John M Hutchinson

List of Publications by Year
in descending order

72 papers	2,924 citations	201674 27 h-index	168389 53 g-index
72 all docs	72 docs citations	72 times ranked	2173 citing authors

#	Article	IF	Citations
1	The surface modification of boron nitride particles. Journal of Thermal Analysis and Calorimetry, 2021, 143, 151-163.	3.6	10
2	Densification: A Route towards Enhanced Thermal Conductivity of Epoxy Composites. Polymers, 2021, 13, 286.	4.5	5
3	Remarkable Thermal Conductivity of Epoxy Composites Filled with Boron Nitride and Cured under Pressure. Polymers, 2021, 13, 955.	4.5	10
4	Thermal Conductivity and Cure Kinetics of Epoxy-Boron Nitride Compositesâ€"A Review. Materials, 2020, 13, 3634.	2.9	28
5	Epoxy composites filled with boron nitride: cure kinetics and the effect of particle shape on the thermal conductivity. Journal of Thermal Analysis and Calorimetry, 2020, 142, 595-605.	3.6	9
6	Achieving High Thermal Conductivity in Epoxy Composites: Effect of Boron Nitride Particle Size and Matrix-Filler Interface. Polymers, 2019, 11, 1156.	4.5	54
7	Study of Hyperbranched Poly(ethyleneimine) Polymers of Different Molecular Weight and Their Interaction with Epoxy Resin. Materials, 2018, 11, 410.	2.9	24
8	Epoxy-Thiol Systems Filled with Boron Nitride for High Thermal Conductivity Applications. Polymers, 2018, 10, 340.	4.5	17
9	Study of the Molecular Dynamics of Multiarm Star Polymers with a Poly(ethyleneimine) Core and Poly(lactide) Multiarms. Materials, 2017, 10, 127.	2.9	6
10	Epoxy composites filled with boron nitride and aluminum nitride for improved thermal conductivity. Polimery, 2017, 62, 560-566.	0.7	14
11	Molecular Mobility in Hyperbranched Polymers and Their Interaction with an Epoxy Matrix. Materials, 2016, 9, 192.	2.9	17
12	The application of thermal analysis to the study of epoxyâ€"clay nanocomposites. Journal of Thermal Analysis and Calorimetry, 2016, 125, 617-628.	3.6	4
13	A novel comparative study of different layered silicate clay types on exfoliation process and final nanostructure of trifunctional epoxy nanocomposites. Polymer Testing, 2016, 56, 148-155.	4.8	3
14	Non-isothermal cure and exfoliation of tri-functional epoxy-clay nanocomposites. EXPRESS Polymer Letters, 2015, 9, 695-708.	2.1	5
15	Comparison of the Nanostructure and Mechanical Performance of Highly Exfoliated Epoxy-Clay Nanocomposites Prepared by Three Different Protocols. Materials, 2014, 7, 4196-4223.	2.9	9
16	A New Epoxy-Based Layered Silicate Nanocomposite Using a Hyperbranched Polymer: Study of the Curing Reaction and Nanostructure Development. Materials, 2014, 7, 1830-1849.	2.9	23
17	Highly exfoliated nanostructure in trifunctional epoxy/clay nanocomposites using boron trifluoride as initiator. Journal of Applied Polymer Science, 2014, 131, .	2.6	9
18	Influence of the isothermal cure temperature on the nanostructure and thermal properties of an epoxy layered silicate nanocomposite. Polymer Engineering and Science, 2014, 54, 51-58.	3.1	18

