Eric Le Bourhis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nanoindentation investigation of solid-solution strengthening in III-V semiconductor alloys. *International Journal of Materials Research*, **2022**, 96, 1237-1241	0.5	1
210	Indentation behaviour of (011) thin films of III□V semiconductors: polarity effect differences between GaAs and InP. *International Journal of Materials Research*, **2022**, 97, 1230-1234	0.5	
209	Mechanical Properties of Natural Fiber Composites **2021**, 135-148		0
208	Stress-Assisted Thermal Diffusion Barrier Breakdown in Ion Beam Deposited Cu/W Nano-Multilayers on Si Substrate Observed by GISAXS and Transmission EDX. *ACS Applied Materials & Interfaces*, **2021**, 13, 6795-6804	9.5	4
207	Development of a cryogenic indentation tool with in situ optical observation, application to the mechanical characterization of II□VI semiconductors. *Semiconductor Science and Technology*, **2021**, 36, 035015	1.8	0
206	Measuring the surface bonding energy: A comparison between the classical double-cantilever beam experiment and its nanoscale analog. *AIP Advances*, **2020**, 10, 045006	1.5	0
205	Extrinsic Measurement of Carbon Black Aggregate Distribution within a Fluoroelastomer Matrix from Nanoindentation Experiments. *ACS Applied Materials & Interfaces*, **2020**, 12, 6716-6726	9.5	
204	Instrumented indentation of an elastomeric material, protocol and application to vulcanization gradient. *Polymer Testing*, **2020**, 81, 106278	4.5	2
203	Nano-scale residual stress depth profiling in Cu/W nano-multilayers as a function of magnetron sputtering pressure. *Surface and Coatings Technology*, **2020**, 381, 125142	4.4	11
202	Mode I fracture toughness determination in Cu/W nano-multilayers on polymer substrate by SEM - Digital Image Correlation. *Journal of the Mechanics and Physics of Solids*, **2020**, 145, 104145	5	2
201	Hybrid piezochromic coatings for impact detection on composite substrates for aeronautic. *Materials Letters*, **2019**, 253, 140-143	3.3	3
200	Controlled Dislocations Injection in N/P Hg1□CdxTe Photodiodes by Indentations. *Journal of Electronic Materials*, **2019**, 48, 6108-6112	1.9	
199	Composition and Face Polarity Influences on Mechanical Properties of (111) Cd1□ZnyTe Determined by Indentation. *Journal of Electronic Materials*, **2019**, 48, 6985-6990	1.9	1
198	Elastic property determination of nanostructured W/Cu multilayer films on a flexible substrate. *Acta Mechanica Sinica/Lixue Xuebao*, **2019**, 35, 1210-1216	2	1
197	Indentation : techniques exp□imentales et mod□isation multi□helle. *Materiaux Et Techniques*, **2019**, 107, 204	0.6	0
196	Fatigue behavior evaluation using instrumented indentation **2019**, 429-434		
195	Strain transfer through film-substrate interface and surface curvature evolution during a tensile test. *Applied Surface Science*, **2018**, 434, 771-780	6.7	11

194	Determination of the polarity of the GaAs (001) rosette arms by convergent beam electron diffraction **2018**, 445-448		
193	Large angle twist-bonded compliant substrates for the epitaxy of lattice mismatched III-V semiconductors **2018**, 193-196		
192	Probing the deformation and fracture properties of Cu/W nano-multilayers by in situ SEM and synchrotron XRD strain microscopy. *Surface and Coatings Technology*, **2017**, 320, 158-167	4.4	12
191	Cyclic testing of thin Ni films on a pre-tensile compliant substrate. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 695, 112-119	5.3	6
190	Extraction des proprietes mecaniques locales d□n elastomere par nanoindentation : developpement des protocoles et application. *Materiaux Et Techniques*, **2017**, 105, 109	0.6	1
189	Indentation : fondamentaux et d□veloppements. *Materiaux Et Techniques*, **2017**, 105, 101	0.6	1
188	Some cautions when applying nanoindentation tests on a fluoroelastomer: Experimental researches and application **2017**, 191-196		
