

Joan Josep Roa Rovira

List of Publications by Year in descending order

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133
papers

2,458
citations

218381
26
h-index

288905
40
g-index

136
all docs

136
docs citations

136
times ranked

2591
citing authors

#	ARTICLE	IF	CITATIONS
1	Contact fatigue behaviour of CVD coated cemented carbides in dry and wet conditions. <i>Wear</i> , 2022, 492-493, 204215.	1.5	1
2	Synthesis and Characterization of an Fe/Co Ferrite Spinel Oxide Film Produced by Using N ₂ /Steam Heat Treatment on Two Maraging Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 1276-1293.	1.1	3
3	Effectiveness of Direct Laser Interference Patterning and Peptide Immobilization on Endothelial Cell Migration for Cardio-Vascular Applications: An In Vitro Study. <i>Nanomaterials</i> , 2022, 12, 1217.	1.9	6
4	ElectroCatalytic Activity of Nickel Foam with Co, Mo, and Ni Phosphide Nanostructures. <i>Plasma</i> , 2022, 5, 221-232.	0.7	10
5	Influence of microstructural assemblage of the substrate on the adhesion strength of coated PcBN grades. <i>Ceramics International</i> , 2022, 48, 22313-22322.	2.3	7
6	Small-scale mechanical response at intermediate/high temperature of 3D printed WC-Co. <i>Procedia CIRP</i> , 2022, 108, 507-512.	1.0	2
7	Surface integrity of new dry-electropolishing technology on WC-Co cemented carbides. <i>Procedia CIRP</i> , 2022, 108, 543-548.	1.0	3
8	Tailorable Nanoporous Hydroxyapatite Scaffolds for Electrothermal Catalysis. <i>ACS Applied Nano Materials</i> , 2022, 5, 8526-8536.	2.4	2
9	Contact fatigue behavior of $\hat{\pm}$ -Al ₂ O ₃ -Ti(C,N) CVD coated WC-Co under dry and wet conditions. <i>Materials Letters</i> , 2021, 284, 129012.	1.3	7
10	Experimental Correlation of Mechanical Properties of the Ti-6Al-4V Alloy at Different Length Scales. <i>Metals</i> , 2021, 11, 104.	1.0	25
11	Nanomechanical Characterization of the Deformation Response of Orthotropic Ti $\hat{\pm}$ 6Al $\hat{\pm}$ 4V. <i>Advanced Engineering Materials</i> , 2021, 23, 2001341.	1.6	10
12	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
13	Characterization Study of an Oxide Film Layer Produced under CO ₂ /Steam Atmospheres on Two Different Maraging Steel Grades. <i>Metals</i> , 2021, 11, 746.	1.0	5
14	Oxidation Behavior of Maraging 300 Alloy Exposed to Nitrogen/Water Vapor Atmosphere at 500 $\hat{\text{A}}$ C. <i>Metals</i> , 2021, 11, 1021.	1.0	2
15	Peptidic biofunctionalization of laser patterned dental zirconia: A biochemical-topographical approach. <i>Materials Science and Engineering C</i> , 2021, 125, 112096.	3.8	16
16	Measuring the fracture toughness of single WC grains of cemented carbides by means of microcantilever bending and micropillar splitting. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021, 98, 105529.	1.7	2
17	Remote Spatiotemporal Control of a Magnetic and Electroconductive Hydrogel Network via Magnetic Fields for Soft Electronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42486-42501.	4.0	11
18	Superficial Effects of Ball Burnishing on TRIP Steel AISI 301LN Sheets. <i>Metals</i> , 2021, 11, 82.	1.0	16

