	Selective Metal Ion Irradiation Using Bipolar HIPIMS: A New Route to Tailor Film Nanostructure and the Resulting Mechanical Properties. <i>Coatings</i> , 2022, 12, 191.	1.2	3
3	Design of metastable $\beta$ -Ti alloys with enhanced mechanical properties by coupling $\beta$ -S precipitation strengthening and TRIP effect. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 835, 142696.	2.6	17
4	Resilient moth-eye nanoimprinted antireflective and self-cleaning TiO <sub>2</sub> sputter-coated PMMA films. <i>Applied Surface Science</i> , 2022, 585, 152653.	3.1	10
5	The effect of ultrafast heating rate on the elemental distribution between phases in a low carbon steel. <i>European Journal of Materials</i> , 2022, 2, 171-185.	0.8	1
6	Stress-induced $\beta$ - $\alpha'$ martensitic phase transformation and martensitic twinning in a metastable $\beta$ titanium alloy. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157809.	2.8	16
7	High temperature strength retention of Cu/Nb nanolaminates through dynamic strain ageing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 799, 140117.	2.6	3
8	Microstructure, mechanical properties, corrosion resistance and cytocompatibility of WE43 Mg alloy scaffolds fabricated by laser powder bed fusion for biomedical applications. <i>Materials Science and Engineering C</i> , 2021, 119, 111623.	3.8	58
9	Nanoindentation of Amorphous Carbon: a combined experimental and simulation approach. <i>Acta Materialia</i> , 2021, 203, 116485.	3.8	23
10	Bioinspired antireflective flexible films with optimized mechanical resistance fabricated by roll to roll thermal nanoimprint. <i>Scientific Reports</i> , 2021, 11, 2419.	1.6	21
11	High-throughput nanoindentation mapping of cast IN718 nickel-based superalloys: influence of the Nb concentration. <i>Journal of Materials Research</i> , 2021, 36, 2213-2222.	1.2	13
12	Processing and properties of long recycled-carbon-fibre reinforced polypropylene. <i>Composites Part B: Engineering</i> , 2021, 211, 108653.	5.9	18
13	Anisotropy effect of bioinspired ceramic/ceramic composites: Can the platelet orientation enhance the mechanical properties at micro- and submicrometric length scale?. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2753-2762.	2.8	9
14	Understanding the Links between the Composition-Processing-Properties in New Formulations of HEAs Sintered by SPS. <i>Metals</i> , 2021, 11, 888.	1.0	3
15	Deformation mechanisms of basal slip, twinning and non-basal slips in Mg-Y alloy by micropillar compression. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 819, 141408.	2.6	22
16	High throughput optimization of hard and tough TiN/Ni nanocomposite coatings by reactive magnetron sputter deposition. <i>Surface and Coatings Technology</i> , 2021, 418, 127226.	2.2	10
17	High temperature in situ SEM assessment followed by ex situ AFM and EBSD investigation of the nucleation and early growth stages of Fe-Al intermetallics. <i>Scripta Materialia</i> , 2021, 200, 113910.	2.6	14
18	Effect of Al content on the hardness and thermal stability study of AlTiN and AlTiBN coatings deposited by HiPIMS. <i>Surface and Coatings Technology</i> , 2021, 422, 127513.	2.2	15

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19	Microstructural sensitivity and deformation micro-mechanisms of a bimodal metastable $\beta^2$ titanium Ti-7Mo-3Nb-3Cr-3Al alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 824, 141821.	2.6	10
20	Solid solution and precipitation strengthening effects in basal slip, extension twinning and pyramidal slip in Mg-Zn alloys. <i>Acta Materialia</i> , 2021, 221, 117374.	3.8	33
21	Tribomechanical properties of hard Cr-doped DLC coatings deposited by low-frequency HiPIMS. <i>Surface and Coatings Technology</i> , 2020, 382, 124899.	2.2	66
22	Nanomechanical characterization of the fracture toughness of Al/SiC nanolaminates. <i>Extreme Mechanics Letters</i> , 2020, 40, 100945.	2.0	9
23	The sensitivity of the microstructure and properties to the peak temperature in an ultrafast heat treated low carbon-steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 776, 138999.	2.6	7
24	High strain rate compression of epoxy micropillars. <i>Extreme Mechanics Letters</i> , 2020, 40, 100905.	2.0	7
