

Qingchuan Zhang

List of Publications by Year in descending order

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145
papers

4,209
citations

117625

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133252

59
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146
all docs

146
docs citations

146
times ranked

3380
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomechanical vibration profiling of oocytes. Nano Research, 2023, 16, 2672-2681.	10.4	3
2	Nanomechanical assay for ultrasensitive and rapid detection of SARS-CoV-2 based on peptide nucleic acid. Nano Research, 2023, 16, 1183-1195.	10.4	6
3	Nanomechanical sensor for rapid and ultrasensitive detection of tumor markers in serum using nanobody. Nano Research, 2022, 15, 1003-1012.	10.4	20
4	High strength and ductility achieved in friction stir processed Ni-Co based superalloy with fine grains and nanotwins. Journal of Materials Science and Technology, 2022, 106, 162-172.	10.7	8
5	Clare: A free and open-source software for generation and assessment of digital speckle pattern. Optics and Lasers in Engineering, 2022, 148, 106766.	3.8	33
6	Magnetic nanocomposite hydrogel with tunable stiffness for probing cellular responses to matrix stiffening. Acta Biomaterialia, 2022, 138, 112-123.	8.3	18
7	Effect analysis on integration efficiency and safety performance of a battery thermal management system based on direct contact liquid cooling. Applied Thermal Engineering, 2022, 201, 117788.	6.0	52
8	Aptamer-based microcantilever-array biosensor for ultra-sensitive and rapid detection of okadaic acid. Microchemical Journal, 2021, 160, 105644.	4.5	16
9	Optimized fast charging protocol for cylindrical lithium-ion battery based on constant incremental capacity algorithm. International Journal of Energy Research, 2021, 45, 2222-2230.	4.5	2
10	Optimal Aperture and Digital Speckle Optimization in Digital Image Correlation. Experimental Mechanics, 2021, 61, 677-684.	2.0	13
11	Quantifying 3D cell-matrix interactions during mitosis and the effect of anticancer drugs on the interactions. Nano Research, 2021, 14, 4163-4172.	10.4	8
12	Optical spatial filtering readout techniques for IR/THz imaging and their performance analysis. Measurement Science and Technology, 2021, 32, 065202.	2.6	2
13	Error analysis of surface-distribution and non-deformation of fluorescent beads for the IC-GN2 DVC algorithm. Optics and Lasers in Engineering, 2021, 140, 106541.	3.8	6
14	LDV-induced stroboscopic digital image correlation for high spatial resolution vibration measurement. Optics Express, 2021, 29, 28134.	3.4	9
15	Stereo camera calibration for large field of view digital image correlation using zoom lens. Measurement: Journal of the International Measurement Confederation, 2021, 185, 109999.	5.0	15
16	Single-camera 3D-DIC system based on a fiber bundle. Optics and Lasers in Engineering, 2021, 147, 106743.	3.8	6
17	Tunnel contour detection during construction based on digital image correlation. Optics and Lasers in Engineering, 2020, 126, 105879.	3.8	19
18	Strain field measurements over 3000 Å°C using 3D-Digital image correlation. Optics and Lasers in Engineering, 2020, 127, 105942.	3.8	49

