

J Muñoz-Saldaña

List of Publications by Year in descending order

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118
papers

2,384
citations

236612

25
h-index

243296

44
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122
all docs

122
docs citations

122
times ranked

2570
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the Ca-P species produced over the time during phosphorus removal from aqueous solution using biocomposite of eggshell-palm mesocarp fiber. <i>Chemosphere</i> , 2022, 287, 132333.	4.2	10
2	Tribological behavior of multiphase super hard boron nitride films deposited by HiPIMS. <i>Materials Letters</i> , 2022, 318, 132167.	1.3	0
3	Reaction Products from High Temperature Treatments of $(\text{La}_x\text{Gd}_{1-x})_2\text{Zr}_2\text{O}_7$ System and Volcanic Ash Powder Mixtures. <i>Jom</i> , 2022, 74, 2791-2808.	0.9	4
4	Phosphate removal from aqueous solutions by heat treatment of eggshell and palm fiber. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104684.	3.3	21
5	Manufacturing of Photoactive Bi^{2+} -Bismuth Oxide by Flame Spray Oxidation. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 1107-1119.	1.6	3
6	Study of volumetric energy density limitations on the IN718 mesostructure and microstructure in laser powder bed fusion process. <i>Journal of Manufacturing Processes</i> , 2021, 64, 1261-1272.	2.8	33
7	Accelerated bioactive behavior of Nagelschmidtite bioceramics: Mimicking the nano and microstructural aspects of biological mineralization. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7921-7934.	2.8	2
8	Oxidation behavior of dense Yttrium doped B2-NiAl bulk material fabricated by ball milling self-propagating high-temperature synthesis and densified by spark plasma sintering. <i>Surface and Coatings Technology</i> , 2021, 421, 127448.	2.2	3
9	Eco-friendly materials obtained through a simple thermal transformation of water hyacinth (<i>Eichhornia Crassipes</i>) for the removal and immobilization of Cd^{2+} and Cu^{2+} from aqueous solutions. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 16, 100574.	1.7	3
10	Visible-light photoactive thermally sprayed coatings deposited from spray-dried $(\text{Na}_0.5\text{Bi}_0.5)\text{TiO}_3$ microspheres. <i>Surface and Coatings Technology</i> , 2021, 427, 127851.	2.2	2
11	Effect of ZnO content on the physical, mechanical and chemical properties of glass-ceramics in the $\text{CaO-SiO}_2\text{-Al}_2\text{O}_3$ system. <i>Ceramics International</i> , 2020, 46, 4322-4328.	2.3	54
12	Creep behavior of polycrystalline and single crystal Ni-based superalloys coated with Ta-containing NiCoCrAlY by high-velocity oxy-fuel spraying. <i>Scripta Materialia</i> , 2020, 178, 522-526.	2.6	15
13	Bovine-derived hydroxyapatite coatings deposited by high-velocity oxygen-fuel and atmospheric plasma spray processes: A comparative study. <i>Surface and Coatings Technology</i> , 2020, 381, 125193.	2.2	24
14	Microstructural analysis after furnace cyclic testing of pre-oxidized ReneN5/(Ni,Pt)Al/7YSZ thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2020, 403, 126376.	2.2	6
15	Synthesis and characterization of 50-50 wt. lanthanum aluminate-lanthanum zirconate composite dried by spray-drying. <i>MRS Advances</i> , 2020, 5, 2173-2179.	0.5	1
16	High ionic conductivity dysprosium and tantalum Co-doped bismuth oxide electrolyte for low-temperature SOFCs. <i>Ionics</i> , 2020, 26, 4579-4586.	1.2	19
17	In-vitro bioactivity and cytotoxicity of polarized $(\text{Bi}_0.5\text{Na}_0.5)\text{TiO}_3$ ceramics as a novel biomaterial for bone repair. <i>Materials Letters</i> , 2020, 275, 128078.	1.3	6
18	Effect of grit-blasting on the competitive growth between $\text{Bi}^{2+}\text{-Al}_2\text{O}_3$ and $\text{Bi}^{3+}\text{-Al}_2\text{O}_3$ during the oxidation of $\text{Bi}^{2+}\text{-(Ni,Pt)Al}$ bond coat systems. <i>Materials Letters</i> , 2020, 277, 128288.	1.3	5

