

Yee Cheong Lam

List of Publications by Year in descending order

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305
papers

6,851
citations

71102

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114465

63
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all docs

306
docs citations

306
times ranked

6097
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Foci Laser Separation of Sapphire Wafers with Partial Thickness Scanning. <i>Micromachines</i> , 2022, 13, 506.	2.9	3
2	A hybrid machine learning approach to determine the optimal processing window in femtosecond laser-induced periodic nanostructures. <i>Journal of Materials Processing Technology</i> , 2022, 308, 117716.	6.3	8
3	Mechanism and effects of surface morphology on absorption characteristics in ultrashort pulse laser processing of sapphire. <i>Applied Surface Science</i> , 2021, 542, 148734.	6.1	9
4	Electrical Resistance Reduction Induced with CO2 Laser Single Line Scan of Polyimide. <i>Micromachines</i> , 2021, 12, 227.	2.9	6
5	Rapid fabrication of complex nanostructures using room-temperature ultrasonic nanoimprinting. <i>Nature Communications</i> , 2021, 12, 3146.	12.8	20
6	Electroosmotic Flow Hysteresis for Fluids with Dissimilar pH and Ionic Species. <i>Micromachines</i> , 2021, 12, 1031.	2.9	13
7	Vertical Squeezing Route Taylor Flow with Angled Microchannel Junctions. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 14307-14317.	3.7	17
8	Multi-Foci Division of Nonlinear Energy Absorption on Ultrashort Pulse Laser Singulation of Sapphire Wafers. <i>Micromachines</i> , 2021, 12, 1328.	2.9	1
9	Numerical Investigation of Nanostructure Orientation on Electroosmotic Flow. <i>Micromachines</i> , 2020, 11, 971.	2.9	13
10	Functionalized MXene Enabled Sustainable Water Harvesting and Desalination. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000102.	5.3	36
11	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
12	Mechanical response of lightweight hollow truss metal oxide lattices. <i>Materialia</i> , 2019, 8, 100439.	2.7	14
13	Femtosecond Laser-Induced Nonlinear Absorption in Thick Polystyrene. <i>Lasers in Manufacturing and Materials Processing</i> , 2019, 6, 59-66.	2.2	1
14	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
15	Interaction of ultrasound with microporous polyethylene scaffolds. <i>Applied Acoustics</i> , 2019, 153, 102-109.	3.3	6
16	Thermal effect of femtosecond laser polystyrene processing. <i>Optics and Laser Technology</i> , 2019, 117, 244-250.	4.6	8
17	Investigation on polycarbonate surface wetting property with femtosecond laser irradiation and ultrasonic treatment. <i>Optics and Laser Technology</i> , 2019, 115, 316-324.	4.6	10
18	Elastic Turbulence of Aqueous Polymer Solution in Multi-Stream Micro-Channel Flow. <i>Micromachines</i> , 2019, 10, 110.	2.9	1

