Olivier Thomas

List of Publications by Year
in descending order

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240	5,461	76326	128289
papers	citations	40	60
		h-index	g-index

242	242	242	3515
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	First-principles study of the structural, electronic, vibrational, and elastic properties of orthorhombic NiSi. Physical Review B, 2009, 79, .	3.2	202
2	Hardening/softening behaviour in non-linear oscillations of structural systems using non-linear normal modes. Journal of Sound and Vibration, 2004, 273, 77-101.	3.9	152
3	Performance of piezoelectric shunts for vibration reduction. Smart Materials and Structures, 2012, 21, 015008.	3.5	141
4	Interplay between Anisotropic Strain Relaxation and Uniaxial Interface Magnetic Anisotropy in Epitaxial Fe Films on (001) GaAs. Physical Review Letters, 2003, 90, 017205.	7.8	128
5	Vibrations of an elastic structure with shunted piezoelectric patches: efficient finite element formulation and electromechanical coupling coefficients. International Journal for Numerical Methods in Engineering, 2009, 80, 235-268.	2.8	119
6	Molybdenum disilicide: Crystal growth, thermal expansion and resistivity. Solid State Communications, 1985, 55, 629-632.	1.9	114
7	A harmonic-based method for computing the stability of periodic solutions of dynamical systems. Comptes Rendus - Mecanique, 2010, 338, 510-517.	2.1	103
8	Placement and dimension optimization of shunted piezoelectric patches for vibration reduction. Journal of Sound and Vibration, 2012, 331, 3286-3303.	3.9	98
9	ASYMMETRIC NON-LINEAR FORCED VIBRATIONS OF FREE-EDGE CIRCULAR PLATES. PART 1: THEORY. Journal of Sound and Vibration, 2002, 258, 649-676.	3.9	97
10	Electrical and optical properties of silicide single crystals and thin films. Materials Science and Engineering Reports, 1993, 9, 141-200.	5.8	94
11	Asymmetric non-linear forced vibrations of free-edge circular plates. Part II: experiments. Journal of Sound and Vibration, 2003, 265, 1075-1101.	3.9	85
12	Finite element reduced order models for nonlinear vibrations of piezoelectric layered beams with applications to NEMS. Finite Elements in Analysis and Design, 2012, 49, 35-51.	3.2	78
13	Model order reduction methods for geometrically nonlinear structures: a review of nonlinear techniques. Nonlinear Dynamics, 2021, 105, 1141-1190.	5.2	78
14	Hardening/softening behavior and reduced order modeling of nonlinear vibrations of rotating cantilever beams. Nonlinear Dynamics, 2016, 86, 1293-1318.	5.2	71
15	Inversion of the diffraction pattern from an inhomogeneously strained crystal using an iterative algorithm. Physical Review B, 2007, 76, .	3.2	70
16	Reaction of titanium with germanium and siliconâ€germanium alloys. Applied Physics Letters, 1989, 54, 228-230.	3.3	68
17	Some titanium germanium and silicon compounds: Reaction and properties. Journal of Materials Research, 1990, 5, 1453-1462.	2.6	66
18	Effect of Co, Pt, and Au additions on the stability and epitaxy of NiSi2 films on (111)Si. Journal of Applied Physics, 1998, 84, 2583-2590.	2.5	66

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19	Improved resistive shunt by means of negative capacitance: new circuit, performances and multi-mode control. Smart Materials and Structures, 2016, 25, 075033.	3.5	63
20	The diffusion of elements implanted in films of cobalt disilicide. Journal of Applied Physics, 1988, 64, 2973-2980.	2.5	61
21	Metallurgical reinvestigation of rare earth silicides. Applied Surface Science, 1989, 38, 156-161.	6.1	53
22	Identification of nonlinear modes using phase-locked-loop experimental continuation and normal form. Mechanical Systems and Signal Processing, 2018, 106, 430-452.	8.0	53
23	First-principles study of nickel-silicides ordered phases. Journal of Alloys and Compounds, 2011, 509, 2639-2644.	5.5	52
24	Transition to chaotic vibrations for harmonically forced perfect and imperfect circular plates. International Journal of Non-Linear Mechanics, 2011, 46, 234-246.	2.6	51
