

Peter Van Puyvelde

List of Publications by Year in descending order

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142
papers

5,257
citations

76326

40
h-index

102487

66
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144
all docs

144
docs citations

144
times ranked

4959
citing authors

#	ARTICLE	IF	CITATIONS
1	Covalent organic frameworks for membrane separation. <i>Chemical Society Reviews</i> , 2019, 48, 2665-2681.	38.1	733
2	Rheology and morphology of compatibilized polymer blends. <i>Current Opinion in Colloid and Interface Science</i> , 2001, 6, 457-463.	7.4	187
3	Effect of PA12 powder reuse on coalescence behaviour and microstructure of SLS parts. <i>European Polymer Journal</i> , 2017, 92, 250-262.	5.4	140
4	Characterization of polyamide powders for determination of laser sintering processability. <i>European Polymer Journal</i> , 2016, 75, 163-174.	5.4	135
5	Interfacial elasticity and coalescence suppression in compatibilized polymer blends. <i>Journal of Rheology</i> , 2004, 48, 143-158.	2.6	128
6	Effect of Confinement on Droplet Breakup in Sheared Emulsions. <i>Langmuir</i> , 2006, 22, 3972-3974.	3.5	106
7	Super-hydrophobic 3D printed polysulfone membranes with a switchable wettability by self-assembled candle soot for efficient gravity-driven oil/water separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25401-25409.	10.3	103
8	Sustainable bisphenols from renewable softwood lignin feedstock for polycarbonates and cyanate ester resins. <i>Green Chemistry</i> , 2017, 19, 2561-2570.	9.0	102
9	Hydrogel assisted interfacial polymerization for advanced nanofiltration membranes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3238-3245.	10.3	99
10	Toward Functional Polyester Building Blocks from Renewable Glycolaldehyde with Sn Cascade Catalysis. <i>ACS Catalysis</i> , 2013, 3, 1786-1800.	11.2	97
11	Review on morphology development of immiscible blends in confined shear flow. <i>Polymer</i> , 2008, 49, 5363-5372.	3.8	94
12	Effect of confinement on the steady-state behavior of single droplets during shear flow. <i>Journal of Rheology</i> , 2007, 51, 139-153.	2.6	80
13	Structure architecture of micro/nanoscale ZIF-L on a 3D printed membrane for a superhydrophobic and underwater superoleophobic surface. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2723-2729.	10.3	79
14	Semi-crystalline feedstock for filament-based 3D printing of polymers. <i>Progress in Polymer Science</i> , 2021, 118, 101411.	24.7	79
15	The effect of block copolymer architecture on the coalescence and interfacial elasticity in compatibilized polymer blends. <i>Journal of Rheology</i> , 2005, 49, 783-798.	2.6	75
16	Methyl methacrylate as a healing agent for self-healing cementitious materials. <i>Smart Materials and Structures</i> , 2011, 20, 125016.	3.5	71
17	Effect of compatibilization on the breakup of polymeric drops in shear flow. <i>Journal of Rheology</i> , 2001, 45, 1007-1019.	2.6	70
18	Flow-Induced Crystallization of PB-1: From the Low Shear Rate Region up to Processing Rates. <i>Macromolecules</i> , 2006, 39, 9215-9222.	4.8	67

