Guy Van Assche

List of Publications by Year
in descending order

164 papers	5,543 citations	81900 39 h-index	102487 66 g-index
164 all docs	164 docs citations	164 times ranked	5869 citing authors

#	Article	IF	Citations
1	Processing of Selfâ€Healing Polymers for Soft Robotics. Advanced Materials, 2022, 34, e2104798.	21.0	80
2	FEA-Based Inverse Kinematic Control: Hyperelastic Material Characterization of Self-Healing Soft Robots. IEEE Robotics and Automation Magazine, 2022, 29, 78-88.	2.0	9
3	A Healable Resistive Heater as a Stimuli-Providing System in Self-Healing Soft Robots. IEEE Robotics and Automation Letters, 2022, 7, 4574-4581.	5.1	11
4	Self-healing sensorized soft robots. , 2022, 1, 100003.		11
5	Quasi-Static FEA Model for a Multi-Material Soft Pneumatic Actuator in SOFA. IEEE Robotics and Automation Letters, 2022, 7, 7391-7398.	5.1	2
6	Structureâ€“Property Relationships of Self-Healing Polymer Networks Based on Reversible Dielsâ€“Alder Chemistry. Macromolecules, 2022, 55, 5497-5513.	4.8	19
7	Laser sintering of self-healable and recyclable thermoset networks. European Polymer Journal, 2022, 175, 111383.	5.4	9
8	Time-Temperature-Transformation, Temperature-Conversion-Transformation, and Continuous-Heating-Transformation Diagrams of Reversible Covalent Polymer Networks. Macromolecules, 2021, 54, 412-425.	4.8	17
9	The Influence of the Furan and Maleimide Stoichiometry on the Thermoreversible Dielsâ€“Alder Network Polymerization. Polymers, 2021, 13, 2522.	4.5	16
10	A review on self-healing polymers for soft robotics. Materials Today, 2021, 47, 187-205.	14.2	150
11	Monitoring initial contact of UV-cured organic coatings with aqueous solutions using odd random phase multisine electrochemical impedance spectroscopy. Corrosion Science, 2021, 190, 109713.	6.6	10
12	Substituent effect on the thermophysical properties and thermal dissociation behaviour of 9-substituted anthracene derivatives. Physical Chemistry Chemical Physics, 2021, 23, 2252-2263.	2.8	4
13	Reversible Lignin-Containing Networks Using Dielsâ€“Alder Chemistry. Macromolecules, 2021, 54, 9750-9760.	4.8	16
14	Humidity Robustness of Plasma-Coated PCBs. Journal of Electronic Materials, 2020, 49, 848-860.	2.2	3
15	Prilling of API/fatty acid suspensions: Screening of additives for drug release modification. International Journal of Pharmaceutics, 2020, 576, 119022.	5.2	0
16	Thermal dissociation of anthracene photodimers in the condensed state: kinetic evaluation and complex phase behaviour. Physical Chemistry Chemical Physics, 2020, 22, 17306-17313.	2.8	6
17	A novel approach for the closure of large damage in self-healing elastomers using magnetic particles. Polymer, 2020, 204, 122819.	3.8	25
18	Water permeation in coatings. Journal of Coatings Technology Research, 2020, 17, 1437-1445.	2.5	4

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19	Self-Healing and High Interfacial Strength in Multi-Material Soft Pneumatic Robots via Reversible Dielsâ€“Alder Bonds. Actuators, 2020, 9, 34.	2.3	35
20	Additive Manufacturing for Self-Healing Soft Robots. Soft Robotics, 2020, 7, 711-723.	8.0	54
21	Phase Behavior in the Active Layer of Small Molecule Organic Photovoltaics: State Diagram of p-DTS(FBTTh2)2:PC71BM. Journal of Physical Chemistry C, 2020, 124, 7566-7577.	3.1	1
22	UV-Curable Biobased Polyacrylates Based on a Multifunctional Monomer Derived from Furfural. Macromolecules, 2020, 53, 1388-1404.	4.8	19
23	Room Temperature Self-Healing in Soft Pneumatic Robotics: Autonomous Self-Healing in a Diels-Alder Polymer Network. IEEE Robotics and Automation Magazine, 2020, 27, 44-55.	2.0	32
24	Electrochemical impedance spectroscopy characterization and parameterization of lithium nickel manganese cobalt oxide pouch cells: dependency analysis of temperature and state of charge. Ionics, 2019, 25, 111-123.	2.4	26