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19	Deformation kinetics of a TRIP steel determined by in situ high-energy synchrotron X-ray diffraction. <i>Materialia</i> , 2021, 20, 101251.	1.3	12
20	Hybrid conducting alginate-based hydrogel for hydrogen peroxide detection from enzymatic oxidation of lactate. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1237-1248.	3.6	6
21	Design of alternative binders for hard materials. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 87, 105089.	1.7	16
22	Influence of the processing route on the properties of Ti(C,N)-Fe ₁₅ Ni cermets. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 87, 105046.	1.7	16
23	Evolution of microstructure and residual stresses in gradually ground/polished 3Y-TZP. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1582-1591.	2.8	17
24	Novel Mechanical Characterization of Austenite and Ferrite Phases within Duplex Stainless Steel. <i>Metals</i> , 2020, 10, 1352.	1.0	24
25	Influence of grinding/polishing on the mechanical, phase stability and cell adhesion properties of yttria-stabilized zirconia. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4304-4314.	2.8	9
26	Cyclic contact fatigue of cemented carbides under dry and wet conditions: Correlation between microstructure, damage and electrochemical behavior. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 92, 105279.	1.7	8
27	3D FIB/FESEM tomography of grinding-induced damage in WC-Co cemented carbides. <i>Procedia CIRP</i> , 2020, 87, 385-390.	1.0	8
28	Improving Mechanical Properties of Glass Fiber Reinforced Polymers through Silica-Based Surface Nanoengineering. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2667-2675.	2.0	12
29	Free-Standing Faradaic Motors Based on Biocompatible Nanoperforated Poly(lactic Acid) Layers and Electropolymerized Poly(3,4-ethylenedioxythiophene). <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29427-29435.	4.0	11
30	WC-base cemented carbides with partial and total substitution of Co as binder: Evaluation of mechanical response by means of uniaxial compression of micropillars. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 84, 105027.	1.7	9
31	Assessment of mechanical properties at microstructural length scale of Ti(C,N)-FeNi ceramic-metal composites by means of massive nanoindentation and statistical analysis. <i>Ceramics International</i> , 2019, 45, 20202-20210.	2.3	17
32	Carbon addition effects on microstructure and small-scale hardness for Ti(C,N)-FeNi cermets. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 85, 105064.	1.7	12
33	Influence of the Crystallographic Orientation on the Yield Strength and Deformation Mechanisms of Austenitic Grains in Metastable Stainless Steels Investigated by Spherical Nanoindentation. <i>Steel Research International</i> , 2019, 90, 1800425.	1.0	2
34	Small-scale mechanical properties of constitutive phases within a polycrystalline cubic boron nitride composite. <i>Journal of the European Ceramic Society</i> , 2019, 39, 5181-5189.	2.8	14
35	Geometrically Necessary Dislocations on Plastic Deformation of Polycrystalline TRIP Steel. <i>Crystals</i> , 2019, 9, 289.	1.0	6
36	Assessment of corrosion-induced changes on the mechanical integrity of cemented carbides at small length scales. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 84, 105033.	1.7	10

