Winco Kam Chuen Yung

List of Publications by Year in descending order

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87843 128225 4,279 136 38 60 citations h-index g-index papers 136 136 136 4088 docs citations citing authors all docs times ranked

#	Article	IF	CITATIONS
1	Enhanced thermal conductivity of boron nitride epoxyâ€matrix composite through multiâ€modal particle size mixing. Journal of Applied Polymer Science, 2007, 106, 3587-3591.	1.3	272
2	Preparation and properties of hollow glass microsphere-filled epoxy-matrix composites. Composites Science and Technology, 2009, 69, 260-264.	3.8	215
3	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
4	Embedded components in printed circuit boards: a processing technology review. International Journal of Advanced Manufacturing Technology, 2005, 25, 350-360.	1.5	131
5	Predicting long-term lumen maintenance life of LED light sources using a particle filter-based prognostic approach. Expert Systems With Applications, 2015, 42, 2411-2420.	4.4	123
6	Effect of additions of ZrO2 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
7	Microstructure, thermal analysis and hardness of a Sn–Ag–Cu–1wt% nano-TiO2 composite solder on flexible ball grid array substrates. Microelectronics Reliability, 2011, 51, 975-984.	0.9	104
8	Study on the properties of the epoxyâ€matrix composites filled with thermally conductive AIN and BN ceramic particles. Journal of Applied Polymer Science, 2010, 118, 2754-2764.	1.3	101
9	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
10	Microstructure, kinetic analysis and hardness of Sn–Ag–Cu–1wt% nano-ZrO2 composite solder on OSP-Cu pads. Journal of Alloys and Compounds, 2011, 509, 3319-3325.	2.8	88
11	Thermal performance of high brightness LED array package on PCB. International Communications in Heat and Mass Transfer, 2010, 37, 1266-1272.	2.9	86
12	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
13	Modeling Young's Modulus of Polymer-layered Silicate Nanocomposites Using a Modified Halpin—Tsai Micromechanical Model. Journal of Reinforced Plastics and Composites, 2006, 25, 847-861.	1.6	81
14	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
15	A Review of Prognostic Techniques for High-Power White LEDs. IEEE Transactions on Power Electronics, 2017, 32, 6338-6362.	5.4	76
16	XPS investigation of the chemical characteristics of Kapton films ablated by a pulsed TEA CO2 laser. Surface and Coatings Technology, 2002, 153, 210-216.	2.2	75
17	Effect of graphene doping on microstructural and mechanical properties of Sn–8Zn–3Bi solder joints together with electromigration analysis. Journal of Alloys and Compounds, 2013, 580, 162-171.	2.8	72
18	XPS investigation of Upilex-S polyimide ablated by 355 nm Nd:YAG laser irradiation. Applied Surface Science, 2001, 173, 193-202.	3.1	70

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19	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
20	Influence of SrTiO3 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
21	A study of the heat-affected zone in the UV YAG laser drilling of GFRP materials. Journal of Materials Processing Technology, 2002, 122, 278-285.	3.1	64
22	A life-cycle assessment for eco-redesign of a consumer electronic product. Journal of Engineering Design, 2011, 22, 69-85.	1.1	64
23	Effect of AlN content on the performance of brominated epoxy resin for printed circuit board substrate. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 1662-1674.	2.4	61
24	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
25	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
26	355nm Nd:YAG laser ablation of polyimide and its thermal effect. Journal of Materials Processing Technology, 2000, 101, 306-311.	3.1	58
27	Electrochemically reduced graphene oxide/carbon nanotubes composites as binder-free supercapacitor electrodes. Journal of Power Sources, 2016, 311, 144-152.	4.0	57
28	UV Nd:YAG laser ablation of copper: chemical states in both crater and halo studied by XPS. Applied Surface Science, 2003, 217, 170-180.	3.1	56
29	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
30	Introduction to graphene electronics – a new era of digital transistors and devices. Contemporary Physics, 2013, 54, 233-251.	0.8	52
31	Study of PEDOT–PSS in carbon nanotube/conducting polymer composites as supercapacitor electrodes in aqueous solution. Journal of Electroanalytical Chemistry, 2014, 728, 140-147.	1.9	50
32	Thermal investigation of a high brightness LED array package assembly for various placement algorithms. Applied Thermal Engineering, 2014, 63, 105-118.	3.0	46
33	An investigation into welding parameters affecting the tensile properties of titanium welds. Journal of Materials Processing Technology, 1997, 63, 759-764.	3.1	45
34	Laser direct patterning of a reduced-graphene oxide transparent circuit on a graphene oxide thin film. Journal of Applied Physics, 2013, 113, .	1.1	44
35	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
36	Prerequisites for achieving gold adsorption by multiwalled carbon nanotubes in gold recovery. Chemical Engineering Science, 2014, 107, 58-65.	1.9	40

