

# Guy Van Assche

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7397289/guy-van-assche-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

157  
papers

4,281  
citations

35  
h-index

57  
g-index

164  
ext. papers

4,905  
ext. citations

4.3  
avg, IF

5.53  
L-index

#	Paper	IF	Citations
157	Phase diagram of P3HT/PCBM blends and its implication for the stability of morphology. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 1587-91	3.4	307
156	Self-healing soft pneumatic robots. <i>Science Robotics</i> , <b>2017</b> , 2,	18.6	224
155	Reaction mechanism, kinetics and high temperature transformations of geopolymers. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 2982-2996	4.3	133
154	Modulated differential scanning calorimetry: isothermal cure and vitrification of thermosetting systems. <i>Thermochimica Acta</i> , <b>1995</b> , 268, 121-142	2.9	132
153	Kinetics of Demixing and Remixing in Poly(N-isopropylacrylamide)/Water Studied by Modulated Temperature DSC. <i>Macromolecules</i> , <b>2004</b> , 37, 9596-9605	5.5	125
152	A self-healing polymer network based on reversible covalent bonding. <i>Reactive and Functional Polymers</i> , <b>2013</b> , 73, 413-420	4.6	117
151	The thermal degradation of poly(vinyl acetate) and poly(ethylene-co-vinyl acetate), Part I: Experimental study of the degradation mechanism. <i>Polymer Degradation and Stability</i> , <b>2008</b> , 93, 800-810	4.7	97
150	Restricted chain segment mobility in poly(amide) 6/clay nanocomposites evidenced by quasi-isothermal crystallization. <i>Polymer</i> , <b>2006</b> , 47, 826-835	3.9	92
149	Modulated differential scanning calorimetry: Non-isothermal cure, vitrification, and devitrification of thermosetting systems. <i>Thermochimica Acta</i> , <b>1996</b> , 286, 209-224	2.9	83
148	SECM study of defect repair in self-healing polymer coatings on metals. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 169-173	5.1	75
147	Towards multifunctional cellulosic fabric: UV photo-reduction and in-situ synthesis of silver nanoparticles into cellulose fabrics. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 98, 877-886	7.9	68
146	Isocyanate free condensed tannin-based polyurethanes. <i>European Polymer Journal</i> , <b>2015</b> , 67, 513-526	5.2	68
145	Improved Photovoltaic Performance of a Semicrystalline Narrow Bandgap Copolymer Based on 4H-Cyclopenta[2,1-b:3,4-b']dithiophene Donor and Thiazolo[5,4-d]thiazole Acceptor Units. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 587-593	9.6	68
144	Modulated temperature differential scanning calorimetry: Cure, vitrification, and devitrification of thermosetting systems. <i>Thermochimica Acta</i> , <b>1997</b> , 304-305, 317-334	2.9	61
143	Thermal Stability of Poly[2-methoxy-5-(2-phenylethoxy)-1,4-phenylenevinylene] (MPE-PPV): Fullerene Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , <b>2011</b> , 44, 8470-8478	5.5	57
142	Novel synthetic strategy toward shape memory polyurethanes with a well-defined switching temperature. <i>Polymer</i> , <b>2009</b> , 50, 4447-4454	3.9	56
141	A combined mechanical, microscopic and local electrochemical evaluation of self-healing properties of shape-memory polyurethane coatings. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 9619-9626	6.7	55

