

Sindee L Simon

List of Publications by Year in descending order

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136
papers

5,981
citations

66343

42
h-index

82547

72
g-index

141
all docs

141
docs citations

141
times ranked

4176
citing authors

#	ARTICLE	IF	CITATIONS
1	The melting behavior of aluminum nanoparticles. <i>Thermochimica Acta</i> , 2007, 463, 32-40.	2.7	339
2	Volume and enthalpy recovery of polystyrene. <i>Polymer</i> , 2001, 42, 2555-2567.	3.8	231
3	Using 20-million-year-old amber to test the super-Arrhenius behaviour of glass-forming systems. <i>Nature Communications</i> , 2013, 4, 1783.	12.8	216
4	The glass transition temperature versus the fictive temperature. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 2603-2612.	3.1	215
5	Cure kinetics of a thermosetting liquid dicyanate ester monomer/high-Tg polycyanurate material. <i>Journal of Applied Polymer Science</i> , 1993, 47, 461-485.	2.6	210
6	Modeling the evolution of the dynamic mechanical properties of a commercial epoxy during cure after gelation. <i>Journal of Applied Polymer Science</i> , 2000, 76, 495-508.	2.6	174
7	Effect of Cation Symmetry on the Morphology and Physicochemical Properties of Imidazolium Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6572-6584.	2.6	169
8	Temperature-modulated differential scanning calorimetry: theory and application. <i>Thermochimica Acta</i> , 2001, 374, 55-71.	2.7	144
9	Dependence of size and size distribution on reactivity of aluminum nanoparticles in reactions with oxygen and MoO ₃ . <i>Thermochimica Acta</i> , 2006, 444, 117-127.	2.7	133
10	<i>50th Anniversary Perspective</i>: Challenges in the Dynamics and Kinetics of Glass-Forming Polymers. <i>Macromolecules</i> , 2017, 50, 6333-6361.	4.8	132
11	Calorimetric Glass Transition of Single Polystyrene Ultrathin Films. <i>Macromolecules</i> , 2013, 46, 562-570.	4.8	127
12	Structural relaxation of stacked ultrathin polystyrene films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 2741-2753.	2.1	126
13	Calorimetric glass transition temperature and absolute heat capacity of polystyrene ultrathin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 3518-3527.	2.1	108
14	Physical aging of a polyetherimide: Volume recovery and its comparison to creep and enthalpy measurements. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 929-936.	2.1	105
15	Enthalpy recovery of a glass-forming liquid constrained in a nanoporous matrix: Negative pressure effects. <i>European Physical Journal E</i> , 2002, 8, 209-216.	1.6	92
16	Reaction kinetics and TTT cure diagrams for off-stoichiometric ratios of a high-Tg epoxy/amine system. <i>Journal of Applied Polymer Science</i> , 1992, 46, 1245-1270.	2.6	90
17	Enthalpy Recovery of Polystyrene: Does a Long-Term Aging Plateau Exist?. <i>Macromolecules</i> , 2013, 46, 5815-5821.	4.8	89
18	Enthalpy recovery, creep and creep recovery measurements during physical aging of amorphous selenium. <i>Journal of Non-Crystalline Solids</i> , 2003, 324, 242-255.	3.1	86