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19	Promising bulk production of a potentially benign bisphenol A replacement from a hardwood lignin platform. <i>Green Chemistry</i> , 2018, 20, 1050-1058.	9.0	66
20	Facile synthesis of Kevlar nanofibrous membranes via regeneration of hydrogen bonds for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2019, 573, 612-620.	8.2	63
21	Effect of Particles on the Flow-Induced Crystallization of Polypropylene at Processing Speeds. <i>Macromolecules</i> , 2010, 43, 2933-2941.	4.8	61
22	Effect of Powder Size and Shape on the SLS Processability and Mechanical Properties of a TPU Elastomer. <i>Physics Procedia</i> , 2016, 83, 971-980.	1.2	61
23	Anisotropy and Orientation of the Microstructure in Viscous Emulsions during Shear Flow. <i>Langmuir</i> , 1998, 14, 1612-1617.	3.5	60
24	Evaluation and comparison of routes to obtain pressure coefficients from high-pressure capillary rheometry data. <i>Rheologica Acta</i> , 2007, 46, 495-505.	2.4	59
25	Hydrophilic nanofiltration membranes with reduced humic acid fouling fabricated from copolymers designed by introducing carboxyl groups in the pendant benzene ring. <i>Journal of Membrane Science</i> , 2018, 563, 655-663.	8.2	58
26	Influence of Carbon Nanoparticle Addition (and Impurities) on Selective Laser Melting of Pure Copper. <i>Materials</i> , 2019, 12, 2469.	2.9	58
27	New promising polymer for organic solvent nanofiltration: Oxidized poly (arylene sulfide sulfone). <i>Journal of Membrane Science</i> , 2018, 549, 438-445.	8.2	54
28	Assessing polymer powder flow for the application of laser sintering. <i>Powder Technology</i> , 2015, 286, 151-155.	4.2	52
29	Generalized behavior of the breakup of viscous drops in confinements. <i>Journal of Rheology</i> , 2010, 54, 1047-1060.	2.6	48
30	Insights on shear rheology of inks for extrusion-based 3D bioprinting. <i>Bioprinting</i> , 2021, 22, e00129.	5.8	48
31	Breakup of filaments in blends during simple shear flow. <i>Journal of Rheology</i> , 2000, 44, 1401-1415.	2.6	46
32	Effect of molecular and processing parameters on the flow-induced crystallization of poly-1-butene. Part 1: Kinetics and morphology. <i>Polymer</i> , 2006, 47, 5871-5879.	3.8	46
33	Effect of marangoni stresses on the deformation and coalescence in compatibilized immiscible polymer blends. <i>Polymer Engineering and Science</i> , 2002, 42, 1956-1964.	3.1	45
34	Random Copolymers from Polyamide 11 and Polyamide 12 by Reactive Extrusion: Synthesis, Eutectic Phase Behavior, and Polymorphism. <i>Macromolecules</i> , 2016, 49, 876-890.	4.8	45
35	Diffuse interface modeling of the morphology and rheology of immiscible polymer blends. <i>Physics of Fluids</i> , 2003, 15, 2567-2575.	4.0	44
36	Steady-shear rheological properties of model compatibilized blends. <i>Journal of Rheology</i> , 2004, 48, 725-744.	2.6	44

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37	Simultaneous Synchrotron WAXD and Fast Scanning (Chip) Calorimetry: On the (Isothermal) Crystallization of HDPE and PA11 at High Supercoolings and Cooling Rates up to 200 Å°C $\times 10^1$. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1184-1191.	3.9	44
38	Structure Development in Confined Polymer Blends: A Steady-State Shear Flow and Relaxation. <i>Langmuir</i> , 2006, 22, 2273-2280.	3.5	43
39	Production of polyamide-12 membranes for microfiltration through selective laser sintering. <i>Journal of Membrane Science</i> , 2017, 525, 157-162.	8.2	42
40	On the Effect of Particle Size, Shape, Concentration, and Aggregation on the Flow-Induced Crystallization of Polymers. <i>Macromolecules</i> , 2013, 46, 3425-3434.	4.8	41
41	Effect of reactive compatibilization on the interfacial slip in nylon-6/EPR blends. <i>Polymer Engineering and Science</i> , 2003, 43, 71-77.	3.1	40
42	Influence of shear flow on polymorphic behavior and microstructural development during palm oil crystallization. <i>European Journal of Lipid Science and Technology</i> , 2009, 111, 290-302.	1.5	39
43	Analysis of the material properties involved in laser sintering of thermoplastic polyurethane. <i>Additive Manufacturing</i> , 2017, 15, 12-19.	3.0	39
44	Rheo-Optical Probing of Relaxational Phenomena in Immiscible Polymer Blends. <i>Journal of Colloid and Interface Science</i> , 1998, 200, 86-94.	9.4	38
45	Rheological behavior of polyamide 11 with varying initial moisture content. <i>Journal of Applied Polymer Science</i> , 2005, 97, 666-670.	2.6	38
46	Effect of molding conditions and moisture content on the mechanical properties of compression molded glassy, wheat gluten bioplastics. <i>Industrial Crops and Products</i> , 2013, 44, 480-487.	5.2	37
47	Small-angle light scattering study of droplet break-up in emulsions and polymer blends. <i>Chemical Engineering Science</i> , 1998, 53, 2231-2239.	3.8	36
48	Interfacial tension of aqueous biopolymer mixtures close to the critical point. <i>International Journal of Biological Macromolecules</i> , 2004, 34, 29-35.	7.5	35
49	Development of a rheological method to characterize palm oil crystallizing under shear. <i>European Journal of Lipid Science and Technology</i> , 2008, 110, 521-529.	1.5	35
50	Effect of confinement and viscosity ratio on the dynamics of single droplets during transient shear flow. <i>Journal of Rheology</i> , 2008, 52, 1459-1475.	2.6	35
51	Barriers and Chemistry in a Bottle: Mechanisms in Today's Oxygen Barriers for Tomorrow's Materials. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 665.	2.5	35
52	Morphology evolution of aqueous biopolymer emulsions during a weak shear flow. <i>Food Hydrocolloids</i> , 2003, 17, 327-332.	10.7	33
53	Assessment of Crystallinity Development during Fused Filament Fabrication through Fast Scanning Chip Calorimetry. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2676.	2.5	33
54	Microconfined equiviscous droplet deformation: Comparison of experimental and numerical results. <i>Physics of Fluids</i> , 2008, 20, .	4.0	32