140	Investigation of the self-healing properties of shape memory polyurethane coatings with the random phase multisine. Electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 6195-6203	6.7	54
139	Measurements of Thermal Properties of Carbon/Epoxy and Glass/Epoxy using Modulated Temperature Differential Scanning Calorimetry. <i>Journal of Composite Materials</i> , <b>2004</b> , 38, 163-175	2.7	54
138	Modeling and experimental verification of the kinetics of reacting polymer systems. <i>Thermochimica Acta</i> , <b>2002</b> , 388, 327-341	2.9	52
137	Self-healing property characterization of reversible thermoset coatings. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 805-809	4.1	51
136	Influence of Macromolecular Architecture on the Thermal Response Rate of Amphiphilic Copolymers, Based on Poly(N-isopropylacrylamide) and Poly(oxyethylene), in Water. <i>Macromolecules</i> , <b>2007</b> , 40, 3765-3772	5.5	51
135	Anthracene-Based Thiolene Networks with Thermo-Degradable and Photo-Reversible Properties. <i>Macromolecules</i> , <b>2017</b> , 50, 1930-1938	5.5	48
134	Demixing and Remixing Kinetics of Poly(2-isopropyl-2-oxazoline) (PIPOZ) Aqueous Solutions Studied by Modulated Temperature Differential Scanning Calorimetry. <i>Macromolecules</i> , <b>2010</b> , 43, 6853-6860	5.5	47
133	Characterization of Reacting Polymer Systems by Temperature-Modulated Differential Scanning Calorimetry. <i>Magyar Árvad Kélemlyek</i> , <b>1998</b> , 54, 585-604	0	47
132	Role of Complex Formation in the Polymerization Kinetics of Modified EpoxyAmine Systems. <i>Macromolecules</i> , <b>2005</b> , 38, 2281-2288	5.5	47
131	Phase transformations in aqueous low molar mass poly(vinyl methyl ether) solutions: theoretical prediction and experimental validation of the peculiar solvent melting line, bimodal LCST, and (adjacent) UCST miscibility gaps. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 1288-95	3.4	43
130	Roles of in situ surface modification in controlling the growth and crystallization of CaCO <sub>3</sub> nanoparticles, and their dispersion in polymeric materials. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 7908-7918	4.3	42
129	Toward bulk heterojunction polymer solar cells with thermally stable active layer morphology. <i>Journal of Photonics for Energy</i> , <b>2014</b> , 4, 040997	1.2	41
128	The influence of stereochemistry on the reactivity of the DielsAlder cycloaddition and the implications for reversible network polymerization. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 473-485	4.9	39
127	Reaction kinetics modeling and thermal properties of epoxyAmines as measured by modulated-temperature DSC. I. Linear step-growth polymerization of DGEBA + aniline. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 91, 2798-2813	2.9	38
126	Interrelations between mechanism, kinetics, and rheology in an isothermal cross-linking chain-growth copolymerisation. <i>Polymer</i> , <b>2001</b> , 42, 2959-2968	3.9	38
125	The thermal degradation of poly(vinyl acetate) and poly(ethylene-co-vinyl acetate), Part II: Modelling the degradation kinetics. <i>Polymer Degradation and Stability</i> , <b>2008</b> , 93, 1222-1230	4.7	36
124	Reaction kinetics modeling and thermal properties of epoxyAmines as measured by modulated-temperature DSC. II. Network-forming DGEBA + MDA. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 91, 2814-2833	2.9	36
123	Sol-gel hot injection synthesis of ZnO nanoparticles into a porous silica matrix and reaction mechanism. <i>Materials and Design</i> , <b>2017</b> , 119, 270-276	8.1	35