25	High temperature mechanical properties and microstructure of hard TaSiN coatings. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 797, 139976.	2.6	8
26	Reversion martensitic phase transformation induced $\{3\bar{1}1\}$ twinning in metastable $\beta^2$ -Ti alloys. <i>Materials Letters</i> , 2020, 272, 127883.	1.3	11
27	Effect of Al content on the critical resolved shear stress for twin nucleation and growth in Mg alloys. <i>Acta Materialia</i> , 2020, 188, 215-227.	3.8	48
28	Key Ionic Electrolytes for Highly Self-Stable Light-Emitting Electrochemical Cells Based on Ir(III) Complexes. <i>Advanced Optical Materials</i> , 2020, 8, 2000295.	3.6	18
29	New instrumentation and analysis methodology for nano-impact testing. <i>Materials and Design</i> , 2020, 192, 108715.	3.3	17
30	The effect of soaking time after ultrafast heating on the microstructure and mechanical behavior of a low carbon steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 765, 138276.	2.6	7
31	In situ small-scale mechanical testing under extreme environments. <i>MRS Bulletin</i> , 2019, 44, 471-477.	1.7	33
32	Mechanical Behavior of InP Twinning Superlattice Nanowires. <i>Nano Letters</i> , 2019, 19, 4490-4497.	4.5	18
33	A new physical simulation tool to predict the interface of dissimilar aluminum to steel welds performed by friction melt bonding. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2048-2057.	5.6	15
34	Effect of solute content and temperature on the deformation mechanisms and critical resolved shear stress in Mg-Al and Mg-Zn alloys. <i>Acta Materialia</i> , 2019, 170, 155-165.	3.8	67
35	The Evolution of Internal Damage Identified by Means of X-ray Computed Tomography in Two Steels and the Ensuing Relation with Gurson's Numerical Modelling. <i>Metals</i> , 2019, 9, 292.	1.0	5
36	The role of slip transfer at grain boundaries in the propagation of microstructurally short fatigue cracks in Ni-based superalloys. <i>Scripta Materialia</i> , 2019, 162, 261-265.	2.6	30

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37	The influence of positive pulses on HiPIMS deposition of hard DLC coatings. <i>Surface and Coatings Technology</i> , 2019, 358, 43-49.	2.2	52
38	High Temperature Nanomechanical Testing. , 2019, , 2219-2247.		1
39	Slip transfer across $\hat{1}^3$ -TiAl lamellae in tension. <i>Materials and Design</i> , 2018, 146, 81-95.	3.3	34
40	Enhanced strain rate sensitivity of Zr-based bulk metallic glasses subjected to high pressure torsion. <i>Journal of Alloys and Compounds</i> , 2018, 747, 595-602.	2.8	45
41	High Temperature Nanomechanical Testing. , 2018, , 1-29.		5
42	Mechanical properties of metal-ceramic nanolaminates: Effect of constraint and temperature. <i>Acta Materialia</i> , 2018, 142, 37-48.	3.8	39
43	The role of interfacial properties on the intralaminar and interlaminar damage behaviour of unidirectional composite laminates: Experimental characterization and multiscale modelling. <i>Composites Part B: Engineering</i> , 2018, 138, 206-221.	5.9	90
44	Effect of layer thickness on the mechanical behaviour of oxidation-strengthened Zr/Nb nanoscale multilayers. <i>Journal of Materials Science</i> , 2018, 53, 5860-5878.	1.7	17
45	Tensile deformation and fracture mechanisms of Cu/Nb nanolaminates studied by in situ TEM mechanical tests. <i>Extreme Mechanics Letters</i> , 2018, 25, 60-65.	2.0	26
46	Mechanical behavior and microstructure evolution of a quenched and partitioned steel during drop weight impact and punch testing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 737, 18-26.	2.6	10
47	Single-imprint moth-eye anti-reflective and self-cleaning film with enhanced resistance. <i>Nanoscale</i> , 2018, 10, 15496-15504.	2.8	38
48	Adhesion enhancement of DLC hard coatings by HiPIMS metal ion etching pretreatment. <i>Surface and Coatings Technology</i> , 2018, 349, 787-796.	2.2	48
49	Effect of Ultrafast Heating on the Properties of the Microconstituents in a Low-Carbon Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 3145-3150.	1.1	12
50	Influence of temperature on the strain rate sensitivity and deformation mechanisms of nanotwinned Cu. <i>Scripta Materialia</i> , 2018, 154, 54-59.	2.6	14
51	Structural composites for multifunctional applications: Current challenges and future trends. <i>Progress in Materials Science</i> , 2017, 89, 194-251.	16.0	205