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55	Bulk rheometry at high frequencies: a review of experimental approaches. <i>Rheologica Acta</i> , 2020, 59, 1-22.	2.4	32
56	Rheo-optical measurement of the interfacial tension of aqueous biopolymer mixtures. <i>Food Hydrocolloids</i> , 2002, 16, 395-402.	10.7	31
57	Effect of Shear Flow on the Phase Behavior of an Aqueous Gelatin~Dextran Emulsion. <i>Biomacromolecules</i> , 2004, 5, 276-283.	5.4	31
58	3D printed chemically and mechanically robust membrane by selective laser sintering for separation of oil/water and immiscible organic mixtures. <i>Chemical Engineering Journal</i> , 2020, 385, 123816.	12.7	29
59	Density Fluctuations during the Early Stages of Polymer Crystallization: An Overview. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 255-273.	3.6	28
60	Breakup Criteria for Confined Droplets: Effects of Compatibilization and Component Viscoelasticity. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 214-222.	3.6	28
61	Regioselective synthesis of renewable bisphenols from 2,3-pentanedione and their application as plasticizers. <i>Green Chemistry</i> , 2014, 16, 1999-2007.	9.0	28
62	Regioselective synthesis, isomerisation, <i>in vitro</i> oestrogenic activity, and copolymerisation of bisguaiacol F (BGF) isomers. <i>Green Chemistry</i> , 2019, 21, 6622-6633.	9.0	28
63	A practical development of engineering simulation-assisted educational AR environments. <i>Education for Chemical Engineers</i> , 2021, 35, 81-93.	4.8	28
64	3D Printing of Poly(lactic acid). <i>Advances in Polymer Science</i> , 2017, , 139-158.	0.8	27
65	Nano/microstructure decorated thin film composite poly (arylene sulfide sulfone) membrane constructed by induced fouling in organic solvent ultrafiltration. <i>Chemical Engineering Journal</i> , 2018, 348, 180-190.	12.7	26
66	Suspension-like hardening behavior of HDPE and time-hardening superposition. <i>Rheologica Acta</i> , 2012, 51, 97-109.	2.4	25
67	A novel approach for the closure of large damage in self-healing elastomers using magnetic particles. <i>Polymer</i> , 2020, 204, 122819.	3.8	25
68	Controlling wheat gluten cross-linking for high temperature processing. <i>Industrial Crops and Products</i> , 2015, 72, 119-124.	5.2	24
69	In situ SAXS under shear unveils the gelation of aqueous starch suspensions and the impact of added amylose~lipid complexes. <i>Carbohydrate Polymers</i> , 2011, 84, 1141-1150.	10.2	22
70	On the Onset of Oriented Structures in Flow-Induced Crystallization of Polymers: A Comparison of Experimental Techniques. <i>Macromolecules</i> , 2011, 44, 1783-1787.	4.8	21
71	RheoDSC: A hyphenated technique for the simultaneous measurement of calorimetric and rheological evolutions. <i>Review of Scientific Instruments</i> , 2008, 79, 023905.	1.3	20
72	Boosting PLA melt strength by controlling the chirality of co-monomer incorporation. <i>Chemical Science</i> , 2021, 12, 5672-5681.	7.4	20

