List of Publications by Year in descending order

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RRUNO VAN MELE

#	Article	IF	CITATIONS
1	Tuning Electronic and Morphological Properties for Highâ€Performance Wavelengthâ€Selective Organic Nearâ€Infrared Cavity Photodetectors. Advanced Functional Materials, 2022, 32, 2108146.	7.8	21
2	Hydrogen-Bond-Assisted Diels–Alder Kinetics or Self-Healing in Reversible Polymer Networks? A Combined Experimental and Theoretical Study. Molecules, 2022, 27, 1961.	1.7	5
3	UV stability of self-healing poly(methacrylate) network layers. Polymer Degradation and Stability, 2022, 199, 109930.	2.7	2
4	Phosphoniumâ€based polythiophene conjugated polyelectrolytes with different surfactant counterions: thermal properties, selfâ€assembly and photovoltaic performances. Polymer International, 2021, 70, 457-466.	1.6	4
5	Time-Temperature-Transformation, Temperature-Conversion-Transformation, and Continuous-Heating-Transformation Diagrams of Reversible Covalent Polymer Networks. Macromolecules, 2021, 54, 412-425.	2.2	17
6	From Slow to Fast Self-Healing at Ambient Temperature of High-Modulus Reversible Poly(methacrylate) Networks. Single- and Dual-Dynamics and the Effect of Phase Separation. Macromolecules, 2021, 54, 9960-9977.	2.2	11
7	Self-Healing in Mobility-Restricted Conditions Maintaining Mechanical Robustness: Furan–Maleimide Diels–Alder Cycloadditions in Polymer Networks for Ambient Applications. Polymers, 2020, 12, 2543.	2.0	21
8	Self-healing UV-curable polymer network with reversible Diels-Alder bonds for applications in ambient conditions. Polymer, 2020, 203, 122762.	1.8	23
9	Fast scanning chip calorimetry study of P3HT/PC ₆₁ BM submicron layers: structure formation and eutectic behaviour. Polymer International, 2019, 68, 277-282.	1.6	4
10	Homocoupling Defects of a Small Donor Molecule for Organic Photovoltaics: Quantification of the Eutectic State Diagram by Rapid Heat–Cool Differential Scanning Calorimetry. Journal of Physical Chemistry C, 2019, 123, 22634-22642.	1.5	1
11	Diffusion- and Mobility-Controlled Self-Healing Polymer Networks with Dynamic Covalent Bonding. Macromolecules, 2019, 52, 8440-8452.	2.2	25
12	Probing Organic Thin Films by Coherent X-ray Imaging and X-ray Scattering. ACS Applied Polymer Materials, 2019, 1, 1787-1797.	2.0	2
13	Singleâ€step solution polymerization of poly(alkylene terephthalate)s: synthesis parameters and polymer characterization. Polymer International, 2018, 67, 292-300.	1.6	16
14	Room-temperature versus heating-mediated healing of a Diels-Alder crosslinked polymer network. Polymer, 2018, 153, 453-463.	1.8	37
15	Anthracene-Based Thiol–Ene Networks with Thermo-Degradable and Photo-Reversible Properties. Macromolecules, 2017, 50, 1930-1938.	2.2	59
16	<i>In Vivo</i> Imaging of the Stability and Sustained Cargo Release of an Injectable Amphipathic Peptide-Based Hydrogel. Biomacromolecules, 2017, 18, 994-1001.	2.6	25
17	Supramolecular thermoplastics and thermoplastic elastomer materials with self-healing ability based on oligomeric charged triblock copolymers. NPG Asia Materials, 2017, 9, e385-e385.	3.8	30
18	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.	1.8	45