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19	Effect of Alkyl Chain Branching on Physicochemical Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 1078-1091.	1.9	84
20	Physical aging of a polyetherimide: Creep and DSC measurements. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 2457-2468.	2.1	79
21	Low-korganosilicate films prepared by tetravinyltetramethylcyclotetrasiloxane. <i>Journal of Applied Physics</i> , 2002, 92, 1033-1038.	2.5	69
22	Thermosetting cure diagrams: Calculation and application. <i>Journal of Applied Polymer Science</i> , 1994, 53, 709-727.	2.6	66
23	Chain length dependence of the thermodynamic properties of linear and cyclic alkanes and polymers. <i>Journal of Chemical Physics</i> , 2005, 122, 084907.	3.0	66
24	Curing of Bisphenol M Dicyanate Ester under Nanoscale Constraint. <i>Macromolecules</i> , 2008, 41, 1310-1317.	4.8	66
25	Confinement effects on the glass transition of hydrogen bonded liquids. <i>Journal of Chemical Physics</i> , 2007, 127, 194501.	3.0	62
26	Enthalpy Recovery of Poly(ether imide): Experiment and Model Calculations Incorporating Thermal Gradients. <i>Macromolecules</i> , 1997, 30, 4056-4063.	4.8	61
27	Thermophysical Properties of Imidazolium-Based Ionic Liquids: The Effect of Aliphatic versus Aromatic Functionality. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 2717-2724.	1.9	61
28	Structural recovery of a single polystyrene thin film using nanocalorimetry to extend the aging time and temperature range. <i>Thermochimica Acta</i> , 2015, 603, 135-141.	2.7	60
29	Glass transition temperature of thin polycarbonate films measured by flash differential scanning calorimetry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1462-1468.	2.1	59
30	Surface Chemistry Effects on the Reactivity and Properties of Nanoconfined Bisphenol M Dicyanate Ester in Controlled Pore Glass. <i>Macromolecules</i> , 2009, 42, 3573-3579.	4.8	57
31	Characterization of the molecular structure of amorphous selenium using recoverable creep compliance measurements. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 790-801.	3.1	56
32	Trimerization of Monocyanate Ester in Nanopores. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7727-7734.	2.6	55
33	Interpretation of the dynamic heat capacity observed in glass-forming liquids. <i>Journal of Chemical Physics</i> , 1997, 107, 8678-8685.	3.0	54
34	Signatures of Structural Recovery in Polystyrene by Nanocalorimetry. <i>Macromolecules</i> , 2016, 49, 2365-2374.	4.8	53
35	Effects of entanglement concentration on Tg and local segmental motions. <i>European Physical Journal E</i> , 2002, 8, 201-207.	1.6	49
36	Origin of the divergence of the timescales for volume and enthalpy recovery. <i>Polymer</i> , 2007, 48, 1464-1470.	3.8	49

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37	Methyl methacrylate polymerization in nanoporous confinement. <i>Polymer</i> , 2011, 52, 4093-4098.	3.8	48
38	Measurement of the limiting fictive temperature over five decades of cooling and heating rates. <i>Thermochimica Acta</i> , 2015, 603, 123-127.	2.7	48
39	Modeling volume relaxation of amorphous polymers: Modification of the equation for the relaxation time in the KAHR model. <i>Polymer</i> , 2012, 53, 3613-3620.	3.8	46
40	Enthalpy recovery of polymeric glasses: Is the theoretical limiting liquid line reached?. <i>Polymer</i> , 2006, 47, 4781-4788.	3.8	45
41	The glass transition: its measurement and underlying physics. <i>Handbook of Thermal Analysis and Calorimetry</i> , 2002, , 49-109.	1.6	44
42	A Viscoelastic Model for Predicting Isotropic Residual Stresses in Thermosetting Materials: Effects of Processing Parameters. <i>Journal of Composite Materials</i> , 2001, 35, 826-848.	2.4	43
43	On the viscoelastic Poisson's ratio in amorphous polymers. <i>Journal of Rheology</i> , 2010, 54, 1009-1022.	2.6	43
44	Equilibrium heat capacity of the glass-forming poly(α -methyl styrene) far below the Kauzmann temperature: The case of the missing glass transition. <i>Journal of Chemical Physics</i> , 2003, 119, 3590-3593.	3.0	42
45	Cure-induced and thermal stresses in a constrained epoxy resin. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006, 37, 585-591.	7.6	42
46	Structural relaxation in the glass: Evidence for a path dependence of the relaxation time. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4763-4768.	3.1	42
47	Structural recovery of a single polystyrene thin film using Flash DSC at low aging temperatures. <i>Polymer</i> , 2016, 96, 182-187.	3.8	41
48	The kinetics of the glass transition and physical aging in germanium selenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2013, 368, 63-70.	3.1	38
49	Rheology of Imidazolium-Based Ionic Liquids with Aromatic Functionality. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11953-11959.	2.6	37
50	Quantitative analysis of errors in TMDSC in the glass transition region. <i>Thermochimica Acta</i> , 2000, 348, 77-89.	2.7	36
51	Effect of structure on enthalpy relaxation of polycarbonate: Experiments and modeling. <i>Polymer</i> , 2008, 49, 3554-3560.	3.8	36
52	Fragility of ionic liquids measured by Flash differential scanning calorimetry. <i>Thermochimica Acta</i> , 2017, 654, 121-129.	2.7	36
53	The effects of structural recovery and thermal lag in temperature-modulated DSC measurements. <i>Thermochimica Acta</i> , 1997, 307, 1-10.	2.7	35
54	The glass transition in athermal poly(α -methyl styrene)/oligomer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 418-430.	2.1	34

