

Winco Kam Chuen Yung

List of Publications by Year in descending order

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136
papers

4,279
citations

87843

38
h-index

128225

60
g-index

136
all docs

136
docs citations

136
times ranked

4088
citing authors

#	ARTICLE	IF	CITATIONS
1	System level reliability assessment for high power light-emitting diode lamp based on a Bayesian network method. Measurement: Journal of the International Measurement Confederation, 2021, 176, 109191.	2.5	14
2	Evolution of Microstructure, Texture and Mechanical Properties for Multilayered Al Matrix Composites by Accumulative Roll Bonding. Materials, 2021, 14, 5576.	1.3	4
3	Optimizing control dynamic complexity and production schedule. International Journal on Interactive Design and Manufacturing, 2019, 13, 47-58.	1.3	1
4	Multi-objective Ant Colony Optimization for Production Line Balance and Dynamic Complexity. , 2019, , .		0
5	Lumen Degradation Lifetime Prediction for High-Power White LEDs Based on the Gamma Process Model. IEEE Photonics Journal, 2019, 11, 1-16.	1.0	21
6	Relevance and feasibility of the existing social LCA methods and case studies from a decision-making perspective. Journal of Cleaner Production, 2018, 171, 690-703.	4.6	26
7	Electrochemically reduced graphene oxides/nanostructured iron oxides as binder-free electrodes for supercapacitors. Electrochimica Acta, 2017, 231, 125-134.	2.6	28
8	Life cycle assessment study of an integrated desktop device -comparison of two information and communication technologies: Desktop computers versus all-in-ones. Journal of Cleaner Production, 2017, 156, 828-837.	4.6	11
9	A Review of Prognostic Techniques for High-Power White LEDs. IEEE Transactions on Power Electronics, 2017, 32, 6338-6362.	5.4	76
10	Prognostics-based qualification of high-power white LEDs using LÃ@vy process approach. Mechanical Systems and Signal Processing, 2017, 82, 206-216.	4.4	14
11	Additive Manufacturing of Cobalt-Based Organic Ferromagnetic Materials. , 2016, , .		0
12	Study of Electrochemical Performance of Li-Ion Batteries Based on Simultaneous Measurement of a Three-Electrode System. , 2016, , .		0
13	Electrochemically reduced graphene oxide/carbon nanotubes composites as binder-free supercapacitor electrodes. Journal of Power Sources, 2016, 311, 144-152.	4.0	57
14	Dynamic high potential treatment with dilute acids for lifting the capacitive performance of carbon nanotube/conducting polymer electrodes. Journal of Electroanalytical Chemistry, 2015, 758, 125-134.	1.9	4
15	Envelope probability and EFAST-based sensitivity analysis method for electronic prognostic uncertainty quantification. Microelectronics Reliability, 2015, 55, 1384-1390.	0.9	6
16	Time-variant reliability analysis of ship grillage structure. , 2015, , .		2
17	A practical design of reliability and performance test for portable lithium-ion batteries. , 2015, , .		1
18	Optimal Design of Life Testing for High-Brightness White LEDs Using the Six Sigma DMAIC Approach. IEEE Transactions on Device and Materials Reliability, 2015, 15, 576-587.	1.5	20