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19	Swirling Effects in Atmospheric Plasma Spraying Process: Experiments and Simulation. <i>Coatings</i> , 2020, 10, 388.	1.2	2
20	Apatite Mineralization Process from Silicocarnotite Bioceramics: Mechanism of Crystal Growth and Maturation. <i>Crystal Growth and Design</i> , 2020, 20, 4030-4045.	1.4	5
21	Effect of HVOF Process Parameters on TiO ₂ Coatings: An Approach Using DoE and First-Order Process Maps. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 1160-1172.	1.6	3
22	Preferred Growth Orientation of Apatite Crystals on Biological Hydroxyapatite Enriched with Bioactive Glass: A Biomimetic Behavior. <i>Crystal Growth and Design</i> , 2019, 19, 5005-5018.	1.4	15
23	Optimization of Inconel 718 thick deposits by cold spray processing and annealing. <i>Surface and Coatings Technology</i> , 2019, 378, 124997.	2.2	18
24	High temperature interaction of volcanic ashes with 7YSZ TBC's produced by APS: Infiltration behavior and phase stability. <i>Surface and Coatings Technology</i> , 2019, 378, 124915.	2.2	21
25	A novel bismuth-based lead-free piezoelectric transducer immunosensor for carbaryl quantification. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 423-430.	4.0	19
26	Microstructural evaluation and nanohardness of an AlCoCuCrFeNiTi high-entropy alloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 634-641.	2.4	12
27	Controlling micro-porous size in TiO ₂ pellets processed by sol-gel and rapid liquid phase sintering. <i>Ceramics International</i> , 2019, 45, 14510-14516.	2.3	3
28	Effect of pre-oxidation treatments on the structural, microstructural, and chemical properties of γ -Ni ₂ (Ni,Pt)Al system. <i>Surface and Coatings Technology</i> , 2019, 367, 156-164.	2.2	3
29	Corrosion Performance of AISI 304 Stainless Steel in CO ₂ -Saturated Brine Solution. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019, 55, 1226-1235.	0.3	4
30	Influence of HVOF parameters on HAp coating generation: An integrated approach using process maps. <i>Surface and Coatings Technology</i> , 2019, 358, 299-307.	2.2	15
31	Isothermal phase transformations of bovine-derived hydroxyapatite/bioactive glass: A study by design of experiments. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1613-1624.	2.8	11
32	Microstructure and lifetime of Hf or Zr doped sputtered NiAlCr bond coat/7YSZ EB-PVD TBC systems. <i>Surface and Coatings Technology</i> , 2018, 335, 41-51.	2.2	13
33	Estructuras Porosas de TiO ₂ -Na _{0.8} Ti ₄ O ₈ -Na ₂ Ti ₆ O ₁₃ : Propiedades Superficiales y Evaluación Citotóxica. <i>Informacion Tecnologica (discontinued)</i> , 2018, 29, 95-102.	0.1	0
34	Microstructural analysis of Ta-containing NiCoCrAlY bond coats deposited by HVOF on different Ni-based superalloys. <i>Surface and Coatings Technology</i> , 2018, 354, 214-225.	2.2	26
35	Synthesis, Characterization and In Vitro Study of Synthetic and Bovine-Derived Hydroxyapatite Ceramics: A Comparison. <i>Materials</i> , 2018, 11, 333.	1.3	52
36	Comparative Study of Ferroelectric and Piezoelectric Properties of BNT-BKT-BT Ceramics near the Phase Transition Zone. <i>Materials</i> , 2018, 11, 361.	1.3	44