25	Fast scanning chip calorimetry study of P3HT/PC₆₁BM submicron layers: structure formation and eutectic behaviour. Polymer International, 2019, 68, 277-282.	3.1	4
26	Homocoupling Defects of a Small Donor Molecule for Organic Photovoltaics: Quantification of the Eutectic State Diagram by Rapid Heatâ€“Cool Differential Scanning Calorimetry. Journal of Physical Chemistry C, 2019, 123, 22634-22642.	3.1	1
27	A Multi-Material Self-Healing Soft Gripper. , 2019, , .		17
28	Prilling of API/fatty acid suspensions: Processability and characterisation. International Journal of Pharmaceutics, 2019, 572, 118756.	5.2	1
29	Diffusion- and Mobility-Controlled Self-Healing Polymer Networks with Dynamic Covalent Bonding. Macromolecules, 2019, 52, 8440-8452.	4.8	25
30	Electrochemical characterization of plasma coatings on printed circuit boards. Progress in Organic Coatings, 2019, 137, 105256.	3.9	7
31	The influence of stereochemistry on the reactivity of the Dielsâ€“Alder cycloaddition and the implications for reversible network polymerization. Polymer Chemistry, 2019, 10, 473-485.	3.9	61
32	Coupling the Microscopic Healing Behaviour of Coatings to the Thermoreversible Diels-Alder Network Formation. Coatings, 2019, 9, 13.	2.6	23
33	A novel donor-Ï€-acceptor anthracene monomer: Towards faster and milder reversible dimerization. Tetrahedron, 2019, 75, 912-920.	1.9	9
34	A Pneumatic Artificial Muscle Manufactured Out of Self-Healing Polymers That Can Repair Macroscopic Damages. IEEE Robotics and Automation Letters, 2018, 3, 16-21.	5.1	39
35	Assessment of provoked compatibility of NBR/SBR polymer blend with montmorillonite amphiphiles from the thermal degradation kinetics. Polymer Bulletin, 2018, 75, 1417-1430.	3.3	16
36	Oxidation barrier of Cu and Fe powder by Atomic Layer Deposition. Surface and Coatings Technology, 2018, 349, 1032-1041.	4.8	12

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37	Anthracene-based polyurethane networks: Tunable thermal degradation, photochemical cure and stress-relaxation. European Polymer Journal, 2018, 105, 412-420.	5.4	14
38	Room-temperature versus heating-mediated healing of a Diels-Alder crosslinked polymer network. Polymer, 2018, 153, 453-463.	3.8	37
39	Recent trends in nanostructured particles: synthesis, functionalization, and applications. , 2018, , 605-639.		7
40	Physicochemical characterization of nanomaterials: polymorph, composition, wettability, and thermal stability. , 2018, , 255-278.		29
41	Sol-gel hot injection synthesis of ZnO nanoparticles into a porous silica matrix and reaction mechanism. Materials and Design, 2017, 119, 270-276.	7.0	46
42	Anthracene-Based Thiolâ€“Ene Networks with Thermo-Degradable and Photo-Reversible Properties. Macromolecules, 2017, 50, 1930-1938.	4.8	59
43	Towards multifunctional cellulosic fabric: UV photo-reduction and in-situ synthesis of silver nanoparticles into cellulose fabrics. International Journal of Biological Macromolecules, 2017, 98, 877-886.	7.5	85
44	Supramolecular thermoplastics and thermoplastic elastomer materials with self-healing ability based on oligomeric charged triblock copolymers. NPG Asia Materials, 2017, 9, e385-e385.	7.9	30
45	Thermophysical characterization of a reversible dynamic polymer network based on kinetics and equilibrium of an amorphous furan-maleimide Diels-Alder cycloaddition. Polymer, 2017, 120, 176-188.	3.8	45
46	One-component Dielsâ€“Alder based polyurethanes: a unique way to self-heal. RSC Advances, 2017, 7, 48047-48053.	3.6	47
47	Self-healing soft pneumatic robots. Science Robotics, 2017, 2, .	17.6	359
48	Selection of healing agents for a vascular self-healing application. Polymer Testing, 2017, 62, 302-310.	4.8	36
49	Synthesis, growth mechanism, and photocatalytic activity of Zinc oxide nanostructures: porous microparticles versus nonporous nanoparticles. Journal of Materials Science, 2017, 52, 2746-2762.	3.7	43