#	ARTICLE	IF	CITATIONS
19	A return on investment analysis of applying health monitoring to LED lighting systems. <i>Microelectronics Reliability</i> , 2015, 55, 527-537.	0.9	21
20	Predicting long-term lumen maintenance life of LED light sources using a particle filter-based prognostic approach. <i>Expert Systems With Applications</i> , 2015, 42, 2411-2420.	4.4	123
21	Study of PEDOT/PSS in carbon nanotube/conducting polymer composites as supercapacitor electrodes in aqueous solution. <i>Journal of Electroanalytical Chemistry</i> , 2014, 728, 140-147.	1.9	50
22	Prerequisites for achieving gold adsorption by multiwalled carbon nanotubes in gold recovery. <i>Chemical Engineering Science</i> , 2014, 107, 58-65.	1.9	40
23	Thermal investigation of a high brightness LED array package assembly for various placement algorithms. <i>Applied Thermal Engineering</i> , 2014, 63, 105-118.	3.0	46
24	Prognostics of Chromaticity State for Phosphor-Converted White Light Emitting Diodes Using an Unscented Kalman Filter Approach. <i>IEEE Transactions on Device and Materials Reliability</i> , 2014, 14, 564-573.	1.5	39
25	Prognostics of lumen maintenance for High power white light emitting diodes using a nonlinear filter-based approach. <i>Reliability Engineering and System Safety</i> , 2014, 123, 63-72.	5.1	40
26	Preparation and properties of aluminum nitride-filled epoxy composites: Effect of filler characteristics and composite processing conditions. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3456-3466.	1.3	12
27	Introduction to graphene electronics – a new era of digital transistors and devices. <i>Contemporary Physics</i> , 2013, 54, 233-251.	0.8	52
28	Effect of graphene doping on microstructural and mechanical properties of Sn ₈ Zn ₃ Bi solder joints together with electromigration analysis. <i>Journal of Alloys and Compounds</i> , 2013, 580, 162-171.	2.8	72
29	Prerequisite for maximizing thermal conductivity of epoxy laminate using filler. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1095-1104.	1.1	13
30	Influence of Photolithography on the Cross-Sectional Shape of Polysiloxane as an Optical Waveguide Material on Printed Circuit Boards. <i>Journal of Electronic Materials</i> , 2013, 42, 3494-3501.	1.0	2
31	Chelating Resin for Removal of Nickel Impurities from Gold Electroplating Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 2418-2424.	1.8	5
32	Heat dissipation performance of a high-brightness LED package assembly using high-thermal conductivity filler. <i>Applied Optics</i> , 2013, 52, 8484.	0.9	17
33	Laser direct patterning of a reduced-graphene oxide transparent circuit on a graphene oxide thin film. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	44
34	Environmental impact of two electrical products with reference to the energy-using products directive. <i>International Journal of Sustainable Engineering</i> , 2012, 5, 86-90.	1.9	4
35	Eco-redesign of a personal electronic product subject to the energy-using product directive. <i>International Journal of Production Research</i> , 2012, 50, 1411-1423.	4.9	17
36	A Green Approach to Synthesis of Nanoparticles of Sn–3.0Ag–0.5Cu Lead-Free Solder Alloy. <i>Materials Transactions</i> , 2012, 53, 1770-1774.	0.4	8