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37	Solid state synthesis of Bi _{0.4} Sr _{0.6} FeO ₃ powder for SOFC applications. <i>Hyperfine Interactions</i> , 2017, 238, 1.	0.2	0
38	Characterization of mechanical properties and electrochemical behaviour in a Hank's solution of 316L/Cr _{1-x} Al _x N system. <i>Journal of Physics: Conference Series</i> , 2017, 786, 012037.	0.3	1
39	Influence of Oxidation Treatments and Surface Finishing on the Electrochemical Behavior of Ni-20Cr HVOF Coatings. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 6064-6074.	1.2	6
40	Thermal Spray Deposition, Phase Stability and Mechanical Properties of La ₂ Zr ₂ O ₇ /LaAlO ₃ Coatings. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 1198-1206.	1.6	9
41	Study of the Isothermal Oxidation Process and Phase Transformations in B ₂ -(Ni,Pt)Al/RENE-N5 System. <i>Metals</i> , 2016, 6, 208.	1.0	5
42	Electrochemical Corrosion of HVOF-Sprayed NiCoCrAlY Coatings in CO ₂ -Saturated Brine. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 1330-1343.	1.6	10
43	Biomimetic titania/hydroxyapatite coating of CrCoMo microimplants enhances biocompatibility and reduces metal-associated toxicity. <i>Toxicology Letters</i> , 2016, 259, S154.	0.4	1
44	Bi ₄ Si ₃ O ₁₂ thin films for scintillator applications. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	3
45	Synthesis of lanthanum aluminate by reverse chemical precipitation using pseudoboehmite as alumina precursor. <i>Applied Radiation and Isotopes</i> , 2016, 117, 96-99.	0.7	7
46	Influence of substrate temperature and N ₂ /Ar flow ratio on the stoichiometry, structure and hardness of Ta _x coatings deposited by DC reactive sputtering. <i>Surface and Interface Analysis</i> , 2015, 47, 1015-1019.	0.8	6
47	Bismuth-based nanoparticles as the environmentally friendly replacement for lead-based piezoelectrics. <i>RSC Advances</i> , 2015, 5, 27295-27304.	1.7	29
48	Kinetic Study of the Competitive Growth Between $\hat{\Gamma}$ -Al ₂ O ₃ and $\hat{\Gamma}$ -Al ₂ O ₃ During the Early Stages of Oxidation of $\hat{\Gamma}$ -(Ni,Pt)Al Bond Coat Systems: Effects of Low Oxygen Partial Pressure and Temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 726-738.	1.1	24
49	The Effect of Different SO ₂ /SO ₃ Catalytic Media on High-Temperature Corrosion Processes (Hot) Tj ETQq1 1 0.784314 rgBT /Overlock 5	1.0	5
50	Biocompatibility evaluation of hydroxyapatite coatings for prosthetic applications. <i>Toxicology Letters</i> , 2015, 238, S94.	0.4	0
51	High-toughness/low-friction ductile epoxy coatings reinforced with carbon nanostructures. <i>Polymer Testing</i> , 2015, 47, 113-119.	2.3	24
52	Effects of the Modification of Processing Parameters on Mechanical Properties of HVOF Cr ₂ C ₃ -25NiCr Coatings. <i>Journal of Thermal Spray Technology</i> , 2015, 24, 938-946.	1.6	10
53	Ferroelectric properties of manganese doped (Bi _{1/2} Na _{1/2})TiO ₃ and (Bi _{1/2} Na _{1/2})TiO ₃ â€“BaTiO ₃ epitaxial thin films. <i>Applied Surface Science</i> , 2015, 359, 923-930.	3.1	27
54	Effects of VC additions on the mechanical properties of bimodal WCâ€“Co HVOF thermal sprayed coatings measured by nanoindentation. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 48, 167-178.	1.7	18