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19	Modelled decomposition mechanism of flame retarded poly(vinyl acetate) by melamine isocyanurate. Journal of Thermal Analysis and Calorimetry, 2017, 127, 2315-2324.	2.0	8
20	Effect of Substrate Temperature on Thermal Properties and Deposition Kinetics of Atmospheric Plasma Deposited Methyl(methacrylate) Films. Plasma Processes and Polymers, 2017, 14, 1500213.	1.6	5
21	The Influence of Conjugated Polymer Side Chain Manipulation on the Efficiency and Stability of Polymer Solar Cells. Materials, 2016, 9, 181.	1.3	13
22	X-Ray Nanoscopy of a Bulk Heterojunction. PLoS ONE, 2016, 11, e0158345.	1.1	7
23	Influence of the amorphous phase and preceding solution processing on the eutectic behaviour in the state diagram of P3HT : PC ₆₁ BM determined by rapid heat–cool calorimetry. RSC Advanc 2016, 6, 92981-92988.	e \$, 7	6
24	High-Permittivity Conjugated Polyelectrolyte Interlayers for High-Performance Bulk Heterojunction Organic Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 6309-6314.	4.0	37
25	Extremely robust and post-functionalizable gold nanoparticles coated with calix[4]arenes via metal–carbon bonds. Chemical Communications, 2016, 52, 10493-10496.	2.2	32
26	Deposition Kinetics and Thermal Properties of Atmospheric Plasma Deposited Methacrylate-Like Films. Plasma Processes and Polymers, 2016, 13, 521-533.	1.6	7
27	Injectable peptide hydrogels for controlled-release of opioids. MedChemComm, 2016, 7, 542-549.	3.5	27
28	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.	1.8	16
29	Thermal Properties of Plasma Deposited Methyl Methacrylate Films in an Atmospheric DBD Reactor. Plasma Processes and Polymers, 2015, 12, 260-270.	1.6	7
30	lsothermal structure development in submicron P3HT layers studied by fast scanning chip calorimetry. Polymer, 2015, 57, 39-44.	1.8	23
31	Self-assembled conjugated polyelectrolyte–surfactant complexes as efficient cathode interlayer materials for bulk heterojunction organic solar cells. Journal of Materials Chemistry A, 2015, 3, 23905-23916.	5.2	16
32	Adhesion Improvement between Epoxy and Stainless Steel Using a Silane Coupling Agent in an Atmospheric Plasma Process. Plasma Processes and Polymers, 2015, 12, 347-361.	1.6	16
33	Optimisation of wet chemical silane deposition to improve the interfacial strength of stainless steel/epoxy. Applied Surface Science, 2015, 324, 134-142.	3.1	23
34	A Latexâ€ <scp>B</scp> ased Route to Disperse Carbon Nanotubes in Poly(2,6â€ <scp>D</scp> imethylâ€1,4â€ <scp>P</scp> henylene Ether)/ <scp>P</scp> olystyrene Blends. Macromolecular Materials and Engineering, 2014, 299, 228-236.	1.7	4
35	Atomic force microscopy–based study of self-healing coatings based on reversible polymer network systems. Journal of Intelligent Material Systems and Structures, 2014, 25, 40-46.	1.4	36
36	Synthesis of ester side chain functionalized all-conjugated diblock copolythiophenes via the Rieke method. Polymer Chemistry, 2014, 5, 1832.	1.9	14

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37	A time dependent DFT study of the efficiency of polymers for organic photovoltaics at the interface with PCBM. RSC Advances, 2014, 4, 52658-52667.	1.7	17
38	All-conjugated cationic copolythiophene "rod–rod―block copolyelectrolytes: synthesis, optical properties and solvent-dependent assembly. Polymer Chemistry, 2014, 5, 3352-3362.	1.9	18
39	Optimization of Extrusion Parameters for Preparing PCL‣ayered Silicate Nanocomposites Supported by Modeling of Twin‧crew Extrusion. Macromolecular Materials and Engineering, 2013, 298, 210-220.	1.7	6
40	A self-healing polymer network based on reversible covalent bonding. Reactive and Functional Polymers, 2013, 73, 413-420.	2.0	137
41	Plasma Polymerization of a Saturated Branched Hydrocarbon. The Case of Heptamethylnonane. Plasma Processes and Polymers, 2013, 10, 51-59.	1.6	15
42	The Impact of Double Bonds in the APPECVD of Acrylate-Like Precursors. Plasma Processes and Polymers, 2013, 10, 857-863.	1.6	27
43	Surface Characterization of Atmospheric Pressure Plasmaâ€Đeposited Allyl Methacrylate and Acrylic Acid Based Coatings. Plasma Processes and Polymers, 2013, 10, 564-571.	1.6	27
44	Influence of temperature and UV intensity on photo-polymerization reaction studied by photo-DSC. Journal of Thermal Analysis and Calorimetry, 2012, 110, 287-294.	2.0	40
45	Influence of the processing solvent on the photoactive layer nanomorphology of P3HT/PC ₆₀ BM solar cells. Journal of Polymer Science Part A, 2012, 50, 1037-1041.	2.5	14
46	Deposition and Characterisation of Plasma Polymerised Allyl Methacrylate Based Coatings. Plasma Processes and Polymers, 2012, 9, 799-807.	1.6	21
47	The effect of nano-sized filler particles on the crystalline-amorphous interphase and thermal properties in polyester nanocomposites. Polymer, 2012, 53, 1494-1506.	1.8	24
48	Phase behavior of PCBM blends with different conjugated polymers. Physical Chemistry Chemical Physics, 2011, 13, 12285.	1.3	27
49	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.	2.2	22
50	Self-healing property characterization of reversible thermoset coatings. Journal of Thermal Analysis and Calorimetry, 2011, 105, 805-809.	2.0	58
51	Rheology of nanocomposites. Journal of Thermal Analysis and Calorimetry, 2011, 105, 731-736.	2.0	16
52	Partially miscible polystyrene/polymethylphenylsiloxane blends for nanocomposites. Journal of Thermal Analysis and Calorimetry, 2011, 105, 775-781.	2.0	4
53	Isothermal crystallization of P3HT:PCBM blends studied by RHC. Journal of Thermal Analysis and Calorimetry, 2011, 105, 845-849.	2.0	17
54	Phase separation in polymer blend thin films studied by differential AC chip calorimetry. Polymer, 2010, 51, 647-654.	1.8	28