25	Interdependence of elastic strain and segregation in metallic multilayers: An x-ray diffraction study of (111) Au/Ni multilayers. Journal of Applied Physics, 2000, 87, 1172-1181.	2.5	50
26	Structural Vibration Reduction by Switch Shunting of Piezoelectric Elements: Modeling and Optimization. Journal of Intelligent Material Systems and Structures, 2010, 21, 797-816.	2.5	50
27	Contamination levels of human pharmaceutical compounds in French surface and drinking water. Journal of Environmental Monitoring, 2011, 13, 2929.	2.1	50
28	Progress of in situ synchrotron X-ray diffraction studies on the mechanical behavior of materials at small scales. Progress in Materials Science, 2018, 94, 384-434.	32.8	50
29	Diffusion of Sb, Ga, Ge, and (As) in TiSi2. Journal of Applied Physics, 1988, 63, 5335-5345.	2.5	49
30	On the frequency response computation of geometrically nonlinear flat structures using reduced-order finite element models. Nonlinear Dynamics, 2019, 97, 1747-1781.	5.2	49
31	Fast pole figure acquisition using area detectors at the DiffAbs beamline â€“ Synchrotron SOLEIL. Journal of Applied Crystallography, 2013, 46, 1842-1853.	4.5	47
32	A purely frequency based Floquet-Hill formulation for the efficient stability computation of periodic solutions of ordinary differential systems. Journal of Computational Physics, 2020, 416, 109477.	3.8	47
33	Formation of Ni silicide from Ni(Au) films on (111)Si. Journal of Applied Physics, 1996, 79, 4078.	2.5	46
34	Asymptotic non-linear normal modes for large-amplitude vibrations of continuous structures. Computers and Structures, 2004, 82, 2671-2682.	4.4	44
35	Analysis of the electrical resistivity of Ti, Mo, Ta, and W monocrystalline disilicides. Journal of Applied Physics, 1989, 65, 1584-1590.	2.5	43
36	Raman spectra of TiN/AlN superlattices. Thin Solid Films, 2000, 380, 252-255.	1.8	43

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37	Dislocation storage in single slip-oriented Cu micro-tensile samples: new insights via X-ray microdiffraction. Philosophical Magazine, 2011, 91, 1256-1264.	1.6	43
38	Limits of validity of the crystallite group method in stress determination of thin film structures. Thin Solid Films, 1998, 319, 9-15.	1.8	42
39	Reduced-order models for large-amplitude vibrations of shells including in-plane inertia. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 2030-2045.	6.6	42
40	Micromachiningâ€Compatible, Facile Fabrication of Polymer Nanocomposite Spin Crossover Actuators. Advanced Functional Materials, 2018, 28, 1801970.	14.9	42
41	Nucleation and growth in the reaction of titanium with germanium and some silicon-germanium alloys. Applied Surface Science, 1989, 38, 27-36.	6.1	41
42	Geometrically nonlinear flexural vibrations of plates: In-plane boundary conditions and some symmetry properties. Journal of Sound and Vibration, 2008, 315, 569-590.	3.9	41
43	Combined synchrotron x-ray diffraction and wafer curvature measurements during Niâ€“Si reactive film formation. Applied Physics Letters, 2005, 87, 041904.	3.3	40
44	Non-linear behaviour of free-edge shallow spherical shells: Effect of the geometry. International Journal of Non-Linear Mechanics, 2006, 41, 678-692.	2.6	40
45	Strain field in silicon on insulator lines using high resolution x-ray diffraction. Applied Physics Letters, 2007, 90, 111914.	3.3	40
46	Controlling dislocation nucleation-mediated plasticity in nanostructures via surface modification. Acta Materialia, 2019, 166, 572-586.	7.9	40
47	Non-intrusive reduced order modelling for the dynamics of geometrically nonlinear flat structures using three-dimensional finite elements. Computational Mechanics, 2020, 66, 1293-1319.	4.0	39
48	Non-linear vibrations of free-edge thin spherical shells: Experiments on a 1:1:2 internal resonance. Nonlinear Dynamics, 2007, 49, 259-284.	5.2	38
49	Expected and unexpected plastic behavior at the micron scale: An in situ Î¼Laue tensile study. Acta Materialia, 2012, 60, 1252-1258.	7.9	38