52	Effect of nanoscale thick lamellae on the micromechanical response of a TiAl alloy. <i>Scripta Materialia</i> , 2017, 139, 17-21.	2.6	26
53	Multifunctional Nano-engineered Polymer Surfaces with Enhanced Mechanical Resistance and Superhydrophobicity. <i>Scientific Reports</i> , 2017, 7, 43450.	1.6	17
54	Weak interface dominated high temperature fracture strength of carbon fiber reinforced mullite matrix composites. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2991-2996.	2.8	14

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55	Deformation Mechanism Map of Cu/Nb Nanoscale Metallic Multilayers as a Function of Temperature and Layer Thickness. <i>Jom</i> , 2017, 69, 2214-2226.	0.9	41
56	Effect of lamellar orientation on the strength and operating deformation mechanisms of fully lamellar TiAl alloys determined by micropillar compression. <i>Acta Materialia</i> , 2017, 123, 102-114.	3.8	100
57	Interface Characterization in Fiber-Reinforced Polymer Matrix Composites. <i>Jom</i> , 2017, 69, 13-21.	0.9	27
58	Interface controlled micro- and macro- mechanical properties of aluminosilicate fiber reinforced SiC matrix composites. <i>Journal of the European Ceramic Society</i> , 2017, 37, 883-890.	2.8	23
59	Controlling the high temperature mechanical behavior of Al alloys by precipitation and severe straining. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 679, 36-47.	2.6	5
60	Selective oxidation-induced strengthening of Zr/Nb nanoscale multilayers. <i>Acta Materialia</i> , 2017, 122, 1-10.	3.8	30
61	Microstructure, mechanical properties and creep of magnesium alloy Elektron21 reinforced with AlN nanoparticles by ultrasound-assisted stirring. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 659, 84-92.	2.6	52
62	Ultrastiff Biobased Epoxy Resin with High $T_g$ and Low Permittivity: From Synthesis to Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2869-2880.	3.2	161
63	Ultra-fine grained pure Titanium for biomedical applications. <i>Materials Technology</i> , 2016, 31, 756-771.	1.5	20
64	Enhancing the fracture resistance of carbon fiber reinforced SiC matrix composites by interface modification through a simple fiber heat-treatment process. <i>Carbon</i> , 2016, 109, 435-443.	5.4	58
65	Deformation mechanisms of ultra-thin Al layers in Al/SiC nanolaminates as a function of thickness and temperature. <i>Philosophical Magazine</i> , 2016, 96, 3336-3355.	0.7	26
66	A 3D dislocation dynamics analysis of the size effect on the strength of [1 1 1] LiF micropillars at 300K and 600K. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016, 24, 035009.	0.8	3
67	Anisotropy, size, and aspect ratio effects on micropillar compression of Al SiC nanolaminate composites. <i>Acta Materialia</i> , 2016, 114, 25-32.	3.8	75
68	X-ray computed tomography analysis of damage evolution in open hole carbon fiber-reinforced laminates subjected to in-plane shear. <i>Composites Science and Technology</i> , 2016, 133, 40-50.	3.8	23
69	EBSD-Assisted Slip Trace Analysis During In Situ SEM Mechanical Testing: Application to Unravel Grain Size Effects on Plasticity of Pure Mg Polycrystals. <i>Jom</i> , 2016, 68, 116-126.	0.9	29
70	Microstructural design in quenched and partitioned (Q&P) steels to improve their fracture properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 657, 136-146.	2.6	36
71	Orientation dependence of indentation behavior in Al-SiC nanolaminate composites. <i>Materials Letters</i> , 2016, 168, 129-133.	1.3	14
72	A sustainable, eugenol-derived epoxy resin with high biobased content, modulus, hardness and low flammability: Synthesis, curing kinetics and structure-property relationship. <i>Chemical Engineering Journal</i> , 2016, 284, 1080-1093.	6.6	218

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73	Structure and dynamics of shear bands in amorphous/crystalline nanolaminates. <i>Scripta Materialia</i> , 2016, 110, 28-32.	2.6	23
74	Comparison of push-in and push-out tests for measuring interfacial shear strength in nano-reinforced composite materials. <i>Journal of Composite Materials</i> , 2016, 50, 1651-1659.	1.2	54
75	High-Temperature Micropillar Compression Creep Testing of Constituent Phases in Lead-Free Solder. <i>Advanced Engineering Materials</i> , 2015, 17, 1168-1174.	1.6	8