122	Thermophysical characterization of a reversible dynamic polymer network based on kinetics and equilibrium of an amorphous furan-maleimide Diels-Alder cycloaddition. <i>Polymer</i> , <b>2017</b> , 120, 176-188	3.9	35
121	One-component Diels-Alder based polyurethanes: a unique way to self-heal. <i>RSC Advances</i> , <b>2017</b> , 7, 48047-48053	3.7	35
120	Seed-Mediated Hot-Injection Synthesis of Tiny Ag Nanocrystals on Nanoscale Solid Supports and Reaction Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 10551-61	9.5	35
119	A Green, Simple Chemical Route for the Synthesis of Pure Nanocalcite Crystals. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 573-580	3.5	34
118	Synthesis and evaluation of 9-substituted anthracenes with potential in reversible polymer systems. <i>Tetrahedron</i> , <b>2016</b> , 72, 4303-4311	2.4	33
117	The kinetic analysis of isothermal curing reaction of an epoxy resin-glassflake nanocomposite. <i>Thermochimica Acta</i> , <b>2012</b> , 549, 81-86	2.9	33
116	Qualitative assessment of nanofiller dispersion in poly(E-caprolactone) nanocomposites by mechanical testing, dynamic rheometry and advanced thermal analysis. <i>European Polymer Journal</i> , <b>2010</b> , 46, 984-996	5.2	32
115	A review on self-healing polymers for soft robotics. <i>Materials Today</i> , <b>2021</b> , 47, 187-205	21.8	32
114	Development of a self-healing soft pneumatic actuator: a first concept. <i>Bioinspiration and Biomimetics</i> , <b>2015</b> , 10, 046007	2.6	31
113	Morphologic study of steady state electrospun polyamide 6 nanofibres. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 119, 2984-2990	2.9	31
112	Synthesis, growth mechanism, and photocatalytic activity of Zinc oxide nanostructures: porous microparticles versus nonporous nanoparticles. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 2746-2762	4.3	30
111	Interphase formation in model composites studied by micro-thermal analysis. <i>Polymer</i> , <b>2002</b> , 43, 4605-4610	3.1	30
110	Room-temperature versus heating-mediated healing of a Diels-Alder crosslinked polymer network. <i>Polymer</i> , <b>2018</b> , 153, 453-463	3.9	28
109	Selection of healing agents for a vascular self-healing application. <i>Polymer Testing</i> , <b>2017</b> , 62, 302-310	4.5	28
108	Calibration and performance of a fast-scanning DSC Project RHC. <i>Thermochimica Acta</i> , <b>2012</b> , 530, 64-72	2.9	27
107	Phase separation in polymer blend thin films studied by differential AC chip calorimetry. <i>Polymer</i> , <b>2010</b> , 51, 647-654	3.9	27
106	Evaluation of curing kinetic parameters of an epoxy/polyaminoamide/nano-glassflake system by non-isothermal differential scanning calorimetry. <i>Thermochimica Acta</i> , <b>2012</b> , 533, 10-15	2.9	26
105	Influence of temperature and UV intensity on photo-polymerization reaction studied by photo-DSC. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2012</b> , 110, 287-294	4.1	26

104	Creation of a nanovascular network by electrospun sacrificial nanofibers for self-healing applications and its effect on the flexural properties of the bulk material. <i>Polymer Testing</i> , <b>2016</b> , 54, 78-83	4.5	26
103	Atomic force microscopy based study of self-healing coatings based on reversible polymer network systems. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2014</b> , 25, 40-46	2.3	25
102	Phase behavior of PCBM blends with different conjugated polymers. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 12285-92	3.6	25
101	The effect of nano-sized filler particles on the crystalline-amorphous interphase and thermal properties in polyester nanocomposites. <i>Polymer</i> , <b>2012</b> , 53, 1494-1506	3.9	24
100	Surface Characterization of Atmospheric Pressure Plasma-Deposited Allyl Methacrylate and Acrylic Acid Based Coatings. <i>Plasma Processes and Polymers</i> , <b>2013</b> , 10, 564-571	3.4	24
99	A Pneumatic Artificial Muscle Manufactured Out of Self-Healing Polymers That Can Repair Macroscopic Damages. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 16-21	4.2	23
98	Electrochemical impedance spectroscopy characterization and parameterization of lithium nickel manganese cobalt oxide pouch cells: dependency analysis of temperature and state of charge. <i>Ionics</i> , <b>2019</b> , 25, 111-123	2.7	23
97	The Impact of Double Bonds in the APPECVD of Acrylate-Like Precursors. <i>Plasma Processes and Polymers</i> , <b>2013</b> , 10, 857-863	3.4	23
96	A Polystyrene-Supported Tin Trichloride Catalyst with a C11-Spacer. Catalysis Monitoring Using High-Resolution Magic Angle Spinning NMR. <i>Organometallics</i> , <b>2007</b> , 26, 6718-6725	3.8	23
95	TMDSC and Dynamic Rheometry, Gelation, Vitrification and Autoacceleration in the Cure of an Unsaturated Polyester Resin. <i>Magyar Ártud Kélemlék</i> , <b>2000</b> , 59, 305-318	0	23
94	Supramolecular thermoplastics and thermoplastic elastomer materials with self-healing ability based on oligomeric charged triblock copolymers. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e385-e385	10.3	22
93	Isothermal structure development in submicron P3HT layers studied by fast scanning chip calorimetry. <i>Polymer</i> , <b>2015</b> , 57, 39-44	3.9	22
92	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. <i>Macromolecules</i> , <b>2009</b> , 42, 5317-5327	5.5	22
91	Ester-functionalized poly(3-alkylthiophene) copolymers: Synthesis, physicochemical characterization and performance in bulk heterojunction organic solar cells. <i>Organic Electronics</i> , <b>2013</b> , 14, 523-534	3.5	21
90	Adjacent UCST Phase Behavior in Aqueous Solutions of Poly(vinyl methyl ether): Detection of a Narrow Low Temperature UCST in the Lower Concentration Range. <i>Macromolecules</i> , <b>2011</b> , 44, 993-998	5.5	20
89	Catalytic properties of cross-linked polystyrene grafted diorganotin in a model transesterification and the ring-opening polymerization of $\epsilon$ -caprolactone. <i>Applied Organometallic Chemistry</i> , <b>2007</b> , 21, 504-513	3.1	20
88	Frequency dependent heat capacity in the cure of epoxy resins. <i>Thermochimica Acta</i> , <b>2001</b> , 377, 125-130	2.9	20
87	Additive Manufacturing for Self-Healing Soft Robots. <i>Soft Robotics</i> , <b>2020</b> , 7, 711-723	9.2	19