187	Mechanical Properties of Polymer-Based Hybrid Films: Tailoring the Hybrid Interface Using Soft Chemistry. *Materials Science Forum*, **2016**, 879, 1063-1067	0.4	
186	Exploring the mechanical properties of hard botanical structures of two tropical plants. *Bioinspired, Biomimetic and Nanobiomaterials*, **2016**, 5, 96-105	1.3	4
185	An ultra-thin SiO2 ALD layer for void-free bonding of III□V material on silicon. *Microelectronic Engineering*, **2016**, 162, 40-44	2.5	4
184	Locally measuring the adhesion of InP directly bonded on sub-100 nm patterned Si. *Nanotechnology* , **2016**, 27, 115707	3.4	3
183	Effect of water ageing on nanoindentation response of single hemp yarn/epoxy composites. *Composites Part A: Applied Science and Manufacturing*, **2016**, 84, 216-223	8.4	16
182	Le Float´: un proc□□volutionnaire. *Materiaux Et Techniques*, **2016**, 104, 201	0.6	
181	Local probing of the interfacial strength in InP/Si substructures. *MRS Advances*, **2016**, 1, 779-784	0.7	
180	(Invited) Locally Measuring the Adhesion of InP Membranes Directly Bonded on Silicon. *ECS Transactions*, **2016**, 75, 169-176	1	
179	Nano-structuration effect on the mechanical behavior of gold thin films studied by 2D synchrotron x-ray diffraction. *Surface and Coatings Technology*, **2016**, 308, 418-423	4.4	1
178	Study on Young's modulus of thin films on Kapton by microtensile testing combined with dual DIC system. *Surface and Coatings Technology*, **2016**, 308, 273-279	4.4	23
177	Evolution of the functional properties of titanium□silver thin films for biomedical applications: Influence of in-vacuum annealing. *Surface and Coatings Technology*, **2015**, 261, 262-271	4.4	15

176	Peculiar effective elastic anisotropy of nanometric multilayers studied by surface Brillouin scattering. *Superlattices and Microstructures*, **2015**, 88, 551-560	2.8	
175	Oxide-Free Bonding of III-V-Based Material on Silicon and Nano-Structuration of the Hybrid Waveguide for Advanced Optical Functions. *Photonics*, **2015**, 2, 1054-1064	2.2	4
174	Machine biaxiale sur la ligne de lumière Diffabs pour l'étude des propriétés mécaniques de films minces déposés sur substrats polymères. *Materiaux Et Techniques*, **2015**, 103, 610	0.6	
173	Apport de la nanoindentation à l'étude des propriétés mécaniques d'une interface textile/caoutchouc. *Materiaux Et Techniques*, **2015**, 103, 608	0.6	1
172	Comportements mécaniques sous indentation. *Materiaux Et Techniques*, **2015**, 103, 601	0.6	2
171	Structure–Diffusion Relationship of Magnetron-Sputtered WTi Barriers Used in Indium Interconnections. *Journal of Electronic Materials*, **2014**, 43, 641-647	1.9	1
170	Carbon nanotube-poly(methyl methacrylate) hybrid films: preparation using diazonium salt chemistry and mechanical properties. *Journal of Colloid and Interface Science*, **2014**, 433, 115-122	9.3	17
169	Mastering the biaxial stress state in nanometric thin films on flexible substrates. *Applied Surface Science*, **2014**, 306, 70-74	6.7	8
168	Instrumented nanoindentation and scanning electron transmission microscopy applied to the study of the adhesion of InP membranes heteroepitaxially bonded to Si. *EPJ Applied Physics*, **2014**, 65, 20702	1.1	2
167	In situ monitoring of X-ray strain pole figures of a biaxially deformed ultra-thin film on a flexible substrate. *Journal of Applied Crystallography*, **2014**, 47, 181-187	3.8	10
166	Structure-Property Relationships in Arapaima Gigas Scales Revealed by Nanoindentation Tests. *Polymers and Polymer Composites*, **2014**, 22, 369-374	0.8	11
165	**2014**,		12
164	Time-Resolved X-Ray Stress Analysis in Multilayered Thin Films during Continuous Loading: Use of 2D Remote Detection. *Advanced Materials Research*, **2014**, 996, 878-883	0.5	
163	Comparative study of the mechanical properties of nanostructured thin films on stretchable substrates. *Journal of Applied Physics*, **2014**, 116, 093504	2.5	17