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19	Femtosecond laser pulse inducing hydrophilicity and hydrophobicity on polycarbonate surfaces. <i>Journal of Laser Applications</i> , 2019, 31, 022504.	1.7	2
20	Effect of microchannel junction angle on two-phase liquid-gas Taylor flow. <i>Chemical Engineering Science</i> , 2019, 202, 417-428.	3.8	34
21	Dynamic Magnetic Nanomixers for Improved Microarray Assays by Eliminating Diffusion Limitation. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801022.	7.6	15
22	Magnetic nanochain integrated microfluidic biochips. <i>Nature Communications</i> , 2018, 9, 1743.	12.8	94
23	Picosecond laser micro/nano surface texturing of nickel for superhydrophobicity. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 115305.	2.8	16
24	Elastic-plastic behavior analysis of an arbitrarily oriented crack near an elliptical inhomogeneity with generalized Irwin correction. <i>European Journal of Mechanics, A/Solids</i> , 2018, 67, 177-186.	3.7	8
25	Picosecond Laser Surface Texturing of a Stavax Steel Substrate for Wettability Control. <i>Engineering</i> , 2018, 4, 816-821.	6.7	29
26	Electroosmotic Flow in Microchannel with Black Silicon Nanostructures. <i>Micromachines</i> , 2018, 9, 229.	2.9	16
27	Effect of nanostructures orientation on electroosmotic flow in a microfluidic channel. <i>Nanotechnology</i> , 2017, 28, 255303.	2.6	12
28	pH Change in Electroosmotic Flow Hysteresis. <i>Analytical Chemistry</i> , 2017, 89, 9394-9399.	6.5	12
29	Femtosecond laser-induced surface wettability modification of polystyrene surface. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016, 59, 1.	5.1	16
30	Ionic Origin of Electro-osmotic Flow Hysteresis. <i>Scientific Reports</i> , 2016, 6, 22329.	3.3	13
31	Initiation and growth of microcracks near a grain boundary precipitation in coarse-grained zones of welded materials. <i>International Journal of Solids and Structures</i> , 2016, 102-103, 155-162.	2.7	6
32	Electroosmotic Flow Hysteresis for Dissimilar Anionic Solutions. <i>Analytical Chemistry</i> , 2016, 88, 8064-8073.	6.5	15
33	Biofilm development of an opportunistic model bacterium analysed at high spatiotemporal resolution in the framework of a precise flow cell. <i>Npj Biofilms and Microbiomes</i> , 2016, 2, 16023.	6.4	5
34	Modelling the deformation of nickel foil during manufacturing of nanostructures on injection moulding tool inserts. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
35	Thermophoresis of charged colloidal particles in aqueous media – Effect of particle size. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 1283-1291.	4.8	21
36	Modelling the deformations during the manufacturing of nanostructures on non-planar surfaces for injection moulding tool inserts. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 035014.	2.6	1

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37	Surface Modification of Polystyrene by Femtosecond Laser Irradiation. Journal of Laser Micro Nanoengineering, 2016, 11, 253-256.	0.1	12
38	Visualization of polymer relaxation in viscoelastic turbulent micro-channel flow. Scientific Reports, 2015, 5, 16633.	3.3	8
39	Chaos analysis of viscoelastic chaotic flows of polymeric fluids in a micro-channel. AIP Advances, 2015, 5, 077150.	1.3	2
40	Surface Wettability Modification of Cyclic Olefin Polymer by Direct Femtosecond Laser Irradiation. Nanomaterials, 2015, 5, 1442-1453.	4.1	38
41	Electroosmotic flow hysteresis for dissimilar ionic solutions. Biomicrofluidics, 2015, 9, 024113.	2.4	14
42	Thermal Effect on Microchannel Electro-osmotic Flow With Consideration of Thermodiffusion. Journal of Heat Transfer, 2015, 137, .	2.1	9
43	Dielectrophoretic cell motion model over periodic microelectrodes with unit-cell approach. Microfluidics and Nanofluidics, 2015, 18, 873-885.	2.2	7
44	Energy benchmark of polymeric embossing systems namely hot embossing systems and ultrasonic systems. , 2014, , .		1
45	An investigation into a micro-sized droplet impinging on a surface with sharp wettability contrast. Journal Physics D: Applied Physics, 2014, 47, 425305.	2.8	15
46	A review on the mechanical methods for evaluating coating adhesion. Acta Mechanica, 2014, 225, 431-452.	2.1	107
47	Phase-field simulation of impingement and spreading of micro-sized droplet on heterogeneous surface. Microfluidics and Nanofluidics, 2014, 17, 131-148.	2.2	39
48	Selective surface modification of PET substrate for inkjet printing. International Journal of Advanced Manufacturing Technology, 2014, 71, 1749-1755.	3.0	17
49	Influence of hydrothermal exposure on surface characteristics and corrosion behaviors of anodized titanium. Surface and Interface Analysis, 2014, 46, 307-313.	1.8	4
50	Patterned Surface with Controllable Wettability for Inkjet Printing of Flexible Printed Electronics. ACS Applied Materials & Interfaces, 2014, 6, 4011-4016.	8.0	80
51	Finite element simulation of ultrasonic embossing on polymers. , 2014, , .		2
52	Simulation of impingement and spreading of micro-droplet on non-homogeneous solid surface. , 2013, , .		0
53	Direction dependence of displacement time for two-fluid electroosmotic flow. Biomicrofluidics, 2012, 6, 12816-1281617.	2.4	11
54	Numerical study of dc-biased ac-electrokinetic flow over symmetrical electrodes. Biomicrofluidics, 2012, 6, 12817-1281710.	2.4	6