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73	Synthesis of Novel Renewable Polyesters and Polyamides with Olefin Metathesis. ACS Sustainable Chemistry and Engineering, 2016, 4, 5943-5952.	6.7	19
74	Improvement in impact resistance of polylactic acid by masticated and compatibilized natural rubber. Iranian Polymer Journal (English Edition), 2016, 25, 169-178.	2.4	19
75	Quantifying the dispersion quality of partially aggregated colloidal dispersions by high frequency rheology. Soft Matter, 2017, 13, 7897-7906.	2.7	19
76	Selective laser sintering of polystyrene: a single-layer approach. Plastics, Rubber and Composites, 2018, 47, 2-8.	2.0	19
77	A guide towards safe, functional and renewable BPA alternatives by rational molecular design: structureâ€“property and structureâ€“toxicity relationships. Polymer Chemistry, 2021, 12, 5870-5901.	3.9	19
78	Mobile Augmented Reality Laboratory for Learning Acidâ€“Base Titration. Journal of Chemical Education, 2022, 99, 531-537.	2.3	19
79	Dynamic light scattering during shear: measurements of diffusion coefficients. Polymer, 1999, 40, 1353-1357.	3.8	18
80	RheoDSC: design and validation of a new hybrid measurement technique. Journal of Thermal Analysis and Calorimetry, 2009, 98, 675-681.	3.6	18
81	Timeâ€“temperature-transformation (TTT) and temperatureâ€“conversion-transformation (TxT) cure diagrams by RheoDSC: Combined rheometry and calorimetry on an epoxy-amine thermoset. Reactive and Functional Polymers, 2013, 73, 332-339.	4.1	18
82	Effect of short chain branching upon the crystallization of model polyamides-11. Polymer, 2005, 46, 10331-10338.	3.8	17
83	RheoDSC Analysis of Hardening of Semi-Crystalline Polymers during Quiescent Isothermal Crystallization. International Polymer Processing, 2010, 25, 304-310.	0.5	17
84	Amino acids and poly(amino acids) as nucleating agents for poly(lactic acid). Journal of Polymer Engineering, 2015, 35, 169-180.	1.4	17
85	Influence of flow on the global crystallization kinetics of iso-tactic polypropylene. Polymer Testing, 2006, 25, 460-469.	4.8	16
86	Deformation and orientation of single droplets during shear flow: combined effects of confinement and compatibilization. Rheologica Acta, 2011, 50, 231-242.	2.4	16
87	TTS in LAOS: validation of time-temperature superposition under large amplitude oscillatory shear. Rheologica Acta, 2011, 50, 795-807.	2.4	16
88	Effect of thermal treatments on the laser sinterability of cryogenically milled polybutene-1. Materials and Design, 2018, 153, 15-23.	7.0	16
89	Removal of organic pollutants in coking wastewater based on coal-based adsorbents: A pilot-scale study of static adsorption and flotation. Journal of Environmental Chemical Engineering, 2021, 9, 106844.	6.7	16
90	Magnetic Self-Healing Composites: Synthesis and Applications. Molecules, 2022, 27, 3796.	3.8	15

