

Yee Cheong Lam

List of Publications by Year in descending order

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305
papers

6,851
citations

71102

41
h-index

114465

63
g-index

306
all docs

306
docs citations

306
times ranked

6097
citing authors

#	ARTICLE	IF	CITATIONS
1	Gel Network Structure of Methylcellulose in Water. <i>Langmuir</i> , 2001, 17, 8062-8068.	3.5	226
2	Thermally Induced Association and Dissociation of Methylcellulose in Aqueous Solutions. <i>Langmuir</i> , 2002, 18, 7291-7298.	3.5	209
3	DC-biased AC-electroosmotic and AC-electrothermal flow mixing in microchannels. <i>Lab on A Chip</i> , 2009, 9, 802-809.	6.0	141
4	Strengthening acrylonitrile-butadiene-styrene (ABS) with nano-sized and micron-sized calcium carbonate. <i>Polymer</i> , 2005, 46, 243-252.	3.8	138
5	A review on the mechanical methods for evaluating coating adhesion. <i>Acta Mechanica</i> , 2014, 225, 431-452.	2.1	107
6	Continuous sorting and separation of microparticles by size using AC dielectrophoresis in a PDMS microfluidic device with Ag conducting PDMS composite electrodes. <i>Electrophoresis</i> , 2010, 31, 2622-2631.	2.4	103
7	An evolutionary approach for cooling system optimization in plastic injection moulding. <i>International Journal of Production Research</i> , 2004, 42, 2047-2061.	7.5	99
8	Reduction of droplet volume by controlling actuating waveforms in inkjet printing for micro-pattern formation. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 055010.	2.6	95
9	Magnetic nanochain integrated microfluidic biochips. <i>Nature Communications</i> , 2018, 9, 1743.	12.8	94
10	Controllable Gelation of Methylcellulose by a Salt Mixture. <i>Langmuir</i> , 2004, 20, 6134-6138.	3.5	92
11	Assessment of Joule heating and its effects on electroosmotic flow and electrophoretic transport of solutes in microfluidic channels. <i>Electrophoresis</i> , 2006, 27, 628-639.	2.4	88
12	Dielectrophoretic manipulation of particles in a modified microfluidic H filter with multi-insulating blocks. <i>Biomicrofluidics</i> , 2008, 2, 34105.	2.4	83
13	Fabrication and Analysis of Gecko-Inspired Hierarchical Polymer Nanosetae. <i>ACS Nano</i> , 2011, 5, 1897-1906.	14.6	82
14	CO_2 -laser micromachining of PMMA: the effect of polymer molecular weight. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 095020.	2.6	81
15	Patterned Surface with Controllable Wettability for Inkjet Printing of Flexible Printed Electronics. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4011-4016.	8.0	80
16	Surface analysis, hydrophilic enhancement, ageing behavior and flow in plasma modified cyclic olefin copolymer (COC)-based microfluidic devices. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 537-549.	7.8	76
17	Overview on fabrication of three-dimensional structures in multi-layer ceramic substrate. <i>Journal of the European Ceramic Society</i> , 2010, 30, 1973-1987.	5.7	75
18	Three-dimensional transient radiative transfer modeling using the finite-volume method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 86, 299-313.	2.3	73

