

Eric Le Bourhis

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211 papers	2,805 citations	27 h-index	43 g-index
223 ext. papers	3,002 ext. citations	2.9 avg, IF	4.81 L-index

#	Paper	IF	Citations
211	Mechanical properties of hybrid organic/inorganic materials. <i>Journal of Materials Chemistry</i> , 2005 , 15, 3787		402
210	Structural, electrical, optical, and mechanical characterizations of decorative ZrOxNy thin films. <i>Journal of Applied Physics</i> , 2005 , 98, 023715	2.5	79
209	Crystallographic and structural transformations of sedimentary chalcedony in flint upon heat treatment. <i>Journal of Archaeological Science</i> , 2012 , 39, 135-144	2.9	76
208	Characterization and residual stresses of WC/Co thermally sprayed coatings. <i>Surface and Coatings Technology</i> , 2008 , 202, 4560-4565	4.4	67
207	Study of texture effect on elastic properties of Au thin films by X-ray diffraction and in situ tensile testing. <i>Acta Materialia</i> , 2006 , 54, 4503-4513	8.4	62
206	Elaboration and mechanical characterization of nanocomposites thin films. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 259-266	6	48
205	Structural and mechanical properties of IBAO deposited nanocomposite TiN/Ni coatings. <i>Surface and Coatings Technology</i> , 2006 , 200, 6298-6302	4.4	48
204	Measurement of the elastic constants of textured anisotropic thin films from x-ray diffraction data. <i>Applied Physics Letters</i> , 2003 , 83, 473-475	3.4	48
203	Mechanical properties of hard AlCrN-based coated substrates. <i>Surface and Coatings Technology</i> , 2009 , 203, 2961-2968	4.4	45
202	The influence of annealing treatments on the properties of Ag:TiO ₂ nanocomposite films prepared by magnetron sputtering. <i>Applied Surface Science</i> , 2012 , 258, 4028-4034	6.7	44
201	Development of a synchrotron biaxial tensile device for in situ characterization of thin films mechanical response. <i>Review of Scientific Instruments</i> , 2010 , 81, 103903	1.7	43
200	Transmission electron microscopy observations of low-load indents in GaAs. <i>Philosophical Magazine Letters</i> , 1999 , 79, 805-812	1	42
199	In situ diffraction strain analysis of elastically deformed polycrystalline thin films, and micromechanical interpretation. <i>Journal of Applied Crystallography</i> , 2009 , 42, 1073-1084	3.8	39
198	Elaboration and mechanical characterization of nanocomposites thin films. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 267-272	6	39
197	Plastic deformation of III-V semiconductors under concentrated load. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2003 , 47, 1-43	3.5	39
196	Magnetron sputtered TiSi ₂ thin films prepared at low temperatures. <i>Surface and Coatings Technology</i> , 2007 , 201, 7180-7186	4.4	36
195	Fatigue behavior of AA7075-T6 aluminum alloy coated with ZrN by PVD. <i>International Journal of Fatigue</i> , 2008 , 30, 1220-1230	5	36

194	Elastic anisotropy of polycrystalline Au films: Modeling and respective contributions of X-ray diffraction, nanoindentation and Brillouin light scattering. <i>Acta Materialia</i> , 2010 , 58, 4998-5008	8.4	35
193	Hardness properties and high-temperature wear behavior of nitrided AISI D2 tool steel, prior and after PAPVD coating. <i>Wear</i> , 2009 , 267, 1452-1461	3.5	33
192	Indentation-induced crystallization and phase transformation of amorphous germanium. <i>Journal of Applied Physics</i> , 2004 , 96, 1464-1468	2.5	33
191	Combined synchrotron X-ray and image-correlation analyses of biaxially deformed W/Cu nanocomposite thin films on Kapton. <i>Journal of Applied Crystallography</i> , 2011 , 44, 1071-1079	3.8	32