50	Mechanisms for success or failure of diffusion barriers between aluminum and silicon. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 875-880.	2.1	36
51	A comparison between aluminum and copper interactions with highâ€temperature oxide and nitride diffusion barriers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 784-789.	2.1	36
52	Nonlinear vibrations and chaos in gongs and cymbals. Acoustical Science and Technology, 2005, 26, 403-409.	0.5	36
53	Low temperature specific heat of VSi2, NbSi2, and TaSi2. Journal of Low Temperature Physics, 1993, 92, 335-351.	1.4	35
54	Thinâ€film growth and compositional effects in YBa2Cu3O7â^'xlayers prepared by metalorganic chemical vapor deposition. Journal of Applied Physics, 1993, 74, 4631-4642.	2.5	35

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55	Applicability of an iterative inversion algorithm to the diffraction patterns from inhomogeneously strained crystals. Physical Review B, 2008, 78, .	3.2	35
56	Stress, porosity measurements and corrosion behaviour of AlN films deposited on steel substrates. Thin Solid Films, 2000, 359, 221-227.	1.8	34
57	Non-linear vibrations of imperfect free-edge circular plates and shells. European Journal of Mechanics, A/Solids, 2009, 28, 500-515.	3.7	34
58	Efficient parametric amplification in micro-resonators with integrated piezoelectric actuation and sensing capabilities. Applied Physics Letters, 2013, 102, .	3.3	34
59	In situbending of an Au nanowire monitored by micro Laue diffraction. Journal of Applied Crystallography, 2015, 48, 291-296.	4.5	34
60	Scanning force microscope forin situnanofocused X-ray diffraction studies. Journal of Synchrotron Radiation, 2014, 21, 1128-1133.	2.4	33
61	An Accurate Third-Order Normal Form Approximation for Power System Nonlinear Analysis. IEEE Transactions on Power Systems, 2018, 33, 2128-2139.	6.5	33
62	Optical properties of WSi2 and MoSi2 single crystals as measured by spectroscopic ellipsometry and reflectometry. Solid State Communications, 1987, 62, 455-459.	1.9	32
63	Chemical vapor deposition of siliconâ€“germanium heterostructures. Journal of Crystal Growth, 2000, 216, 171-184.	1.5	32
64	Stresses arising from a solid state reaction between palladium films and Si(001) investigated byin situcombined x-ray diffraction and curvature measurements. Journal of Applied Physics, 2003, 94, 1584-1591.	2.5	32
65	Nickel silicide encroachment formation and characterization. Microelectronic Engineering, 2010, 87, 245-248.	2.4	32
66	Effect of non-ideal clamping shape on the resonance frequencies of silicon nanocantilevers. Nanotechnology, 2011, 22, 245501.	2.6	32
67	Direct Observation of Gigahertz Coherent Guided Acoustic Phonons in Free-Standing Single Copper Nanowires. Journal of Physical Chemistry Letters, 2014, 5, 4100-4104.	4.6	32
68	Hidden Isosbestic Point(s) in Ultraviolet Spectra. Applied Spectroscopy, 2004, 58, 486-490.	2.2	31
69	Asymptotic behaviour of stress establishment in thin films. Surface Science, 2000, 465, L764-L770.	1.9	30
70	Piezoelectric resonant shunt enhancement by negative capacitances: Optimisation, performance and resonance cancellation. Journal of Intelligent Material Systems and Structures, 2018, 29, 2581-2606.	2.5	29
71	Backbone curves of coupled cubic oscillators in one-to-one internal resonance: bifurcation scenario, measurements and parameter identification. Meccanica, 2020, 55, 481-503.	2.0	29
72	Resistivity and magnetoresistance of high-purity monocrystalline MoSi2. Journal of Physics F: Metal Physics, 1986, 16, 1745-1752.	1.6	28

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73	An upper bound for validity limits of asymptotic analytical approaches based on normal form theory. Nonlinear Dynamics, 2012, 70, 1931-1949.	5.2	28
74	Comparison of Reduction Methods for Finite Element Geometrically Nonlinear Beam Structures. Vibration, 2021, 4, 175-204.	1.9	28
75	Superconductivity inTaSi2single crystals. Physical Review B, 1992, 45, 4803-4806.	3.2	27