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55	Effect of HVOF Processing Parameters on the Properties of NiCoCrAlY Coatings by Design of Experiments. <i>Journal of Thermal Spray Technology</i> , 2014, 23, 950-961.	1.6	22
56	Piezoelectric and ferroelectric response enhancement in multiferroic YCrO ₃ films by reduction in thickness. <i>Materials Letters</i> , 2014, 114, 148-151.	1.3	11
57	Nanohardness and Microstructure of NiCoAlFeCu and NiCoAlFeCuCr Alloys Produced by Mechanical Alloying. <i>Microscopy and Microanalysis</i> , 2014, 20, 2106-2107.	0.2	3
58	Structural evolution of B ₂ -NiAl synthesized by high-energy ball milling. <i>Journal of Materials Science</i> , 2013, 48, 265-272.	1.7	8
59	Synthesis and mechanical characterization by nanoindentation of polycrystalline YAG with Eu and Nd additions. <i>Ceramics International</i> , 2013, 39, 3141-3149.	2.3	11
60	Microstructure and mechanical properties of Al ₂ O ₃ -YSZ spherical polycrystalline composites. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1907-1916.	2.8	15
61	PIEZORESPONSE FORCE MICROSCOPY STUDIES ON (100), (110) AND (111) EPITAXIALLY GROWN BiFeO ₃ THIN FILMS. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1477, 7.	0.1	1
62	Piezoresponse Force Microscopy Studies of pc-BiFeO ₃ Thin Films Produced by the Simultaneous Laser Ablation of Bi and FeO ₃ . <i>Materials Research Society Symposia Proceedings</i> , 2012, 1477, 52.	0.1	3
63	Following the Integration of Diamond Particles on the Lapping-Plate Surface: Towards a More Efficient Charging Process. <i>Journal of Tribology</i> , 2012, 134, .	1.0	3
64	First Stages of Oxidation of Pt-Modified Nickel Aluminide Bond Coat Systems at Low Oxygen Partial Pressure. <i>Oxidation of Metals</i> , 2012, 78, 269-284.	1.0	15
65	Thermal Characterization of PZT Ceramics Obtained by Mechanically Activated Mixed Oxides Using Different Pb Sources. <i>International Journal of Thermophysics</i> , 2012, 33, 2366-2376.	1.0	3
66	Experimental and computational study of the morphological evolution of intermetallic compound (Cu ₆ Sn ₅) layers at the Cu/Sn interface under isothermal soldering conditions. <i>Acta Materialia</i> , 2012, 60, 5125-5134.	3.8	30
67	Nanoindentation characterization of the micro-lamellar arrangement of black coral skeleton. <i>Journal of Structural Biology</i> , 2012, 177, 349-357.	1.3	14
68	Estimate of the Crystallization Kinetics in Stoichiometry Compositions Films of Ge:Sb:Te. <i>Journal of Surface Engineered Materials and Advanced Technology</i> , 2012, 02, 44-46.	0.2	2
69	Enhancement of mechanical and tribological properties in AISI D3 steel substrates by using a non-isostructural CrN/AlN multilayer coating. <i>Materials Chemistry and Physics</i> , 2011, 125, 576-586.	2.0	52
70	Determination of fracture toughness and energy dissipation of SiO ₂ -poly(methyl metacrylate) hybrid films by nanoindentation. <i>Thin Solid Films</i> , 2011, 519, 5528-5534.	0.8	15
71	Nanoindentation testing of SiO ₂ -PMMA hybrid films on acrylic substrates with variable coupling agent content. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 54, 312-318.	1.1	28
72	Nanoindentation of melt-extracted amorphous YAG and YAG:Eu, Nd micrometric fibers synthesized by the citrate precursor method. <i>Journal of the European Ceramic Society</i> , 2010, 30, 73-79.	2.8	9