190	Elastic-strain distribution in metallic film-polymer substrate composites. <i>Applied Physics Letters</i> , 2010 , 96, 041905	3.4	31
189	Depth-sensing indentation modeling for determination of Elastic modulus of thin films. <i>Mechanics of Materials</i> , 2010 , 42, 166-174	3.3	31
188	Mechanical Properties of SiO ₂ -PMMA Based Hybrid Organic-Inorganic Thin Films. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 413-417	2.3	31
187	Synchrotron X-ray diffraction experiments with a prototype hybrid pixel detector. <i>Journal of Applied Crystallography</i> , 2012 , 45, 38-47	3.8	30
186	Indentation response of glass with temperature. <i>Journal of Non-Crystalline Solids</i> , 2003 , 316, 153-159	3.9	29
185	Temperature dependence of the mechanical behaviour of a GeAsSe glass. <i>Scripta Materialia</i> , 2001 , 45, 317-323	5.6	29
184	2007 ,		27
183	Influence of the O/C ratio in the behaviour of TiC _x O _y thin films. <i>Surface and Coatings Technology</i> , 2007 , 201, 5587-5591	4.4	27
182	X-ray diffraction analysis of the structure and residual stresses of W/Cu multilayers. <i>Surface and Coatings Technology</i> , 2006 , 201, 4372-4376	4.4	27
181	Indentation of glass as a function of temperature. <i>Journal of Non-Crystalline Solids</i> , 2000 , 272, 34-38	3.9	27
180	Yield surface of polycrystalline thin films as revealed by non-equibiaxial loadings at small deformation. <i>Acta Materialia</i> , 2013 , 61, 5067-5077	8.4	26
179	Determination of elastic constants of a fiber-textured gold film by combining synchrotron x-ray diffraction and in situ tensile testing. <i>Journal of Applied Physics</i> , 2005 , 98, 093511	2.5	25
178	ZrO _x Ny decorative thin films prepared by the reactive gas pulsing process. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 195501	3	23
177	Nanoindentation of GaAs compliant substrates. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2000 , 80, 2899-2911		23

176	Study on Young's modulus of thin films on Kapton by microtensile testing combined with dual DIC system. <i>Surface and Coatings Technology</i> , 2016 , 308, 273-279	4.4	23
175	Copper coverage effect on tungsten crystallites texture development in W/Cu nanocomposite thin films. <i>Journal of Applied Physics</i> , 2011 , 109, 014305	2.5	22
174	Subsurface deformations induced by a Vickers indenter in GaAs/AlGaAs superlattice. <i>Journal of Materials Science Letters</i> , 2002 , 21, 401-404		22
173	Material flow under an indenter in indium phosphide. <i>Journal of Materials Science</i> , 1996 , 31, 6571-6576	4.3	22
172	Mechanical properties of carbon nanotube/PMMA based hybrid coatings: the importance of surface chemistry. <i>RSC Advances</i> , 2012 , 2, 2462	3.7	21
171	Effect of spraying distance on the microstructure and mechanical properties of a Colmonoy 88 alloy deposited by HVOF thermal spraying. <i>Surface and Coatings Technology</i> , 2010 , 205, 1799-1806	4.4	21
170	Measurement of thin film elastic constants by X-ray diffraction. <i>Thin Solid Films</i> , 2004 , 469-470, 201-205	2.2	21
169	The influence of structure changes in the properties of TiCxOy decorative thin films. <i>Thin Solid Films</i> , 2007 , 515, 5424-5429	2.2	20
168	Properties of MoNxOy thin films as a function of the N/O ratio. <i>Thin Solid Films</i> , 2006 , 494, 201-206	2.2	20
167	Structure and Mechanical Properties of Mesoporous Functional Hybrid Coatings Based on Anisotropic Nanoparticles Dispersed in Poly(hydroxyethyl methacrylate). <i>Chemistry of Materials</i> , 2008 , 20, 4602-4611	9.6	19