76	Origin of the twinning to slip transition with grain size refinement, with decreasing strain rate and with increasing temperature in magnesium. <i>Acta Materialia</i> , 2015, 88, 232-244.	3.8	127
77	An XFEM/CZM implementation for massively parallel simulations of composites fracture. <i>Composite Structures</i> , 2015, 125, 542-557.	3.1	36
78	Multiscale modeling of the mechanical behavior of IN718 superalloy based on micropillar compression and computational homogenization. <i>Acta Materialia</i> , 2015, 98, 242-253.	3.8	83
79	Electrochemical Anisotropy of Nanostructured Titanium for Biomedical Implants. <i>Electrochimica Acta</i> , 2015, 176, 1221-1232.	2.6	23
80	Effect of microstructure on fatigue behavior of advanced high strength steels produced by quenching and partitioning and the role of retained austenite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 641, 215-224.	2.6	62
81	High Temperature Nanoindentation Response of RTM6 Epoxy Resin at Different Strain Rates. <i>Experimental Mechanics</i> , 2015, 55, 851-862.	1.1	14
82	Global and local deformation behavior and mechanical properties of individual phases in a quenched and partitioned steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 630, 27-35.	2.6	55
83	Effect of indentation size on the nucleation and propagation of tensile twinning in pure magnesium. <i>Acta Materialia</i> , 2015, 93, 114-128.	3.8	39
84	High temperature deformation mechanisms in pure magnesium studied by nanoindentation. <i>Scripta Materialia</i> , 2015, 104, 9-12.	2.6	26
85	A study of composite laminates failure using an anisotropic gradient-enhanced damage mean-field homogenization model. <i>Composite Structures</i> , 2015, 126, 246-264.	3.1	26
86	<i>In situ</i> tomographic investigation of damage development in $\pm 45^\circ$ carbon fibre reinforced laminates. <i>Materials Science and Technology</i> , 2015, 31, 587-593.	0.8	24
87	Effect of Hydrostatic Pressure on the 3D Porosity Distribution and Mechanical Behavior of a High Pressure Die Cast Mg AZ91 Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4056-4069.	1.1	3
88	A novel biobased epoxy resin with high mechanical stiffness and low flammability: synthesis, characterization and properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21907-21921.	5.2	209
89	Effect of grain size on slip activity in pure magnesium polycrystals. <i>Acta Materialia</i> , 2015, 84, 443-456.	3.8	187
90	Prominent role of basal slip during high-temperature deformation of pure Mg polycrystals. <i>Acta Materialia</i> , 2015, 85, 1-13.	3.8	48

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91	Effect of Q&P parameters on microstructure development and mechanical behaviour of Q&P steels. <i>Revista De Metalurgia</i> , 2015, 51, e035.	0.1	10
92	Effect of layer thickness on the high temperature mechanical properties of Al/SiC nanolaminates. <i>Thin Solid Films</i> , 2014, 571, 260-267.	0.8	36
93	Automatic quantification of matrix cracking and fiber rotation by X-ray computed tomography in shear-deformed carbon fiber-reinforced laminates. <i>Composites Science and Technology</i> , 2014, 90, 129-138.	3.8	67
94	Tip shape effect on hot nanoindentation hardness and modulus measurements. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 1513-1519.	1.1	21
95	Understanding size effects on the strength of single crystals through high-temperature micropillar compression. <i>Acta Materialia</i> , 2014, 81, 50-57.	3.8	55
96	Measuring the critical resolved shear stresses in Mg alloys by instrumented nanoindentation. <i>Acta Materialia</i> , 2014, 71, 283-292.	3.8	128
97	Influence of the IR-mirror layer composition in the mechanical properties of solar selective coatings made from Mo:Si <sub>3</sub> N <sub>4</sub> cermet. <i>Thin Solid Films</i> , 2014, 571, 316-320.	0.8	2
98	Deformation behavior of a high strength multiphase steel at macro- and micro-scales. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 611, 201-211.	2.6	53
99	Microstructure and mechanical properties of physical vapor deposited Cu/W nanoscale multilayers: Influence of layer thickness and temperature. <i>Thin Solid Films</i> , 2014, 571, 275-282.	0.8	51
100	Microtesting and Crystal Plasticity Modelling of IN718 Superalloy Grains. , 2014, , .		1