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55	Qualitative assessment of nanofiller dispersion in poly(ε-caprolactone) nanocomposites by mechanical testing, dynamic rheometry and advanced thermal analysis. European Polymer Journal, 2010, 46, 984-996.	2.6	33
56	RheoDSC Analysis of Hardening of Semi-Crystalline Polymers during Quiescent Isothermal Crystallization. International Polymer Processing, 2010, 25, 304-310.	0.3	17
57	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.	2.2	54
58	From polyester grafting onto POSS nanocage by ring-opening polymerization to high performance polyester/POSS nanocomposites. Journal of Materials Chemistry, 2010, 20, 9415.	6.7	45
59	Quantifying the degree of nanofiller dispersion by advanced thermal analysis: application to polyester nanocomposites prepared by various elaboration methods. Journal of Materials Chemistry, 2010, 20, 9531.	6.7	22
60	Phase Behavior in Blends of Ethylene Oxide–Propylene Oxide Copolymer and Poly(ether sulfone) Studied by Modulatedâ€Temperature DSC and NMR Relaxometry. Chemistry - A European Journal, 2009, 15, 1177-1185.	1.7	6
61	Micro- and nano-thermal analysis applied to multi-layered biaxially-oriented polypropylene films. Journal of Thermal Analysis and Calorimetry, 2009, 95, 207-213.	2.0	8
62	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.	2.0	5
63	RheoDSC: design and validation of a new hybrid measurement technique. Journal of Thermal Analysis and Calorimetry, 2009, 98, 675-681.	2.0	18
64	Demixing and Remixing Kinetics in Aqueous Dispersions of Poly(<i>N</i> -isopropylacrylamide) (PNIPAM) Brushes Bound to Gold Nanoparticles Studied by Means of Modulated Temperature Differential Scanning Calorimetry. Macromolecules, 2009, 42, 5317-5327.	2.2	23
65	Isotactic Polypropylene/Carbon Nanotube Composites Prepared by Latex Technology. Thermal Analysis of Carbon Nanotube-Induced Nucleation. Macromolecules, 2008, 41, 5753-5762.	2.2	126
66	On the Crucial Role of Wetting in the Preparation of Conductive Polystyreneâ ² Carbon Nanotube Composites. Chemistry of Materials, 2007, 19, 3787-3792.	3.2	84
67	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.	2.2	53
68	Dye–fiber interactions in PET fibers: Hydrogen bonding studied by IRâ€spectroscopy. Journal of Applied Polymer Science, 2007, 106, 1648-1658.	1.3	5
69	Interfacial interaction in EVA-carbon nanotube and EVA-clay nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 1291-1302.	2.4	24
70	Thermal hardening and structure of a phosphorus containing cementitious model material. Journal of Thermal Analysis and Calorimetry, 2007, 88, 723-729.	2.0	35
71	Reaction mechanism, kinetics and high temperature transformations of geopolymers. Journal of Materials Science, 2007, 42, 2982-2996.	1.7	170
72	Kinetics of Temperature-induced and Reaction-induced Phase Separation Studied by Modulated Temperature DSC. Macromolecular Symposia, 2006, 233, 36-41.	0.4	8