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37	Thermal performance and placement design of LED array package on PCB. , 2012, , .		3
38	Anomaly detection for chromaticity shift of high power white LED with mahalanobis distance approach. , 2012, , .		7
39	Lifetime Estimation of High-Power White LED Using Degradation-Data-Driven Method. IEEE Transactions on Device and Materials Reliability, 2012, 12, 470-477.	1.5	148
40	Influence of small Sb nanoparticles additions on the microstructure, hardness and tensile properties of Sn ⁹ Zn binary eutectic solder alloy. Journal of Materials Science: Materials in Electronics, 2012, 23, 1427-1434.	1.1	16
41	Selective patterning and scribing of Ti thin film on glass substrate by 532 nm picosecond laser. Applied Physics A: Materials Science and Processing, 2012, 107, 351-355.	1.1	3
42	A finite element model and experimental analysis of PTH reliability in rigid-flex printed circuits using the Taguchi method. International Journal of Fatigue, 2012, 40, 84-96.	2.8	14
43	Size Control and Characterization of Sn-Ag-Cu Lead-Free Nanosolders by a Chemical Reduction Process. Journal of Electronic Materials, 2012, 41, 313-321.	1.0	23
44	Physics-of-Failure-Based Prognostics and Health Management for High-Power White Light-Emitting Diode Lighting. IEEE Transactions on Device and Materials Reliability, 2011, 11, 407-416.	1.5	96
45	A life-cycle assessment for eco-redesign of a consumer electronic product. Journal of Engineering Design, 2011, 22, 69-85.	1.1	64
46	Correlating Interconnect Stress Test and Accelerated Thermal Cycling for Accessing the Reliabilities of High Performance Printed Circuit Boards. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 2005-2017.	1.4	2
47	Fabrication and adhesion performance of gold conductive patterns on silicon substrate by laser sintering. Applied Surface Science, 2011, 258, 478-481.	3.1	10
48	Influence of SrTiO ₃ nano-particles on the microstructure and shear strength of Sn ^{Ag} Cu solder on Au/Ni metallized Cu pads. Journal of Alloys and Compounds, 2011, 509, 1885-1892.	2.8	66
49	Microstructure, kinetic analysis and hardness of Sn ^{Ag} Cu ^{1wt%} nano-ZrO ₂ composite solder on OSP-Cu pads. Journal of Alloys and Compounds, 2011, 509, 3319-3325.	2.8	88
50	Thermal Investigation and Placement Design of High-Brightness LED Array Package on PCB for Uniform Illuminance. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.2	8
51	Degradation mechanism beyond device self-heating in high power light-emitting diodes. Journal of Applied Physics, 2011, 109, 094509.	1.1	19
52	Effect of additions of ZrO ₂ nano-particles on the microstructure and shear strength of Sn ^{Ag} Cu solder on Au/Ni metallized Cu pads. Microelectronics Reliability, 2011, 51, 2306-2313.	0.9	105
53	Thermomigration and electromigration in Sn ₈ Zn ₃ Bi solder joints. Journal of Materials Science: Materials in Electronics, 2011, 22, 217-222.	1.1	16
54	Microstructure, thermal analysis and hardness of a Sn ^{Ag} Cu ^{1wt%} nano-TiO ₂ composite solder on flexible ball grid array substrates. Microelectronics Reliability, 2011, 51, 975-984.	0.9	104

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55	Laser induced activation of circuit lines and via-holes on AlN for electroless metal plating. Applied Surface Science, 2011, 257, 6601-6606.	3.1	20
56	Rheological Characterization and Statistical Modeling of Resin Flow of No-flow Polyimide Prepreg in Rigid-Flex Printed Circuit Lamination. Journal of Composite Materials, 2011, 45, 171-185.	1.2	0
57	Chemorheological study of phosphorylated flame retardant epoxies. Plastics, Rubber and Composites, 2011, 40, 25-31.	0.9	2
58	Development of epoxy matrix composite with both high thermal conductivity and low dielectric constant via hybrid filler systems. Journal of Applied Polymer Science, 2010, 116, 518-527.	1.3	12
59	Analysis of process parameters of laser structuring with Taguchi method. Applied Physics A: Materials Science and Processing, 2010, 101, 385-392.	1.1	2
60	Selective laser processing of ink-jet printed nano-scaled tin-clad copper particles. Applied Physics A: Materials Science and Processing, 2010, 101, 393-397.	1.1	9
61	Thermal performance of high brightness LED array package on PCB. International Communications in Heat and Mass Transfer, 2010, 37, 1266-1272.	2.9	86
62	Impact of plasma etching on fabrication technology of liquid crystal polymer printed circuit board. Journal of Materials Science: Materials in Electronics, 2010, 21, 954-962.	1.1	10
63	Thermomigration and electromigration in Sn58Bi ball grid array solder joints. Journal of Materials Science: Materials in Electronics, 2010, 21, 1090-1098.	1.1	24
64	Effect of the filler size and content on the thermomechanical properties of particulate aluminum nitride filled epoxy composites. Journal of Applied Polymer Science, 2010, 116, 225-236.	1.3	55
65	A study of critical processing technologies of liquid crystal polymer printed circuit board for high speed application. Journal of Applied Polymer Science, 2010, 116, 2348-2358.	1.3	3
66	Study on the properties of the epoxy matrix composites filled with thermally conductive AlN and BN ceramic particles. Journal of Applied Polymer Science, 2010, 118, 2754-2764.	1.3	101
67	Model scenario for integrated environmental product assessment at the use of raw materials stage of a product. Resources, Conservation and Recycling, 2010, 54, 841-850.	5.3	9
68	Ink-jet printing and camera flash sintering of silver tracks on different substrates. Journal of Materials Processing Technology, 2010, 210, 2268-2272.	3.1	82
69	Effect of nano Al ₂ O ₃ additions on the microstructure, hardness and shear strength of eutectic Sn-9Zn solder on Au/Ni metallized Cu pads. Microelectronics Reliability, 2010, 50, 2051-2058.	0.9	36
70	A prerequisite to achieving high performance polymer/inorganic thin film diodes. Solid State Communications, 2010, 150, 1725-1728.	0.9	5
71	Multiresponse Optimization of Surface Plasma Treatment Using Taguchi Method. Materials and Manufacturing Processes, 2010, 25, 1001-1011.	2.7	12
72	Investigation of small Sn-3.5Ag-0.5Cu additions on the microstructure and properties of Sn-8Zn-3Bi solder on Au/Ni/Cu pads. Journal of Alloys and Compounds, 2010, 489, 678-684.	2.8	32