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19	Reconstructing Stokes parameters from non-uniform division-of-focal-plane modulation. <i>Optics and Lasers in Engineering</i> , 2020, 134, 106199.	3.8	9
20	Optically trapped particle dynamic responses under varying frequency sinusoidal stimulus. <i>Optics and Lasers in Engineering</i> , 2020, 134, 106143.	3.8	1
21	Experimental investigation of a Portevin-Le Chatelier band in Ni-Co-based superalloys in relation to $\hat{\Gamma}^{\beta 1}$ precipitates at 500 $\hat{a}_{,,f}$. <i>Journal of Materials Science and Technology</i> , 2020, 49, 35-41.	10.7	13
22	Uniformity and isotropy of speckle pattern cause the doubled random error phenomenon in digital image correlation. <i>Optics and Lasers in Engineering</i> , 2020, 131, 106097.	3.8	6
23	Thermal Runaway Induced Casing Rupture: Formation Mechanism and Effect on Propagation in Cylindrical Lithium Ion Battery Module. <i>Journal of the Electrochemical Society</i> , 2020, 167, 090519.	2.9	12
24	Efficient and automated initial value estimation in digital image correlation for large displacement, rotation, and scaling. <i>Applied Optics</i> , 2020, 59, 10523.	1.8	13
25	Regulating trapping energy for multi-object manipulation by random phase encoding. <i>Optics Letters</i> , 2020, 45, 2002.	3.3	6
26	Video microscopy-based accurate optical force measurement by exploring a frequency-changing sinusoidal stimulus. <i>Applied Optics</i> , 2020, 59, 2452.	1.8	3
27	Label-free biosensing using a microring resonator integrated with poly-(dimethylsiloxane) microfluidic channels. <i>Review of Scientific Instruments</i> , 2019, 90, 035004.	1.3	17
28	The mechanism of strain influence on interpolation induced systematic errors in digital image correlation method. <i>Optics and Lasers in Engineering</i> , 2019, 121, 323-333.	3.8	6
29	Elimination of systematic error in digital image correlation caused by intensity interpolation by introducing position randomness to subset points. <i>Optics and Lasers in Engineering</i> , 2019, 114, 60-75.	3.8	26
30	Pixelated-polarization-camera-based polarimetry system for wide real-time optical rotation measurement. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 857-864.	7.8	31
31	Theoretical analysis on performance of digital speckle pattern: uniqueness, accuracy, precision, and spatial resolution. <i>Optics Express</i> , 2019, 27, 22439.	3.4	34
32	Magnetic-Field-Induced Deformation Analysis of Magnetoactive Elastomer Film by Means of DIC, LDV, and FEM. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3246-3254.	3.7	14
33	Precise 3D shape measurement of three-dimensional digital image correlation for complex surfaces. <i>Science China Technological Sciences</i> , 2018, 61, 68-73.	4.0	17
34	Label-free aptamer-based detection of microcystin-LR using a microcantilever array biosensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 42-47.	7.8	46
35	Aptamer-based microcantilever-array biosensor for profenofos detection. <i>Analytica Chimica Acta</i> , 2018, 1020, 116-122.	5.4	51
36	Interpolation bias for the inverse compositional Gauss-Newton algorithm in digital image correlation. <i>Optics and Lasers in Engineering</i> , 2018, 100, 267-278.	3.8	36

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37	High-accuracy optical extensometer based on coordinate transform in two-dimensional digital image correlation. Optics and Lasers in Engineering, 2018, 100, 61-70.	3.8	12
38	Spatial uncertainty of measurement errors in digital image correlation. Optics and Lasers in Engineering, 2018, 110, 113-121.	3.8	17
39	Full-field wrist pulse signal acquisition and analysis by 3D Digital Image Correlation. Optics and Lasers in Engineering, 2017, 98, 76-82.	3.8	36
40	Nanomechanical sensors for direct and rapid characterization of sperm motility based on nanoscale vibrations. Nanoscale, 2017, 9, 18258-18267.	5.6	16
41	Accuracy evaluation of optical distortion calibration by digital image correlation. Optics and Lasers in Engineering, 2017, 98, 143-152.	3.8	27
42	High-Accuracy, High-Efficiency Compensation Method in Two-Dimensional Digital Image Correlation. Experimental Mechanics, 2017, 57, 831-846.	2.0	11
43	High-accuracy and real-time 3D positioning, tracking system for medical imaging applications based on 3D digital image correlation. Optics and Lasers in Engineering, 2017, 88, 82-90.	3.8	59
44	Influence of Ti_3Al precipitates on the critical strain and localized deformation of serrated flow in Ni-based superalloys. Journal of Alloys and Compounds, 2017, 690, 707-715.	5.5	49
45	Investigation of Portevin-Le Chatelier Band Strain and Elastic Shrinkage in Al-Based Alloys Associated with Mg Contents. Journal of Materials Science and Technology, 2017, 33, 580-586.	10.7	51
46	Theoretical estimation of systematic errors in local deformation measurements using digital image correlation. Optics and Lasers in Engineering, 2017, 88, 265-279.	3.8	61
47	Microcantilever array instrument based on optical fiber and performance analysis. Review of Scientific Instruments, 2017, 88, 075007.	1.3	7
48	Statistical model for speckle pattern optimization. Optics Express, 2017, 25, 30259.	3.4	30
49	High-Accuracy and High-Efficiency Compensation Method in Two-Dimensional Digital Image Correlation. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 63-65.	0.5	0
50	Quality Assessment of Speckle Patterns by Estimating RMSE. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 71-74.	0.5	0
51	Performance analysis of microcantilever array sensing. Science China Technological Sciences, 2017, 60, 1674-1680.	4.0	0
52	The Influence of Specimen Thickness on the Lüders Effect of a 5456 Al-Based Alloy: Experimental Observations. Metals, 2016, 6, 120.	2.3	22
53	Random errors in DIC caused by non-uniform image noise. , 2016, , .		3
54	Experimental Study on Three-Dimensional Deformation Field of Portevin-Le Chatelier Effect Using Digital Image Correlation. Experimental Mechanics, 2016, 56, 1243-1255.	2.0	23