50	Probing the bulk heterojunction morphology in thermally annealed active layers for polymer solar cells. Organic Electronics, 2017, 41, 319-326.	2.6	10
51	Effect of Substrate Temperature on Thermal Properties and Deposition Kinetics of Atmospheric Plasma Deposited Methyl(methacrylate) Films. Plasma Processes and Polymers, 2017, 14, 1500213.	3.0	5
52	Aromatic sulfonation with sulfur trioxide: mechanism and kinetic model. Chemical Science, 2017, 8, 680-688.	7.4	26
53	Creation of a nanovascular network by electrospun sacrificial nanofibers for self-healing applications and its effect on the flexural properties of the bulk material. Polymer Testing, 2016, 54, 78-83.	4.8	32
54	Influence of the amorphous phase and preceding solution processing on the eutectic behaviour in the state diagram of P3HTâ€‰:â€‰PC₆₁BM determined by rapid heatâ€“cool calorimetry. RSC Advances, 2016, 6, 92981-92988.	3.6	6

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55	Seed-Mediated Hot-Injection Synthesis of Tiny Ag Nanocrystals on Nanoscale Solid Supports and Reaction Mechanism. ACS Applied Materials & Interfaces, 2016, 8, 10551-10561.	8.0	42
56	Toward Self-Healing Actuators: A Preliminary Concept. IEEE Transactions on Robotics, 2016, 32, 736-743.	10.3	24
57	Synthesis and evaluation of 9-substituted anthracenes with potential in reversible polymer systems. Tetrahedron, 2016, 72, 4303-4311.	1.9	37
58	Modelled decomposition kinetics of flame retarded poly(vinyl acetate). Polymer Degradation and Stability, 2016, 130, 245-256.	5.8	4
59	Deposition Kinetics and Thermal Properties of Atmospheric Plasma Deposited Methacrylate-Like Films. Plasma Processes and Polymers, 2016, 13, 521-533.	3.0	7
60	Thermal behaviour below and inside the glass transition region of a submicron P3HT layer studied by fast scanning chip calorimetry. Polymer, 2016, 83, 59-66.	3.8	16
61	Thermal Properties of Plasma Deposited Methyl Methacrylate Films in an Atmospheric DBD Reactor. Plasma Processes and Polymers, 2015, 12, 260-270.	3.0	7
62	A Green, Simple Chemical Route for the Synthesis of Pure Nanocalcite Crystals. Crystal Growth and Design, 2015, 15, 573-580.	3.0	45
63	Isothermal structure development in submicron P3HT layers studied by fast scanning chip calorimetry. Polymer, 2015, 57, 39-44.	3.8	23
64	Development of a self-healing soft pneumatic actuator: a first concept. Bioinspiration and Biomimetics, 2015, 10, 046007.	2.9	38
65	Evaluation of the Yasuda parameter for the atmospheric plasma deposition of allyl methacrylate. RSC Advances, 2015, 5, 27449-27457.	3.6	35
66	Roles of in situ surface modification in controlling the growth and crystallization of CaCO3 nanoparticles, and their dispersion in polymeric materials. Journal of Materials Science, 2015, 50, 7908-7918.	3.7	52
67	Synthesis of degradable multi-segmented polymers via Michael-addition thiolâ€“ene step-growth polymerization. RSC Advances, 2015, 5, 81920-81932.	3.6	17
68	Isothermal Crystallization of PC₆₁BM in Thin Layers Far below the Glass Transition Temperature. Crystal Growth and Design, 2015, 15, 5614-5623.	3.0	13
69	Investigation of self-healing compliant actuators for robotics. , 2015, , .		9
70	Isocyanate free condensed tannin-based polyurethanes. European Polymer Journal, 2015, 67, 513-526.	5.4	88
71	Incorporation of corrosion inhibitor in plasma polymerized allyl methacrylate coatings and evaluation of its corrosion performance. Surface and Coatings Technology, 2014, 259, 714-724.	4.8	8
72	Monitoring the morphology development of polymer-monolithic stationary phases by thermal analysis. Journal of Separation Science, 2014, 37, 179-186.	2.5	13

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73	Toward bulk heterojunction polymer solar cells with thermally stable active layer morphology. Journal of Photonics for Energy, 2014, 4, 040997.	1.3	42