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73	The influence of addition of Al nano-particles on the microstructure and shear strength of eutectic Sn-Ag-Cu solder on Au/Ni metallized Cu pads. Journal of Alloys and Compounds, 2010, 506, 216-223.	2.8	76
74	Fabrication of Biodegradable Polymeric Micro-Analytical Devices Using a Laser Direct Writing Method. Advanced Materials Research, 2010, 136, 53-58.	0.3	1
75	Effect of small Sn-Ag-Cu additions on structure and properties of Sn-Zn-Bi solder/BGA during as-soldered and as-aged conditions. , 2009, , .		0
76	The effect of plasma etching process on rigid flex substrate for electronic packaging application. , 2009, , .		1
77	Preparation and properties of hollow glass microsphere-filled epoxy-matrix composites. Composites Science and Technology, 2009, 69, 260-264.	3.8	215
78	Interfacial microstructure and shear strength of Ag nano particle doped Sn-9Zn solder in ball grid array packages. Microelectronics Reliability, 2009, 49, 746-753.	0.9	42
79	Synthesis of submicron sized silver powder for metal deposition via laser sintered inkjet printing. Journal of Materials Science, 2009, 44, 154-159.	1.7	35
80	Life cycle assessment of two personal electronic products—a note with respect to the energy-using product directive. International Journal of Advanced Manufacturing Technology, 2009, 42, 415-419.	1.5	24
81	Studies on laser ablation of low temperature co-fired ceramics (LTCC). International Journal of Advanced Manufacturing Technology, 2009, 42, 696-702.	1.5	14
82	Effect of Ag micro-particles content on the mechanical strength of the interface formed between Sn-Zn binary solder and Au/Ni/Cu bond pads. Microelectronic Engineering, 2009, 86, 2086-2093.	1.1	19
83	Effect of small Sn-3.5Ag-0.5Cu additions on the structure and properties of Sn-9Zn solder in ball grid array packages. Microelectronic Engineering, 2009, 86, 2347-2353.	1.1	29
84	Effect of nano Ni additions on the structure and properties of Sn-9Zn and Sn-Zn-3Bi solders in Au/Ni/Cu ball grid array packages. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 162, 92-98.	1.7	59
85	Influence of small amount of Al and Cu on the microstructure, microhardness and tensile properties of Sn-9Zn binary eutectic solder alloy. Journal of Alloys and Compounds, 2009, 481, 167-172.	2.8	61
86	Enhanced redshift of the optical band gap in Sn-doped ZnO free standing films using the sol-gel method. Journal Physics D: Applied Physics, 2009, 42, 185002.	1.3	70
87	Fabrication of Polymer Silver Conductor Using Inkjet Printing and Low Temperature Sintering Process. IEEE Transactions on Electronics Packaging Manufacturing, 2008, 31, 291-296.	1.6	13
88	Thermal Management for Boron Nitride Filled Metal Core Printed Circuit Board. Journal of Composite Materials, 2008, 42, 2615-2627.	1.2	37
89	An environmental assessment framework with respect to the Requirements of Energy-using Products Directive. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2008, 222, 643-651.	1.5	13
90	Effect of nano Ni additions on the structure and properties of Sn-9Zn and Sn-8Sn-3Bi solder in ball grid array packages. , 2008, , .		3