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19	Thermal analysis of polymer layered silicate nanocomposites. Journal of Thermal Analysis and Calorimetry, 2014, 118, 723-729.	3.6	13
20	Comparative results between three protocols for achieving highly exfoliated epoxy-clay nanocomposites. Polimery, 2014, 59, 636-642.	0.7	2
21	Isothermal curing of polymer layered silicate nanocomposites based upon epoxy resin by means of anionic homopolymerisation. Thermochimica Acta, 2013, 574, 98-108.	2.7	9
22	Intraâ€•and extraâ€gallery reactions in triâ€functional epoxy polymer layered silicate nanocomposites. Journal of Applied Polymer Science, 2013, 128, 2961-2970.	2.6	13
23	Identification of nanostructural development in epoxy polymer layered silicate nanocomposites from the interpretation of differential scanning calorimetry and dielectric spectroscopy. Thermochimica Acta, 2012, 541, 76-85.	2.7	13
24	Determination of the Glass Transition by DSC: A Comparison of Conventional and Dynamic Techniques. Hot Topics in Thermal Analysis and Calorimetry, 2012, , 135-146.	0.5	0
25	Elastomeric epoxy nanocomposites: Nanostructure and properties. Composites Science and Technology, 2012, 72, 640-646.	7.8	12
26	Isothermal and non-isothermal cure of a tri-functional epoxy resin (TGAP): A stochastic TMDSC study. Thermochimica Acta, 2012, 529, 14-21.	2.7	22
27	Vitrification and devitrification during the non-isothermal cure of a thermoset. Journal of Thermal Analysis and Calorimetry, 2010, 99, 925-929.	3.6	11
28	Vitrification and Devitrification during the Nonâ€Isothermal Cure of a Thermoset. Theoretical Model and Comparison with Calorimetric Experiments. Macromolecular Chemistry and Physics, 2010, 211, 57-65.	2.2	13
29	Homopolymerization effects in polymer layered silicate nanocomposites based upon epoxy resin: Implications for exfoliation. Journal of Applied Polymer Science, 2009, 114, 1040-1047.	2.6	24
30	Determination of the glass transition temperature. Journal of Thermal Analysis and Calorimetry, 2009, 98, 579-589.	3.6	81
31	Vitrification during the isothermal cure of thermosets. Journal of Thermal Analysis and Calorimetry, 2008, 91, 687-695.	3.6	26
32	Vitrification during the Isothermal Cure of Thermosets: Comparison of Theoretical Simulations with Temperatureâ€Modulated DSC and Dielectric Analysis. Macromolecular Chemistry and Physics, 2008, 209, 2003-2011.	2.2	18
33	Analysis of the cure of epoxy based layered silicate nanocomposites: Reaction kinetics and nanostructure development. Journal of Applied Polymer Science, 2008, 108, 923-938.	2.6	50
34	Unified Approach to Ion Transport and Structural Relaxation in Amorphous Polymers and Glasses. Journal of Physical Chemistry B, 2008, 112, 859-866.	2.6	21
35	High Pressure Differential Scanning Calorimetry Investigations on the Pressure Dependence of the Melting of Paracetamol Polymorphs I and II. Journal of Pharmaceutical Sciences, 2007, 96, 2784-2794.	3.3	45
36	On the effect of montmorillonite in the curing reaction of epoxy nanocomposites. Journal of Thermal Analysis and Calorimetry, 2007, 87, 113-118.	3.6	51

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37	TOPEM, a new temperature modulated DSC technique. Journal of Thermal Analysis and Calorimetry, 2007, 87, 119-124.	3.6	45
38	High pressure differential scanning calorimetry: Aspects of calibration. Thermochimica Acta, 2006, 446, 66-72.	2.7	20
39	Physical aging of thermosetting powder coatings. Progress in Organic Coatings, 2006, 55, 35-42.	3.9	26
40	Intercalation of epoxy resin in organically modified montmorillonite. Journal of Applied Polymer Science, 2006, 102, 3751-3763.	2.6	42
41	Effect of cooling rate and frequency on the calorimetric measurement of the glass transition. Polymer, 2005, 46, 12181-12189.	3.8	35
42	Studying the Glass Transition by DSC and TMDSC. Journal of Thermal Analysis and Calorimetry, 2003, 72, 619-629.	3.6	45
43	On the application of the Adamâ€“Gibbs equation to the non-equilibrium glassy state. Journal of Non-Crystalline Solids, 2002, 307-310, 412-416.	3.1	5
44	An introduction to temperature modulated differential scanning calorimetry (TMDSC): a relatively non-mathematical approach. Thermochimica Acta, 2002, 387, 75-93.	2.7	41
45	Enthalpy relaxation in polyvinyl acetate. Thermochimica Acta, 2002, 391, 197-217.	2.7	62
46	The application of temperature-modulated DSC to the glass transition region. Thermochimica Acta, 2001, 377, 63-84.	2.7	44
47	Enthalpy relaxation of non-stoichiometric epoxy-amine resins. Polymer, 2001, 42, 7081-7093.	3.8	58
48	Measurement of the wax appearance temperatures of crude oils by temperature modulated differential scanning calorimetry. Fuel, 2001, 80, 367-371.	6.4	53
49	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2001, 64, 85-107.	1.4	8
50	Effect of crosslink length on the enthalpy relaxation of fully cured epoxy-diamine resins. , 2000, 38, 456-468.		30
51	Application of the Adamâ"Gibbs Equation to the Non-Equilibrium Glassy State. Macromolecules, 2000, 33, 5252-5262.	4.8	52
52	Aging of polycarbonate studied by temperature modulated differential scanning calorimetry. Thermochimica Acta, 1999, 335, 27-42.	2.7	36
53	Temperature modulated differential scanning calorimetry. Part III. Effect of heat transfer on phase angle in quasi-isothermal ADSC. Thermochimica Acta, 1999, 336, 27-40.	2.7	11
54	Physical Aging of Polycarbonate: Enthalpy Relaxation, Creep Response, and Yielding Behavior. Macromolecules, 1999, 32, 5046-5061.	4.8	156