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55	Modeling methyl methacrylate free radical polymerization in nanoporous confinement. <i>Polymer</i> , 2011, 52, 1539-1545.	3.8	34
56	Trimerization Reaction Kinetics and T_g Depression of Polycyanurate under Nanoconfinement. <i>Macromolecules</i> , 2015, 48, 4692-4701.	4.8	33
57	Conversion-temperature-property diagram for a liquid dicyanate ester/high- T_g polycyanurate thermosetting system. <i>Journal of Applied Polymer Science</i> , 1994, 51, 1741-1752.	2.6	32
58	Volume recovery of polystyrene: evolution of the characteristic relaxation time. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 470-480.	3.1	32
59	Analysis of the development of isotropic residual stresses in a bismaleimide/spiro orthocarbonate thermosetting resin for composite materials. <i>Journal of Applied Polymer Science</i> , 2003, 88, 227-244.	2.6	31
60	Viscoelastic properties and residual stresses in polyhedral oligomeric silsesquioxane-reinforced epoxy matrices. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 2719-2732.	2.1	31
61	Bulk and shear rheology of a symmetric three-arm star polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1233-1244.	2.1	31
62	Complete Set of Enthalpy Recovery Data Using Flash DSC: Experiment and Modeling. <i>Macromolecules</i> , 2018, 51, 1549-1558.	4.8	31
63	An Ultrastable Polymeric Glass: Amorphous Fluoropolymer with Extreme Fictive Temperature Reduction by Vacuum Pyrolysis. <i>Macromolecules</i> , 2017, 50, 4562-4574.	4.8	30
64	T_g and reactivity at the nanoscale. <i>Thermochimica Acta</i> , 2009, 492, 45-50.	2.7	29
65	Modeling methyl methacrylate free radical polymerization: Reaction in hydrophobic nanopores. <i>Polymer</i> , 2012, 53, 3261-3268.	3.8	29
66	Investigation on hexamethyldisilazane vapor treatment of plasma-damaged nanoporous organosilicate films. <i>Applied Surface Science</i> , 2006, 252, 6323-6331.	6.1	28
67	Effects of freeze-drying on the glass temperature of cyclic polystyrenes. <i>Polymer</i> , 2003, 44, 8025-8032.	3.8	27
68	The T_g -effective paradox: new measurements towards a resolution. <i>Polymer</i> , 2005, 46, 733-739.	3.8	27
69	The effect of nanoconfinement on methyl methacrylate polymerization: T_g , molecular weight, and tacticity. <i>Polymer</i> , 2014, 55, 4959-4965.	3.8	27
70	Supercritical carbon dioxide extraction of porogens for the preparation of ultralow-dielectric-constant films. <i>Applied Physics Letters</i> , 2003, 82, 4328-4330.	3.3	26
71	Pressure relaxation of polystyrene and its comparison to the shear response. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 3375-3385.	2.1	26
72	Modeling methyl methacrylate free radical polymerization: Reaction in hydrophilic nanopores. <i>Polymer</i> , 2012, 53, 3238-3244.	3.8	26

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73	Polystyrene freeze-dried from dilute solution: T _g depression and residual solvent effects. <i>Polymer</i> , 2006, 47, 3520-3527.	3.8	25
74	Consequence of Excess Configurational Entropy on Fragility: The Case of a Polymer-Oligomer Blend. <i>Physical Review Letters</i> , 2009, 103, 185702.	7.8	25
75	Formulation of Spray-Dried Phenytoin Loaded Poly(μ -Caprolactone) Microcarrier Intended for Brain Delivery to Treat Epilepsy. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 1018-1030.	3.3	24
76	Experimental evidence against the existence of an ideal glass transition. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 672-675.	3.1	24
77	Bulk and shear rheology of silica/polystyrene nanocomposite: Reinforcement and dynamics. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 621-632.	2.1	24
78	Kinetic Study of Trimerization of Monocyanate Ester in Nanopores. <i>Journal of Physical Chemistry B</i> , 2011, 115, 925-932.	2.6	23
79	Thermodynamic scaling of polymer dynamics versus T $\hat{=}$ T _g scaling. <i>Journal of Chemical Physics</i> , 2011, 135, 074901.	3.0	23
80	Enthalpy recovery of ultrathin polystyrene film using Flash DSC. <i>Polymer</i> , 2018, 143, 40-45.	3.8	23
81	Linear Rheology of a Series of Second-Generation Dendronized Wedge Polymers. <i>Macromolecules</i> , 2019, 52, 2063-2074.	4.8	23
82	The glass transition and enthalpy recovery of a single polystyrene ultrathin film using Flash DSC. <i>Journal of Chemical Physics</i> , 2017, 146, 203329.	3.0	22
83	Viscoelastic Shear Response and Network Structure in Polycyanurates. <i>Macromolecules</i> , 2007, 40, 2246-2256.	4.8	21
84	Melting behavior of n -alkanes in anodic aluminum oxide (AAO) nanopores using Flash differential scanning calorimetry. <i>Thermochimica Acta</i> , 2018, 663, 157-164.	2.7	21
85	Thermal and Rheological Analysis of Polystyrene-Grafted Silica Nanocomposites. <i>Macromolecules</i> , 2020, 53, 2123-2135.	4.8	21
86	A new pressurizable dilatometer for measuring the time-dependent bulk modulus and pressure-volume-temperature properties of polymeric materials. <i>Review of Scientific Instruments</i> , 2009, 80, 053903.	1.3	20
87	Thermodynamic analysis of pure and impurity doped pentaerythritol tetranitrate crystals grown at room temperature. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 89, 475-478.	3.6	18
88	Effect of crosslink density on the pressure relaxation response of polycyanurate networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 2477-2486.	2.1	17
89	Isoconversion analysis of the glass transition. <i>Thermochimica Acta</i> , 2008, 468, 87-93.	2.7	16
90	The viscoelastic behavior of polymer/oligomer blends. <i>Polymer</i> , 2010, 51, 4899-4906.	3.8	16