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55	Study on evolving phases of accelerating generalized polygon beams. <i>Optics Express</i> , 2016, 24, 5300.	3.4	9
56	An Accurate Method for Shape Retrieval and Displacement Measurement Using Bi-Prism-Based Single Lens 3D Digital Image Correlation. <i>Experimental Mechanics</i> , 2016, 56, 1611-1624.	2.0	20
57	Quality assessment of speckle patterns for DIC by consideration of both systematic errors and random errors. <i>Optics and Lasers in Engineering</i> , 2016, 86, 132-142.	3.8	81
58	Characterization of the deformation behaviors associated with the serrated flow of a 5456 Al-based alloy using two orthogonal digital image correlation systems. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 664, 155-164.	5.6	43
59	Noise-induced bias for convolution-based interpolation in digital image correlation. <i>Optics Express</i> , 2016, 24, 1175.	3.4	36
60	Experimental analysis of image noise and interpolation bias in digital image correlation. <i>Optics and Lasers in Engineering</i> , 2016, 81, 46-53.	3.8	57
61	Optical sensitivity non-uniformity analysis and optimization of a tilt optical readout focal plane array. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 025001.	2.6	3
62	Nanomechanical label-free detection of aflatoxin B1 using a microcantilever. <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 24-29.	7.8	30
63	Quantification of cell viability and rapid screening anti-cancer drug utilizing nanomechanical fluctuation. <i>Biosensors and Bioelectronics</i> , 2016, 77, 164-173.	10.1	42
64	Measurement of Airy-vortex beam topological charges based on a pixelated micropolarizer array. <i>Applied Optics</i> , 2016, 55, 9299.	2.1	11
65	Microscopic Simulation for Dynamic Strain Aging by Monte Carlo Dynamic Model. <i>International Journal for Multiscale Computational Engineering</i> , 2016, , .	1.2	0
66	High accuracy thermal conductivity measurement of aqueous cryoprotective agents and semi-rigid biological tissues using a microfabricated thermal sensor. <i>Scientific Reports</i> , 2015, 5, 10377.	3.3	10
67	Design optimization and performance analysis of deformed optical readout focal plane array. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 065012.	2.6	4
68	Study on the out-of-plane deformation of the Portevinâ€œLe Chatelier band by using digital shearography. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 72, 61-67.	5.0	10
69	Influence of Ti_3Al precipitates on Portevinâ€œLe Chatelier effect of Ni-based superalloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 638, 314-321.	5.6	48
70	Effects of Various Shape Functions and Subset Size in Local Deformation Measurements Using DIC. <i>Experimental Mechanics</i> , 2015, 55, 1575-1590.	2.0	66
71	Fourier-based interpolation bias prediction in digital image correlation. <i>Optics Express</i> , 2015, 23, 19242.	3.4	81
72	Bionic research of pit vipers on infrared imaging. <i>Optics Express</i> , 2015, 23, 19299.	3.4	4