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37	Prognostics of lumen maintenance for High power white light emitting diodes using a nonlinear filter-based approach. Reliability Engineering and System Safety, 2014, 123, 63-72.	5.1	40
38	Prognostics of Chromaticity State for Phosphor-Converted White Light Emitting Diodes Using an Unscented Kalman Filter Approach. IEEE Transactions on Device and Materials Reliability, 2014, 14, 564-573.	1.5	39
39	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
40	Thermal Management for Boron Nitride Filled Metal Core Printed Circuit Board. Journal of Composite Materials, 2008, 42, 2615-2627.	1,2	37
41	Theoretical and experimental study on the kerf profile of the laser micro-cutting NiTi shape memory alloy using 355 nm Nd:YAG. Smart Materials and Structures, 2005, 14, 337-342.	1.8	36
42	Effect of nano Al2O3 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
43	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
44	Study on ceramic/polymer composite fabricated by laser cutting. Materials Chemistry and Physics, 2002, 75, 147-150.	2.0	32
45	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
46	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
47	Electrochemically reduced graphene oxides/nanostructured iron oxides as binder-free electrodes for supercapacitors. Electrochimica Acta, 2017, 231, 125-134.	2.6	28
48	The laser dressing of resin-bonded CBN wheels by a Q-switched Nd: YAG laser. International Journal of Advanced Manufacturing Technology, 2003, 22, 541-546.	1.5	27
49	Nd:YAG laser drilling in epoxy resin/AlN composites material. Composites Part A: Applied Science and Manufacturing, 2007, 38, 2055-2064.	3.8	26
50	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
51	Investigation of laser surface alloying of copper on high nickel austenitic ductile iron. Materials Science & Science & Properties, Microstructure and Processing, 2002, 333, 223-231.	2.6	25
52	Life cycle assessment of two personal electronic productsâ€"a note with respect to the energy-using product directive. International Journal of Advanced Manufacturing Technology, 2009, 42, 415-419.	1.5	24
53	Thermomigration and electromigration in Sn58Bi ball grid array solder joints. Journal of Materials Science: Materials in Electronics, 2010, 21, 1090-1098.	1.1	24
54	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

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55	Fabrication of epoxy-montmorillonite hybrid composites used for printed circuit boards via in-situ polymerization. Advanced Composite Materials, 2006, 15, 371-384.	1.0	21
56	A return on investment analysis of applying health monitoring to LED lighting systems. Microelectronics Reliability, 2015, 55, 527-537.	0.9	21
57	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
58	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
59	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
60	Laser ablation of Upilex-S polyimide: influence of laser wavelength on chemical structure and composition in both ablated area and halo. Surface and Coatings Technology, 2001, 145, 186-193.	2.2	19
61	Application of value delivery system (VDS) and performance benchmarking in flexible business process reengineering. International Journal of Operations and Production Management, 2003, 23, 300-315.	3.5	19
62	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
63	Degradation mechanism beyond device self-heating in high power light-emitting diodes. Journal of Applied Physics, 2011, 109, 094509.	1.1	19
64	XPS investigation on Upilex-S polyimide ablated by pulse TEA CO2 laser. Applied Surface Science, 2001, 180, 280-285.	3.1	17
65	UV laser micromachining of piezoelectric ceramic using a pulsed Nd:YAG laser. Applied Physics A: Materials Science and Processing, 2004, 78, 415-421.	1.1	17
66	Modeling the Etching Rate and Uniformity of Plasma-Aided Manufacturing Using Statistical Experimental Design. Materials and Manufacturing Processes, 2006, 21, 899-906.	2.7	17
67	Eco-redesign of a personal electronic product subject to the energy-using product directive. International Journal of Production Research, 2012, 50, 1411-1423.	4.9	17
68	Heat dissipation performance of a high-brightness LED package assembly using high-thermal conductivity filler. Applied Optics, 2013, 52, 8484.	0.9	17
69	High repetition rate effect on the chemical characteristics and composition of Upilex-S polyimide ablated by a UV Nd:YAG laser. Surface and Coatings Technology, 2002, 160, 1-6.	2.2	16
70	Thermomigration and electromigration in Sn8Zn3Bi solder joints. Journal of Materials Science: Materials in Electronics, 2011, 22, 217-222.	1.1	16
71	Influence of small Sb nanoparticles additions on the microstructure, hardness and tensile properties of Sn–9Zn binary eutectic solder alloy. Journal of Materials Science: Materials in Electronics, 2012, 23, 1427-1434.	1.1	16
72	The effects of pulse plating parameters on copper plating distribution of microvia in PCB manufacture. IEEE Transactions on Electronics Packaging Manufacturing, 2003, 26, 106-109.	1.6	15