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19	Mixing enhancement in microfluidic channel with a constriction under periodic electro-osmotic flow. <i>Biomicrofluidics</i> , 2010, 4, 014101.	2.4	73
20	Simulation of heat transfer and cure in pultrusion with a general-purpose finite element package. <i>Composites Science and Technology</i> , 2000, 60, 857-864.	7.8	71
21	A numerical approach to the modeling of polymer curing in fibre-reinforced composites. <i>Composites Science and Technology</i> , 1999, 59, 1003-1013.	7.8	70
22	Analysis of thermal residual stress in plastic injection molding. <i>Journal of Materials Processing Technology</i> , 2000, 101, 275-280.	6.3	68
23	Polymer hydrophilicity and hydrophobicity induced by femtosecond laser direct irradiation. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	61
24	Optimizing flow in plastic injection molding. <i>Journal of Materials Processing Technology</i> , 1997, 72, 333-341.	6.3	60
25	Efficient mixing of viscoelastic fluids in a microchannel at low Reynolds number. <i>Microfluidics and Nanofluidics</i> , 2006, 3, 101-108.	2.2	59
26	Controlled Fabrication of Multitiered Three-dimensional Nanostructures in Porous Alumina. <i>Advanced Functional Materials</i> , 2008, 18, 2057-2063.	14.9	56
27	Automated rib location and optimization for plate structures. <i>Structural and Multidisciplinary Optimization</i> , 2003, 25, 35-45.	3.5	53
28	Effects of salts in the Hofmeister series and solvent isotopes on the gelation mechanisms for hydroxypropylmethylcellulose hydrogels. <i>Journal of Applied Polymer Science</i> , 2008, 109, 363-372.	2.6	53
29	Three-dimensional finite-element/nodal-control-volume simulation of the pultrusion process with temperature-dependent material properties including resin shrinkage. <i>Composites Science and Technology</i> , 2001, 61, 1539-1547.	7.8	52
30	Numerical analysis of residual stress in hot-rolled steel strip on the run-out table. <i>Journal of Materials Processing Technology</i> , 2003, 132, 184-197.	6.3	52
31	Dynamic Cell Fractionation and Transportation Using Moving Dielectrophoresis. <i>Analytical Chemistry</i> , 2007, 79, 6975-6987.	6.5	52
32	A hybrid of mode-pursuing sampling method and genetic algorithm for minimization of injection molding warpage. <i>Materials & Design</i> , 2010, 31, 2118-2123.	5.1	52
33	Electrokinetically driven concentration of particles and cells by dielectrophoresis with DC-offset AC electric field. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 723-733.	2.2	52
34	Numerical simulation of the mould-filling process in resin-transfer moulding. <i>Composites Science and Technology</i> , 2000, 60, 845-855.	7.8	51
35	Femtosecond laser-induced damage morphologies of crystalline silicon by sub-threshold pulses. <i>Optics and Lasers in Engineering</i> , 2005, 43, 977-986.	3.8	50
36	Non-Newtonian fluid flow model for ceramic tape casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 280, 282-288.	5.6	49

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37	Feature-based CAD-CAE integration model for injection-moulded product design. <i>International Journal of Production Research</i> , 2002, 40, 3737-3750.	7.5	49
38	Curing optimization for pultruded composite sections. <i>Composites Science and Technology</i> , 2002, 62, 457-467.	7.8	49
39	Thermo-elastic-viscoplastic-damage model for self-heating and mechanical behavior of thermoplastic polymers. <i>International Journal of Plasticity</i> , 2019, 121, 227-243.	8.8	48
40	The effect of residual stress and its redistribution of fatigue crack growth. <i>Theoretical and Applied Fracture Mechanics</i> , 1989, 12, 59-66.	4.7	47
41	Enhancement of electrokinetically driven microfluidic T-mixer using frequency modulated electric field and channel geometry effects. <i>Electrophoresis</i> , 2009, 30, 3144-3152.	2.4	45
42	Gas-assisted injection molding: the effects of process variables and gas channel geometry. <i>Journal of Materials Processing Technology</i> , 2002, 121, 27-35.	6.3	43
43	Improved cure optimization in pultrusion with pre-heating and die-cooler temperature. <i>Composites Part A: Applied Science and Manufacturing</i> , 2003, 34, 1151-1159.	7.6	43
44	A CAD-CAE Integrated Injection Molding Design System. <i>Engineering With Computers</i> , 2002, 18, 80-92.	6.1	40
45	Joule heating and its effects on electrokinetic transport of solutes in rectangular microchannels. <i>Sensors and Actuators A: Physical</i> , 2007, 139, 221-232.	4.1	40
46	Cell Motion Model for Moving Dielectrophoresis. <i>Analytical Chemistry</i> , 2008, 80, 5454-5461.	6.5	40
47	Numerical investigation of particle migration in poiseuille flow of composite system. <i>Composites Science and Technology</i> , 2004, 64, 1001-1010.	7.8	39
48	Microstructure and rheology of stimuli-responsive microgel systems—effect of cross-linked density. <i>Advances in Colloid and Interface Science</i> , 2005, 113, 111-120.	14.7	39
49	Polymer-based device for efficient mixing of viscoelastic fluids. <i>Applied Physics Letters</i> , 2006, 88, 224103.	3.3	39
50	Phase-field simulation of impingement and spreading of micro-sized droplet on heterogeneous surface. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 131-148.	2.2	39
51	PP/LCP composites: effects of shear flow, extensional flow and nanofillers. <i>Composites Science and Technology</i> , 2003, 63, 1921-1929.	7.8	38
52	Integrated approach for modelling cure and crystallization kinetics of different polymers in 3D pultrusion simulation. <i>Journal of Materials Processing Technology</i> , 2006, 174, 178-182.	6.3	38
53	Micromixer based on viscoelastic flow instability at low Reynolds number. <i>Biomicrofluidics</i> , 2009, 3, 014106.	2.4	38
54	Improving surface smoothness of laser-fabricated microchannels for microfluidic application. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 095008.	2.6	38