162	Wafer bonding of Si for hybrid photonic devices. *Materials Research Society Symposia Proceedings*, **2014**, 1748, 1		
161	Plasticity and Fracture of InP/Si Substructures. *Materials Science Forum*, **2014**, 783-786, 1628-1633	0.4	
160	Structure-mechanical function relations at nano-scale in heat-affected human dental tissue. *Journal of the Mechanical Behavior of Biomedical Materials*, **2014**, 32, 113-124	4.1	13
159	Real-time curvature and optical spectroscopy monitoring of magnetron-sputtered WTi alloy thin films. *Surface and Coatings Technology*, **2013**, 237, 112-117	4.4	4

158	X-ray elastic strain analysis of compressed Au thin film on polymer substrate. *Surface and Coatings Technology*, **2013**, 215, 322-326	4.4	2
157	Stress evaluation in thin films: Micro-focus synchrotron X-ray diffraction combined with focused ion beam patterning for do evaluation. *Thin Solid Films*, **2013**, 549, 245-250	2.2	4
156	Non-equibiaxial deformation of W/Cu nanocomposite thin films on stretchable substrate: Effect of loading path. *Thin Solid Films*, **2013**, 549, 239-244	2.2	2
155	Sin2 analysis in thin films using 2D detectors: Non-linearity due to set-up, stress state and microstructure. *Thin Solid Films*, **2013**, 530, 25-29	2.2	11
154	Yield surface of polycrystalline thin films as revealed by non-equibiaxial loadings at small deformation. *Acta Materialia*, **2013**, 61, 5067-5077	8.4	26
153	Deformation modes of nanostructured thin film under controlled biaxial deformation. *Thin Solid Films*, **2013**, 530, 30-34	2.2	17
152	Controlled nanostructuration of polycrystalline tungsten thin films. *Journal of Applied Physics*, **2013** , 113, 174310	2.5	16
151	Structure-stress-resistivity relationship in WTi alloy ultra-thin and thin films prepared by magnetron sputtering. *Journal of Applied Physics*, **2013**, 113, 213504	2.5	6
150	Heteroepitaxial bonding of Si for hybrid photonic devices. *Materials Research Society Symposia Proceedings*, **2013**, 1510, 1		4
149	Relationship between Nitrogen Content and Mechanical Properties in Al1-xCrxNy Thin Films. *Materials Science Forum*, **2013**, 761, 165-170	0.4	0
148	Phase transition signature on elastic constants in Al1-xCrxNy ternary alloys thin films. *Applied Physics Letters*, **2013**, 103, 041601	3.4	7
147	Evaluation of the surface bonding energy of an InP membrane bonded oxide-free to Si using instrumented nanoindentation. *Applied Physics Letters*, **2013**, 103, 081901	3.4	12
146	Growth, structure and properties of magnetron sputtered ultra-thin WTi films. *Materials Research Society Symposia Proceedings*, **2013**, 1580, 1		
145	Influence des contraintes rsiduelles et de la texture sur les propri mcaniques de films minces de Cr labors par pulvrisation cathodique RF. *Materiaux Et Techniques*, **2013**, 101, 307	0.6	2
144	Deposition of ultra-thin gold film on in situ loaded polymeric substrate for compression tests. *Materials Letters*, **2012**, 73, 99-102	3.3	8
143	Mechanical properties of carbon nanotube PMMA based hybrid coatings: the importance of surface chemistry. *RSC Advances*, **2012**, 2, 2462	3.7	21
142	The influence of annealing treatments on the properties of Ag:TiO2 nanocomposite films prepared by magnetron sputtering. *Applied Surface Science*, **2012**, 258, 4028-4034	6.7	44
141	Crystallographic and structural transformations of sedimentary chalcedony in flint upon heat treatment. *Journal of Archaeological Science*, **2012**, 39, 135-144	2.9	76

140	Synchrotron X-ray diffraction experiments with a prototype hybrid pixel detector. *Journal of Applied Crystallography*, **2012**, 45, 38-47	3.8	30
139	Influence of Structure and Organic-Inorganic Phase Interactions on Coating Mechanical Properties in the Ternary Goethite:Poly(HEMA):Silica System. *European Journal of Inorganic Chemistry*, **2012**, 2012, 2675-2683	2.3	3