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73	Size Effect of AIN on the Performance of Printed Circuit Board (PCB) Material-brominated Epoxy Resin. Journal of Composite Materials, 2006, 40, 567-581.	1.2	15
74	Studies on laser ablation of low temperature co-fired ceramics (LTCC). International Journal of Advanced Manufacturing Technology, 2009, 42, 696-702.	1.5	14
75	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
76	Prognostics-based qualification of high-power white LEDs using Lévy process approach. Mechanical Systems and Signal Processing, 2017, 82, 206-216.	4.4	14
77	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
78	Investigation of corrosion behavior of high nickel ductile iron by laser surface alloying with copper. Scripta Materialia, 2001, 44, 2747-2752.	2.6	13
79	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
80	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
81	Prerequisite for maximizing thermal conductivity of epoxy laminate using filler. Journal of Materials Science: Materials in Electronics, 2013, 24, 1095-1104.	1.1	13
82	Corrosion resistance enhancement of Ni-resist ductile iron by laser surface alloying. Scripta Materialia, 2001, 44, 651-657.	2.6	12
83	Development of epoxyâ€matrix composite with both highâ€thermal conductivity and lowâ€dielectric constant via hybrid filler systems. Journal of Applied Polymer Science, 2010, 116, 518-527.	1.3	12
84	Multiresponse Optimization of Surface Plasma Treatment Using Taguchi Method. Materials and Manufacturing Processes, 2010, 25, 1001-1011.	2.7	12
85	Preparation and properties of aluminum nitrideâ€filled epoxy composites: Effect of filler characteristics and composite processing conditions. Journal of Applied Polymer Science, 2013, 127, 3456-3466.	1.3	12
86	Mesostructured composite coating on SAE 1045 carbon steel synthesized in situ by laser surface alloying. Materials Letters, 2002, 56, 680-684.	1.3	11
87	Frequency-tripled Nd:YAG laser ablation in laser structuring process. Optics and Lasers in Engineering, 2006, 44, 815-825.	2.0	11
88	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
89	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
90	Fabrication and adhesion performance of gold conductive patterns on silicon substrate by laser sintering. Applied Surface Science, 2011, 258, 478-481.	3.1	10

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91	An integrated model for manufacturing process improvement. Journal of Materials Processing Technology, 1996, 61, 39-43.	3.1	9
92	Pulsed UV laser ablation of a liquid crystal polymer. International Journal of Advanced Manufacturing Technology, 2005, 26, 1231-1236.	1.5	9
93	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
94	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
95	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
96	A Green Approach to Synthesis of Nanoparticles of Sn–3.0Ag–0.5Cu Lead-Free Solder Alloy. Materials Transactions, 2012, 53, 1770-1774.	0.4	8
97	Experimental investigation of 355nm Nd:YAG laser ablation of RCCRin PCB. Circuit World, 1999, 25, 13-17.	0.7	7
98	Rapid prototyping of polymer-based MEMS devices using UV YAG laser. Journal of Micromechanics and Microengineering, 2004, 14, 1682-1686.	1.5	7
99	A study of microvias produced by laser-assisted seeding mechanism in blind via hole plating of printed circuit board. International Journal of Advanced Manufacturing Technology, 2004, 24, 474-484.	1.5	7
100	The effect of waveform for pulse plating on copper plating distribution of microvia in PCB manufacture. International Journal of Advanced Manufacturing Technology, 2004, 23, 245-248.	1.5	7
101	Feasibility of the 248Ânm Excimer laser in the laser structuring of fine circuit lines on printed circuit board. International Journal of Advanced Manufacturing Technology, 2007, 33, 1149-1158.	1.5	7
102	Anomaly detection for chromaticity shift of high power white LED with mahalanobis distance approach. , 2012 , , .		7
103	Copper Direct Drilling With TEA <tex>\$hbox CO_2\$</tex> Laser in Manufacture of High-Density Interconnection Printed Circuit Board. IEEE Transactions on Electronics Packaging Manufacturing, 2006, 29, 145-149.	1.6	6
104	Envelope probability and EFAST-based sensitivity analysis method for electronic prognostic uncertainty quantification. Microelectronics Reliability, 2015, 55, 1384-1390.	0.9	6
105	A stepped composite methodology to redesign manufacturing processes through reâ€engineering and benchmarking. International Journal of Operations and Production Management, 1997, 17, 375-388.	3.5	5
106	Near-threshold ultraviolet-laser ablation of Kapton film investigated by x-ray photoelectron spectroscopy. Journal of Materials Research, 2003, 18, 53-59.	1.2	5
107	Studies on laser ablation of low temperature coâ€fired ceramics (LTCC). Microelectronics International, 2007, 24, 27-33.	0.4	5
108	A prerequisite to achieving high performance polymer/inorganic thin film diodes. Solid State Communications, 2010, 150, 1725-1728.	0.9	5