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55	Enthalpy relaxation in polymethyl(?-n-alkyl)acrylates: Effect of length of alkyl chain. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 583-593.	2.1	18
56	Interpretation of glass transition phenomena in the light of the strength-fragility concept. Polymer International, 1998, 47, 56-64.	3.1	30
57	Temperature-modulated differential scanning calorimetry. Part II. Determination of activation energies. Polymer International, 1998, 47, 72-75.	3.1	18
58	Temperature modulated differential scanning calorimetry. Part I:. Thermochimica Acta, 1998, 315, 1-9.	2.7	43
59	Characterising the glass transition and relaxation kinetics by conventional and temperature-modulated differential scanning calorimetry. Thermochimica Acta, 1998, 324, 165-174.	2.7	55
60	The application of modulated differential scanning calorimetry to the glass transition of polymers. I. A single-parameter theoretical model and its predictions. Thermochimica Acta, 1996, 286, 263-296.	2.7	50
61	Physical aging in polymers: Comparison of two ways of determining narayanaswamy's parameter. Polymer Engineering and Science, 1996, 36, 2978-2985.	3.1	21
62	Physical aging of polymers. Progress in Polymer Science, 1995, 20, 703-760.	24.7	852
63	Lithium borate glasses: a quantitative study of strength and fragility. Journal of Non-Crystalline Solids, 1994, 172-174, 378-383.	3.1	58
64	The appearance of annealing pre-peaks in inorganic glasses: new experimental results and theoretical interpretation. Journal of Non-Crystalline Solids, 1994, 172-174, 584-591.	3.1	10
65	Physical aging and enthalpy relaxation in polypropylene. Journal of Non-Crystalline Solids, 1994, 172-174, 592-596.	3.1	10
66	Structural relaxation in fully cured epoxy resins. Journal of Non-Crystalline Solids, 1994, 172-174, 1017-1022.	3.1	32
67	On the use of a density gradient column to monitor the physical ageing of polystyrene. Polymer, 1992, 33, 4875-4877.	3.8	7
68	Structural recovery in silver iodide containing glasses: illustration of the use of the peak-shift method for the evaluation of the Narayanaswamy parameter x. Journal of Non-Crystalline Solids, 1991, 131-133, 483-487.	3.1	19
69	Thermal cycling of glasses. III. Upper peaks. Journal of Polymer Science, Part B: Polymer Physics, 1990, 28, 2127-2163.	2.1	71
70	Structural recovery in glass. Journal of Non-Crystalline Solids, 1989, 108, 225-232.	3.1	5
71	Thermal cycling of glasses. II. Experimental evaluation of the structure (or nonlinearity) parameter x. Journal of Polymer Science, Part B: Polymer Physics, 1988, 26, 2341-2366.	2.1	114
72	Differential scanning calorimetry of polymer glasses: corrections for thermal lag. Polymer, 1988, 29, 152-159.	3.8	53