138	Stored elastic energy influence on the elastic–plastic transition of GaAs structures. *Journal of Materials Research*, **2012**, 27, 177-181	2.5	1
137	Time resolved synchrotron x-ray strain measurements of gold thin film on flexible substrate. *Thin Solid Films*, **2011**, 520, 1603-1607	2.2	2
136	In situ thermal residual stress evolution in ultrathin ZnO and Ag films studied by synchrotron x-ray diffraction. *Thin Solid Films*, **2011**, 520, 1390-1394	2.2	5
135	X-ray strain analysis of {111} fiber-textured thin films independent of grain-interaction models. *Journal of Applied Crystallography*, **2011**, 44, 409-413	3.8	4
134	Combined synchrotron X-ray and image-correlation analyses of biaxially deformed W/Cu nanocomposite thin films on Kapton. *Journal of Applied Crystallography*, **2011**, 44, 1071-1079	3.8	32
133	X-ray elastic response of metallic thin film supported by polyimide substrates. *Journal of Strain Analysis for Engineering Design*, **2011**, 46, 639-649	1.3	3
132	Glass, 1. Fundamentals **2011**,		6
131	Contact response of ceramics. *Comptes Rendus - Mecanique*, **2011**, 339, 466-472	2.1	2
130	Measurement of applied strains in thin films deposited onto polymer by synchrotron X-ray diffraction. *Procedia Engineering*, **2011**, 10, 2701-2706		
129	Copper coverage effect on tungsten crystallites texture development in W/Cu nanocomposite thin films. *Journal of Applied Physics*, **2011**, 109, 014305	2.5	22
128	Thermal Residual Stress Relaxation in Sputtered ZnO Film on (100) Si Substrate Studied In Situ by Synchrotron X-Ray Diffraction. *Materials Science Forum*, **2011**, 681, 127-132	0.4	
127	Structure and Mechanical Properties of AlCrN Thin Films Deposited by Magnetron Sputtering. *Materials Science Forum*, **2011**, 695, 182-185	0.4	2
126	Mechanical properties of PVD Al1−xCrxN thin films. *Materiaux Et Techniques*, **2011**, 99, 239-244	0.6	3
125	X-ray strain analysis in thin films enhanced by 2D detection. *EPJ Web of Conferences*, **2010**, 6, 26008	0.3	
124	Ti-Si-C thin films produced by magnetron sputtering: correlation between physical properties, mechanical properties and tribological behavior. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 2926-32	1.3	7
123	Indentation of Ceramics, Some Highlights. *Materials Science Forum*, **2010**, 662, 77-83	0.4	0

122	Effect of TiAlN PVD coatings on corrosion performance of WC-6%Co. *Surface Engineering*, **2010**, 26, 562-566	2.6	15
121	Development of a synchrotron biaxial tensile device for in situ characterization of thin films mechanical response. *Review of Scientific Instruments*, **2010**, 81, 103903	1.7	43
120	Elastic-strain distribution in metallic film-polymer substrate composites. *Applied Physics Letters*, **2010**, 96, 041905	3.4	31
119	Residual stresses in AlCrN PVD thin films. *EPJ Web of Conferences*, **2010**, 6, 26002	0.3	2
118	Effect of spraying distance on the microstructure and mechanical properties of a Colmonoy 88 alloy deposited by HVOF thermal spraying. *Surface and Coatings Technology*, **2010**, 205, 1799-1806	4.4	21
117	Depth-sensing indentation modeling for determination of Elastic modulus of thin films. *Mechanics of Materials*, **2010**, 42, 166-174	3.3	31
116	Elastic behaviour of titanium dioxide films on polyimide substrates studied by in situ tensile testing in a X-ray diffractometer. *Nuclear Instruments & Methods in Physics Research B*, **2010**, 268, 365-369	1.2	11
115	X-ray diffraction analysis of thermally-induced stress relaxation in ZnO films deposited by magnetron sputtering on (100) Si substrates. *Thin Solid Films*, **2010**, 518, 5237-5241	2.2	10
114	X-ray diffraction study of thermal stress relaxation in ZnO films deposited by magnetron sputtering. *Thin Solid Films*, **2010**, 519, 1563-1567	2.2	13
113	Controlled biaxial deformation of nanostructured W/Cu thin films studied by X-ray diffraction. *Surface and Coatings Technology*, **2010**, 205, 1420-1425	4.4	7