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91	Studies on laser ablation of low temperature co-fired ceramics (LTCC). <i>Microelectronics International</i> , 2007, 24, 27-33.	0.4	5
92	Surface characterization of pre-treated copper foil used for PCB lamination. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 363-377.	1.4	3
93	Nd:YAG laser drilling in epoxy resin/AlN composites material. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 2055-2064.	3.8	26
94	Enhanced thermal conductivity of boron nitride epoxy matrix composite through multi-modal particle size mixing. <i>Journal of Applied Polymer Science</i> , 2007, 106, 3587-3591.	1.3	272
95	Effect of AlN content on the performance of brominated epoxy resin for printed circuit board substrate. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 1662-1674.	2.4	61
96	Feasibility of the 248nm Excimer laser in the laser structuring of fine circuit lines on printed circuit board. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 33, 1149-1158.	1.5	7
97	Modeling Young's Modulus of Polymer-layered Silicate Nanocomposites Using a Modified Halpin-Tsai Micromechanical Model. <i>Journal of Reinforced Plastics and Composites</i> , 2006, 25, 847-861.	1.6	81
98	Fabrication of epoxy-montmorillonite hybrid composites used for printed circuit boards via in-situ polymerization. <i>Advanced Composite Materials</i> , 2006, 15, 371-384.	1.0	21
99	Modeling the Etching Rate and Uniformity of Plasma-Aided Manufacturing Using Statistical Experimental Design. <i>Materials and Manufacturing Processes</i> , 2006, 21, 899-906.	2.7	17
100	Frequency-tripled Nd:YAG laser ablation in laser structuring process. <i>Optics and Lasers in Engineering</i> , 2006, 44, 815-825.	2.0	11
101	Copper Direct Drilling With TEA CO_2 Laser in Manufacture of High-Density Interconnection Printed Circuit Board. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , 2006, 29, 145-149.	1.6	6
102	Size Effect of AlN on the Performance of Printed Circuit Board (PCB) Material-brominated Epoxy Resin. <i>Journal of Composite Materials</i> , 2006, 40, 567-581.	1.2	15
103	Embedded components in printed circuit boards: a processing technology review. <i>International Journal of Advanced Manufacturing Technology</i> , 2005, 25, 350-360.	1.5	131
104	Pulsed UV laser ablation of a liquid crystal polymer. <i>International Journal of Advanced Manufacturing Technology</i> , 2005, 26, 1231-1236.	1.5	9
105	Theoretical and experimental study on the kerf profile of the laser micro-cutting NiTi shape memory alloy using 355 nm Nd:YAG. <i>Smart Materials and Structures</i> , 2005, 14, 337-342.	1.8	36
106	Rapid prototyping of polymer-based MEMS devices using UV YAG laser. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 1682-1686.	1.5	7
107	UV laser micromachining of piezoelectric ceramic using a pulsed Nd:YAG laser. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 78, 415-421.	1.1	17
108	A study of microvias produced by laser-assisted seeding mechanism in blind via hole plating of printed circuit board. <i>International Journal of Advanced Manufacturing Technology</i> , 2004, 24, 474-484.	1.5	7