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91	Synthesis of polymers in nanoreactors: A tool for manipulating polymer properties. <i>Polymer</i> , 2020, 211, 123112.	3.8	16
92	Measurement of Thermal Conductivity using TMDSC: Solution to the Heat Flow Problem. <i>Journal of Reinforced Plastics and Composites</i> , 1999, 18, 559-571.	3.1	15
93	Supercritical CO ₂ extraction of porogen phase: An alternative route to nanoporous dielectrics. <i>Journal of Materials Research</i> , 2004, 19, 3224-3233.	2.6	15
94	Crystallization and Vitrification of a Cyanurate Trimer in Nanopores. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7754-7761.	2.6	15
95	Physical aging by periodic creep and interrupted creep experiments. <i>Journal of Chemical Physics</i> , 1999, 111, 2235-2241.	3.0	14
96	Supercritical carbon dioxide extraction to produce low-k plasma enhanced chemical vapor deposited dielectric films. <i>Applied Physics Letters</i> , 2002, 81, 4407-4409.	3.3	14
97	Pressure–volume–temperature and glass transition behavior of silica/polystyrene nanocomposite. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1131-1138.	2.1	14
98	Equilibrium free-radical polymerization of methyl methacrylate under nanoconfinement. <i>Polymer</i> , 2015, 66, 173-178.	3.8	14
99	Viscoelastic properties of amorphous boron trioxide. <i>Journal of Non-Crystalline Solids</i> , 2001, 289, 9-16.	3.1	13
100	Pressure–volume–temperature behavior of two polycyanurate networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2509-2517.	2.1	13
101	The glass transition of trinitrotoluene (TNT) by flash DSC. <i>Thermochimica Acta</i> , 2015, 620, 36-39.	2.7	12
102	Relation between mobility factor and diffusion factor for thermoset cure. <i>Thermochimica Acta</i> , 2005, 437, 179-189.	2.7	11
103	Kinetic study of alkyl methacrylate polymerization in nanoporous confinement over a broad temperature range. <i>Polymer</i> , 2020, 205, 122868.	3.8	11
104	A Viscoelastic Model for Predicting Isotropic Residual Stresses in Thermosetting Materials: Effects of Processing Parameters. <i>Journal of Composite Materials</i> , 2001, 35, 826-848.	2.4	10
105	Dynamic and isothermal thermogravimetric analysis of a polycyanurate thermosetting system. <i>Polymer Engineering and Science</i> , 1998, 38, 566-572.	3.1	9
106	Modeling structural recovery in glasses: An analysis of the peak-shift method. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 2027-2036.	2.1	9
107	Time Dependent Volume and Enthalpy Responses in Polymers. , 2000, , 18-46.		9
108	Improving the thermal stability of a polymer through liquid carbon dioxide extraction of a metal compound. <i>Polymer Degradation and Stability</i> , 1999, 63, 85-88.	5.8	8