112	Elastic anisotropy of polycrystalline Au films: Modeling and respective contributions of X-ray diffraction, nanoindentation and Brillouin light scattering. *Acta Materialia*, **2010**, 58, 4998-5008	8.4	35
111	Structure of annealed nanoindentations in n- and p-doped (001)GaAs. *Journal of Applied Physics*, **2009**, 106, 123516	2.5	2
110	Development of a biaxial tensile module at synchrotron beamline for the study of mechanical properties of nanostructured films. *Materials Research Society Symposia Proceedings*, **2009**, 1224, 1		
109	Doping influence on the nanoindentation response of GaAs. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2009**, 6, 1841-1846		1
108	In situdiffraction strain analysis of elastically deformed polycrystalline thin films, and micromechanical interpretation. *Journal of Applied Crystallography*, **2009**, 42, 1073-1084	3.8	39
107	Mechanical properties of hard AlCrN-based coated substrates. *Surface and Coatings Technology*, **2009**, 203, 2961-2968	4.4	45
106	Hardness properties and high-temperature wear behavior of nitrided AISI D2 tool steel, prior and after PAPVD coating. *Wear*, **2009**, 267, 1452-1461	3.5	33
105	Micromechanical Modeling of the Elastic Behavior of Multilayer Thin Films; Comparison with In Situ Data from X-Ray Diffraction. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2009**, 99-108	0.3	2

104	ZrOxNydecorative thin films prepared by the reactive gas pulsing process. *Journal Physics D: Applied Physics*, **2009**, 42, 195501	3	23
103	Nanoindentation-induced structural phase transformations in crystalline and amorphous germanium. *International Journal of Nano and Biomaterials*, **2009**, 2, 91	0.2	
102	Structure and Mechanical Properties of Mesostructured Functional Hybrid Coatings Based on Anisotropic Nanoparticles Dispersed in Poly(hydroxylethyl methacrylate). *Chemistry of Materials*, **2008**, 20, 4602-4611	9.6	19
101	Enhanced Mechanical Properties in Organofluorosilica Thin Films. *Journal of Nanomaterials*, **2008**, 2008, 1-5	3.2	2
100	Size effects on the Mechanical Behavior of Nanometric W/Cu Multilayers. *Materials Research Society Symposia Proceedings*, **2008**, 1086, 1		3
99	Nanoindentation response of a thin InP membrane. *Journal Physics D: Applied Physics*, **2008**, 41, 074003	3	2
98	Small scale mechanical properties of polycrystalline materials: in situ diffraction studies. *International Journal of Nanotechnology*, **2008**, 5, 609	1.5	4
97	Benefits of two-dimensional detectors for synchrotron X-ray diffraction studies of thin film mechanical behavior. *Journal of Applied Crystallography*, **2008**, 41, 1076-1088	3.8	14
96	Structure of nanoindentations in heavily n- and p-doped (0 0 1) GaAs. *Acta Materialia*, **2008**, 56, 1417-1426	3.4	12
95	Characterization and residual stresses of WC□Co thermally sprayed coatings. *Surface and Coatings Technology*, **2008**, 202, 4560-4565	4.4	67
94	Effect of thermal treatments on the structure of MoNxOy thin films. *Vacuum*, **2008**, 82, 1428-1432	3.7	17
93	Indentation mechanics and its application to thin film characterization. *Vacuum*, **2008**, 82, 1353-1359	3.7	17
92	Fatigue behavior of AA7075-T6 aluminum alloy coated with ZrN by PVD. *International Journal of Fatigue*, **2008**, 30, 1220-1230	5	36
91	**2007**,		27
90	Influence of the O/C ratio in the behaviour of TiCxOy thin films. *Surface and Coatings Technology*, **2007**, 201, 5587-5591	4.4	27
89	Magnetron sputtered Ti□Si□C thin films prepared at low temperatures. *Surface and Coatings Technology*, **2007**, 201, 7180-7186	4.4	36
88	The effect of bombarding conditions on the properties of multifunctional Ti□□ thin films grown by magnetron sputtering. *Surface and Coatings Technology*, **2007**, 202, 946-951	4.4	15
87	Characterization and modelling of the elastic properties of nano-structured W/Cu multilayers. *Thin Solid Films*, **2007**, 516, 320-324	2.2	9