166	ORMOSIL thin films: tuning mechanical properties via a nanochemistry approach. <i>Langmuir</i> , 2006 , 22, 11158-62	4	19
165	Indentation-induced deformations of GaAs(011) at a high temperature. <i>Philosophical Magazine</i> , 2003 , 83, 1653-1673	1.6	19
164	Carbon nanotube-poly(methyl methacrylate) hybrid films: preparation using diazonium salt chemistry and mechanical properties. <i>Journal of Colloid and Interface Science</i> , 2014 , 433, 115-122	9.3	17
163	Comparative study of the mechanical properties of nanostructured thin films on stretchable substrates. <i>Journal of Applied Physics</i> , 2014 , 116, 093504	2.5	17
162	Deformation modes of nanostructured thin film under controlled biaxial deformation. <i>Thin Solid Films</i> , 2013 , 530, 30-34	2.2	17
161	Effect of thermal treatments on the structure of MoNxOy thin films. <i>Vacuum</i> , 2008 , 82, 1428-1432	3.7	17
160	Indentation mechanics and its application to thin film characterization. <i>Vacuum</i> , 2008 , 82, 1353-1359	3.7	17
159	Effect of water ageing on nanoindentation response of single hemp yarn/epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 84, 216-223	8.4	16

158	Controlled nanostructuring of polycrystalline tungsten thin films. <i>Journal of Applied Physics</i> , 2013 , 113, 174310	2.5	16
157	Elastic behavior of polycrystalline thin films inferred from in situ micromechanical testing and modeling. <i>Applied Physics Letters</i> , 2006 , 89, 061911	3.4	16
156	Polarity-induced changes in the nanoindentation response of GaAs. <i>Journal of Materials Research</i> , 2004 , 19, 131-136	2.5	16
155	Indentation punching through thin (011) InP. <i>Journal of Materials Science</i> , 2004 , 39, 943-949	4.3	16
154	Evolution of the functional properties of titanium-silver thin films for biomedical applications: Influence of in-vacuum annealing. <i>Surface and Coatings Technology</i> , 2015 , 261, 262-271	4.4	15
153	Effect of TiAlN PVD coatings on corrosion performance of WC-6%Co. <i>Surface Engineering</i> , 2010 , 26, 562-566	5.6	15
152	The effect of bombarding conditions on the properties of multifunctional TiO ₂ thin films grown by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2007 , 202, 946-951	4.4	15
151	Elastic-plastic resistance profile of PBII nitrided titanium. <i>Scripta Materialia</i> , 2004 , 51, 899-903	5.6	15
150	Benefits of two-dimensional detectors for synchrotron X-ray diffraction studies of thin film mechanical behavior. <i>Journal of Applied Crystallography</i> , 2008 , 41, 1076-1088	3.8	14
149	Optimization and thermal stability of TiAlN/Mo multilayers. <i>Surface and Coatings Technology</i> , 2005 , 200, 288-292	4.4	14
148	Low-load deformation of InP under contact loading; comparison with GaAs. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002 , 82, 1953-1961		14
147	Improved nitridation efficiency and mechanical property of stainless steel surface after N ₂ H ₂ plasma nitridation at low temperature. <i>Materials Letters</i> , 2002 , 56, 76-79	3.3	14
146	Room-Temperature Plasticity of InAs. <i>Physica Status Solidi A</i> , 2000 , 179, 153-158		14
145	Structure-mechanical function relations at nano-scale in heat-affected human dental tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 32, 113-124	4.1	13
144	X-ray diffraction study of thermal stress relaxation in ZnO films deposited by magnetron sputtering. <i>Thin Solid Films</i> , 2010 , 519, 1563-1567	2.2	13
143	Probing the deformation and fracture properties of Cu/W nano-multilayers by in situ SEM and synchrotron XRD strain microscopy. <i>Surface and Coatings Technology</i> , 2017 , 320, 158-167	4.4	12