86	Deposition and Characterisation of Plasma Polymerised Allyl Methacrylate Based Coatings. <i>Plasma Processes and Polymers</i> , <b>2012</b> , 9, 799-807	3.4	18
85	Software NoteOPTKINMechanistic modeling by kinetic and thermodynamic parameter optimization. <i>Computers &amp; Chemistry</i> , <b>1998</b> , 22, 413-417		18
84	Modulated temperature differential scanning calorimetry. <i>Journal of Theoretical Biology</i> , <b>1997</b> , 49, 443-447	4.3	17
83	RheoDSC: a hyphenated technique for the simultaneous measurement of calorimetric and rheological evolutions. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 023905	1.7	17
82	Rheology of nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 731-736	4.1	16
81	Isothermal crystallization of P3HT:PCBM blends studied by RHC. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 845-849	4.1	16
80	RheoDSC Analysis of Hardening of Semi-Crystalline Polymers during Quiescent Isothermal Crystallization. <i>International Polymer Processing</i> , <b>2010</b> , 25, 304-310	1	16
79	Dynamics of the crystal to plastic crystal transition in the hydrogen bonded N-isopropylpropionamide. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 13944-9	3.4	16
78	RheoDSC: design and validation of a new hybrid measurement technique. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2009</b> , 98, 675-681	4.1	16
77	Evaluation of the Yasuda parameter for the atmospheric plasma deposition of allyl methacrylate. <i>RSC Advances</i> , <b>2015</b> , 5, 27449-27457	3.7	15
76	Synthesis of degradable multi-segmented polymers via Michael-addition thiol-ene step-growth polymerization. <i>RSC Advances</i> , <b>2015</b> , 5, 81920-81932	3.7	15
75	Self-Healing and High Interfacial Strength in Multi-Material Soft Pneumatic Robots via Reversible Diels-Alder Bonds. <i>Actuators</i> , <b>2020</b> , 9, 34	2.4	15
74	Thermal behaviour below and inside the glass transition region of a submicron P3HT layer studied by fast scanning chip calorimetry. <i>Polymer</i> , <b>2016</b> , 83, 59-66	3.9	15
73	Aromatic sulfonation with sulfur trioxide: mechanism and kinetic model. <i>Chemical Science</i> , <b>2017</b> , 8, 680-688	3.4	15
72	Effect of nanofibres on the curing characteristics of an epoxy matrix. <i>Composites Science and Technology</i> , <b>2013</b> , 79, 35-41	8.6	15
71	Coupling the Microscopic Healing Behaviour of Coatings to the Thermoreversible Diels-Alder Network Formation. <i>Coatings</i> , <b>2019</b> , 9, 13	2.9	15
70	Diffusion- and Mobility-Controlled Self-Healing Polymer Networks with Dynamic Covalent Bonding. <i>Macromolecules</i> , <b>2019</b> , 52, 8440-8452	5.5	14
69	About the Influence of Double Bonds in the APPECVD of Acrylate-Like Precursors: A Mass Spectrometry Study of the Plasma Phase. <i>Plasma Processes and Polymers</i> , <b>2014</b> , 11, 335-344	3.4	14