86	TEM-nanoindentation studies of semiconducting structures. *Micron*, **2007**, 38, 377-89	2.3	12
85	Nanoindentation response of compound semiconductors. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 3002-3009		2
84	Mechanical Properties of Thin Films and Nanometric Multilayers Using Tensile Testing and Synchrotron X-Ray Diffraction. *Plasma Processes and Polymers*, **2007**, 4, 311-317	3.4	3
83	Correlation Between Processing and Properties of Titanium Oxycarbide, TiCxOy, Thin Films. *Plasma Processes and Polymers*, **2007**, 4, S83-S88	3.4	7
82	The influence of structure changes in the properties of TiCxOy decorative thin films. *Thin Solid Films*, **2007**, 515, 5424-5429	2.2	20
81	Study of texture effect on elastic properties of Au thin films by x-ray diffraction and Brillouin light scattering. *Journal of Physics: Conference Series*, **2007**, 92, 012170	0.3	2
80	Mechanical response of a single and released InP membrane. *Materials Research Society Symposia Proceedings*, **2007**, 1049, 1		
79	Mechanical Behavior of Functional Hybrid Coating Based on Anisotropic Iron Oxide Nanoparticles. *Materials Research Society Symposia Proceedings*, **2007**, 1007, 1		
78	Study of Elastic Behavior of Metallic Thin Films by 2D Synchrotron XRD and in situ Tensile Testing. *Materials Research Society Symposia Proceedings*, **2007**, 1027, 1		
77	Strains, Stresses and Elastic Properties in Polycrystalline Metallic Thin Films: In Situ Deformation Combined with X-Ray Diffraction and Simulation Experiments. *Materials Science Forum*, **2006**, 524-525, 735-740	0.4	2
76	X-ray Diffraction Study of the Mechanical Elastic Properties of Nanometric W/Cu Multilayers. *Materials Research Society Symposia Proceedings*, **2006**, 977, 1		
75	Elastic behavior of polycrystalline thin films inferred from in situ micromechanical testing and modeling. *Applied Physics Letters*, **2006**, 89, 061911	3.4	16
74	ORMOSIL thin films: tuning mechanical properties via a nanochemistry approach. *Langmuir*, **2006**, 22, 11158-62	4	19
73	Study of texture effect on elastic properties of Au thin films by X-ray diffraction and in situ tensile testing. *Acta Materialia*, **2006**, 54, 4503-4513	8.4	62
72	Elaboration and mechanical characterization of nanocomposites thin films. *Journal of the European Ceramic Society*, **2006**, 26, 259-266	6	48
71	Elaboration and mechanical characterization of nanocomposites thin films. *Journal of the European Ceramic Society*, **2006**, 26, 267-272	6	39
70	Structural and mechanical properties of IBAD deposited nanocomposite TiNiN coatings. *Surface and Coatings Technology*, **2006**, 200, 6298-6302	4.4	48
69	X-ray diffraction analysis of the structure and residual stresses of W/Cu multilayers. *Surface and Coatings Technology*, **2006**, 201, 4372-4376	4.4	27

68	Elastic properties of polycrystalline gold thin films: Simulation and X-ray diffraction experiments. *Surface and Coatings Technology*, **2006**, 201, 4300-4304	4.4	7
67	Properties of MoNxOy thin films as a function of the N/O ratio. *Thin Solid Films*, **2006**, 494, 201-206	2.2	20
66	Indentation behaviour of (011) thin films of III□V semiconductors: polarity effect differences between GaAs and InP. *International Journal of Materials Research*, **2006**, 97, 1230-1234	0.5	
65	Mechanical properties of hybrid organic□inorganic materials. *Journal of Materials Chemistry*, **2005**, 15, 3787		402
64	Structural, electrical, optical, and mechanical characterizations of decorative ZrOxNy thin films. *Journal of Applied Physics*, **2005**, 98, 023715	2.5	79
63	An indentation method to measure the CRSS of semiconducting materials at elevated temperature. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2005**, 400-401, 451-455	5.3	
62	Optimization and thermal stability of TiAlN/Mo multilayers. *Surface and Coatings Technology*, **2005**, 200, 288-292	4.4	14