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37	Influence of specimen size and microstructure on uniaxial compression of WC-Co micropillars. <i>Ceramics International</i> , 2019, 45, 15934-15941.	2.3	16
38	Enhanced osteoconductivity on electrically charged titanium implants treated by physicochemical surface modifications methods. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 18, 1-10.	1.7	11
39	Mechanical Properties of 3D-Printing Polylactic Acid Parts subjected to Bending Stress and Fatigue Testing. <i>Materials</i> , 2019, 12, 3859.	1.3	49
40	Transmission of Plasticity Through Grain Boundaries in a Metastable Austenitic Stainless Steel. <i>Metals</i> , 2019, 9, 234.	1.0	2
41	Micromechanical properties of WC-(W,Ti,Ta,Nb)C-Co composites. <i>Journal of Alloys and Compounds</i> , 2019, 777, 593-601.	2.8	30
42	Implementation of advanced characterisation techniques for assessment of grinding effects on the surface integrity of WC-Co cemented carbides. <i>Powder Metallurgy</i> , 2018, 61, 100-105.	0.9	2
43	Enhanced thermal stability and fracture toughness of TiAlN coatings by Cr, Nb and V-alloying. <i>Surface and Coatings Technology</i> , 2018, 342, 85-93.	2.2	40
44	Scale effect in mechanical characterization of WC-Co composites. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 72, 157-162.	1.7	19
45	Influence of testing mode on the fatigue behavior of γ austenitic grain at the nanometric length scale for TRIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 713, 287-293.	2.6	7
46	Mapping of mechanical properties at microstructural length scale in WC-Co cemented carbides: Assessment of hardness and elastic modulus by means of high speed massive nanoindentation and statistical analysis. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 75, 211-217.	1.7	54
47	The sequential twinning-transformation induced plasticity effects in a thermomechanically processed high Mn austenitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 725, 242-249.	2.6	18
48	Chemical and nanoindentation study of diffusion during sintering of 12Ce-ZrO ₂ /3Y-ZrO ₂ powder layers. <i>Ceramics International</i> , 2018, 44, 2485-2490.	2.3	2
49	Dynamic Deformation of Metastable Austenitic Stainless Steels at the Nanometric Length Scale. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 6034-6039.	1.1	4
50	Reversible Phase Transformation in Polycrystalline TRIP Steels Induced by Cyclic Indentation Performed at the Nanometric Length Scale. <i>Steel Research International</i> , 2018, 89, 1800234.	1.0	3
51	Influence of cyclic thermal treatments on the oxidation behavior of Ti-6Al-2Sn-4Zr-2Mo alloy. <i>Materials Characterization</i> , 2018, 145, 218-224.	1.9	6
52	Thermal and mechanical stability of wurtzite-ZrAlN/cubic-TiN and wurtzite-ZrAlN/cubic-ZrN multilayers. <i>Surface and Coatings Technology</i> , 2017, 324, 328-337.	2.2	8
53	Structural and mechanical properties of Zr _{1-x} Mox thin films: From the nano-crystalline to the amorphous state. <i>Journal of Alloys and Compounds</i> , 2017, 729, 137-143.	2.8	5
54	Deformation mechanisms induced by nanoindentation tests on a metastable austenitic stainless steel: A FIB/SIM investigation. <i>Materials Characterization</i> , 2017, 131, 253-260.	1.9	24

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55	Chemical segregation in a 12Ce-ZrO ₂ /3Y-ZrO ₂ ceramic composite. <i>Materials Characterization</i> , 2017, 132, 83-91.	1.9	2
56	Grinding-induced metallurgical alterations in the binder phase of WC-Co cemented carbides. <i>Materials Characterization</i> , 2017, 134, 302-310.	1.9	24
57	Nanosecond-laser patterning of 3Y-TZP: Damage and microstructural changes. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4876-4887.	2.8	40
58	Characterization of interfaces between TiCN and iron-base binders. <i>International Journal of Refractory Metals and Hard Materials</i> , 2017, 63, 32-37.	1.7	21
59	Influence of pre-existing martensite on the wear resistance of metastable austenitic stainless steels. <i>Wear</i> , 2016, 364-365, 40-47.	1.5	22
60	Mechanical properties of Al ₂ O ₃ inverse opals by means of nanoindentation. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 455303.	1.3	6
61	Surface grain size and texture after annealing ground zirconia. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1519-1525.	2.8	20
62	Nanoindentation and scratch resistance of multilayered TiO ₂ -SiO ₂ coatings with different nanocolumnar structures deposited by PV-OAD. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 135104.	1.3	9
63	Phase transformation under thermal fatigue of high Mn-TWIP steel: Microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 677, 431-437.	2.6	5
64	Thermally Induced Surface Integrity Changes of Ground WC-Co Hardmetals. <i>Procedia CIRP</i> , 2016, 45, 91-94.	1.0	4
65	Small scale fracture behaviour of multilayer TiN/CrN systems: Assessment of bilayer thickness effects by means of ex-situ tests on FIB-milled micro-cantilevers. <i>Surface and Coatings Technology</i> , 2016, 308, 414-417.	2.2	7
66	Hall-Petch strengthening of the constrained metallic binder in WC-Co cemented carbides: Experimental assessment by means of massive nanoindentation and statistical analysis. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 676, 487-491.	2.6	66
67	Chemical milling effect on the low cycle fatigue properties of cast Ti-6Al-2Sn-4Zr-2Mo alloy. <i>International Journal of Fatigue</i> , 2016, 92, 193-202.	2.8	14
68	The effects of bimodal grain size distributions on the work hardening behavior of a Transformation-TWinned induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 678, 23-32.	2.6	41
69	Functional behavior of the anomalous magnetic relaxation observed in melt-textured YBa ₂ Cu ₃ O _{7-δ} samples showing the paramagnetic Meissner effect. <i>Physica C: Superconductivity and Its Applications</i> , 2016, 529, 44-49.	0.6	1
70	Influence of microstructure and mechanical properties on the tribological behavior of reactive arc deposited Zr-Si-N coatings at room and high temperature. <i>Surface and Coatings Technology</i> , 2016, 304, 393-400.	2.2	10
71	High-field paramagnetic Meissner effect up to 14 T in melt-textured YBa ₂ Cu ₃ O _{7-δ} . <i>Physica C: Superconductivity and Its Applications</i> , 2016, 525-526, 105-110.	0.6	2
72	Chemically Introduced Disorder Effects on the Critical Current Density and Pinning Mechanisms of YBa _{2-x} Sr _x Cu ₃ O _{7-δ} . <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-4.	1.1	0