68	A time dependent DFT study of the efficiency of polymers for organic photovoltaics at the interface with PCBM. <i>RSC Advances</i> , <b>2014</b> , 4, 52658-52667	3.7	14
67	Time-Temperature-transformation (TTT) and temperature-conversion-transformation (TxT) cure diagrams by RheoDSC: Combined rheometry and calorimetry on an epoxy-amine thermoset. <i>Reactive and Functional Polymers</i> , <b>2013</b> , 73, 332-339	4.6	14
66	Influence of the processing solvent on the photoactive layer nanomorphology of P3HT/PC60BM solar cells. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 1037-1041	2.5	14
65	Plasma Polymerization of a Saturated Branched Hydrocarbon. The Case of Heptamethylnonane. <i>Plasma Processes and Polymers</i> , <b>2013</b> , 10, 51-59	3.4	14
64	Assessment of provoked compatibility of NBR/SBR polymer blend with montmorillonite amphiphiles from the thermal degradation kinetics. <i>Polymer Bulletin</i> , <b>2018</b> , 75, 1417-1430	2.4	13
63	Fast-scanning calorimetry of electrospun polyamide nanofibres: Melting behaviour and crystal structure. <i>Polymer</i> , <b>2013</b> , 54, 6809-6817	3.9	13
62	Isothermal Crystallization of PC61BM in Thin Layers Far below the Glass Transition Temperature. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 5614-5623	3.5	12
61	Toward Self-Healing Actuators: A Preliminary Concept. <i>IEEE Transactions on Robotics</i> , <b>2016</b> , 32, 736-743	6.5	12
60	The rheological properties of hydrogenated castor oil crystals. <i>Colloid and Polymer Science</i> , <b>2014</b> , 292, 2539-2547	2.4	12
59	Monitoring the morphology development of polymer-monolithic stationary phases by thermal analysis. <i>Journal of Separation Science</i> , <b>2014</b> , 37, 179-86	3.4	12
58	Preparation and characterization of ultra-hydrophobic calcium carbonate nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2014</b> , 64, 012037	0.4	11
57	Modulated Differential Scanning Calorimetry to Study Reacting Polymer Systems. <i>Journal of Reinforced Plastics and Composites</i> , <b>1999</b> , 18, 885-894	2.9	11
56	The effect of the moisture content on the curing characteristics of an epoxy matrix in the presence of nanofibrous structures. <i>Polymer Testing</i> , <b>2014</b> , 40, 265-272	4.5	10
55	Functionalized Dithienylthiazolo[5,4-d]thiazoles For Solution-Processable Organic Field-Effect Transistors. <i>ChemPlusChem</i> , <b>2012</b> , 77, 923-930	2.8	10
54	Processing of Self-Healing Polymers for Soft Robotics. <i>Advanced Materials</i> , <b>2021</b> , e2104798	2.4	10
53	Anthracene-based polyurethane networks: Tunable thermal degradation, photochemical cure and stress-relaxation. <i>European Polymer Journal</i> , <b>2018</b> , 105, 412-420	5.2	10
52	Physicochemical characterization of nanomaterials: polymorph, composition, wettability, and thermal stability <b>2018</b> , 255-278		9
51	Predicting reflections of thin coatings. <i>Surface and Coatings Technology</i> , <b>2009</b> , 204, 551-557	4.4	9