142	2014,		12
141	Evaluation of the surface bonding energy of an InP membrane bonded oxide-free to Si using instrumented nanoindentation. <i>Applied Physics Letters</i> , 2013 , 103, 081901	3.4	12

140	TEM-nanoindentation studies of semiconducting structures. <i>Micron</i> , 2007 , 38, 377-89	2.3	12
139	Structure of nanoindentations in heavily n- and p-doped (0 0 1) GaAs. <i>Acta Materialia</i> , 2008 , 56, 1417-1426	2.4	12
138	Time dependence of the indentation behavior of hybrid coatings. <i>Journal of Non-Crystalline Solids</i> , 2004 , 345-346, 610-614	3.9	12
137	Deformations induced by a Vickers indenter in InP at room temperature. <i>EPJ Applied Physics</i> , 2000 , 12, 31-36	1.1	12
136	Strain transfer through film-substrate interface and surface curvature evolution during a tensile test. <i>Applied Surface Science</i> , 2018 , 434, 771-780	6.7	11
135	Sin ² Ψ analysis in thin films using 2D detectors: Non-linearity due to set-up, stress state and microstructure. <i>Thin Solid Films</i> , 2013 , 530, 25-29	2.2	11
134	Structure-Property Relationships in Arapaima Gigas Scales Revealed by Nanoindentation Tests. <i>Polymers and Polymer Composites</i> , 2014 , 22, 369-374	0.8	11
133	Elastic behaviour of titanium dioxide films on polyimide substrates studied by in situ tensile testing in a X-ray diffractometer. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 365-369	1.2	11
132	Absolute determination of the asymmetry of the in-plane deformation of GaAs (001). <i>Journal of Applied Physics</i> , 2004 , 95, 3984-3987	2.5	11
131	Solid-solution strengthening in ordered In _x Ga _{1-x} P alloys. <i>Philosophical Magazine Letters</i> , 2004 , 84, 373-381	1	11
130	Third-order elastic constants determination in soda-silica glass by Brillouin scattering. <i>Journal of Non-Crystalline Solids</i> , 1999 , 260, 235-241	3.9	11
129	Nano-scale residual stress depth profiling in Cu/W nano-multilayers as a function of magnetron sputtering pressure. <i>Surface and Coatings Technology</i> , 2020 , 381, 125142	4.4	11
128	In situ monitoring of X-ray strain pole figures of a biaxially deformed ultra-thin film on a flexible substrate. <i>Journal of Applied Crystallography</i> , 2014 , 47, 181-187	3.8	10
127	X-ray diffraction analysis of thermally-induced stress relaxation in ZnO films deposited by magnetron sputtering on (100) Si substrates. <i>Thin Solid Films</i> , 2010 , 518, 5237-5241	2.2	10
126	Vickers indentation of thin GaAs (001) samples. <i>Philosophical Magazine</i> , 2004 , 84, 3281-3298	1.6	10
125	Mechanical response of wall-patterned GaAs surface. <i>Acta Materialia</i> , 2005 , 53, 1907-1912	8.4	10
124	Structural and mechanical studies of Fe-Cr thin films deposited by ion-beam sputtering. <i>EPJ Applied Physics</i> , 2005 , 30, 33-39	1.1	10
123	Twist-bonded compliant substrates for III-V semiconductors heteroepitaxy. <i>Applied Surface Science</i> , 2001 , 178, 134-139	6.7	10

122	Material Flow at the Surface of Indented Indium Phosphide. <i>Physica Status Solidi A</i> , 1997 , 161, 415-427		9
121	Characterization and modelling of the elastic properties of nano-structured W/Cu multilayers. <i>Thin Solid Films</i> , 2007 , 516, 320-324	2.2	9
120	Non-linear solid solution strengthening of InGaAs alloy. <i>Journal of Materials Science Letters</i> , 2001 , 20, 43-45		9
119	Mastering the biaxial stress state in nanometric thin films on flexible substrates. <i>Applied Surface Science</i> , 2014 , 306, 70-74	6.7	8