74	Atomic force microscopyâ€“based study of self-healing coatings based on reversible polymer network systems. Journal of Intelligent Material Systems and Structures, 2014, 25, 40-46.	2.5	36
75	About the Influence of Double Bonds in the APPECVD of Acrylateâ€Like Precursors: A Mass Spectrometry Study of the Plasma Phase. Plasma Processes and Polymers, 2014, 11, 335-344.	3.0	18
76	A time dependent DFT study of the efficiency of polymers for organic photovoltaics at the interface with PCBM. RSC Advances, 2014, 4, 52658-52667.	3.6	17
77	The effect of the moisture content on the curing characteristics of an epoxy matrix in the presence of nanofibrous structures. Polymer Testing, 2014, 40, 265-272.	4.8	11
78	The rheological properties of hydrogenated castor oil crystals. Colloid and Polymer Science, 2014, 292, 2539-2547.	2.1	15
79	Preparation and characterization of ultra-hydrophobic calcium carbonate nanoparticles. IOP Conference Series: Materials Science and Engineering, 2014, 64, 012037.	0.6	12
80	Optimization of Extrusion Parameters for Preparing PCLâ€Layered Silicate Nanocomposites Supported by Modeling of Twinâ€Screw Extrusion. Macromolecular Materials and Engineering, 2013, 298, 210-220.	3.6	6
81	A self-healing polymer network based on reversible covalent bonding. Reactive and Functional Polymers, 2013, 73, 413-420.	4.1	137
82	Fast-scanning calorimetry of electrospun polyamide nanofibres: Melting behaviour and crystal structure. Polymer, 2013, 54, 6809-6817.	3.8	15
83	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
84	Quantitative analysis of polymer mixtures in solution by pulsed field-gradient spin echo NMR spectroscopy. Journal of Magnetic Resonance, 2013, 231, 46-53.	2.1	5
85	Effect of nanofibres on the curing characteristics of an epoxy matrix. Composites Science and Technology, 2013, 79, 35-41.	7.8	15
86	Ester-functionalized poly(3-alkylthiophene) copolymers: Synthesis, physicochemical characterization and performance in bulk heterojunction organic solar cells. Organic Electronics, 2013, 14, 523-534.	2.6	22
87	Plasma Polymerization of a Saturated Branched Hydrocarbon. The Case of Heptamethylnonane. Plasma Processes and Polymers, 2013, 10, 51-59.	3.0	15
88	The Impact of Double Bonds in the APPECVD of Acrylate-Like Precursors. Plasma Processes and Polymers, 2013, 10, 857-863.	3.0	27
89	Surface Characterization of Atmospheric Pressure Plasmaâ€Deposited Allyl Methacrylate and Acrylic Acid Based Coatings. Plasma Processes and Polymers, 2013, 10, 564-571.	3.0	27
90	Crystallization kinetics and morphology relations on thermally annealed bulk heterojunction solar cell blends studied by rapid heat cool calorimetry (RHC). , 2012, , .		1

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91	Looking at bulk-heterojunction organic photovoltaics from two viewpoints: morphology development and charge transfer. Proceedings of SPIE, 2012, , .	0.8	0
92	The kinetic analysis of isothermal curing reaction of an epoxy resin-glassflake nanocomposite. Thermochimica Acta, 2012, 549, 81-86.	2.7	35
93	Influence of temperature and UV intensity on photo-polymerization reaction studied by photo-DSC. Journal of Thermal Analysis and Calorimetry, 2012, 110, 287-294.	3.6	40
94	RheoDSC: Design optimisation by heat transfer modelling. Thermochimica Acta, 2012, 547, 130-140.	2.7	4
95	Influence of the processing solvent on the photoactive layer nanomorphology of P3HT/PC₆₀BM solar cells. Journal of Polymer Science Part A, 2012, 50, 1037-1041.	2.3	14
96	Deposition and Characterisation of Plasma Polymerised Allyl Methacrylate Based Coatings. Plasma Processes and Polymers, 2012, 9, 799-807.	3.0	21
97	Improved Photovoltaic Performance of a Semicrystalline Narrow Bandgap Copolymer Based on 4H-Cyclopenta[2,1-b:3,4-bâ€²]dithiophene Donor and Thiazolo[5,4-d]thiazole Acceptor Units. Chemistry of Materials, 2012, 24, 587-593.	6.7	73