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55	Surface Wettability Modification of Cyclic Olefin Polymer by Direct Femtosecond Laser Irradiation. <i>Nanomaterials</i> , 2015, 5, 1442-1453.	4.1	38
56	Mold surface roughness effects on cavity filling of polymer melt in micro injection molding. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 37, 1105-1112.	3.0	37
57	Micro fabrication of cyclic olefin copolymer (COC) based microfluidic devices. <i>Microsystem Technologies</i> , 2012, 18, 159-166.	2.0	37
58	Mass conservation in numerical simulation of resin flow. <i>Composites Part A: Applied Science and Manufacturing</i> , 2000, 31, 1061-1068.	7.6	36
59	On the effects of secondary phase on thermal conductivity of AlN ceramic substrates using a microstructural modeling approach. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 335, 281-289.	5.6	36
60	Functionalized MXene Enabled Sustainable Water Harvesting and Desalination. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000102.	5.3	36
61	Effect of nano-silica filler on the rheological and morphological properties of polypropylene/liquid-crystalline polymer blends. <i>Journal of Applied Polymer Science</i> , 2003, 87, 1484-1492.	2.6	35
62	Interfacial slip between polymer melts studied by confocal microscopy and rheological measurements. <i>Journal of Rheology</i> , 2003, 47, 795-807.	2.6	35
63	Antistick Postpassivation of High-Aspect Ratio Silicon Molds Fabricated by Deep-Reactive Ion Etching. <i>Journal of Microelectromechanical Systems</i> , 2006, 15, 84-93.	2.5	35
64	Continuous Cell Separation Using Dielectrophoresis through Asymmetric and Periodic Microelectrode Array. <i>Analytical Chemistry</i> , 2012, 84, 6463-6470.	6.5	35
65	A semi-empirical approach for modeling charged soft microgel particles. <i>Journal of Rheology</i> , 2004, 48, 915-926.	2.6	34
66	Numerical modeling of unidirectional stratified flow with and without phase change. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 477-486.	4.8	34
67	Modeling of dielectrophoretic force for moving dielectrophoresis electrodes. <i>Journal of Electrostatics</i> , 2008, 66, 514-525.	1.9	34
68	Large-strain thermo-mechanical behavior of cyclic olefin copolymers: Application to hot embossing and thermal bonding for the fabrication of microfluidic devices. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 93-105.	7.8	34
69	Effect of microchannel junction angle on two-phase liquid-gas Taylor flow. <i>Chemical Engineering Science</i> , 2019, 202, 417-428.	3.8	34
70	Design of Experiment for Optimization of Plasma-Polymerized Octafluorocyclobutane Coating on Very High Aspect Ratio Silicon Molds. <i>Langmuir</i> , 2006, 22, 10196-10203.	3.5	33
71	Wall slip of concentrated suspension melts in capillary flows. <i>Powder Technology</i> , 2007, 177, 162-169.	4.2	33
72	Thermoreversible gelation of hydroxypropylmethylcellulose in simulated body fluids. <i>Carbohydrate Polymers</i> , 2008, 72, 133-143.	10.2	33