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73	Mechanical, tribological, and electrochemical behavior of Cr _{1-x} Al _x N coatings deposited by r.f. reactive magnetron co-sputtering method. Applied Surface Science, 2010, 256, 2380-2387.	3.1	58
74	TiCN/TiNbCN multilayer coatings with enhanced mechanical properties. Applied Surface Science, 2010, 256, 5898-5904.	3.1	101
75	Enhancement of surface mechanical properties by using TiN[BCN/BN] _n /c-BN multilayer system. Applied Surface Science, 2010, 257, 1098-1104.	3.1	20
76	Effect of Surface Substrate Roughness and of Chelating Agent on the Microstructure and Mechanical Properties of Electroless Processed Brass Coatings. Industrial & Engineering Chemistry Research, 2010, 49, 6388-6393.	1.8	0
77	Inhibition of the two-photon absorption response exhibited by a bilayer TiO ₂ film with embedded Au nanoparticles. Optics Express, 2010, 18, 16406.	1.7	30
78	Effect of applied bias voltage on corrosion-resistance for TiC _{1-x} N _x and Ti _{1-x} N _b C _{1-y} N _y coatings. Applied Surface Science, 2010, 256, 2876-2883.	3.1	62
79	Geometry and bluntness tip effects on elastic-plastic behaviour during nanoindentation of fused silica: experimental and FE simulation. Modelling and Simulation in Materials Science and Engineering, 2010, 18, 075006.	0.8	31
80	Inter Laboratory Comparison and Analysis on Mechanical Properties by Nanoindentation. Materials Research Society Symposia Proceedings, 2009, 1243, 1.	0.1	2
81	Surface texture and tetragonality of mechanically affected powders and sintered ceramics of BaTiO ₃ . Materials Research Innovations, 2009, 13, 391-395.	1.0	2
82	Nanoindentation of BaTiO ₃ : dislocation nucleation and mechanical twinning. Journal Physics D: Applied Physics, 2009, 42, 085502.	1.3	34
83	Simulation of vibrational resonances of stiff AFM cantilevers by finite element methods. New Journal of Physics, 2009, 11, 083034.	1.2	42
84	Composition and mechanical properties of AlC, AlN and AlCN thin films obtained by r.f. magnetron sputtering. Surface and Coatings Technology, 2009, 203, 1904-1907.	2.2	54
85	Microstructural Analysis of TiAl _x NyO _z Coatings Fabricated by DC Reactive Sputtering. Journal of Materials Engineering and Performance, 2009, 18, 102-105.	1.2	0
86	Corrosion study of Alumina/Yttria-Stabilized Zirconia (Al ₂ O ₃ /YSZ) nanostructured Thermal Barrier Coatings (TBC) exposed to high temperature treatment. Corrosion Science, 2009, 51, 2994-2999.	3.0	56
87	Mechanosynthesis and reactive sintering of Ba _{1-x} Sr _x TiO ₃ ceramics. Materials Research Innovations, 2009, 13, 368-371.	1.0	4
88	PZT ferroelectric ceramics obtained by sol-gel method using 2-metoxxyethanol route for pyroelectric sensors. Materials Research Innovations, 2009, 13, 375-378.	1.0	3
89	Influence of the N ₂ partial pressure on the mechanical properties and tribological behavior of zirconium nitride deposited by reactive magnetron sputtering. Surface and Coatings Technology, 2008, 202, 3653-3660.	2.2	18
90	Relationship Between Crystalline Structure and Hardness of Ti-Si-N-O Coatings Fabricated by dc Sputtering. Journal of Materials Engineering and Performance, 2008, 17, 580-585.	1.2	3