76	Segregation and strain relaxation in Au/Ni multilayers: An in situ experiment. Applied Physics Letters, 1999, 75, 914-916.	3.3	27
77	Mechanical characterization of low-k and barrier dielectric thin films. Microelectronic Engineering, 2005, 82, 368-373.	2.4	27
78	In situthree-dimensional reciprocal-space mapping during mechanical deformation. Journal of Synchrotron Radiation, 2012, 19, 688-694.	2.4	27
79	Monitoring of methotrexate chlorination in water. Water Research, 2014, 57, 67-75.	11.3	27
80	Electronic properties of CoSi2 studied by reflectivity and spectroscopic ellipsometry. Solid State Communications, 1986, 60, 923-926.	1.9	26
81	Some transport properties of single crystals of group Va transition metal disilicides. Applied Surface Science, 1991, 53, 247-253.	6.1	26
82	Low-temperature intrinsic plasticity in silicon at small scales. Acta Materialia, 2018, 161, 54-60.	7.9	25
83	Oxidation of titanium, manganese, iron, and niobium silicides: Marker experiments. Journal of Applied Physics, 1990, 68, 5133-5139.	2.5	24
84	Methodology for studying strain inhomogeneities in polycrystalline thin films duringin situthermal loading using coherent x-ray diffraction. New Journal of Physics, 2010, 12, 035018.	2.9	24
85	Crystal growth, characterization and resistivity measurements of TiSi2 single crystals. Journal of the Less Common Metals, 1987, 136, 175-182.	0.8	23
86	Concentration and Strain Fields inside a Ag/Au Coreâ€“Shell Nanowire Studied by Coherent X-ray Diffraction. Nano Letters, 2013, 13, 1883-1889.	9.1	23
87	Microwave properties of YBCO thin films. IEEE Transactions on Applied Superconductivity, 1995, 5, 1737-1740.	1.7	22
88	In situ study of stress evolution during the reaction of a nickel film with a silicon substrate. Microelectronic Engineering, 2004, 76, 318-323.	2.4	22
89	Numerical antiresonance continuation of structural systems. Mechanical Systems and Signal Processing, 2019, 116, 963-984.	8.0	22
90	Nonlinear forced vibrations of thin structures with tuned eigenfrequencies: the cases of 1:2:4 and 1:2:2 internal resonances. Nonlinear Dynamics, 2014, 75, 175-200.	5.2	21

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91	A nonlinear piezoelectric shunt absorber with a 2:1 internal resonance: Theory. Mechanical Systems and Signal Processing, 2022, 170, 108768.	8.0	21
92	Influence of Si substrate orientation on stress development in Pd silicide films grown by solid-state reaction. Applied Physics Letters, 2003, 83, 1334-1336.	3.3	20
93	Diffusion of boron, phosphorus, and arsenic implanted in thin films of cobalt disilicide. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 1736-1739.	2.1	19
94	Organometallic chemical vapor deposition of superconducting YBa2Cu3O7 â^' Î´ films. Journal of the Less Common Metals, 1990, 164-165, 444-450.	0.8	19
95	Wafer-scale fabrication of self-actuated piezoelectric nanoelectromechanical resonators based on lead zirconate titanate (PZT). Journal of Micromechanics and Microengineering, 2015, 25, 035002.	2.6	19
96	Improved shunt damping with two negative capacitances: An efficient alternative to resonant shunt. Journal of Intelligent Material Systems and Structures, 2017, 28, 2222-2238.	2.5	19
97	Enhancement of a dynamic vibration absorber by means of an electromagnetic shunt. Journal of Intelligent Material Systems and Structures, 2021, 32, 331-354.	2.5	19
98	de Haasâ€“van Alphen effect inMoSi2. Physical Review B, 1987, 35, 7936-7938.	3.2	18
99	Very large amplitude vibrations of flexible structures: Experimental identification and validation of a quadratic drag damping model. Journal of Fluids and Structures, 2020, 97, 103056.	3.4	18
100	Theoretical and experimental investigation of a 1:3 internal resonance in a beam with piezoelectric patches. JVC/Journal of Vibration and Control, 2020, 26, 1119-1132.	2.6	18
101	Out-of-plane stresses arising from grain interactions in textured thin films. Acta Materialia, 2010, 58, 2452-2463.	7.9	16