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73	Constitutive equation with fractional derivatives for the generalized UCM model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2010, 165, 88-97.	2.4	33
74	Thermal debinding modeling of mass transport and deformation in powder-injection molding compact. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2002, 33, 477-488.	2.1	32
75	Depthwise averaging approach to cross-stream mixing in a pressure-driven microchannel flow. <i>Microfluidics and Nanofluidics</i> , 2005, 1, 218-226.	2.2	31
76	Simulation and Investigation of Factors Affecting High Aspect Ratio UV Embossing. <i>Langmuir</i> , 2005, 21, 2000-2007.	3.5	31
77	Power law fluids and Bingham plastics flow models for ceramic tape casting. <i>Journal of Materials Processing Technology</i> , 2002, 120, 215-225.	6.3	30
78	Microstructure and rheological properties of pH-responsive core-shell particles. <i>Polymer</i> , 2005, 46, 10066-10076.	3.8	30
79	Improvement of rectification effects in diffuser/nozzle structures with viscoelastic fluids. <i>Biomicrofluidics</i> , 2008, 2, 34101.	2.4	30
80	Dynamics and microstructure of charged soft nano-colloidal particles. <i>Polymer</i> , 2004, 45, 5515-5523.	3.8	29
81	Osmotic Compressibility of Soft Colloidal Systems. <i>Langmuir</i> , 2005, 21, 4283-4290.	3.5	29
82	Runner sizing and weld line positioning for plastics injection moulding with multiple gates. <i>Engineering With Computers</i> , 2006, 21, 218-224.	6.1	29
83	Picosecond Laser Surface Texturing of a Stavax Steel Substrate for Wettability Control. <i>Engineering</i> , 2018, 4, 816-821.	6.7	29
84	Microstructure and Rheology of Stimuli-Responsive Nanocolloidal Systems Effect of Ionic Strength. <i>Langmuir</i> , 2004, 20, 11380-11386.	3.5	28
85	Thermodynamic characteristics of gelation for methyl-cellulose hydrogels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 87, 475-482.	3.6	28
86	Comparison of different molds (epoxy, polymer and silicon) for microfabrication by hot embossing technique. <i>Sensors and Actuators B: Chemical</i> , 2012, 163, 233-241.	7.8	28
87	Effects of shear rate, viscosity ratio and liquid crystalline polymer content on morphological and mechanical properties of polycarbonate and LCP blends. <i>Polymer International</i> , 2002, 51, 398-405.	3.1	27
88	Modeling heat and degree of gelation for methyl cellulose hydrogels with NaCl additives. <i>Journal of Applied Polymer Science</i> , 2006, 101, 1620-1629.	2.6	27
89	Towards automatic shape modification in injection-moulded-plastic-part design. <i>International Journal of Advanced Manufacturing Technology</i> , 2006, 28, 495-503.	3.0	25
90	Experimental verification of Faradaic charging in ac electrokinetics. <i>Biomicrofluidics</i> , 2009, 3, 022405.	2.4	25