50	Kinetics and mechanism of the pyrolysis of 1-chloro-1,1-difluoroethane in the presence of additives. <i>International Journal of Chemical Kinetics</i> , <b>1998</b> , 30, 359-366	1.4	9
49	. <i>IEEE Robotics and Automation Magazine</i> , <b>2020</b> , 27, 44-55	3.4	9
48	Oxidation barrier of Cu and Fe powder by Atomic Layer Deposition. <i>Surface and Coatings Technology</i> , <b>2018</b> , 349, 1032-1041	4.4	9
47	Investigation of self-healing compliant actuators for robotics <b>2015</b> ,		8
46	UV-Curable Biobased Polyacrylates Based on a Multifunctional Monomer Derived from Furfural. <i>Macromolecules</i> , <b>2020</b> , 53, 1388-1404	5.5	8
45	A Multi-Material Self-Healing Soft Gripper <b>2019</b> ,		8
44	Probing the bulk heterojunction morphology in thermally annealed active layers for polymer solar cells. <i>Organic Electronics</i> , <b>2017</b> , 41, 319-326	3.5	8
43	Micro- and nano-thermal analysis applied to multi-layered biaxially-oriented polypropylene films. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2009</b> , 95, 207-213	4.1	8
42	Through-thickness analysis of the skin layer thickness of multi-layered biaxially-oriented polypropylene films by micro-thermal analysis. <i>Polymer</i> , <b>2005</b> , 46, 7132-7139	3.9	8
41	Deposition Kinetics and Thermal Properties of Atmospheric Plasma Deposited Methacrylate-Like Films. <i>Plasma Processes and Polymers</i> , <b>2016</b> , 13, 521-533	3.4	7
40	Kinetics of Temperature-induced and Reaction-induced Phase Separation Studied by Modulated Temperature DSC. <i>Macromolecular Symposia</i> , <b>2006</b> , 233, 36-41	0.8	7
39	Construction of the state diagram of polymer blend thin films using differential AC chip calorimetry. <i>Polymer</i> , <b>2011</b> , 52, 4277-4283	3.9	6
38	A novel approach for the closure of large damage in self-healing elastomers using magnetic particles. <i>Polymer</i> , <b>2020</b> , 204, 122819	3.9	6
37	A novel donor-acceptor anthracene monomer: Towards faster and milder reversible dimerization. <i>Tetrahedron</i> , <b>2019</b> , 75, 912-920	2.4	6
36	Effect of Substrate Temperature on Thermal Properties and Deposition Kinetics of Atmospheric Plasma Deposited Methyl(methacrylate) Films. <i>Plasma Processes and Polymers</i> , <b>2017</b> , 14, 1500213	3.4	5
35	Thermal Properties of Plasma Deposited Methyl Methacrylate Films in an Atmospheric DBD Reactor. <i>Plasma Processes and Polymers</i> , <b>2015</b> , 12, 260-270	3.4	5
34	Incorporation of corrosion inhibitor in plasma polymerized allyl methacrylate coatings and evaluation of its corrosion performance. <i>Surface and Coatings Technology</i> , <b>2014</b> , 259, 714-724	4.4	5
33	Phase behavior in blends of ethylene oxide-propylene oxide copolymer and poly(ether sulfone) studied by modulated-temperature DSC and NMR relaxometry. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 1177-85	4.8	5