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109	Modeling Ring/Chain Equilibrium in Nanoconfined Sulfur. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3911-3916.	2.6	8
110	Determination of the nonlinearity and activation energy parameters in the TNM model of structural recovery. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 317-324.	3.6	8
111	Instrumented sphere method for measuring thermal pressure in fluids and isotropic stresses and reaction kinetics in thermosetting resins. <i>Review of Scientific Instruments</i> , 2004, 75, 3327-3334.	1.3	7
112	Synthesis and Characterization of Well-Defined, Tadpole-Shaped Polystyrene with a Single Atom Junction Point. <i>Macromolecules</i> , 2018, 51, 9509-9518.	4.8	7
113	Acceleration of decomposition of CL-20 explosive under nanoconfinement. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 2649-2655.	3.6	7
114	Post treatments of plasma-enhanced chemical vapor deposited hydrogenated amorphous silicon carbide for low dielectric constant films. <i>Thin Solid Films</i> , 2006, 497, 109-114.	1.8	6
115	Thermal pressure coefficient of a polyhedral oligomeric silsesquioxane (POSS)-reinforced epoxy resin. <i>Journal of Applied Polymer Science</i> , 2010, 116, 142-146.	2.6	6
116	The reaction kinetics of cyclopentadiene dimerization using differential scanning calorimetry: Experiments and modelling. <i>Thermochimica Acta</i> , 2014, 589, 241-246.	2.7	6
117	The Glass Transition and Structural Recovery Using Flash DSC. , 2016, , 433-459.		6
118	Instrumented thick-walled tube method for measuring thermal pressure in fluids and isotropic stresses in thermosetting resins. <i>Review of Scientific Instruments</i> , 2005, 76, 063904.	1.3	5
119	Friction and Wear of Pd-Rich Amorphous Alloy (Pd ₄₃ Cu ₂₇ Ni ₁₀ P ₂₀) with Ionic Liquid (IL) as Lubricant at High Temperatures. <i>Metals</i> , 2019, 9, 1180.	2.3	5
120	Kinetic Study of Curing Bisphenol A Dicyanate Ester with Ionic Liquid Additive. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1315-1324.	2.1	5
121	A model-free analysis of configurational properties to reduce the temperature- and pressure-dependent segmental relaxation times of polymers. <i>Journal of Chemical Physics</i> , 2020, 152, 044901.	3.0	4
122	Decomposition of HMX in solid and liquid states under nanoconfinement. <i>Thermochimica Acta</i> , 2020, 686, 178542.	2.7	4
123	Prediction of the Synergistic Glass Transition Temperature of Coamorphous Molecular Glasses Using Activity Coefficient Models. <i>Molecular Pharmaceutics</i> , 2021, 18, 3439-3451.	4.6	4
124	Mobility of Pressure-Densified and Pressure-Expanded Polystyrene Glasses: Dilatometry and a Test of KAHR Model. <i>Macromolecules</i> , 2021, 54, 8352-8364.	4.8	4
125	Structural recovery and physical aging of polymeric glasses. , 2016, , 23-54.		4
126	Thermogravimetric analysis of a polycyanurate thermosetting material. <i>Journal of Theoretical Biology</i> , 1997, 49, 311-315.	1.7	3

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127	Modeling nanoporosity development in polymer films for low-k applications. <i>Polymer Engineering and Science</i> , 2005, 45, 640-651.	3.1	3
128	<scp>Compositionâ€dependent</scp>glass transition temperature in mixtures: Evaluation of configurational entropy models*. <i>Polymer Engineering and Science</i> , 2022, 62, 2435-2445.	3.1	3
129	Influence of diameter on the degradation profile of multiwall carbon nanotubes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 1351-1362.	3.6	2
130	Physical aging of a polyetherimide: Volume recovery and its comparison to creep and enthalpy measurements. , 1997, 35, 929.		1
131	Modeling DSC Annealing Peaks for Polyetherimide: Incorporation of Temperature Gradients. <i>Materials Research Society Symposia Proceedings</i> , 1996, 455, 177.	0.1	0
132	Carbon-Dioxide-Based Microsortation of Postconsumer Polyolefins and its Effect on Polyolefin Properties. <i>Polymer-Plastics Technology and Engineering</i> , 1999, 38, 433-444.	1.9	0
133	Fitting Differential Scanning Calorimetry Heating Curves for Polyetherimide Using a Model of Structural Recovery. <i>ACS Symposium Series</i> , 1999, , 188-198.	0.5	0
134	Heterogeneous reaction kinetics of epoxide-functionalized regenerated cellulose membrane and aliphatic amine. <i>Thermochimica Acta</i> , 2012, 543, 18-23.	2.7	0
135	Dynamics of Confined Glass-Forming Liquids Near Equilibrium Conditions. <i>Soft and Biological Matter</i> , 2015, , 245-263.	0.3	0
136	Program Improvements Resulting From Completion Of One Abet 2000 Assessment Cycle. , 0, , .		0