102	Identification of mode couplings in nonlinear vibrations of the steelpan. Applied Acoustics, 2015, 89, 1-15.	3.3	16
103	The reaction of scandium thin films with silicon: diffusion, nucleation, resistivities. Applied Surface Science, 1991, 53, 138-146.	6.1	15
104	Stresses and interfacial structure in Auâ€“Ni and Agâ€“Cu metallic multilayers. Scripta Materialia, 2004, 50, 717-721.	5.2	15
105	New insights into single-grain mechanical behavior from temperature-dependent 3-D coherent X-ray diffraction. Acta Materialia, 2014, 78, 46-55.	7.9	15
106	Reacted amorphous layers: Tantalum and niobium oxides. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1988, 58, 529-538.	0.6	14
107	Impact of surface preparation on nickelâ€“platinum alloy silicide phase formation. Microelectronic Engineering, 2007, 84, 2523-2527.	2.4	14
108	Comparison of the diffusion barrier properties of tungsten films prepared by hydrogen and silicon reduction of tungsten hexafluoride. Thin Solid Films, 1989, 171, 343-357.	1.8	13

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109	Cubic local order around Al and intermixing in short-period AlN/TiN multilayers studied by Al K-edge extended x-ray absorption fine structure spectroscopy and x-ray diffraction. Applied Physics Letters, 2003, 82, 3659-3661.	3.3	13
110	Investigation by High Resolution X-ray Diffraction of the local strains induced in Si by periodic arrays of oxide filled trenches. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 2542-2547.	1.8	13
111	Strain and tilt mapping in silicon around copper filled TSVs using advanced X-ray nano-diffraction. Microelectronic Engineering, 2015, 137, 117-123.	2.4	13
112	Through-silicon via-induced strain distribution in silicon interposer. Applied Physics Letters, 2015, 106, .	3.3	13
113	Resistivity and magnetoresistance of monocrystalline TaSi2 and VSi2. Surface and Coatings Technology, 1991, 45, 237-243.	4.8	12
114	Texture influence on critical current density of YBCO films deposited on (100)-MgO substrates. Physica C: Superconductivity and Its Applications, 1994, 235-240, 627-628.	1.2	12
115	Microstructural analysis of AU/NI multilayers interfaces by SAXS and STM. Applied Surface Science, 2002, 188, 182-187.	6.1	12
116	Exploring Niâ€“Si thin-film reactions by means of simultaneous synchrotron X-Ray diffraction and substrate curvature measurements. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 114-115, 67-71.	3.5	12
117	Low-temperature specific heat ofMoSi2. Physical Review B, 1988, 37, 10364-10366.	3.2	11
118	Respective mobilities of metal and silicon in disilicides: Bilayers of chromium with molybdenum or tungsten. Journal of Applied Physics, 1990, 67, 2410-2414.	2.5	11
119	Preparation of YBa2Cu3O7â^'xfilms and YBa2Cu3O7â^'x/Y2O3multilayers using coevaporation and atomic oxygen. Journal of Applied Physics, 1993, 73, 3096-3098.	2.5	11
120	Twinning orientation in YBa2Cu3O7â^'x films deposited on YAlO3 substrates. Applied Physics Letters, 1996, 69, 1942-1944.	3.3	11
121	Silicide formation during reaction between Ni ultra-thin films and Si(001) substrates. Materials Letters, 2014, 116, 139-142.	2.6	11
122	Nonlinear Modes of Vibration and Internal Resonances in Nonlocal Beams. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	1.2	11
123	A finite element/quaternion/asymptotic numerical method for the 3D simulation of flexible cables. Finite Elements in Analysis and Design, 2018, 139, 14-34.	3.2	11
124	Two modes resonant combined motion for insect wings kinematics reproduction and lift generation. Europhysics Letters, 2018, 121, 66001.	2.0	11
125	A New Fast Track to Nonlinear Modal Analysis of Power System Using Normal Form. IEEE Transactions on Power Systems, 2020, 35, 3247-3257.	6.5	11
126	Impact of thermal cycling on the evolution of grain, precipitate and dislocation structure in Al, 0.5% Cu, 1% Si thin films. Microelectronic Engineering, 2003, 70, 447-454.	2.4	10