118	Deposition of ultra-thin gold film on in situ loaded polymeric substrate for compression tests. <i>Materials Letters</i> , 2012 , 73, 99-102	3.3	8
117	In-depth deformation of InP under a Vickers indenter. <i>Journal of Materials Science</i> , 2001 , 36, 1343-1347	4.3	8
116	Phase transition signature on elastic constants in Al _{1-x} Cr _x Ny ternary alloys thin films. <i>Applied Physics Letters</i> , 2013 , 103, 041601	3.4	7
115	Ti-Si-C thin films produced by magnetron sputtering: correlation between physical properties, mechanical properties and tribological behavior. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2926-32	1.3	7
114	Controlled biaxial deformation of nanostructured W/Cu thin films studied by X-ray diffraction. <i>Surface and Coatings Technology</i> , 2010 , 205, 1420-1425	4.4	7
113	Correlation Between Processing and Properties of Titanium Oxycarbide, TiC _x O _y , Thin Films. <i>Plasma Processes and Polymers</i> , 2007 , 4, S83-S88	3.4	7
112	Elastic properties of polycrystalline gold thin films: Simulation and X-ray diffraction experiments. <i>Surface and Coatings Technology</i> , 2006 , 201, 4300-4304	4.4	7
111	Effects of annealing on structure of GaAs(001) nanoindentations. <i>Philosophical Magazine Letters</i> , 2003 , 83, 149-158	1	7
110	Deformations of (011) GaAs under concentrated load. <i>Journal of Materials Science Letters</i> , 2001 , 20, 1361-1364		7
109	Cyclic testing of thin Ni films on a pre-tensile compliant substrate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 695, 112-119	5.3	6
108	Structure-stress-resistivity relationship in WTi alloy ultra-thin and thin films prepared by magnetron sputtering. <i>Journal of Applied Physics</i> , 2013 , 113, 213504	2.5	6
107	Glass, 1. Fundamentals 2011 ,		6
106	In situ thermal residual stress evolution in ultrathin ZnO and Ag films studied by synchrotron x-ray diffraction. <i>Thin Solid Films</i> , 2011 , 520, 1390-1394	2.2	5
105	TEM study of the indentation behaviour of thin Au film on GaAs. <i>Thin Solid Films</i> , 2004 , 460, 150-155	2.2	5

104	Polarity influence on the indentation punching of thin {111} GaAs foils at elevated temperatures. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 1140-1147	3	5
103	Low-load deformation of InP under contact loading; comparison with GaAs. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002 , 82, 1953-1961		5
102	Exploring the mechanical properties of hard botanical structures of two tropical plants. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2016 , 5, 96-105	1.3	4
101	An ultra-thin SiO ₂ ALD layer for void-free bonding of III-V material on silicon. <i>Microelectronic Engineering</i> , 2016 , 162, 40-44	2.5	4
100	Real-time curvature and optical spectroscopy monitoring of magnetron-sputtered WTi alloy thin films. <i>Surface and Coatings Technology</i> , 2013 , 237, 112-117	4.4	4
99	Stress evaluation in thin films: Micro-focus synchrotron X-ray diffraction combined with focused ion beam patterning for do evaluation. <i>Thin Solid Films</i> , 2013 , 549, 245-250	2.2	4
98	Oxide-Free Bonding of III-V-Based Material on Silicon and Nano-Structuration of the Hybrid Waveguide for Advanced Optical Functions. <i>Photonics</i> , 2015 , 2, 1054-1064	2.2	4
97	Heteroepitaxial bonding of Si for hybrid photonic devices. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1510, 1		4
96	X-ray strain analysis of {111} fiber-textured thin films independent of grain-interaction models. <i>Journal of Applied Crystallography</i> , 2011 , 44, 409-413	3.8	4