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91	Computation of the Diffusional Transformation of Continuously Cooled Austenite for Predicting the Coefficient of Thermal Expansion in the Numerical Analysis of Thermal Stress.. ISIJ International, 1996, 36, 1413-1419.	1.4	24
92	Effect of shear heating during injection molding on the morphology of PC/LCP blends. Acta Materialia, 2003, 51, 6269-6276.	7.9	24
93	Influence of plasma surface treatment on thermal bonding and flow behavior in Cyclic Olefin Copolymer (COC) based microfluidic devices. Vacuum, 2011, 85, 1102-1104.	3.5	24
94	Cavity balance for plastic injection molding. Polymer Engineering and Science, 2000, 40, 1273-1280.	3.1	23
95	Two-dimensional simulation of mass transport in polymer removal from a powder injection molding compact by thermal debinding. Journal of Materials Research, 2001, 16, 2436-2451.	2.6	22
96	A computer-aided system for an optimal moulding conditions design using a simulation-based approach. International Journal of Advanced Manufacturing Technology, 2003, 22, 574-586.	3.0	22
97	Numerical Analysis of the Flatness of Thin, Rolled Steel Strip on the Runout Table. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2007, 221, 241-254.	2.4	22
98	Effect of SDS on the gelation of hydroxypropylmethylcellulose hydrogels. Journal of Thermal Analysis and Calorimetry, 2008, 93, 495-501.	3.6	22
99	Automated Selection of Gate Location for Plastic Injection Molding Processing. Polymer-Plastics Technology and Engineering, 2005, 44, 229-242.	1.9	21
100	Effects of surface roughness on microinjection molding. Polymer Engineering and Science, 2007, 47, 2012-2019.	3.1	21
101	A computationally simple method for simulating the micro-embossing of thermoplastic layers. Journal of Micromechanics and Microengineering, 2009, 19, 075007.	2.6	21
102	Investigation on femtosecond laser irradiation energy in inducing hydrophobic polymer surfaces. Applied Surface Science, 2011, 257, 10427-10433.	6.1	21
103	Thermophoresis of charged colloidal particles in aqueous media " Effect of particle size. International Journal of Heat and Mass Transfer, 2016, 101, 1283-1291.	4.8	21
104	EFFECT OF TEMPERATURE AND INLET VELOCITY ON THE FLOW OF A NONNEWTONIAN FLUID. International Communications in Heat and Mass Transfer, 2004, 31, 1005-1013.	5.6	20
105	A GA/gradient hybrid approach for injection moulding conditions optimisation. Engineering With Computers, 2006, 21, 193-202.	6.1	20
106	DC-biased AC-electrokinetics: a conductivity gradient driven fluid flow. Lab on A Chip, 2011, 11, 4241.	6.0	20
107	Analysis on micro-mixing enhancement through a constriction under time periodic electroosmotic flow. Microfluidics and Nanofluidics, 2012, 12, 127-141.	2.2	20
108	Rapid fabrication of complex nanostructures using room-temperature ultrasonic nanoimprinting. Nature Communications, 2021, 12, 3146.	12.8	20