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109	The effect of waveform for pulse plating on copper plating distribution of microvia in PCB manufacture. <i>International Journal of Advanced Manufacturing Technology</i> , 2004, 23, 245-248.	1.5	7
110	Quality and Reliability of High Aspect-Ratio Blind Microvias Formed by Laser-Assisted Seeding Mechanism in PCB. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , 2004, 27, 115-124.	1.6	1
111	The effects of pulse plating parameters on copper plating distribution of microvia in PCB manufacture. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , 2003, 26, 106-109.	1.6	15
112	The laser dressing of resin-bonded CBN wheels by a Q-switched Nd: YAG laser. <i>International Journal of Advanced Manufacturing Technology</i> , 2003, 22, 541-546.	1.5	27
113	UV Nd:YAG laser ablation of copper: chemical states in both crater and halo studied by XPS. <i>Applied Surface Science</i> , 2003, 217, 170-180.	3.1	56
114	Near-threshold ultraviolet-laser ablation of Kapton film investigated by x-ray photoelectron spectroscopy. <i>Journal of Materials Research</i> , 2003, 18, 53-59.	1.2	5
115	Application of value delivery system (VDS) and performance benchmarking in flexible business process reengineering. <i>International Journal of Operations and Production Management</i> , 2003, 23, 300-315.	3.5	19
116	Mesostructured composite coating on SAE 1045 carbon steel synthesized in situ by laser surface alloying. <i>Materials Letters</i> , 2002, 56, 680-684.	1.3	11
117	Study on ceramic/polymer composite fabricated by laser cutting. <i>Materials Chemistry and Physics</i> , 2002, 75, 147-150.	2.0	32
118	Investigation of laser surface alloying of copper on high nickel austenitic ductile iron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 333, 223-231.	2.6	25
119	A study of the heat-affected zone in the UV YAG laser drilling of GFRP materials. <i>Journal of Materials Processing Technology</i> , 2002, 122, 278-285.	3.1	64
120	High repetition rate effect on the chemical characteristics and composition of Upilex-S polyimide ablated by a UV Nd:YAG laser. <i>Surface and Coatings Technology</i> , 2002, 160, 1-6.	2.2	16
121	XPS investigation of the chemical characteristics of Kapton films ablated by a pulsed TEA CO ₂ laser. <i>Surface and Coatings Technology</i> , 2002, 153, 210-216.	2.2	75
122	Laser ablation of Upilex-S polyimide: influence of laser wavelength on chemical structure and composition in both ablated area and halo. <i>Surface and Coatings Technology</i> , 2001, 145, 186-193.	2.2	19
123	XPS investigation of Upilex-S polyimide ablated by 355 nm Nd:YAG laser irradiation. <i>Applied Surface Science</i> , 2001, 173, 193-202.	3.1	70
124	XPS investigation on Upilex-S polyimide ablated by pulse TEA CO ₂ laser. <i>Applied Surface Science</i> , 2001, 180, 280-285.	3.1	17
125	Corrosion resistance enhancement of Ni-resist ductile iron by laser surface alloying. <i>Scripta Materialia</i> , 2001, 44, 651-657.	2.6	12
126	Investigation of corrosion behavior of high nickel ductile iron by laser surface alloying with copper. <i>Scripta Materialia</i> , 2001, 44, 2747-2752.	2.6	13

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127	355nm Nd:YAG laser ablation of polyimide and its thermal effect. Journal of Materials Processing Technology, 2000, 101, 306-311.	3.1	58
128	Experimental investigation of 355nm Nd:YAG laser ablation of RCCRin PCB. Circuit World, 1999, 25, 13-17.	0.7	7
129	The values of TQM in the revised ISO 9000 quality system. International Journal of Operations and Production Management, 1997, 17, 221-230.	3.5	37
130	A stepped composite methodology to redesign manufacturing processes through reengineering and benchmarking. International Journal of Operations and Production Management, 1997, 17, 375-388.	3.5	5
131	The degradation of elastic properties of aluminum alloy 2024T3 due to strain damage. Scripta Materialia, 1997, 38, 231-238.	2.6	4
132	An investigation into welding parameters affecting the tensile properties of titanium welds. Journal of Materials Processing Technology, 1997, 63, 759-764.	3.1	45
133	The control of the thin-plate welds geometry and microstructure. Journal of Materials Processing Technology, 1997, 63, 802-805.	3.1	2
134	An integrated model for manufacturing process improvement. Journal of Materials Processing Technology, 1996, 61, 39-43.	3.1	9
135	A Temperature Model For Ultrasonic Measurement of Titanium Welds. HKIE Transactions, 1995, 2, 33-37.	1.9	0
136	Studied on the Microfluidic Chip Based on the Kapton by Excimer Laser Ablation. Key Engineering Materials, 0, 458, 81-86.	0.4	2