98	Functionalized Dithienylthiazolo[5,4â€d]thiazoles For Solutionâ€Processable Organic Fieldâ€Effect Transistors. ChemPlusChem, 2012, 77, 923-930.	2.8	12
99	Calibration and performance of a fast-scanning DSCâ€"Project RHC. Thermochimica Acta, 2012, 530, 64-72.	2.7	31
100	Evaluation of curing kinetic parameters of an epoxy/polyaminoamide/nano-glassflake system by non-isothermal differential scanning calorimetry. Thermochimica Acta, 2012, 533, 10-15.	2.7	26
101	The effect of nano-sized filler particles on the crystalline-amorphous interphase and thermal properties in polyester nanocomposites. Polymer, 2012, 53, 1494-1506.	3.8	24
102	Phase behavior of PCBM blends with different conjugated polymers. Physical Chemistry Chemical Physics, 2011, 13, 12285.	2.8	27
103	Thermal Stability of Poly[2-methoxy-5-(2â€²-phenylethoxy)-1,4-phenylenevinylene] (MPE-PPV):Fullerene Bulk Heterojunction Solar Cells. Macromolecules, 2011, 44, 8470-8478.	4.8	61
104	Adjacent UCST Phase Behavior in Aqueous Solutions of Poly(vinyl methyl ether): Detection of a Narrow Low Temperature UCST in the Lower Concentration Range. Macromolecules, 2011, 44, 993-998.	4.8	22
105	Construction of the state diagram of polymer blend thin films using differential AC chip calorimetry. Polymer, 2011, 52, 4277-4283.	3.8	6
106	A combined mechanical, microscopic and local electrochemical evaluation of self-healing properties of shape-memory polyurethane coatings. Electrochimica Acta, 2011, 56, 9619-9626.	5.2	65
107	Self-healing property characterization of reversible thermoset coatings. Journal of Thermal Analysis and Calorimetry, 2011, 105, 805-809.	3.6	58
108	Rheology of nanocomposites. Journal of Thermal Analysis and Calorimetry, 2011, 105, 731-736.	3.6	16

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109	Partially miscible polystyrene/polymethylphenylsiloxane blends for nanocomposites. Journal of Thermal Analysis and Calorimetry, 2011, 105, 775-781.	3.6	4
110	Isothermal crystallization of P3HT:PCBM blends studied by RHC. Journal of Thermal Analysis and Calorimetry, 2011, 105, 845-849.	3.6	17
111	Morphologic study of steady state electrospun polyamide 6 nanofibres. Journal of Applied Polymer Science, 2011, 119, 2984-2990.	2.6	33
112	SECM study of defect repair in self-healing polymer coatings on metals. Electrochemistry Communications, 2011, 13, 169-173.	4.7	89
113	Phase separation in polymer blend thin films studied by differential AC chip calorimetry. Polymer, 2010, 51, 647-654.	3.8	28
114	Investigation of the self-healing properties of shape memory polyurethane coatings with the â€˜odd random phase multisineâ€™ electrochemical impedance spectroscopy. Electrochimica Acta, 2010, 55, 6195-6203.	5.2	81
115	Qualitative assessment of nanofiller dispersion in poly(Îµ-caprolactone) nanocomposites by mechanical testing, dynamic rheometry and advanced thermal analysis. European Polymer Journal, 2010, 46, 984-996.	5.4	33
116	RheoDSC Analysis of Hardening of Semi-Crystalline Polymers during Quiescent Isothermal Crystallization. International Polymer Processing, 2010, 25, 304-310.	0.5	17
117	Demixing and Remixing Kinetics of Poly(2-isopropyl-2-oxazoline) (PIPOZ) Aqueous Solutions Studied by Modulated Temperature Differential Scanning Calorimetry. Macromolecules, 2010, 43, 6853-6860.	4.8	54
118	Dynamics of the Crystal to Plastic Crystal Transition in the Hydrogen Bonded N-Isopropylpropionamide. Journal of Physical Chemistry B, 2010, 114, 13944-13949.	2.6	20
119	Phase Behavior in Blends of Ethylene Oxideâ€“Propylene Oxide Copolymer and Poly(ether sulfone) Studied by Modulatedâ€Temperature DSC and NMR Relaxometry. Chemistry - A European Journal, 2009, 15, 1177-1185.	3.3	6