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91	Preparation of neodymium-doped yttrium aluminum garnet powders and fibers. Journal of Rare Earths, 2008, 26, 670-673.	2.5	10
92	Determination of strontium and lanthanum zirconates in YPSZâ€“LSM mixtures for SOFC. Journal of Power Sources, 2008, 180, 209-214.	4.0	8
93	Correlation between optical characterization of the plasma in reactive magnetron sputtering deposition of Zrâ€“N on SS 316L and surface and mechanical properties of the deposited films. Applied Surface Science, 2008, 254, 4632-4637.	3.1	3
94	Indentation size effect in soft PZT ceramics with tetragonal structure close to the MPB. Journal Physics D: Applied Physics, 2008, 41, 035407.	1.3	12
95	Hybrid natural-synthetic chitosan resin: thermal and mechanical behavior. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 259-273.	1.9	12
96	Statistical characterization of the lapping plate surface morphology evolution in a diamond charging process. Measurement Science and Technology, 2008, 19, 065706.	1.4	4
97	Finite-Element Simulation of Cantilever Vibrations in Atomic Force Acoustic Microscopy. Journal of Physics: Conference Series, 2007, 61, 293-297.	0.3	6
98	Mechanosynthesis of LaMnO3 from different manganese oxides. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 4054-4063.	0.8	7
99	Hardness and wearing properties of SiO ₂ â€“PMMA hybrid coatings reinforced with Al ₂ O ₃ nanowhiskers. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 4254-4259.	0.8	10
100	Influence of bias voltage on the crystallographic orientation and morphology of sputter deposited yttria stabilized zirconia (YSZ) thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 4288-4293.	0.8	10
101	Nanoindentation and structural characterization of molded starch. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 4242-4247.	0.8	3
102	Mechanical and thermal properties of SiO ₂ â€“PMMA monoliths. Journal of Non-Crystalline Solids, 2006, 352, 3561-3566.	1.5	24
103	Thermal Stability, Structure and Mechanical Properties of TiSiN Coatings Prepared by Reactive DC Magnetron Co-Sputtering. Materials Science Forum, 2006, 509, 93-98.	0.3	2
104	Atomic force microscopy cantilever simulation by finite element methods for quantitative atomic force acoustic microscopy measurements. Journal of Materials Research, 2006, 21, 3072-3079.	1.2	16
105	Preparation of Size Controlled Nanometric Spheres of Colloidal Silica for Synthetic Opal Manufacture. Materials Science Forum, 2006, 509, 187-192.	0.3	5
106	Indentation size effect in barium titanate with spherical tipped nanoindenters. Applied Physics Letters, 2006, 88, 091908.	1.5	22
107	Structure and thermal stability of ball milled Tiâ€“Alâ€“H powders. Journal of Alloys and Compounds, 2005, 388, 266-273.	2.8	5
108	Domain rearrangement during nanoindentation in single-crystalline barium titanate measured by atomic force microscopy and piezoresponse force microscopy. Applied Physics Letters, 2005, 86, 192903.	1.5	47

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109	Fracture toughness from submicron derived indentation cracks. Applied Physics Letters, 2004, 84, 3055-3057.	1.5	79
110	Mechanical characterization of thin amorphous tungsten-carbon (Wx Cy) films prepared by DC-cosputtering. Vacuum, 2004, 76, 173-176.	1.6	1
111	Structure and mechanical properties of (Ti,Al)(B,N) coatings fabricated by reactive DC magnetron sputtering. Vacuum, 2004, 76, 161-164.	1.6	12
112	Modeling and measurement of surface displacements in BaTiO3 bulk material in piezoresponse force microscopy. Journal of Applied Physics, 2004, 96, 563-568.	1.1	117
113	Mechanical properties and low-temperature aging of tetragonal zirconia polycrystals processed by hot isostatic pressing. Journal of Materials Research, 2003, 18, 2415-2426.	1.2	68
114	Ferroelectric domains in coarse-grained lead zirconate titanate ceramics characterized by scanning force microscopy. Journal of Materials Research, 2003, 18, 1777-1786.	1.2	18
115	High-resolution characterization of piezoelectric ceramics by ultrasonic scanning force microscopy techniques. Journal Physics D: Applied Physics, 2002, 35, 2621-2635.	1.3	140
116	Preparation of BaTiO3 single crystals using the modified SiO2-exaggerated grain growth method. Journal of the European Ceramic Society, 2002, 22, 681-688.	2.8	28
117	Stress induced movement of ferroelastic domain walls in BaTiO3 single crystals evaluated by scanning force microscopy. Surface Science, 2001, 480, L402-L410.	0.8	93
118	Nanoscale reconstruction of surface crystallography from three-dimensional polarization distribution in ferroelectric barium-titanate ceramics. Applied Physics Letters, 1999, 74, 233-235.	1.5	194