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55	Multiple-stream flow and mixing of dissimilar polymeric solutions in abrupt microfluidic contraction/expansion geometries. Proceedings of SPIE, 2012, , .	0.8	1
56	Experimental observations of flow instabilities and rapid mixing of two dissimilar viscoelastic liquids. AIP Advances, 2012, 2, .	1.3	3
57	Numerical simulation of aluminum alloy 6061 micro-mold fabrication for the production of polymeric microstructures by micro-hot-embossing. Journal of Micromechanics and Microengineering, 2012, 22, 085005.	2.6	0
58	Continuous Cell Separation Using Dielectrophoresis through Asymmetric and Periodic Microelectrode Array. Analytical Chemistry, 2012, 84, 6463-6470.	6.5	35
59	Evaluation of roughness, hardness, and strength of AA 6061 molds for manufacturing polymeric microdevices. International Journal of Advanced Manufacturing Technology, 2012, 60, 1215-1221.	3.0	1
60	Electrokinetically driven concentration of particles and cells by dielectrophoresis with DC-offset AC electric field. Microfluidics and Nanofluidics, 2012, 12, 723-733.	2.2	52
61	Comparison of different molds (epoxy, polymer and silicon) for microfabrication by hot embossing technique. Sensors and Actuators B: Chemical, 2012, 163, 233-241.	7.8	28
62	Analysis on micro-mixing enhancement through a constriction under time periodic electroosmotic flow. Microfluidics and Nanofluidics, 2012, 12, 127-141.	2.2	20
63	Micro fabrication of cyclic olefin copolymer (COC) based microfluidic devices. Microsystem Technologies, 2012, 18, 159-166.	2.0	37
64	DC-biased AC-electrokinetics: a conductivity gradient driven fluid flow. Lab on A Chip, 2011, 11, 4241.	6.0	20
65	Fabrication and Analysis of Gecko-Inspired Hierarchical Polymer Nanosetae. ACS Nano, 2011, 5, 1897-1906.	14.6	82
66	Effects of polymer melt compressibility on mold filling in micro-injection molding. Journal of Micromechanics and Microengineering, 2011, 21, 095019.	2.6	18
67	Improving surface smoothness of laser-fabricated microchannels for microfluidic application. Journal of Micromechanics and Microengineering, 2011, 21, 095008.	2.6	38
68	Investigation on femtosecond laser irradiation energy in inducing hydrophobic polymer surfaces. Applied Surface Science, 2011, 257, 10427-10433.	6.1	21
69	Particle streaming and separation using dielectrophoresis through discrete periodic microelectrode array. Microfluidics and Nanofluidics, 2011, 11, 579-591.	2.2	9
70	A modified quasi-creep model for assessment of deformation of topas COC substrates in the thermal bonding of microfluidic devices: Experiments and modeling. Journal of Applied Polymer Science, 2011, 122, 867-873.	2.6	9
71	New deformation phenomenon for micro-formability of polycrystalline materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1906-1909.	5.6	3
72	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