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73	Real-time phase measurement of optical vortices based on pixelated micropolarizer array. Optics Express, 2015, 23, 20521.	3.4	36
74	Investigation of Portevin-Le Chatelier effect in 5456 Al-based alloy using digital image correlation. Optics and Lasers in Engineering, 2015, 65, 89-92.	3.8	28
75	High-efficiency and high-accuracy digital image correlation for three-dimensional measurement. Optics and Lasers in Engineering, 2015, 65, 73-80.	3.8	201
76	Research of infrared image optimization algorithm in optical read-out IR imaging. Proceedings of SPIE, 2014, , .	0.8	0
77	Photophoretic trapping of multiple particles in tapered-ring optical field. Optics Express, 2014, 22, 23716.	3.4	45
78	Nano-fabricated pixelated micropolarizer array for visible imaging polarimetry. Review of Scientific Instruments, 2014, 85, 105002.	1.3	55
79	Manipulation of aerosols revolving in taper-ring optical traps. Optics Letters, 2014, 39, 100.	3.3	30
80	Highly Sensitive Nanomechanical Immunosensor Using Half Antibody Fragments. Analytical Chemistry, 2014, 86, 4271-4277.	6.5	27
81	Mechanism and enhancement of the surface stress caused by a small-molecule antigen and antibody binding. Biosensors and Bioelectronics, 2013, 48, 67-74.	10.1	25
82	Highly sensitive nanomechanical assay for the stress transmission of carbon chain. Sensors and Actuators B: Chemical, 2013, 186, 353-359.	7.8	10
83	Design, Fabrication, and Characterization of a 240 \times 240 MEMS Uncooled Infrared Focal Plane Array With 42- μ m Pitch Pixels. Journal of Microelectromechanical Systems, 2013, 22, 452-461.	2.5	23
84	Wave-plate phase shifting method. Optical Engineering, 2013, 52, 103109.	1.0	8
85	A substrate-free optical readout focal plane array with a heat sink structure. Journal of Semiconductors, 2013, 34, 024005.	3.7	2
86	Sample manuscript for an optical readout infrared imaging system based on polarization to eliminate stray light. Journal of Applied Physics, 2013, 114, .	2.5	2
87	A holistic approach performance analysis of substrate-free focal plane array. Journal of Applied Physics, 2012, 112, 074502.	2.5	3
88	A bi-material microcantilever temperature sensor based on optical readout. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1801-1806.	5.0	23
89	Preparation of a Novel Microcantilever Array Biochemical Sensor. Chinese Journal of Analytical Chemistry, 2012, 40, 493-497.	1.7	1
90	Two mechanisms for the normal and inverse behaviors of the critical strain for the Portevin-Le Chatelier effect. Acta Materialia, 2012, 60, 6650-6656.	7.9	110