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73	End-group modified poly(methyl vinyl ether): Characterization and LCST demixing behavior in water. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 461-469.	2.4	28
74	Restricted chain segment mobility in poly(amide) 6/clay nanocomposites evidenced by quasi-isothermal crystallization. Polymer, 2006, 47, 826-835.	1.8	97
75	The anomalous melting behavior of water in aqueous PVME solutions. Polymer, 2006, 47, 7034-7042.	1.8	23
76	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. Polymer, 2006, 47, 7935-7942.	1.8	2
77	Exploration of high-resolution ultrasonic spectroscopy as an analytical tool to study demixing and remixing in poly(N-isopropyl acrylamide)/water solutions. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1283-1295.	2.4	26
78	Heat capacity of poly(vinyl methyl ether). Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 2141-2153.	2.4	27
79	Influence of Additives on the Thermoresponsive Behavior of Polymers in Aqueous Solution. Macromolecules, 2005, 38, 10155-10163.	2.2	135
80	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.	1.3	41
81	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.	1.3	38
82	Kinetics of Demixing and Remixing in Poly(N-isopropylacrylamide)/Water Studied by Modulated Temperature DSC. Macromolecules, 2004, 37, 9596-9605.	2.2	141
83	Influence of Poly(ethylene oxide) Grafts on Kinetics of LCST Behavior in Aqueous Poly(N-vinylcaprolactam) Solutions and Networks Studied by Modulated Temperature DSC. Macromolecules, 2004, 37, 1054-1061.	2.2	106
84	Title is missing!. Journal of Materials Science, 2003, 38, 3131-3136.	1.7	73
85	Thermal properties relevant to the processing of PET fibers. Journal of Applied Polymer Science, 2003, 89, 3840-3849.	1.3	33
86	Interrelation between dyeing and thermal properties of PET fibers. Journal of Applied Polymer Science, 2003, 90, 105-114.	1.3	13
87	Reaction thermodynamics of amine-cured epoxy systems: Validation of the enthalpy and heat capacity of reaction as determined by modulated temperature differential scanning calorimetry. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 594-608.	2.4	31
88	Modulated-temperature differential scanning calorimetry study of temperature-induced mixing and demixing in poly(vinylmethylether)/water. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 1824-1836.	2.4	45
89	Mechanistic Modeling of the Epoxyâ^'Amine Reaction in the Presence of Polymeric Modifiers by Means of Modulated Temperature DSC. Macromolecules, 2003, 36, 4424-4435.	2.2	40
90	In situ monitoring of reaction-induced phase separation with modulated temperature DSC. Macromolecular Symposia, 2003, 198, 363-376.	0.4	6

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91	On the entanglement density of differently N-substituted alternating styrene-maleimide copolymers. E-Polymers, 2003, 3, .	1.3	1
92	Mechanistic modeling of the wall reactions in the pyrolysis of pentachloroethane. International Journal of Chemical Kinetics, 2002, 34, 322-330.	1.0	0
93	Modeling and experimental verification of the kinetics of reacting polymer systems. Thermochimica Acta, 2002, 388, 327-341.	1.2	54
94	Kinetics of demixing and remixing in poly(ethylene oxide)/poly(ether sulphone) blends as studied by modulated temperature differential scanning calorimetry. Polymer, 2002, 43, 3611-3620.	1.8	32
95	Interphase formation in model composites studied by micro-thermal analysis. Polymer, 2002, 43, 4605-4610.	1.8	33
96	Frequency dependent heat capacity in the cure of epoxy resins. Thermochimica Acta, 2001, 377, 125-130.	1.2	25
97	Phase separation in miscible polymer blends as detected by modulated temperature differential scanning calorimetry. Polymer, 2001, 42, 1449-1459.	1.8	42
98	Flexibilized styrene-N-substituted maleimide copolymers. I. Multiblock copolymers prepared from styrene-maleimide telechelics and polytetrahydrofuran. Journal of Polymer Science Part A, 2000, 38, 3550-3557.	2.5	9
99	Title is missing!. Magyar Apróvad Közlemények, 2000, 59, 305-318.	1.4	23
100	Title is missing!. Magyar Apróvad Közlemények, 2000, 62, 417-427.	1.4	65
101	Isothermal crystallization of concentrated amorphous starch systems measured by modulated differential scanning calorimetry. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 2881-2892.	2.4	25
102	Title is missing!. Magyar Apróvad Közlemények, 1998, 54, 585-604.	1.4	53
103	Title is missing!. Journal of Materials Science, 1997, 32, 2237-2247.	1.7	183
104	Modulated temperature differential scanning calorimetry. Journal of Theoretical Biology, 1997, 49, 437-442.	0.8	29
105	Modulated temperature differential scanning calorimetry. Journal of Theoretical Biology, 1997, 49, 443-447.	0.8	19
106	Low-temperature synthesized aluminosilicate glasses. Journal of Materials Science, 1996, 31, 71-79.	1.7	198
107	Low-temperature synthesized aluminosilicate glasses. Journal of Materials Science, 1996, 31, 80-85.	1.7	134
108	Physico-Chemical Characterisation of the Influence of Moisture on the Fibre/Matrix Interaction in Epoxy/Anhydride Composites. Journal of Adhesion, 1996, 57, 245-260.	1.8	8

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109	Physico-chemical characterization of the fibre/matrix interaction in polyethylene fibre/epoxy matrix composites. Composite Interfaces, 1995, 3, 101-119.	1.3	9
110	Physico-chemical characterization of the fibre/matrix interaction in polyethylene fibre/epoxy matrix composites. Composite Interfaces, 1995, 3, 83-100.	1.3	8