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73	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
74	Rheological (visco-elastic behaviour) analysis of cyclic olefin copolymers with application to hot embossing for microfabrication. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 085029.	2.6	7
75	Effect of polymer orientation on pattern replication in a micro-hot embossing process: experiments and numerical simulation. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 065007.	2.6	4
76	Determination of pressure drop for concentrated suspension in a capillary flow. <i>Polymer Composites</i> , 2010, 31, 792-798.	4.6	1
77	Morphology and geometry of CO ₂ -laser machined PMMA microchannels: influence of molecular weight and number of cut passes. <i>International Journal of Nanomanufacturing</i> , 2010, 6, 85.	0.3	1
78	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
79	Thermal bonding of PMMA: effect of polymer molecular weight. <i>Microsystem Technologies</i> , 2010, 16, 487-491.	2.0	19
80	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
81	Viscosity corrections for concentrated suspension in capillary flow with wall slip. <i>AIChE Journal</i> , 2010, 56, 1447-1455.	3.6	7
82	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
83	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
84	Viscosity of COC polymer (TOPAS) near the glass transition temperature: Experimental and modeling. <i>Polymer Testing</i> , 2010, 29, 933-938.	4.8	16
85	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
86	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
87	Mixing enhancement in microfluidic channel with a constriction under periodic electro-osmotic flow. <i>Biomicrofluidics</i> , 2010, 4, 014101.	2.4	73
88	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
89	Manufacturing of an aluminum alloy mold for micro-hot embossing of polymeric micro-devices. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 055020.	2.6	10
90	Laser soft marking on silicon wafer. <i>Journal of Applied Physics</i> , 2010, 107, 053107.	2.5	4

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91	A method for the accelerated simulation of micro-embossed topographies in thermoplastic polymers. Journal of Micromechanics and Microengineering, 2010, 20, 065001.	2.6	7
92	Experimental verification of Faradaic charging in ac electrokinetics. Biomicrofluidics, 2009, 3, 022405.	2.4	25
93	Buried hot wire anemometer for fluid velocity measurements. , 2009, , .		7
94	Experimental study of influential process parameters in hot embossing for micropattern formation on low temperature cofirable ceramic green substrates. Journal of Vacuum Science & Technology B, 2009, 27, 1437.	1.3	2
95	A computationally simple method for simulating the micro-embossing of thermoplastic layers. Journal of Micromechanics and Microengineering, 2009, 19, 075007.	2.6	21
96	Flexible Micro-Structured Mold for UV Micro-Casting of Polymeric Microdevices. Advanced Materials Research, 2009, 74, 7-10.	0.3	0
97	Enhancement of electrokinetically driven microfluidic T&E mixer using frequency modulated electric field and channel geometry effects. Electrophoresis, 2009, 30, 3144-3152.	2.4	45
98	End pressure corrections in capillary rheometry of concentrated suspensions. Journal of Applied Polymer Science, 2009, 114, 1738-1745.	2.6	2
99	Study on micro hot embossing of low temperature co-firable ceramic green substrates. Microsystem Technologies, 2009, 15, 1225-1232.	2.0	4
100	Numerical analyses of peel demolding for UV embossing of high aspect ratio micro-patterning. Microsystem Technologies, 2009, 15, 581-593.	2.0	14
101	Three-dimensional modeling of roughness effects on microthickness filling in injection mold cavity. International Journal of Advanced Manufacturing Technology, 2009, 45, 481-489.	3.0	6
102	Runner sizing in multiple cavity injection mould by non-dominated sorting genetic algorithm. Engineering With Computers, 2009, 25, 237-245.	6.1	17
103	Carbon burnout and densification of self-constrained LTCC for fabrication of embedded structures in a multi-layer platform. Journal of the European Ceramic Society, 2009, 29, 457-463.	5.7	13
104	Study of deformation and porosity evolution of low temperature co-fired ceramic for embedded structures fabrication. Journal of the European Ceramic Society, 2009, 29, 2737-2745.	5.7	14
105	Modeling of mass transfers in a porous green compact with two-component binder during thermal debinding. Chemical Engineering Science, 2009, 64, 2837-2850.	3.8	8
106	Bio-fluid uptake and release of Indomethacin of direct-compressed HPMC tablets. Carbohydrate Polymers, 2009, 75, 282-286.	10.2	8
107	Polymer hydrophilicity and hydrophobicity induced by femtosecond laser direct irradiation. Applied Physics Letters, 2009, 95, .	3.3	61
108	DC-biased AC-electroosmotic and AC-electrothermal flow mixing in microchannels. Lab on A Chip, 2009, 9, 802-809.	6.0	141