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91	Development of a Secondary Antibody Thio-Functionalized Microcantilever Immunosensor and an ELISA for Measuring Ginsenoside Re Content in the Herb Ginseng. <i>Analytical Chemistry</i> , 2012, 84, 4327-4333.	6.5	16
92	Thermal analyses and simulations of the type A and type B Portevin-Le Chatelier effects in an Al-Mg alloy. <i>Acta Materialia</i> , 2012, 60, 1647-1657.	7.9	40
93	STUDY ON TWO CRITICAL MECHANISMS OF PLC EFFECT OF 5456 Al-BASED ALLOY. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2012, 48, 1453.	0.3	2
94	Phase locking of a compact Nd-doped phosphate multicore fiber laser. <i>Laser Physics</i> , 2011, 21, 410-413.	1.2	8
95	The influence of temperature on the PLC effect in Al-Mg alloy. <i>Science China Technological Sciences</i> , 2011, 54, 1389-1393.	4.0	20
96	Development of sulfhydrylated antibody functionalized microcantilever immunosensor for taxol. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 863-866.	7.8	20
97	Influence of precipitation on the Portevin-Le Chatelier effect in Al-Mg alloys. <i>Theoretical and Applied Mechanics Letters</i> , 2011, 1, 011007.	2.8	18
98	Nd-doped phosphate glass microstructured optical fiber laser. <i>Laser Physics</i> , 2010, 20, 1425-1427.	1.2	8
99	Abnormal upconversion luminescence from Yb ³⁺ doped and Tb ³⁺ /Yb ³⁺ codoped high silica glasses induced by intrinsic optical bistability. <i>Applied Physics B: Lasers and Optics</i> , 2010, 98, 261-265.	2.2	14
100	A simple optical sequential illumination for microcantilever array. <i>Procedia Engineering</i> , 2010, 7, 235-238.	1.2	0
101	Detection of copper ions using microcantilever immunosensors and enzyme-linked immunosorbent assay. <i>Analytica Chimica Acta</i> , 2010, 676, 81-86.	5.4	58
102	Development of Protein A Functionalized Microcantilever Immunosensors for the Analyses of Small Molecules at Parts per Trillion Levels. <i>Analytical Chemistry</i> , 2010, 82, 615-620.	6.5	35
103	Performance of an optimized substrate-free focal plane array for optical readout uncooled infrared detector. <i>Journal of Applied Physics</i> , 2009, 105, 034505.	2.5	6
104	Optical sensitivity analysis of a bent micro reflector array in uncooled infrared imaging. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 095018.	2.6	6
105	Synthesis of High-Quality, Double-Walled Carbon Nanotubes in a Fluidized Bed Reactor. <i>Chemical Engineering and Technology</i> , 2009, 32, 73-79.	1.5	41
106	Optical readout sensitivity of deformed microreflector for uncooled infrared detector: theoretical model and experimental validation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 2353.	1.5	9
107	Optical sensitivity analysis of deformed mirrors for microcantilever array IR imaging. <i>Optics Express</i> , 2009, 17, 4367.	3.4	20
108	Uncooled infrared imaging device based on optimized optomechanical micro-cantilever array. <i>Ultramicroscopy</i> , 2008, 108, 579-588.	1.9	17

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109	An Optical Readout Method Based Uncooled Infrared Imaging System. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2008, 29, 261-271.	0.6	5
110	The influence of refractive index change on a micro-cantilever bio/chemical sensor system based on optical lever read-out method. <i>Sensors and Actuators A: Physical</i> , 2008, 148, 329-334.	4.1	15
111	Uncooled Infrared Imaging Using a Substrate-Free Focal-Plane Array. <i>IEEE Electron Device Letters</i> , 2008, 29, 1218-1221.	3.9	11
112	Circuit models applied to the design of a novel uncooled infrared focal plane array structure. <i>Measurement Science and Technology</i> , 2007, 18, 1321-1326.	2.6	2
113	The pressure-dependent performance of a substrate-free focal plane array in an uncooled infrared imaging system. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	15
114	Optical readout method for microcantilever array sensing and its sensitivity analysis. <i>Optics Letters</i> , 2007, 32, 594.	3.3	24
115	Experimental investigations on kinetics of Portevin-Le Chatelier effect in Al-4wt.%Cu alloys. <i>Journal of Alloys and Compounds</i> , 2007, 428, 151-156.	5.5	24
116	Design of a Novel Substrate-Free Double-Layer-Cantilever FPA Applied for Uncooled Optical-Readable Infrared Imaging System. <i>IEEE Sensors Journal</i> , 2007, 7, 1703-1710.	4.7	4
117	Giant Dielectric Permittivities in Functionalized Carbon-Nanotube/ Electroactive-Polymer Nanocomposites. <i>Advanced Materials</i> , 2007, 19, 852-857.	21.0	764
118	Encapsulation, Compensation, and Substitution of Catalyst Particles during Continuous Growth of Carbon Nanotubes. <i>Advanced Materials</i> , 2007, 19, 2360-2363.	21.0	72
119	A novel opto-mechanical uncooled infrared detector. <i>Infrared Physics and Technology</i> , 2007, 51, 66-72.	2.9	13
120	Three types of Portevin-Le Chatelier effects: Experiment and modelling. <i>Acta Materialia</i> , 2007, 55, 2219-2228.	7.9	218
121	Design, simulation and validation of a novel uncooled infrared focal plane array. <i>Sensors and Actuators A: Physical</i> , 2007, 133, 64-71.	4.1	12
122	An uncooled optically readable infrared imaging detector. <i>Sensors and Actuators A: Physical</i> , 2007, 133, 236-242.	4.1	38
123	Time-resolved deformation measurements of the Portevin-Le Chatelier bands. <i>Scripta Materialia</i> , 2007, 56, 721-724.	5.2	59
124	Optical readout uncooled infrared imaging detector using knife-edge filter operation. <i>Optoelectronics Letters</i> , 2007, 3, 119-122.	0.8	8
125	Effect of solute concentration on Portevin-Le Chatelier effect in Al-Cu alloys. <i>Frontiers of Materials Science in China</i> , 2007, 1, 173-176.	0.5	9
126	A novel MEMS-based focal plane array for infrared imaging. <i>Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities</i> , 2007, 2, 83-87.	0.6	2