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73	The influence of unshielded small cracks in the fracture toughness of yttria and of ceria stabilised zirconia. <i>Journal of the European Ceramic Society</i> , 2016, 36, 147-153.	2.8	21
74	A review of doped lanthanum gallates as electrolytes for intermediate temperature solid oxides fuel cells: From materials processing to electrical and thermo-mechanical properties. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1-16.	2.8	76
75	Hydrofluoric acid etching of dental zirconia. Part 1: etching mechanism and surface characterization. <i>Journal of the European Ceramic Society</i> , 2016, 36, 121-134.	2.8	37
76	Mechanical deformation of WC-Co composite micropillars under uniaxial compression. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 54, 70-74.	1.7	32
77	Correlation Between Microstructure and Mechanical Properties Before and After Reversion of Metastable Austenitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 5697-5707.	1.1	19
78	Paramagnetic moments and time effects in melt-textured NdBaCuO system with Nd422 inclusions. <i>Journal of Physics: Conference Series</i> , 2015, 592, 012064.	0.3	2
79	Plastic deformation and damage induced by fatigue in TWIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 628, 410-418.	2.6	20
80	Intrinsic hardness of constitutive phases in WC-Co composites: Nanoindentation testing, statistical analysis, WC crystal orientation effects and flow stress for the constrained metallic binder. <i>Journal of the European Ceramic Society</i> , 2015, 35, 3419-3425.	2.8	68
81	Dependence of nanoindentation hardness with crystallographic orientation of austenite grains in metastable stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 645, 188-195.	2.6	50
82	Effect of shot peening on metastable austenitic stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 641, 290-296.	2.6	66
83	Influence of laser cutting on the fatigue limit of two high strength steels*. <i>Materialprüfung/Materials Testing</i> , 2015, 57, 136-140.	0.8	7
84	Substrate surface finish effects on scratch resistance and failure mechanisms of TiN-coated hardmetals. <i>Surface and Coatings Technology</i> , 2015, 265, 174-184.	2.2	21
85	Mechanical properties of 12Ce-ZrO ₂ /3Y-ZrO ₂ composites. <i>Ceramics International</i> , 2015, 41, 14988-14997.	2.3	19
86	Deformation of polycrystalline TRIP stainless steel micropillars. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 647, 51-57.	2.6	19
87	Effect of the filler on the nanomechanical properties of polypropylene in contact with paraffinic phase change material. <i>European Polymer Journal</i> , 2015, 63, 29-36.	2.6	8
88	Annealing aged zirconia: Study of surface mechanical properties at the micrometric length scale. <i>Journal of the European Ceramic Society</i> , 2015, 35, 1031-1039.	2.8	9
89	Coefficient of friction and wear resistance of zirconia-MWCNTs composites. <i>Ceramics International</i> , 2015, 41, 459-468.	2.3	32
90	Nanoindentation and fracture toughness of nanostructured zirconia/multi-walled carbon nanotube composites. <i>Ceramics International</i> , 2015, 41, 2453-2461.	2.3	37