101	Multiscale Modeling of Composites: Toward Virtual Testing and Beyond. <i>Jom</i> , 2013, 65, 215-225.	0.9	41
102	Relationship Between the 3D Porosity and $\hat{\sigma}^2$ -Phase Distributions and the Mechanical Properties of a High Pressure Die Cast AZ91 Mg Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 4391-4403.	1.1	33
103	Superplastic deformation of directionally solidified nanofibrillar Al <sub>2</sub> O <sub>3</sub> -Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> -ZrO <sub>2</sub> eutectics. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2579-2586.	2.8	24
104	High temperature micropillar compression of Al/SiC nanolaminates. <i>Acta Materialia</i> , 2013, 61, 4439-4451.	3.8	81
105	Biaxial Deformation Behavior and Enhanced Formability of Ultrafine-Grained Pure Copper. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 2399-2408.	1.1	20
106	Mechanical Characterization of Lead-Free Sn-Ag-Cu Solder Joints by High-Temperature Nanoindentation. <i>Journal of Electronic Materials</i> , 2013, 42, 1085-1091.	1.0	30
107	Optimum high temperature strength of two-dimensional nanocomposites. <i>APL Materials</i> , 2013, 1, .	2.2	43
108	Structural investigation of MOVPE-grown GaAs on Ge by x-ray techniques. <i>Semiconductor Science and Technology</i> , 2012, 27, 115012.	1.0	12

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109	High-temperature nanoindentation behavior of Al/SiC multilayers. Philosophical Magazine Letters, 2012, 92, 362-367.	0.5	33
110	Micropillar compression of LiF [111] single crystals: Effect of size, ion irradiation and misorientation. International Journal of Plasticity, 2012, 36, 50-63.	4.1	69
111	Application of digital image correlation at the microscale in fiber-reinforced composites. Composites Part A: Applied Science and Manufacturing, 2012, 43, 1630-1638.	3.8	89
112	A methodology to measure the interface shear strength by means of the fiber push-in test. Composites Science and Technology, 2012, 72, 1924-1932.	3.8	115
113	Thermal stability of HfO <sub>2</sub> -on-GaAs nanopatterns. Nanoscale, 2012, 4, 3734.	2.8	6
114	Effect of Misorientation on the Compression of Highly Anisotropic Single-Crystal Micropillars. Advanced Engineering Materials, 2012, 14, 1004-1008.	1.6	27
115	Determination of the mechanical properties of amorphous materials through instrumented nanoindentation. Acta Materialia, 2012, 60, 3953-3964.	3.8	92
116	Determination of damage micromechanisms and fracture resistance of glass fiber/epoxy cross-ply laminate by means of X-ray computed microtomography. Composites Science and Technology, 2012, 72, 350-359.	3.8	46
117	Influence of plasma surface treatments on kink band formation in PBO fibers during compression. Journal of Applied Polymer Science, 2012, 123, 2052-2063.	1.3	13
118	Anisotropy of mechanical properties in high-strength ultra-fine-grained pure Ti processed via a complex severe plastic deformation route. Scripta Materialia, 2011, 64, 69-72.	2.6	80
119	Fabrication of HfO <sub>2</sub> patterns by laser interference nanolithography and selective dry etching for III-V CMOS application. Nanoscale Research Letters, 2011, 6, 400.	3.1	14
120	Multiscale Modeling of Composite Materials: a Roadmap Towards Virtual Testing. Advanced Materials, 2011, 23, 5130-5147.	11.1	298
121	Multi-technique characterisation of MOVPE-grown GaAs on Si. Microelectronic Engineering, 2011, 88, 472-475.	1.1	3
122	Effect of Nb additions on the microstructure, thermal stability and mechanical behavior of high pressure Zr phases under ambient conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3496-3505.	2.6	80
123	Characterization of antiphase domains on GaAs grown on Ge substrates by conductive atomic force microscopy for photovoltaic applications. Solar Energy Materials and Solar Cells, 2011, 95, 1949-1954.	3.0	14
124	Effect of Accumulative Roll Bonding on Plastic Flow Properties of Commercially Pure Zirconium. AIP Conference Proceedings, 2011, , .	0.3	4
125	An experimental and numerical study of the influence of local effects on the application of the fibre push-in test. Philosophical Magazine, 2011, 91, 1293-1307.	0.7	40
126	Quantification of hardening in Fe-Mn master alloys prepared by a mechanical alloying process via nanoindentation experiments. Journal of Materials Research, 2011, 26, 1726-1733.	1.2	6