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127	Performance analysis of microcantilever arrays for optical readout uncooled infrared imaging. <i>Sensors and Actuators A: Physical</i> , 2007, 137, 13-19.	4.1	18
128	Uncooled IR imaging using optomechanical detectors. <i>Ultramicroscopy</i> , 2007, 107, 610-616.	1.9	18
129	Design of a Novel Uncooled Infrared Focal Plane Array. , 2006, , .		3
130	IR Imaging at Room-temperature Using Substrate-free Micro-cantilever Array. , 2006, , .		0
131	A novel uncooled substrate-free optical-readable infrared detector: design, fabrication and performance. <i>Measurement Science and Technology</i> , 2006, 17, 1981-1986.	2.6	29
132	Synthesis of carbon nanotubes with totally hollow channels and/or with totally copper filled nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 86, 265-269.	2.3	18
133	Spatiotemporal aspects of the Portevin-Le Chatelier effect in annealed and solution-treated aluminum alloys. <i>Scripta Materialia</i> , 2006, 54, 2041-2045.	5.2	46
134	Effect of solute concentration on the serrated flow in solution-treated Al-4%Cu alloys. <i>Chinese Physics B</i> , 2006, 15, 1051-1054.	1.3	3
135	Failure analysis of uncooled infrared focal plane array under a high-ginertial load. <i>Measurement Science and Technology</i> , 2006, 17, 2969-2972.	2.6	1
136	Deformation measurements of three types of Portevin-Le Chatelier bands. <i>Chinese Physics B</i> , 2006, 15, 2378-2384.	1.3	8
137	Cantilever-based Transducer for Molecules Configuration Research. , 2006, , .		0
138	On the propagation and pulsation of Portevin-Le Chatelier deformation bands: An experimental study with digital speckle pattern metrology. <i>International Journal of Plasticity</i> , 2005, 21, 2150-2173.	8.8	112
139	Spatial characteristics of the Portevin-Le Chatelier deformation bands in Al-4at%Cu polycrystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 403, 154-164.	5.6	66
140	Dynamic interaction between dislocation and diffusing solutes. <i>Europhysics Letters</i> , 2005, 71, 235-241.	2.0	5
141	Fabrication and application of a novel freestanding stencil bi-material cantilever structure. , 2004, , .		0
142	Investigation of Portevin-Le Chatelier band with temporal phase analysis of speckle interferometry. , 2003, , .		0
143	Investigation of propagation and pulsation of slip band using dynamic DSPI. , 2003, , .		1
144	Interface-mediated structural evolution of immiscible Co-Cu multilayers upon solid-state reaction. <i>Physical Review B</i> , 2001, 64, .	3.2	12

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145	Dynamic speckle correlation method using liquid crystal TV panel for vibration analysis of light weight structure. Optics Communications, 1992, 89, 126-130.	2.1	2