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91	Berkovich nanoindentation and deformation mechanisms in a hardmetal binder-like cobalt alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 621, 128-132.	2.6	23
92	Fracture and fatigue behavior of WC-Co and WC-CoNi cemented carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 49, 184-191.	1.7	46
93	Corrosion damage in WC-Co cemented carbides: residual strength assessment and 3D FIB-FESEM tomography characterisation. <i>Powder Metallurgy</i> , 2014, 57, 324-330.	0.9	23
94	Deformation mechanisms induced under high cycle fatigue tests in a metastable austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 597, 232-236.	2.6	24
95	Fracture micromechanisms and mechanical behavior of YBCO bulk superconductors at 77 and 300K. <i>Ceramics International</i> , 2014, 40, 12797-12806.	2.3	4
96	Correlation between electrical and mechanical properties in $\text{La}_{1-x}\text{Sr}_x\text{Ga}_{1-y}\text{Mg}_y\text{O}_{3-\delta}$ ceramics used as electrolytes for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014, 246, 918-925.	4.0	22
97	Hardness of FRHC-Cu Determined by Statistical Analysis. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 637-642.	1.2	4
98	Structural and mechanical characterization of graphite foam/phase change material composites. <i>Carbon</i> , 2014, 74, 266-281.	5.4	40
99	Structure, deformation and fracture of arc evaporated Zr-Si-N hard films. <i>Surface and Coatings Technology</i> , 2014, 258, 1100-1107.	2.2	31
100	Study of the recycled aggregates nature's influence on the aggregate-cement paste interface and ITZ. <i>Construction and Building Materials</i> , 2014, 68, 677-684.	3.2	83
101	Contact damage and fracture micromechanisms of multilayered TiN/CrN coatings at micro- and nano-length scales. <i>Thin Solid Films</i> , 2014, 571, 308-315.	0.8	42
102	Low Sr doping effects on critical current density and pinning mechanism of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Journal of Physics: Conference Series</i> , 2014, 568, 022014.	0.3	1
103	Paramagnetic Meissner effect and strong time dependence at high fields in melt-textured high-T _c superconductors. <i>Journal of the Korean Physical Society</i> , 2013, 62, 1414-1417.	0.3	5
104	Depth-sensing indentation applied to polymers: A comparison between standard methods of analysis in relation to the nature of the materials. <i>European Polymer Journal</i> , 2013, 49, 4047-4053.	2.6	32
105	Contact Mechanics at Nanometric Scale Using Nanoindentation Technique for Brittle and Ductile Materials. <i>Recent Patents on Engineering</i> , 2012, 6, 116-126.	0.3	3
106	Performance and short-term stability of single-chamber solid oxide fuel cells based on $\text{La}_{0.9}\text{Sr}_{0.1}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_{3-\delta}$ electrolyte. <i>Journal of Power Sources</i> , 2012, 216, 417-424.	4.0	19
107	Electrical and mechanical characterization by instrumented indentation technique of $\text{La}_{0.85}\text{Sr}_{0.15}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_{3-\delta}$ electrolyte for SOFCs. <i>Journal of the European Ceramic Society</i> , 2012, 32, 4287-4293.	2.8	10
108	Mechanical characterization at nanometric scale for heterogeneous graphite-salt phase change materials with a statistical approach. <i>Ceramics International</i> , 2012, 38, 401-409.	2.3	7