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127	Effect of fiber, matrix and interface properties on the in-plane shear deformation of carbon-fiber reinforced composites. <i>Composites Science and Technology</i> , 2010, 70, 970-980.	3.8	244
128	Predicting the thermal conductivity of composite materials with imperfect interfaces. <i>Composites Science and Technology</i> , 2010, 70, 2276-2283.	3.8	55
129	Thermomechanical properties of copper-carbon nanofibre composites prepared by spark plasma sintering and hot pressing. <i>Composites Science and Technology</i> , 2010, 70, 2263-2268.	3.8	53
130	High strength ultra-fine grained titanium produced via a novel SPD processing route. <i>International Journal of Material Forming</i> , 2010, 3, 407-410.	0.9	7
131	Application of equal channel angular pressing with parallel channels for grain refinement in aluminium alloys and its effect on deformation behavior. <i>International Journal of Material Forming</i> , 2010, 3, 411-414.	0.9	27
132	Chemical sensing based on the plasmonic response of nanoparticle aggregation: anion sensing in nanoparticles stabilized by amino-functional ionic liquid. <i>Frontiers of Physics in China</i> , 2010, 5, 330-336.	1.0	11
133	Effect of heat treatment of carbon nanofibres on electroless copper deposition. <i>Composites Science and Technology</i> , 2010, 70, 2269-2275.	3.8	19
134	Effect of Glass Fiber Hybridization on the Behavior Under Impact of Woven Carbon Fiber/Epoxy Laminates. <i>Journal of Composite Materials</i> , 2010, 44, 3051-3068.	1.2	71
135	Mechanisms of shear deformation in fiber-reinforced polymers: experiments and simulations. <i>International Journal of Fracture</i> , 2009, 158, 197-209.	1.1	58
136	Determination of residual stresses in cathodic arc coatings by means of the parallel beam glancing X-ray diffraction technique. <i>Thin Solid Films</i> , 2009, 518, 206-212.	0.8	11
137	Morphology influence of the oxidation kinetics of carbon nanofibers. <i>Corrosion Science</i> , 2009, 51, 926-930.	3.0	15
138	Transmission electron microscopy studies and simulation of the indentation response of superelastic fullerene-like carbon nitride thin films. <i>Journal of Applied Physics</i> , 2008, 103, 123515.	1.1	3
139	MULTILAYERED MATERIALS: A PALETTE FOR THE MATERIALS ARTIST. <i>Series on Iraq War and Its Consequences</i> , 2007, , 55-78.	0.1	0
140	Adhesion studies in integrated circuit interconnect structures. <i>Engineering Failure Analysis</i> , 2007, 14, 349-354.	1.8	14
141	Fracture characterization in patterned thin films by cross-sectional nanoindentation. <i>Acta Materialia</i> , 2006, 54, 3453-3462.	3.8	39
142	Deformation processes and the effects of microstructure in multilayered ceramics. <i>Composites Part B: Engineering</i> , 2006, 37, 542-549.	5.9	27
143	Hardness of multilayered ceramics. , 2006, , 216-240.		4
144	Use of Nanoindentation to Characterise the Plasma Damage Region in Low-k Dielectric Films. , 2006, , 51.		1

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145	Adhesion Studies in Low-k Interconnects Using Cross Sectional Nanoindentation. AIP Conference Proceedings, 2006, , .	0.3	1
146	Extent of plasma damage to porous organosilicate films characterized with nanoindentation, x-ray reflectivity, and surface acoustic waves. Journal of Materials Research, 2006, 21, 3161-3167.	1.2	7
147	Epitaxial stabilization of cubic-SiNx in TiN/SiNx multilayers. Applied Physics Letters, 2006, 88, 191902.	1.5	71
148	Growth and characterization of MAX-phase thin films. Surface and Coatings Technology, 2005, 193, 6-10.	2.2	176
149	Structural characterization of TiN/NbN multilayers: X-ray diffraction, energy-filtered TEM and Fresnel contrast techniques compared. Journal of Microscopy, 2005, 217, 241-259.	0.8	11
150	Phase stability tuning in the Nb <sub>x</sub> Zr <sub>1-x</sub> N thin-film system for large stacking fault density and enhanced mechanical strength. Applied Physics Letters, 2005, 86, 131922.	1.5	46
151	Nanostructure formation during deposition of TiN/SiNx nanomultilayer films by reactive dual magnetron sputtering. Journal of Applied Physics, 2005, 97, 114327.	1.1	145
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