120	Micro- and nano-thermal analysis applied to multi-layered biaxially-oriented polypropylene films. Journal of Thermal Analysis and Calorimetry, 2009, 95, 207-213.	3.6	8
121	LCST demixing in poly(vinyl methyl ether)/water studied by means of a High Resolution Ultrasonic Resonator. Journal of Thermal Analysis and Calorimetry, 2009, 98, 495-505.	3.6	5
122	RheoDSC: design and validation of a new hybrid measurement technique. Journal of Thermal Analysis and Calorimetry, 2009, 98, 675-681.	3.6	18
123	Predicting reflections of thin coatings. Surface and Coatings Technology, 2009, 204, 551-557.	4.8	10
124	Novel synthetic strategy toward shape memory polyurethanes with a well-defined switching temperature. Polymer, 2009, 50, 4447-4454.	3.8	77
125	Theoretical analysis of carbon nanotube wetting in polystyrene nanocomposites. Physical Chemistry Chemical Physics, 2009, 11, 11121.	2.8	3
126	Phase Diagram of P3HT/PCBM Blends and Its Implication for the Stability of Morphology. Journal of Physical Chemistry B, 2009, 113, 1587-1591.	2.6	333

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127	Demixing and Remixing Kinetics in Aqueous Dispersions of Poly(N-isopropylacrylamide) (PNIPAM) Brushes Bound to Gold Nanoparticles Studied by Means of Modulated Temperature Differential Scanning Calorimetry. Macromolecules, 2009, 42, 5317-5327.	4.8	23
128	The use of nanofibers of P3HT in bulk heterojunction solar cells: the effect of order and morphology on the performance of P3HT:PCBM blends. , 2009, , .		0
129	The thermal degradation of poly(vinyl acetate) and poly(ethylene-co-vinyl acetate), Part I: Experimental study of the degradation mechanism. Polymer Degradation and Stability, 2008, 93, 800-810.	5.8	117
130	The thermal degradation of poly(vinyl acetate) and poly(ethylene-co-vinyl acetate), Part II: Modelling the degradation kinetics. Polymer Degradation and Stability, 2008, 93, 1222-1230.	5.8	41
131	RheoDSC: A hyphenated technique for the simultaneous measurement of calorimetric and rheological evolutions. Review of Scientific Instruments, 2008, 79, 023905.	1.3	20
132	Elucidating the aspect of "phase separation" in organic blends by means of thermal analysis. , 2007, , .		2
133	Influence of Macromolecular Architecture on the Thermal Response Rate of Amphiphilic Copolymers, Based on Poly(N-isopropylacrylamide) and Poly(oxyethylene), in Water. Macromolecules, 2007, 40, 3765-3772.	4.8	53
134	Phase Transformations in Aqueous Low Molar Mass Poly(vinyl methyl ether) Solutions:Â Theoretical Prediction and Experimental Validation of the Peculiar Solvent Melting Line, Bimodal LCST, and (Adjacent) UCST Miscibility Gaps. Journal of Physical Chemistry B, 2007, 111, 1288-1295.	2.6	47
135	A Polystyrene-Supported Tin Trichloride Catalyst with a C11-Spacer. Catalysis Monitoring Using High-Resolution Magic Angle Spinning NMR. Organometallics, 2007, 26, 6718-6725.	2.3	26
136	Catalytic properties of cross-linked polystyrene grafted diorganotins in a model transesterification and the ring-opening polymerization of É›-caprolactone. Applied Organometallic Chemistry, 2007, 21, 504-513.	3.5	21
137	Reaction mechanism, kinetics and high temperature transformations of geopolymers. Journal of Materials Science, 2007, 42, 2982-2996.	3.7	170
138	Isothermal Elimination ofn-Alkylsulfinyl OC1C10-PPV Precursor Polymers Studied with FT-IR, UVâˆ'Vis, and MTDSC:Â Kinetics of the Elimination Reaction. Macromolecules, 2006, 39, 3194-3201.	4.8	3
139	Kinetics of Temperature-induced and Reaction-induced Phase Separation Studied by Modulated Temperature DSC. Macromolecular Symposia, 2006, 233, 36-41.	0.7	8
140	Restricted chain segment mobility in poly(amide) 6/clay nanocomposites evidenced by quasi-isothermal crystallization. Polymer, 2006, 47, 826-835.	3.8	97