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91	Rheology and Morphology of Highly Compatibilized Polymer Blends. <i>Macromolecular Symposia</i> , 2006, 233, 51-58.	0.7	14
92	Flow-induced crystallization in poly-1-butene: the shish-kebab transition. <i>International Journal of Material Forming</i> , 2008, 1, 667-670.	2.0	14
93	Processing rigid wheat gluten biocomposites for high mechanical performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 79, 74-81.	7.6	14
94	Stress Contributions in Colloidal Suspensions: The Smooth, the Rough, and the Hairy. <i>Physical Review Letters</i> , 2019, 122, 218001.	7.8	14
95	On the pressure correction of capillary melt rheology data. <i>Rheologica Acta</i> , 2011, 50, 117-124.	2.4	13
96	Poly(alanine): Structure and Stability of the <i>d</i> and <i>l</i> -Enantiomers. <i>Biomacromolecules</i> , 2016, 17, 183-191.	5.4	13
97	Viscoelastic cluster densification in sheared colloidal gels. <i>Soft Matter</i> , 2020, 16, 2437-2447.	2.7	13
98	Exploring the potential usage of 3D printed membranes combined with PVDF coating in direct contact membrane distillation. <i>Desalination</i> , 2021, 513, 115134.	8.2	13
99	The Influence of Calcium Stearate-Coated Calcium Carbonate and Talc on the Quiescent and Flow-Induced Crystallization of Isotactic Poly(propylene). <i>Macromolecular Materials and Engineering</i> , 2011, 296, 603-616.	3.6	12
100	Flow-induced crystallization studied in the RheoDSC device: Quantifying the importance of edge effects. <i>Rheologica Acta</i> , 2015, 54, 1-8.	2.4	12
101	The Extent of Interlayer Bond Strength during Fused Filament Fabrication of Nylon Copolymers: An Interplay between Thermal History and Crystalline Morphology. <i>Polymers</i> , 2021, 13, 2677.	4.5	12
102	Modelling and scaling of dichroism during relaxation in emulsions and polymer blends. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 2505-2511.	2.8	11
103	Morphology Development During Microconfined Flow of Viscous Emulsions. <i>Applied Rheology</i> , 2006, 16, 242-247.	5.2	11
104	Droplet dynamics in mixed flow conditions: Effect of shear/elongation balance and viscosity ratio. <i>Journal of Rheology</i> , 2010, 54, 1285-1306.	2.6	11
105	The Influence of Melt and Process Parameters on the Quality and Occurrence of Part Defects in Water-assisted Injection Molded Tubes. <i>International Polymer Processing</i> , 2011, 26, 551-559.	0.5	11
106	Flow-induced phase behaviour and structure development in aqueous emulsion of associative biopolymers. <i>Food Hydrocolloids</i> , 2012, 27, 264-268.	10.7	11
107	Droplet dynamics in sub-critical complex flows. <i>Rheologica Acta</i> , 2009, 48, 359-371.	2.4	10
108	Influence of temperature on the flowability of polymer powders in laser sintering. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	10