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127	Effect of Imperfections and Damping on the Type of Nonlinearity of Circular Plates and Shallow Spherical Shells. Mathematical Problems in Engineering, 2008, 2008, 1-19.	1.1	10
128	A Harmonic-Based Method for Computing the Stability of Periodic Oscillations of Non-Linear Structural Systems. , 2010, , .		10
129	Conservative numerical methods for the Full von KÃ¡rmÃ¡n plate equations. Numerical Methods for Partial Differential Equations, 2015, 31, 1948-1970.	3.6	10
130	A.c. characterization of pyrosol and C.V.D. made high Tc materials. Journal of the Less Common Metals, 1990, 164-165, 1393-1399.	0.8	9
131	Influence of segregation on the measurement of stress in thin films. Journal of Applied Physics, 2002, 91, 2951-2958.	2.5	9
132	X-ray diffraction from inhomogeneous thin films of nanometre thickness: modelling and experiment. Journal of Applied Crystallography, 2003, 36, 154-157.	4.5	9
133	Local strain in a 3D nano-crystal revealed by 2D coherent X-ray diffraction imaging. Thin Solid Films, 2007, 515, 5557-5562.	1.8	9
134	Influence of crystallographic orientation on local strains in silicon: A combined high-resolution X-ray diffraction and finite element modelling investigation. Thin Solid Films, 2008, 516, 8042-8048.	1.8	9
135	A New Electrical Circuit With Negative Capacitances to Enhance Resistive Shunt Damping. , 2015, , .		9
136	A comparison of robustness and performance of linear and nonlinear Lanchester dampers. Nonlinear Dynamics, 2020, 100, 269-287.	5.2	9
137	A nonlinear piezoelectric shunt absorber with 2:1 internal resonance: experimental proof of concept. Smart Materials and Structures, 2022, 31, 035006.	3.5	9
138	The high residual resistivity of CoSi2: Evidence for a homogeneity range. Applied Surface Science, 1989, 38, 88-93.	6.1	8
139	Oxidation and formation mechanisms in disilicides: VSi2and CrSi2, inert marker experiments and interpretation. Journal of Applied Physics, 1990, 68, 6213-6223.	2.5	8
140	Structure characterization of metallic multilayers by symmetric and asymmetric X-ray diffraction. Thin Solid Films, 1998, 319, 78-80.	1.8	8
141	Simulation of local mechanical stresses in lines on substrate. Microelectronic Engineering, 2003, 70, 455-460.	2.4	8
142	Thermal expansion and stress development in the first stages of silicidation in Ti/Si thin films. Journal of Applied Physics, 2003, 94, 7083-7090.	2.5	8
143	Pipe-diffusion ripening of Si precipitates in Al-0.5%Cu-1%Si thin films. Philosophical Magazine, 2005, 85, 3541-3552.	1.6	8
144	X-ray microbeam strain investigation on Cuâ€“MEMS structures. Microelectronic Engineering, 2010, 87, 394-397.	2.4	8

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145	Experimental analysis of nonlinear resonances in piezoelectric plates with geometric nonlinearities. Nonlinear Dynamics, 2020, 102, 1451-1462.	5.2	8
146	In situ measurements of the structure and strain of a Ï€-conjugated semiconducting polymer under mechanical load. Journal of Applied Physics, 2020, 127, 045108.	2.5	8
147	On the dynamic stability and efficiency of centrifugal pendulum vibration absorbers with rotating pendulums. Journal of Sound and Vibration, 2022, 536, 117157.	3.9	8
148	Comment on â€˜â€˜Evidence for Si diffusion through epitaxial NiSi2grown on Si(111)â€™â€™ [Appl. Phys. Lett.50, 1257 (1987)]. Applied Physics Letters, 1988, 52, 2269-2269.	3.3	7
149	Magnetic and transmission electron microscopy studies of the formation of cobalt silicide thin films. Journal of Applied Physics, 1988, 64, 3014-3017.	2.5	7
150	Bilayers with chromium disilicide: Chromium-vanadium. Applied Surface Science, 1989, 38, 106-116.	6.1	7
151	Interfacial reactions between Al and RuO2, MoOxand WNxdiffusion barriers on Si. Surface and Interface Analysis, 1989, 14, 7-12.	1.8	7
152	Measurements of critical currents as a function of temperature in YBa2Cu3O7-xthin films: a comparative study. Superconductor Science and Technology, 1994, 7, 195-205.	3.5	7
153	X-ray scattering: A powerful probe of lattice strain in materials with small dimensions. Applied Surface Science, 2006, 253, 182-187.	6.1	7