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109	The effects of simultaneous overload and spot heating on crack growth retardation in fatigue. <i>Engineering Fracture Mechanics</i> , 1993, 44, 567-572.	4.3	19
110	An investigation of thin PVDF films as fluctuating-strain-measuring and damage-monitoring devices. <i>Smart Materials and Structures</i> , 1993, 2, 208-216.	3.5	19
111	Simulation of polymer removal from a powder injection molding compact by thermal debinding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000, 31, 2597-2606.	2.2	19
112	Numerical simulation of Joule heating effect on sample band transport in capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2006, 561, 138-149.	5.4	19
113	Thermal bonding of PMMA: effect of polymer molecular weight. <i>Microsystem Technologies</i> , 2010, 16, 487-491.	2.0	19
114	Additive manufacturing of composite materials and functionally graded structures using selective heat melting technique. <i>Journal of Materials Science and Technology</i> , 2020, 47, 243-252.	10.7	19
115	Numerical results achieved with an inverse computational method for determining the constitutive parameters using the hot torsion test results. <i>Steel Research = Archiv Für Das Eisenhüttenwesen</i> , 1996, 67, 39-43.	0.3	18
116	Quantification of thermal energy deposited in silicon by multiple femtosecond laser pulses. <i>Optics Express</i> , 2006, 14, 9261.	3.4	18
117	Studies of polymer deformation and recovery in micro hot embossing. <i>Microsystem Technologies</i> , 2008, 14, 1055-1060.	2.0	18
118	Effects of polymer melt compressibility on mold filling in micro-injection molding. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 095019.	2.6	18
119	Performance characteristics of resizing algorithms for thickness optimization of plate structures. <i>Finite Elements in Analysis and Design</i> , 2000, 34, 159-174.	3.2	17
120	Energy model of the interfacial slip of polymer blends under steady shear. <i>Journal of Applied Polymer Science</i> , 2003, 89, 1464-1470.	2.6	17
121	Optimization design of control chart systems. <i>IIE Transactions</i> , 2004, 36, 447-455.	2.1	17
122	A fixed-grid method for chemical etching. <i>International Communications in Heat and Mass Transfer</i> , 2004, 31, 1123-1131.	5.6	17
123	Optimisation of gate location with design constraints. <i>International Journal of Advanced Manufacturing Technology</i> , 2004, 24, 560-566.	3.0	17
124	Optimization of injection moulding conditions with user-definable objective functions based on a genetic algorithm. <i>International Journal of Production Research</i> , 2004, 42, 1365-1390.	7.5	17
125	Runner sizing in multiple cavity injection mould by non-dominated sorting genetic algorithm. <i>Engineering With Computers</i> , 2009, 25, 237-245.	6.1	17
126	Selective surface modification of PET substrate for inkjet printing. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 71, 1749-1755.	3.0	17

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127	Vertical Squeezing Route Taylor Flow with Angled Microchannel Junctions. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 14307-14317.	3.7	17
128	Title is missing!. <i>Plasma Chemistry and Plasma Processing</i> , 2001, 21, 401-420.	2.4	16
129	Determination of phenomenological constants of shear-induced particle migration model. <i>Computational Materials Science</i> , 2004, 30, 223-229.	3.0	16
130	Joule heating and its effects on electroosmotic flow in microfluidic channels. <i>Journal of Physics: Conference Series</i> , 2006, 34, 925-930.	0.4	16
131	The influence of fatty acid coating on the rheological and mechanical properties of thermoplastic polyurethane (TPU)/nano-sized precipitated calcium carbonate (NPCC) composites. <i>Polymer Bulletin</i> , 2006, 57, 575-586.	3.3	16
132	Viscosity of COC polymer (TOPAS) near the glass transition temperature: Experimental and modeling. <i>Polymer Testing</i> , 2010, 29, 933-938.	4.8	16
133	High fidelity hot-embossing of COC microdevices using a one-step process without pre-annealing of polymer substrate. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 692-699.	7.8	16
134	Femtosecond laser-induced surface wettability modification of polystyrene surface. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016, 59, 1.	5.1	16
135	Picosecond laser micro/nano surface texturing of nickel for superhydrophobicity. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 115305.	2.8	16
136	Electroosmotic Flow in Microchannel with Black Silicon Nanostructures. <i>Micromachines</i> , 2018, 9, 229.	2.9	16
137	Influence of the polarity of ethylene-vinyl acetate copolymers on the morphology and mechanical properties of their uncompatibilised blends with polystyrene. <i>Polymer International</i> , 2002, 51, 325-337.	3.1	15
138	A fixed-grid approach for diffusion- and reaction-controlled wet chemical etching. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 2140-2149.	4.8	15
139	Integrated control chart systemâ€™ optimization of sample sizes, sampling intervals and control limits. <i>International Journal of Production Research</i> , 2005, 43, 563-582.	7.5	15
140	An investigation of the detrimental impact of trapped air in thermoplastic micro-embossing. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 065014.	2.6	15
141	An investigation into a micro-sized droplet impinging on a surface with sharp wettability contrast. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 425305.	2.8	15
142	Electroosmotic Flow Hysteresis for Dissimilar Anionic Solutions. <i>Analytical Chemistry</i> , 2016, 88, 8064-8073.	6.5	15
143	Dynamic Magnetic Nanomixers for Improved Microarray Assays by Eliminating Diffusion Limitation. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801022.	7.6	15
144	Inverse computational method for constitutive parameters obtained from torsion, plane-strain and axisymmetric compression tests. <i>Journal of Materials Processing Technology</i> , 1998, 83, 62-71.	6.3	14