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109	Ultrafast imaging of soft materials during shear flow. Korea Australia Rheology Journal, 2019, 31, 229-240.	1.7	10
110	Transient interfacial tension and morphology evolution in partially miscible polymer blends. Journal of Colloid and Interface Science, 2008, 328, 48-57.	9.4	9
111	Solvent quality as a key factor for shear-induced mixing in biopolymer emulsions. Food Hydrocolloids, 2009, 23, 262-270.	10.7	9
112	Single Droplet Break-up in Controlled Mixed Flows. ACS Applied Materials & Interfaces, 2010, 2, 2140-2146.	8.0	9
113	On the Pressure Dependency of the Bagley Correction. International Polymer Processing, 2013, 28, 558-564.	0.5	9
114	Tuning intermolecular pores of resorcin[4]arene-based membranes for enhanced nanofiltration performance. Journal of Membrane Science, 2020, 610, 118282.	8.2	9
115	Assessment of the environmental sustainability of solvent-less fatty acid ketonization to bio-based ketones for wax emulsion applications. Green Chemistry, 2021, 23, 7137-7161.	9.0	9
116	Laser sintering of self-healable and recyclable thermoset networks. European Polymer Journal, 2022, 175, 111383.	5.4	9
117	Effect of thermomechanical history on the crystallization of poly(ether block amide). Polymer Engineering and Science, 2008, 48, 2418-2425.	3.1	8
118	Water Penetration Behavior in Water-assisted Injection Molding (WAIM): A Study of Product Quality for Different Process and Material Parameters. International Polymer Processing, 2012, 27, 602-616.	0.5	8
119	Surfactant Assisted Emulsion Crystallization of Hydrogenated Castor Oil. Crystal Growth and Design, 2015, 15, 635-641.	3.0	8
120	Flow-Induced Crystallization of Polyamide-6. International Polymer Processing, 2018, 33, 327-335.	0.5	8
121	Effect of adding a reactive plasticizer on the mechanical, thermal, and morphology properties of nylon toughened wheat gluten materials. Journal of Applied Polymer Science, 2018, 135, 45931.	2.6	7
122	Defect Occurrence in Water-Assisted Injection-Molded Products: Definition and Responsible Formation Mechanisms. Advances in Polymer Technology, 2015, 34, .	1.7	6
123	Wheat gluten/LDPE based thermoplastic vulcanizates containing LDPE-g-MA as compatibilizer. Industrial Crops and Products, 2015, 74, 824-838.	5.2	6
124	Developing rigid gliadin based biocomposites with high mechanical performance. Composites Part A: Applied Science and Manufacturing, 2016, 85, 76-83.	7.6	6
125	Effect of aqueous and alcoholic shear treatments on the properties of rigid plastics from wheat gluten. Industrial Crops and Products, 2015, 77, 146-155.	5.2	5
126	Mobile Augmented Reality Apps in Education: Exploring the User Experience Through Large-Scale Public Reviews. Lecture Notes in Computer Science, 2021, , 428-450.	1.3	5

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127	The crystallization of PA11 , PA12 , and their random copolymers at increasing supercooling: From eutectic segregation to mesomorphic solid solutions. <i>Polymer Crystallization</i> , 2021, 4, e10216.	0.8	5
128	Humins Blending in Thermoreversible Diels-Alder Networks for Stiffness Tuning and Enhanced Healing Performance for Soft Robotics. <i>Polymers</i> , 2022, 14, 1657.	4.5	5
129	Development of a method for pressure-free volumetric dilatometry of polymer melts and solids. <i>Polymer Testing</i> , 2018, 69, 219-224.	4.8	4
130	On the Existence of a Stress-Optical Relation in Immiscible Polymer Blends. <i>Langmuir</i> , 2000, 16, 3740-3747.	3.5	3
131	Study of morphological hysteresis in partially immiscible polymers. <i>Rheologica Acta</i> , 2009, 48, 343-358.	2.4	3
132	Rheology-Morphology Relationships in Immiscible Polymer Blends. , 2005, , 421-440.		3
133	Direct Evidence for Breakup of Liquid Fibrils via Rayleigh Instabilities in Model Polymer Blends in Step-up Experiments. <i>Langmuir</i> , 2004, 20, 3498-3500.	3.5	2
134	Fracture toughness of unidirectional flax fiber composites with rigid gliadin matrix. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 1163-1174.	3.1	2
135	Biopolymer systems for low-fat foods. , 2003, , 109-129.		1
136	Droplet dynamics in sub-critical eccentric flows. <i>International Journal of Material Forming</i> , 2008, 1, 775-778.	2.0	1
137	The effect of shear history on urea containing gliadin solutions. <i>Journal of Polymer Engineering</i> , 2017, 37, 861-867.	1.4	1
138	Modeling and Scaling of Dichroism Relaxation in Immiscible Polymer Blends. , 1998, , 88-89.		1
139	Sunny Rheology School in Leuven. <i>Applied Rheology</i> , 2003, 13, 317.	5.2	0
140	Density Fluctuations in Crystallizing Polymers: Fact or Fiction?. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
141	8th Annual European Rheology Conference (ERC 2013). <i>Applied Rheology</i> , 2013, 23, 185-186.	5.2	0
142	Rheology and Morphology of Immiscible Polymer Blends. , 1998, , 37-40.		0