141	Non-isothermal elimination process in the solid state of n-alkyl-sulphinyl precursor polymers towards conjugated poly[2-(3â€²,7â€²-dimethyloctyloxy)-5-methoxy-1,4-phenylene vinylene] studied with MTDSC and TGA. Polymer, 2006, 47, 7935-7942.	3.8	2
142	The Application of Modulated Temperature Differential Scanning Calorimetry for the Characterisation of Curing Systems. Hot Topics in Thermal Analysis and Calorimetry, 2006, , 83-160.	0.5	2
143	Through-thickness analysis of the skin layer thickness of multi-layered biaxially-oriented polypropylene films by micro-thermal analysis. Polymer, 2005, 46, 7132-7139.	3.8	8
144	Role of Complex Formation in the Polymerization Kinetics of Modified Epoxyâˆ'Amine Systems. Macromolecules, 2005, 38, 2281-2288.	4.8	47

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145	Measurements of Thermal Properties of Carbon/Epoxy and Glass/Epoxy using Modulated Temperature Differential Scanning Calorimetry. Journal of Composite Materials, 2004, 38, 163-175.	2.4	68
146	Reaction kinetics modeling and thermal properties of epoxy-amines as measured by modulated-temperature DSC. I. Linear step-growth polymerization of DGEBA + aniline. Journal of Applied Polymer Science, 2004, 91, 2798-2813.	2.6	41
147	Reaction kinetics modeling and thermal properties of epoxy-amines as measured by modulated-temperature DSC. II. Network-forming DGEBA + MDA. Journal of Applied Polymer Science, 2004, 91, 2814-2833.	2.6	38
148	Kinetics of Demixing and Remixing in Poly(N-isopropylacrylamide)/Water Studied by Modulated Temperature DSC. Macromolecules, 2004, 37, 9596-9605.	4.8	141
149	Mechanistic modeling of the wall reactions in the pyrolysis of pentachloroethane. International Journal of Chemical Kinetics, 2002, 34, 322-330.	1.6	0
150	Modeling and experimental verification of the kinetics of reacting polymer systems. Thermochimica Acta, 2002, 388, 327-341.	2.7	54
151	Mathematical modeling of the thermal system of modulated temperature differential scanning calorimeter. Thermochimica Acta, 2002, 391, 87-95.	2.7	3
152	Interphase formation in model composites studied by micro-thermal analysis. Polymer, 2002, 43, 4605-4610.	3.8	33
153	Frequency dependent heat capacity in the cure of epoxy resins. Thermochimica Acta, 2001, 377, 125-130.	2.7	25
154	Interrelations between mechanism, kinetics, and rheology in an isothermal cross-linking chain-growth copolymerisation. Polymer, 2001, 42, 2959-2968.	3.8	39
155	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2000, 59, 305-318.	1.4	23
156	Modulated Differential Scanning Calorimetry to Study Reacting Polymer Systems. Journal of Reinforced Plastics and Composites, 1999, 18, 885-894.	3.1	11
157	Pyrolysis of 1-chloro-1,1-difluoroethane: Considerations about its molecular nature. International Journal of Chemical Kinetics, 1999, 31, 283-289.	1.6	3
158	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1998, 54, 585-604.	1.4	53
159	Kinetics and mechanism of the pyrolysis of 1-chloro-1,1-difluoroethane in the presence of additives. International Journal of Chemical Kinetics, 1998, 30, 359-366.	1.6	9
160	Software NoteOPTKINâ€"Mechanistic modeling by kinetic and thermodynamic parameter optimization. Computers & Chemistry, 1998, 22, 413-417.	1.2	19
161	Modulated temperature differential scanning calorimetry. Journal of Theoretical Biology, 1997, 49, 443-447.	1.7	19
162	Modulated temperature differential scanning calorimetry: Cure, vitrification, and devitrification of thermosetting systems. Thermochimica Acta, 1997, 304-305, 317-334.	2.7	70

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163	Modulated differential scanning calorimetry: Non-isothermal cure, vitrification, and devitrification of thermosetting systems. Thermochimica Acta, 1996, 286, 209-224.	2.7	88
164	Modulated differential scanning calorimetry: isothermal cure and vitrification of thermosetting systems. Thermochimica Acta, 1995, 268, 121-142.	2.7	141