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145	A study of substrate temperature distribution during ultrashort laser ablation of bulk copper. <i>Laser and Particle Beams</i> , 2007, 25, 155-159.	1.0	14
146	Influence of substrate cooling on femtosecond laser machined hole depth and diameter. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 89, 559-563.	2.3	14
147	Numerical analyses of peel demolding for UV embossing of high aspect ratio micro-patterning. <i>Microsystem Technologies</i> , 2009, 15, 581-593.	2.0	14
148	Study of deformation and porosity evolution of low temperature co-fired ceramic for embedded structures fabrication. <i>Journal of the European Ceramic Society</i> , 2009, 29, 2737-2745.	5.7	14
149	Electroosmotic flow hysteresis for dissimilar ionic solutions. <i>Biomicrofluidics</i> , 2015, 9, 024113.	2.4	14
150	Mechanical response of lightweight hollow truss metal oxide lattices. <i>Materialia</i> , 2019, 8, 100439.	2.7	14
151	Mixed mode fatigue crack growth and the strain energy density factor. <i>Theoretical and Applied Fracture Mechanics</i> , 1989, 12, 67-72.	4.7	13
152	Acceleration of the subspace iteration method by selective repeated inverse iteration. <i>Finite Elements in Analysis and Design</i> , 1994, 18, 309-317.	3.2	13
153	Accelerated reduction of subspace upper bound by multiple inverse iteration. <i>Computing Systems in Engineering: an International Journal</i> , 1995, 6, 67-72.	0.5	13
154	An inverse computational method for determining the constitutive parameters using the hot torsion test results. <i>Steel Research = Archiv für Das Eisenhüttenwesen</i> , 1996, 67, 22-25.	0.3	13
155	Interfacial properties of polycarbonate/liquid-crystal polymer and polystyrene/high-impact polystyrene polymer pairs under shear deformation. <i>Journal of Applied Polymer Science</i> , 2003, 87, 258-269.	2.6	13
156	SURFACE DAMAGE OF CRYSTALLINE SILICON BY LOW FLUENCE FEMTOSECOND LASER PULSES. <i>Surface Review and Letters</i> , 2004, 11, 217-221.	1.1	13
157	Experimental investigation of key parameters on the effects of cavity surface roughness in microinjection molding. <i>Polymer Engineering and Science</i> , 2008, 48, 490-495.	3.1	13
158	Carbon burnout and densification of self-constrained LTCC for fabrication of embedded structures in a multi-layer platform. <i>Journal of the European Ceramic Society</i> , 2009, 29, 457-463.	5.7	13
159	Ionic Origin of Electro-osmotic Flow Hysteresis. <i>Scientific Reports</i> , 2016, 6, 22329.	3.3	13
160	Numerical Investigation of Nanostructure Orientation on Electroosmotic Flow. <i>Micromachines</i> , 2020, 11, 971.	2.9	13
161	Electroosmotic Flow Hysteresis for Fluids with Dissimilar pH and Ionic Species. <i>Micromachines</i> , 2021, 12, 1031.	2.9	13
162	The effect of intermittent heating on fatigue crack growth. <i>Theoretical and Applied Fracture Mechanics</i> , 1990, 14, 37-41.	4.7	12

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