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109	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
110	Micromixer based on viscoelastic flow instability at low Reynolds number. <i>Biomicrofluidics</i> , 2009, 3, 014106.	2.4	38
111	Seeing the invisible laser markings. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 042004.	2.8	11
112	Effect of SDS on the gelation of hydroxypropylmethylcellulose hydrogels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 93, 495-501.	3.6	22
113	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
114	Studies of polymer deformation and recovery in micro hot embossing. <i>Microsystem Technologies</i> , 2008, 14, 1055-1060.	2.0	18
115	Stretched Cavity-Assisted Molding of Micrometer and Submicrometer Photopolymerized Hydrogel Particles. <i>Small</i> , 2008, 4, 69-76.	10.0	7
116	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
117	Gelation of methylcellulose hydrogels under isothermal conditions. <i>Journal of Applied Polymer Science</i> , 2008, 107, 2101-2108.	2.6	8
118	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
119	Controlled Fabrication of Multitiered Three-Dimensional Nanostructures in Porous Alumina. <i>Advanced Functional Materials</i> , 2008, 18, 2057-2063.	14.9	56
120	Non-isothermal analysis of concentrated suspension slip flow with particle migration. <i>Composites Science and Technology</i> , 2008, 68, 398-409.	7.8	3
121	Thermoreversible gelation of hydroxypropylmethylcellulose in simulated body fluids. <i>Carbohydrate Polymers</i> , 2008, 72, 133-143.	10.2	33
122	Modeling of dielectrophoretic force for moving dielectrophoresis electrodes. <i>Journal of Electrostatics</i> , 2008, 66, 514-525.	1.9	34
123	Improvement of rectification effects in diffuser/nozzle structures with viscoelastic fluids. <i>Biomicrofluidics</i> , 2008, 2, 34101.	2.4	30
124	Cell Motion Model for Moving Dielectrophoresis. <i>Analytical Chemistry</i> , 2008, 80, 5454-5461.	6.5	40
125	Dielectrophoretic manipulation of particles in a modified microfluidic H filter with multi-insulating blocks. <i>Biomicrofluidics</i> , 2008, 2, 34105.	2.4	83
126	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

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127	Effect of solvent state and isothermal conditions on gelation of methylcellulose hydrogels. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 1611-1623.	3.5	11
128	Process Development for Realization of Embedded Structures in Multi-Layer Ceramics Platform using Carbon Fugitive Material. , 2008, , .		0
129	Micro embossing of ceramic green substrates for micro devices. , 2008, , .		1
130	Geometry Effect on the Electrokinetic Instability of the Electroosmotic Flow in Microfluidic Channels. , 2008, , .		0
131	Modeling pattern dependencies in the micron-scale embossing of polymeric layers. Proceedings of SPIE, 2008, , .	0.8	2
132	Numerical simulation of cavity roughness effects on melt filling in microinjection molding. Advances in Polymer Technology, 2008, 27, 89-97.	1.7	4
133	Chaotic Mixing Based on Viscoelasticity. , 2008, , 248-254.		1
134	Predicting quarter-buckling and herringbone buckling in rolled strip. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2007, 221, 143-150.	2.1	7
135	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
136	A Total Concentration Fixed-Grid Method for Two-Dimensional Wet Chemical Etching. Journal of Heat Transfer, 2007, 129, 509-516.	2.1	9
137	A study of substrate temperature distribution during ultrashort laser ablation of bulk copper. Laser and Particle Beams, 2007, 25, 155-159.	1.0	14
138	Integration of Glass Layer for Meso and Micro-System Applications. , 2007, , .		2
139	Dynamic Cell Fractionation and Transportation Using Moving Dielectrophoresis. Analytical Chemistry, 2007, 79, 6975-6987.	6.5	52
140	Multi-layer Lamination of Embedded Channels in Low Shrinkage Ceramics based Platform. , 2007, , .		0
141	Joule Heating Induced Heat Transfer and Its Effects on Electrokinetic Mixing in T-Shape Microfluidic Channels. , 2007, , .		0
142	Numerical and experimental investigations on thermal debinding of polymeric binder of powder injection molding compact. Chemical Engineering Science, 2007, 62, 6927-6938.	3.8	12
143	Wall slip of concentrated suspension melts in capillary flows. Powder Technology, 2007, 177, 162-169.	4.2	33
144	Effects of surface roughness on microinjection molding. Polymer Engineering and Science, 2007, 47, 2012-2019.	3.1	21