95	Small scale mechanical properties of polycrystalline materials: in situ diffraction studies. <i>International Journal of Nanotechnology</i> , 2008 , 5, 609	1.5	4
94	Plasticity of misoriented (001) GaAs surface. <i>Journal of Materials Science Letters</i> , 2003 , 22, 565-567		4
93	Nanoindentation response of a single micrometer-sized GaAs wall. <i>Applied Physics Letters</i> , 2005 , 86, 1631-1633	10.7	4
92	Mechanical properties and size effect in nanometric W/Cu multilayers. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 875, 1		4
91	Stress-Assisted Thermal Diffusion Barrier Breakdown in Ion Beam Deposited Cu/W Nano-Multilayers on Si Substrate Observed by GISAXS and Transmission EDX. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6795-6804	9.5	4
90	Hybrid piezochromic coatings for impact detection on composite substrates for aeronautic. <i>Materials Letters</i> , 2019 , 253, 140-143	3.3	3
89	Locally measuring the adhesion of InP directly bonded on sub-100 nm patterned Si. <i>Nanotechnology</i> , 2016 , 27, 115707	3.4	3
88	Influence of Structure and Organic-Inorganic Phase Interactions on Coating Mechanical Properties in the Ternary Goethite:Poly(HEMA):Silica System. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 2675-2683	2.3	3
87	X-ray elastic response of metallic thin film supported by polyimide substrates. <i>Journal of Strain Analysis for Engineering Design</i> , 2011 , 46, 639-649	1.3	3

86	Size effects on the Mechanical Behavior of Nanometric W/Cu Multilayers. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1086, 1		3
85	Mechanical Properties of Thin Films and Nanometric Multilayers Using Tensile Testing and Synchrotron X-Ray Diffraction. <i>Plasma Processes and Polymers</i> , 2007 , 4, 311-317	3-4	3
84	Indentation deformation of thin {111} GaAs and InSb foils: influence of polarity. <i>Philosophical Magazine Letters</i> , 2005 , 85, 1-12	1	3
83	Plastic behaviour of an AlAs/GaAs superlattice with a short period. <i>Philosophical Magazine Letters</i> , 2001 , 81, 223-231	1	3
82	Nanoindentation investigation of solid-solution strengthening in III-V semiconductor alloys. <i>International Journal of Materials Research</i> , 2005 , 96, 1237-1241		3
81	Mechanical properties of PVD Al _{1-x} Cr _x N thin films. <i>Materiaux Et Techniques</i> , 2011 , 99, 239-244	0.6	3
80	Instrumented nanoindentation and scanning electron transmission microscopy applied to the study of the adhesion of InP membranes heteroepitaxially bonded to Si. <i>EPJ Applied Physics</i> , 2014 , 65, 20702	1.1	2
79	X-ray elastic strain analysis of compressed Au thin film on polymer substrate. <i>Surface and Coatings Technology</i> , 2013 , 215, 322-326	4-4	2
78	Non-equibiaxial deformation of W/Cu nanocomposite thin films on stretchable substrate: Effect of loading path. <i>Thin Solid Films</i> , 2013 , 549, 239-244	2.2	2
77	Time resolved synchrotron x-ray strain measurements of gold thin film on flexible substrate. <i>Thin Solid Films</i> , 2011 , 520, 1603-1607	2.2	2
76	Structure of annealed nanoindentations in n- and p-doped (001)GaAs. <i>Journal of Applied Physics</i> , 2009 , 106, 123516	2.5	2
75	Contact response of ceramics. <i>Comptes Rendus - Mecanique</i> , 2011 , 339, 466-472	2.1	2
74	Structure and Mechanical Properties of AlCrN Thin Films Deposited by Magnetron Sputtering. <i>Materials Science Forum</i> , 2011 , 695, 182-185	0.4	2
73	Micromechanical Modeling of the Elastic Behavior of Multilayer Thin Films; Comparison with In Situ Data from X-Ray Diffraction. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2009 , 99-108 ^{0.3}		2