32	LCST demixing in poly(vinyl methyl ether)/water studied by means of a High Resolution Ultrasonic Resonator. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2009</b> , 98, 495-505	4.1	5
31	Influence of the amorphous phase and preceding solution processing on the eutectic behaviour in the state diagram of P3HT : PC61BM determined by rapid heat flow calorimetry. <i>RSC Advances</i> , <b>2016</b> , 6, 92981-92988	3.7	5
30	Time-Temperature-Transformation, Temperature-Conversion-Transformation, and Continuous-Heating-Transformation Diagrams of Reversible Covalent Polymer Networks. <i>Macromolecules</i> , <b>2021</b> , 54, 412-425	5.5	5
29	Electrochemical characterization of plasma coatings on printed circuit boards. <i>Progress in Organic Coatings</i> , <b>2019</b> , 137, 105256	4.8	4
28	Modelled decomposition kinetics of flame retarded poly(vinyl acetate). <i>Polymer Degradation and Stability</i> , <b>2016</b> , 130, 245-256	4.7	4
27	Recent trends in nanostructured particles: synthesis, functionalization, and applications <b>2018</b> , 605-639		4
26	Fast scanning chip calorimetry study of P3HT/PC61BM submicron layers: structure formation and eutectic behaviour. <i>Polymer International</i> , <b>2019</b> , 68, 277-282	3.3	4
25	Optimization of Extrusion Parameters for Preparing PCL-Layered Silicate Nanocomposites Supported by Modeling of Twin-Screw Extrusion. <i>Macromolecular Materials and Engineering</i> , <b>2013</b> , 298, 210-220	3.9	4
24	Partially miscible polystyrene/polymethylphenylsiloxane blends for nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 775-781	4.1	4
23	The Influence of the Furan and Maleimide Stoichiometry on the Thermoreversible Diels-Alder Network Polymerization. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
22	Quantitative analysis of polymer mixtures in solution by pulsed field-gradient spin echo NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , <b>2013</b> , 231, 46-53	3	3
21	RheoDSC: Design optimisation by heat transfer modelling. <i>Thermochimica Acta</i> , <b>2012</b> , 547, 130-140	2.9	3
20	Theoretical analysis of carbon nanotube wetting in polystyrene nanocomposites. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 11121-6	3.6	3
19	Pyrolysis of 1-chloro-1,1-difluoroethane: Considerations about its molecular nature. <i>International Journal of Chemical Kinetics</i> , <b>1999</b> , 31, 283-289	1.4	3
18	Elucidating the aspect of "phase separation" in organic blends by means of thermal analysis <b>2007</b> ,		2
17	Isothermal Elimination of n-Alkylsulfinyl OC1C10-PPV Precursor Polymers Studied with FT-IR, UVVis, and MTDSC: Kinetics of the Elimination Reaction. <i>Macromolecules</i> , <b>2006</b> , 39, 3194-3201	5.5	2
16	Non-isothermal elimination process in the solid state of n-alkyl-sulphinyl precursor polymers towards conjugated poly[2-(3,7-dimethyloctyloxy)-5-methoxy-1,4-phenylene vinylene] studied with MTDSC and TGA. <i>Polymer</i> , <b>2006</b> , 47, 7935-7942	3.9	2
15	Mathematical modeling of the thermal system of modulated temperature differential scanning calorimeter. <i>Thermochimica Acta</i> , <b>2002</b> , 391, 87-95	2.9	2

14	FEA-Based Inverse Kinematic Control: Hyperelastic Material Characterization of Self-Healing Soft Robots. <i>IEEE Robotics and Automation Magazine</i> , <b>2021</b> , 2-12	3.4	2
13	Reversible Lignin-Containing Networks Using Diels-Alder Chemistry. <i>Macromolecules</i> , <b>2021</b> , 54, 9750-9760	6.5	2
12	Thermal dissociation of anthracene photodimers in the condensed state: kinetic evaluation and complex phase behaviour. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 17306-17313	3.6	2
11	Monitoring initial contact of UV-cured organic coatings with aqueous solutions using odd random phase multisine electrochemical impedance spectroscopy. <i>Corrosion Science</i> , <b>2021</b> , 190, 109713	6.8	2
10	The Application of Modulated Temperature Differential Scanning Calorimetry for the Characterisation of Curing Systems. <i>Hot Topics in Thermal Analysis and Calorimetry</i> , <b>2006</b> , 83-160		2
9	Phase Behavior in the Active Layer of Small Molecule Organic Photovoltaics: State Diagram of p-DTS(FBTTh2)2:PC71BM. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 7566-7577	3.8	1
8	Homocoupling Defects of a Small Donor Molecule for Organic Photovoltaics: Quantification of the Eutectic State Diagram by Rapid Heat/Cool Differential Scanning Calorimetry. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 22634-22642	3.8	1
7	A Healable Resistive Heater as a Stimuli-Providing System in Self-Healing Soft Robots. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 1-1	4.2	1
6	Water permeation in coatings <b>2020</b> , 17, 1437-1445		1
5	Substituent effect on the thermophysical properties and thermal dissociation behaviour of 9-substituted anthracene derivatives. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 2252-2263	3.6	1
4	Humidity Robustness of Plasma-Coated PCBs. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 848-860	1.9	0
3	Prilling of API/fatty acid suspensions: Processability and characterisation. <i>International Journal of Pharmaceutics</i> , <b>2019</b> , 572, 118756	6.5	
2	Mechanistic modeling of the wall reactions in the pyrolysis of pentachloroethane. <i>International Journal of Chemical Kinetics</i> , <b>2002</b> , 34, 322-330	1.4	
1	Prilling of API/fatty acid suspensions: Screening of additives for drug release modification. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 576, 119022	6.5	