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145	Influence of substrate cooling on femtosecond laser machined hole depth and diameter. Applied Physics A: Materials Science and Processing, 2007, 89, 559-563.	2.3	14
146	Thermodynamic characteristics of gelation for methyl-cellulose hydrogels. Journal of Thermal Analysis and Calorimetry, 2007, 87, 475-482.	3.6	28
147	Direct observation of the temperature field during ablation of materials by multiple femtosecond laser pulses. Applied Surface Science, 2007, 253, 7290-7294.	6.1	7
148	Joule heating and its effects on electrokinetic transport of solutes in rectangular microchannels. Sensors and Actuators A: Physical, 2007, 139, 221-232.	4.1	40
149	Joule heating and its effects on electroosmotic flow in microfluidic channels. Journal of Physics: Conference Series, 2006, 34, 925-930.	0.4	16
150	Polymer-based device for efficient mixing of viscoelastic fluids. Applied Physics Letters, 2006, 88, 224103.	3.3	39
151	Experimental studies on polymer deformation and flow in micro hot embossing. , 2006, , .		1
152	Antistick Postpassivation of High-Aspect Ratio Silicon Molds Fabricated by Deep-Reactive Ion Etching. Journal of Microelectromechanical Systems, 2006, 15, 84-93.	2.5	35
153	Design of Experiment for Optimization of Plasma-Polymerized Octafluorocyclobutane Coating on Very High Aspect Ratio Silicon Molds. Langmuir, 2006, 22, 10196-10203.	3.5	33
154	Quantification of thermal energy deposited in silicon by multiple femtosecond laser pulses. Optics Express, 2006, 14, 9261.	3.4	18
155	Theoretical and experimental study of electroosmosis-driven two-fluid displacement in a microcapillary. , 2006, , .		0
156	Study of electroosmosis-driven two-liquid displacement flow in a microcapillary. Journal of Physics: Conference Series, 2006, 34, 283-290.	0.4	2
157	Numerical simulation of Joule heating effect on sample band transport in capillary electrophoresis. Analytica Chimica Acta, 2006, 561, 138-149.	5.4	19
158	Modeling two-dimensional diffusion-controlled wet chemical etching using a total concentration approach. International Journal of Heat and Mass Transfer, 2006, 49, 1480-1488.	4.8	11
159	Total concentration approach for three-dimensional diffusion-controlled wet chemical etching. International Journal of Heat and Mass Transfer, 2006, 49, 3408-3416.	4.8	6
160	Integrated approach for modelling cure and crystallization kinetics of different polymers in 3D pultrusion simulation. Journal of Materials Processing Technology, 2006, 174, 178-182.	6.3	38
161	Efficient mixing of viscoelastic fluids in a microchannel at low Reynolds number. Microfluidics and Nanofluidics, 2006, 3, 101-108.	2.2	59
162	Towards automatic shape modification in injection-moulded-plastic-part design. International Journal of Advanced Manufacturing Technology, 2006, 28, 495-503.	3.0	25

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163	A GA/gradient hybrid approach for injection moulding conditions optimisation. <i>Engineering With Computers</i> , 2006, 21, 193-202.	6.1	20
164	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
165	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
166	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
167	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
168	A numerical model for etching through a circular hole. <i>Journal of Physics: Conference Series</i> , 2006, 34, 417-422.	0.4	0
169	Wall Slip of Suspension Flowing in Capillary at Elevated Temperature. <i>Solid State Phenomena</i> , 2006, 111, 87-90.	0.3	2
170	Factors that Affect Fibrillation of the Liquid Crystalline Polymer (LCP)Phase in an Injection Moulded Polycarbonate / LCP Blend. <i>Key Engineering Materials</i> , 2006, 312, 133-138.	0.4	1
171	DISPERSION CHARACTERISTICS OF PASSIVE ANALYTES IN A MICROFLUIDIC SLIT. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2006, 42, 93.	0.5	0
172	Microstructure and rheological properties of pH-responsive core-shell particles. <i>Polymer</i> , 2005, 46, 10066-10076.	3.8	30
173	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
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