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109	Mechanical properties at nanometric scale of alumina layers formed in sulphuric acid anodizing under burning conditions. <i>Ceramics International</i> , 2012, 38, 1627-1633.	2.3	16
110	Nanoindentation of Bridgman YBCO samples. <i>Ceramics International</i> , 2012, 38, 2035-2042.	2.3	6
111	Processing of graded anode-supported micro-tubular SOFCs based on samaria-doped ceria via gel-casting and spray-coating. <i>Ceramics International</i> , 2012, 38, 3713-3722.	2.3	34
112	Manufacturing of anode-supported tubular solid oxide fuel cells by a new shaping technique using aqueous gel-casting. <i>Journal of Power Sources</i> , 2012, 200, 45-52.	4.0	18
113	Corrosion induced degradation of textured YBCO under operation in high humidity conditions. <i>Surface and Coatings Technology</i> , 2012, 206, 4256-4261.	2.2	5
114	Oxygenation kinetics of YBCO-TSMG samples using the nanoindentation technique. <i>Journal of the European Ceramic Society</i> , 2012, 32, 425-431.	2.8	6
115	Calculation of Young's Modulus Value by Means of AFM. <i>Recent Patents on Nanotechnology</i> , 2011, 5, 27-36.	0.7	63
116	Mechanical properties of highly textured porous Ni ^W -YSZ and Co ^W -YSZ cermets produced from directionally solidified eutectics. <i>Ceramics International</i> , 2011, 37, 3123-3131.	2.3	8
117	AFM as an alternative for Young's modulus determination in ceramic materials in elastic deformation regime. <i>Physica C: Superconductivity and Its Applications</i> , 2011, 471, 544-548.	0.6	25
118	Hardness and Young's modulus distributions in atmospheric plasma sprayed WC ^W -Co coatings using nanoindentation. <i>Surface and Coatings Technology</i> , 2011, 205, 4192-4197.	2.2	45
119	Mechanical Characterisation at Nanometric Scale of a New Design of SOFCs. <i>Fuel Cells</i> , 2011, 11, 124-130.	1.5	14
120	Anode-supported SOFC Operated Under Single-chamber Conditions at Intermediate Temperatures. <i>Fuel Cells</i> , 2011, 11, 108-115.	1.5	14
121	Determination of hardness, Young's modulus and fracture toughness of lanthanum tungstates as novel proton conductors. <i>Ceramics International</i> , 2011, 37, 1593-1599.	2.3	20
122	Study of the friction, adhesion and mechanical properties of single crystals, ceramics and ceramic coatings by AFM. <i>Journal of the European Ceramic Society</i> , 2011, 31, 429-449.	2.8	26
123	Nanoindentation of multilayered epitaxial YBa ₂ Cu ₃ O _{7-δ} thin films and coated conductors. <i>Thin Solid Films</i> , 2011, 519, 2470-2476.	0.8	20
124	Nano-mechanical properties of silver-welded YBCO bulks. <i>Journal of Physics: Conference Series</i> , 2010, 234, 012034.	0.3	1
125	Nanoindentation with spherical tips of single crystals of YBCO textured by the Bridgman technique: Determination of indentation stress-strain curves. <i>Journal of the European Ceramic Society</i> , 2010, 30, 1477-1482.	2.8	25
126	Performance of a novel type of electrolyte-supported solid oxide fuel cell with honeycomb structure. <i>Journal of Power Sources</i> , 2010, 195, 516-521.	4.0	25

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127	Mechanical properties at the nanometer scale of GDC and YSZ used as electrolytes for solid oxide fuel cells. <i>Acta Materialia</i> , 2010, 58, 2504-2509.	3.8	100
128	Effective silver-assisted welding of YBCO blocks: mechanical versus electrical properties. <i>Superconductor Science and Technology</i> , 2010, 23, 045013.	1.8	9
129	Novel Procedures for the Microstructural Design of SOFC Materials. <i>ECS Transactions</i> , 2009, 25, 567-576.	0.3	1
130	Study of the mechanical properties of CeO ₂ layers with the nanoindentation technique. <i>Thin Solid Films</i> , 2009, 518, 227-232.	0.8	17
131	Yield strength, shear stress and toughness of YBCO samples textured by Bridgman technique. <i>Journal of Physics: Conference Series</i> , 2008, 97, 012116.	0.3	4
132	Nanohardness and Young's modulus of YBCO samples textured by the Bridgman technique. <i>Nanotechnology</i> , 2007, 18, 385701.	1.3	47
133	Magnetical Response and Mechanical Properties of High Temperature Superconductors, YBaCu ₃ O _{7-x} Materials. , 0, , .		0