61	Mechanical response of wall-patterned GaAs surface. *Acta Materialia*, **2005**, 53, 1907-1912	8.4	10
60	Evolution under annealing and nitrogen implantation of the mechanical properties of amorphous carbon films. *Thin Solid Films*, **2005**, 482, 318-323	2.2	1
59	Conservative indentation flow throughout thin (011) InP foils. *Journal of Materials Science*, **2005**, 40, 3809-3811	4.3	
58	Polarity influence on the nanoindentation response of GaAs. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2005**, 2, 2004-2009		2
57	Structural and mechanical studies of Fe-Cr thin films deposited by ion-beam sputtering. *EPJ Applied Physics*, **2005**, 30, 33-39	1.1	10
56	Indentation deformation of thin {111} GaAs and InSb foils: influence of polarity. *Philosophical Magazine Letters*, **2005**, 85, 1-12	1	3
55	Deviation of the mechanical response of wall-patterned GaAs surface: a central-plastic-zone criterion. *Materials Research Society Symposia Proceedings*, **2005**, 904, 1		
54	Polarity influence on the indentation punching of thin {111} GaAs foils at elevated temperatures. *Journal Physics D: Applied Physics*, **2005**, 38, 1140-1147	3	5
53	Nanoindentation response of a single micrometer-sized GaAs wall. *Applied Physics Letters*, **2005**, 86, 163107	3.7	4
52	Determination of elastic constants of a fiber-textured gold film by combining synchrotron x-ray diffraction and in situ tensile testing. *Journal of Applied Physics*, **2005**, 98, 093511	2.5	25
51	Mechanical properties and size effect in nanometric W/Cu multilayers. *Materials Research Society Symposia Proceedings*, **2005**, 875, 1		4

50	Indentation crystallization and phase transformation of amorphous germanium. *Materials Research Society Symposia Proceedings*, **2005**, 904, 1		
49	Elastic behavior of fibre-textured gold films by combining synchrotron X-ray diffraction and in-situ tensile testing. *Materials Research Society Symposia Proceedings*, **2005**, 875, 1		1
48	Nanoindentation investigation of solid-solution strengthening in III-V semiconductor alloys. *International Journal of Materials Research*, **2005**, 96, 1237-1241		3
47	Surfaces et interfaces Indentation, rayages et abrasion. *Materiaux Et Techniques*, **2005**, 93, 185-185	0.6	2
46	Transformation de phase dans un film de germanium amorphe induite par nano-indentation. *Materiaux Et Techniques*, **2005**, 93, 257-262	0.6	1
45	Indentation-induced crystallization and phase transformation of amorphous germanium. *Journal of Applied Physics*, **2004**, 96, 1464-1468	2.5	33
44	Absolute determination of the asymmetry of the in-plane deformation of GaAs (001). *Journal of Applied Physics*, **2004**, 95, 3984-3987	2.5	11
43	Polarity-induced changes in the nanoindentation response of GaAs. *Journal of Materials Research*, **2004**, 19, 131-136	2.5	16
42	Solid-solution strengthening in ordered In x Ga1 x P alloys. *Philosophical Magazine Letters*, **2004**, 84, 373-381	1	11
41	Elastic lastic resistance profile of PBII nitrided titanium. *Scripta Materialia*, **2004**, 51, 899-903	5.6	15
40	Indentation punching through thin (011) InP. *Journal of Materials Science*, **2004**, 39, 943-949	4.3	16
39	TEM study of the indentation behaviour of thin Au film on GaAs. *Thin Solid Films*, **2004**, 460, 150-155	2.2	5
38	Measurement of thin film elastic constants by X-ray diffraction. *Thin Solid Films*, **2004**, 469-470, 201-205	2.2	21
37	Vickers indentation of thin GaAs (001) samples. *Philosophical Magazine*, **2004**, 84, 3281-3298	1.6	10
36	Time dependence of the indentation behavior of hybrid coatings. *Journal of Non-Crystalline Solids*, **2004**, 345-346, 610-614	3.9	12
35	Polarity-induced changes in the nanoindentation response of GaAs **2004**, 19, 131		2
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33	Plasticity of misoriented (001) GaAs surface. *Journal of Materials Science Letters*, **2003**, 22, 565-567		4

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