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109	Chelating Resin for Removal of Nickel Impurities from Gold Electroplating Solutions. Industrial & Engineering Chemistry Research, 2013, 52, 2418-2424.	1.8	5
110	The degradation of elastic properties of aluminum alloy 2024T3 due to strain damage. Scripta Materialia, 1997, 38, 231-238.	2.6	4
111	Environmental impact of two electrical products with reference to the energy-using products directive. International Journal of Sustainable Engineering, 2012, 5, 86-90.	1.9	4
112	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
113	Evolution of Microstructure, Texture and Mechanical Properties for Multilayered Al Matrix Composites by Accumulative Roll Bonding. Materials, 2021, 14, 5576.	1.3	4
114	Surface characterization of pre-treated copper foil used for PCB lamination. Journal of Adhesion Science and Technology, 2007, 21, 363-377.	1.4	3
115	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
116	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
117	Thermal performance and placement design of LED array package on PCB., 2012,,.		3
118	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
119	The control of the thin-plate welds geometry and microstructure. Journal of Materials Processing Technology, 1997, 63, 802-805.	3.1	2
120	Analysis of process parameters of laser structuring with Taguchi method. Applied Physics A: Materials Science and Processing, 2010, 101, 385-392.	1.1	2
121	Studied on the Microfluidic Chip Based on the Kapton by Excimer Laser Ablation. Key Engineering Materials, 0, 458, 81-86.	0.4	2
122	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
123	Chemorheological study of phosphorylated flame retardant epoxies. Plastics, Rubber and Composites, 2011, 40, 25-31.	0.9	2
124	Influence of Photolithography on the Cross-Sectional Shape of Polysiloxane as an Optical Waveguide Material on Printed Circuit Boards. Journal of Electronic Materials, 2013, 42, 3494-3501.	1.0	2
125	Time-variant reliability analysis of ship grillage structure. , 2015, , .		2
126	Quality and Reliability of High Aspect-Ratio Blind Microvias Formed by Laser-Assisted Seeding Mechanism in PCB. IEEE Transactions on Electronics Packaging Manufacturing, 2004, 27, 115-124.	1.6	1

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127	The effect of plasma etching process on rigid flex substrate for electronic packaging application. , 2009, , .		1
128	Fabrication of Biodegradable Polymeric Micro-Analytical Devices Using a Laser Direct Writing Method. Advanced Materials Research, 2010, 136, 53-58.	0.3	1
129	A practical design of reliability and performance test for portable lithium-ion batteries. , 2015, , .		1
130	Optimizing control dynamic complexity and production schedule. International Journal on Interactive Design and Manufacturing, 2019, 13, 47-58.	1.3	1
131	A Temperature Model For Ultrasonic Measurement of Titanium Welds. HKIE Transactions, 1995, 2, 33-37.	1.9	O
132	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, , .		O
133	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	O
134	Additive Manufacturing of Cobalt-Based Organic Ferromagnetic Materials. , 2016, , .		0
135	Study of Electrochemical Performance of Li-lon Batteries Based on Simultaneous Measurement of a Three-Electrode System. , $2016, \ldots$		O
136	Multi-objective Ant Colony Optimization for Production Line Balance and Dynamic Complexity. , 2019, , .		0