72	Residual stresses in AlCrN PVD thin films. <i>EPJ Web of Conferences</i> , 2010 , 6, 26002	0.3	2
71	Enhanced Mechanical Properties in Organofluorosilica Thin Films. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-5	3-2	2
70	Nanoindentation response of a thin InP membrane. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 074003	3	2
69	Nanoindentation response of compound semiconductors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 3002-3009		2

68	Strains, Stresses and Elastic Properties in Polycrystalline Metallic Thin Films: In Situ Deformation Combined with X-Ray Diffraction and Simulation Experiments. <i>Materials Science Forum</i> , 2006 , 524-525, 735-740	0.4	2
67	Study of texture effect on elastic properties of Au thin films by x-ray diffraction and Brillouin light scattering. <i>Journal of Physics: Conference Series</i> , 2007 , 92, 012170	0.3	2
66	Strength Enhancement of Compensated Strained InP/AlP Superlattice. <i>Physica Status Solidi A</i> , 2002 , 189, 175-181		2
65	Improvement of heteroepitaxial growth by the use of twist-bonded compliant substrate: Role of the surface plasticity. <i>Journal of Electronic Materials</i> , 2003 , 32, 861-867	1.9	2
64	Polarity influence on the nanoindentation response of GaAs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 2004-2009		2
63	Plasticity of GaAs(011) at room temperature under concentrated load. <i>Philosophical Magazine Letters</i> , 2001 , 81, 527-535	1	2
62	Onset of plasticity in a ≈ 5 GaAs compliant structure. <i>Philosophical Magazine Letters</i> , 2001 , 81, 813-822	1	2
61	In-depth structure of rosette arms in indium phosphide 2000 , 19, 167-168		2
60	Polarity-induced changes in the nanoindentation response of GaAs 2004 , 19, 131		2
59	Controlling Thermal Diffusivity, Residual Stress and Texture in W/Cu Nano-Multilayers by Magnetron Chamber Pressure Variation. <i>SSRN Electronic Journal</i> ,	1	2
58	Surfaces et interfaces Indentation, rayages et abrasion. <i>Materiaux Et Techniques</i> , 2005 , 93, 185-185	0.6	2
57	Influence des contraintes résiduelles et de la texture sur les propriétés mécaniques de films minces de Cr élaborés par pulvérisation cathodique RF. <i>Materiaux Et Techniques</i> , 2013 , 101, 307	0.6	2
56	Comportements mécaniques sous indentation. <i>Materiaux Et Techniques</i> , 2015 , 103, 601	0.6	2
55	Instrumented indentation of an elastomeric material, protocol and application to vulcanization gradient. <i>Polymer Testing</i> , 2020 , 81, 106278	4.5	2
54	Mode I fracture toughness determination in Cu/W nano-multilayers on polymer substrate by SEM - Digital Image Correlation. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 145, 104145	5	2
53	Composition and Face Polarity Influences on Mechanical Properties of (111) Cd _{1-x} Zn _x Te Determined by Indentation. <i>Journal of Electronic Materials</i> , 2019 , 48, 6985-6990	1.9	1
52	Elastic property determination of nanostructured W/Cu multilayer films on a flexible substrate. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019 , 35, 1210-1216	2	1
51	Structure-Diffusion Relationship of Magnetron-Sputtered WTi Barriers Used in Indium Interconnections. <i>Journal of Electronic Materials</i> , 2014 , 43, 641-647	1.9	1

50	Doping influence on the nanoindentation response of GaAs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 1841-1846		1
49	Stored elastic energy influence on the elastic-plastic transition of GaAs structures. <i>Journal of Materials Research</i> , 2012 , 27, 177-181	2.5	1
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