154	Nitrogen impurity effects on nickel silicide formation at low temperatures â€“ New â€œnitrogen co-plasmaâ€•approach. Microelectronic Engineering, 2008, 85, 2005-2008.	2.4	7
155	Post Si(C)N hillock nucleation and growth in IC copper lines controlled by diffusional creep. Microelectronic Engineering, 2010, 87, 361-364.	2.4	7
156	Thermoelasticity and interdiffusion in CuNi multilayers. Physical Review B, 2012, 85, .	3.2	7
157	Anomalous coherent diffraction of core-shell nano-objects: A methodology for determination of composition and strain fields. Physical Review B, 2013, 87, .	3.2	7
158	Effects of internal resonances in the pitch glide of Chinese gongs. Journal of the Acoustical Society of America, 2018, 144, 431-442.	1.1	7
159	Dopant diffusion in silicides: Effect of diffusion paths. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1992, 10, 907-911.	2.1	6
160	Microstructure and residual stresses in (111) multilayers. Thin Solid Films, 1996, 275, 29-34.	1.8	6
161	Twinning behaviour in YBCO and PBCO thin films and in PBCO-YBCO superlattices. Journal of Alloys and Compounds, 1997, 251, 322-327.	5.5	6
162	In-situ study of stress evolution during solid state reaction of Pd with Si(001) using synchrotron radiation. Microelectronic Engineering, 2003, 70, 436-441.	2.4	6

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163	Numerical modeling of stress build up during nickel silicidation under anisothermal annealing. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 135, 95-102.	3.5	6
164	3D strain imaging in sub-micrometer crystals using cross-reciprocal space measurements: Numerical feasibility and experimental methodology. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 388-393.	1.4	6
165	First stage of CoSi2 formation during a solid-state reaction. Journal of Applied Physics, 2014, 116, 245301.	2.5	6
166	Optimization of Length and Thickness of Smart Transduction Layers on Beam Structures for Control and M/NEMS Applications. , 2015, , .		6
167	Power System Nonlinear Modal Analysis Using Computationally Reduced Normal Form Method. Energies, 2020, 13, 1249.	3.1	6
168	Simultaneous Multi-Bragg Peak Coherent X-ray Diffraction Imaging. Crystals, 2021, 11, 312.	2.2	6
169	Preparation of YBa2Cu3O7 films by low pressure MOCVD using liquid solution sources. European Physical Journal Special Topics, 1993, 03, C3-321-C3-328.	0.2	6
170	Diffusion of dopants in tungsten disilicide: effects of diffusion paths. Applied Surface Science, 1991, 53, 165-170.	6.1	5
171	Chemically diffuse interface in (1 1 1) Auâ€“Ni multilayers: an anomalous X-ray diffraction analysis. Applied Surface Science, 2002, 188, 110-114.	6.1	5
172	Self-aligned nickelâ€“platinum silicide oxidation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 154-155, 155-158.	3.5	5
173	Texture and strain in narrow copper damascene interconnect lines: An X-ray diffraction analysis. Microelectronic Engineering, 2008, 85, 2175-2178.	2.4	5
174	Optimization of Shunted Piezoelectric Patches for Vibration Reduction of Complex Structures: Application to a Turbojet Fan Blade. , 2010, , .		5
175	In situ combined synchrotron X-ray diffraction and wafer curvature measurements during formation of thin palladium silicide film on Si(001) and Si (111). Nuclear Instruments & Methods in Physics Research B, 2012, 284, 74-77.	1.4	5
176	Singular inextensible limit in the vibrations of post-buckled rods: Analytical derivation and role of boundary conditions. Journal of Sound and Vibration, 2014, 333, 962-970.	3.9	5
177	Three-point bending behavior of a Au nanowire studied by in-situ Laue micro-diffraction. Journal of Applied Physics, 2018, 124, .	2.5	5
178	Dynamic simulation and optimization of artificial insect-sized flapping wings for a bioinspired kinematics using a two resonant vibration modes combination. Journal of Sound and Vibration, 2019, 460, 114883.	3.9	5
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