

# John M Hutchinson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7536462/publications.pdf>

Version: 2024-02-01

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	Physical aging of polymers. <i>Progress in Polymer Science</i> , 1995, 20, 703-760.	24.7	852
2	Physical Aging of Polycarbonate: Enthalpy Relaxation, Creep Response, and Yielding Behavior. <i>Macromolecules</i> , 1999, 32, 5046-5061.	4.8	156
3	Thermal cycling of glasses. II. Experimental evaluation of the structure (or nonlinearity) parameter $x$ . <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1988, 26, 2341-2366.	2.1	114
4	Determination of the glass transition temperature. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 98, 579-589.	3.6	81
5	Thermal cycling of glasses. III. Upper peaks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1990, 28, 2127-2163.	2.1	71
6	Enthalpy relaxation in polyvinyl acetate. <i>Thermochimica Acta</i> , 2002, 391, 197-217.	2.7	62
7	Lithium borate glasses: a quantitative study of strength and fragility. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 378-383.	3.1	58
8	Enthalpy relaxation of non-stoichiometric epoxy-amine resins. <i>Polymer</i> , 2001, 42, 7081-7093.	3.8	58
9	Characterising the glass transition and relaxation kinetics by conventional and temperature-modulated differential scanning calorimetry. <i>Thermochimica Acta</i> , 1998, 324, 165-174.	2.7	55
10	Achieving High Thermal Conductivity in Epoxy Composites: Effect of Boron Nitride Particle Size and Matrix-Filler Interface. <i>Polymers</i> , 2019, 11, 1156.	4.5	54
11	Differential scanning calorimetry of polymer glasses: corrections for thermal lag. <i>Polymer</i> , 1988, 29, 152-159.	3.8	53
12	Measurement of the wax appearance temperatures of crude oils by temperature modulated differential scanning calorimetry. <i>Fuel</i> , 2001, 80, 367-371.	6.4	53
13	Application of the Adam-Gibbs Equation to the Non-Equilibrium Glassy State. <i>Macromolecules</i> , 2000, 33, 5252-5262.	4.8	52
14	On the effect of montmorillonite in the curing reaction of epoxy nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 87, 113-118.	3.6	51
15	The application of modulated differential scanning calorimetry to the glass transition of polymers. I. A single-parameter theoretical model and its predictions. <i>Thermochimica Acta</i> , 1996, 286, 263-296.	2.7	50
16	Analysis of the cure of epoxy based layered silicate nanocomposites: Reaction kinetics and nanostructure development. <i>Journal of Applied Polymer Science</i> , 2008, 108, 923-938.	2.6	50
17	Studying the Glass Transition by DSC and TMDSC. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 72, 619-629.	3.6	45
18	High Pressure Differential Scanning Calorimetry Investigations on the Pressure Dependence of the Melting of Paracetamol Polymorphs I and II. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 2784-2794.	3.3	45

#	ARTICLE	IF	CITATIONS
19	TOPEM, a new temperature modulated DSC technique. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 87, 119-124.	3.6	45
20	The application of temperature-modulated DSC to the glass transition region. <i>Thermochimica Acta</i> , 2001, 377, 63-84.	2.7	44
21	Temperature modulated differential scanning calorimetry. Part I:. <i>Thermochimica Acta</i> , 1998, 315, 1-9.	2.7	43
22	Intercalation of epoxy resin in organically modified montmorillonite. <i>Journal of Applied Polymer Science</i> , 2006, 102, 3751-3763.	2.6	42
23	An introduction to temperature modulated differential scanning calorimetry (TMDSC): a relatively non-mathematical approach. <i>Thermochimica Acta</i> , 2002, 387, 75-93.	2.7	41
24	Aging of polycarbonate studied by temperature modulated differential scanning calorimetry. <i>Thermochimica Acta</i> , 1999, 335, 27-42.	2.7	36
25	Effect of cooling rate and frequency on the calorimetric measurement of the glass transition. <i>Polymer</i> , 2005, 46, 12181-12189.	3.8	35
26	Structural relaxation in fully cured epoxy resins. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 1017-1022.	3.1	32
27	Interpretation of glass transition phenomena in the light of the strength-fragility concept. <i>Polymer International</i> , 1998, 47, 56-64.	3.1	30
28	Effect of crosslink length on the enthalpy relaxation of fully cured epoxy-diamine resins. , 2000, 38, 456-468.		30
29	Thermal Conductivity and Cure Kinetics of Epoxy-Boron Nitride Compositesâ€™A Review. <i>Materials</i> , 2020, 13, 3634.	2.9	28
30	Physical aging of thermosetting powder coatings. <i>Progress in Organic Coatings</i> , 2006, 55, 35-42.	3.9	26
31	Vitrification during the isothermal cure of thermosets. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 91, 687-695.	3.6	26
32	Homopolymerization effects in polymer layered silicate nanocomposites based upon epoxy resin: Implications for exfoliation. <i>Journal of Applied Polymer Science</i> , 2009, 114, 1040-1047.	2.6	24
33	Study of Hyperbranched Poly(ethyleneimine) Polymers of Different Molecular Weight and Their Interaction with Epoxy Resin. <i>Materials</i> , 2018, 11, 410.	2.9	24
34	A New Epoxy-Based Layered Silicate Nanocomposite Using a Hyperbranched Polymer: Study of the Curing Reaction and Nanostructure Development. <i>Materials</i> , 2014, 7, 1830-1849.	2.9	23
35	Isothermal and non-isothermal cure of a tri-functional epoxy resin (TGAP): A stochastic TMDSC study. <i>Thermochimica Acta</i> , 2012, 529, 14-21.	2.7	22
36	Physical aging in polymers: Comparison of two ways of determining narayanaswamy's parameter. <i>Polymer Engineering and Science</i> , 1996, 36, 2978-2985.	3.1	21

#	ARTICLE	IF	CITATIONS
37	Unified Approach to Ion Transport and Structural Relaxation in Amorphous Polymers and Glasses. <i>Journal of Physical Chemistry B</i> , 2008, 112, 859-866.	2.6	21
38	High pressure differential scanning calorimetry: Aspects of calibration. <i>Thermochimica Acta</i> , 2006, 446, 66-72.	2.7	20
39	Structural recovery in silver iodide containing glasses: illustration of the use of the peak-shift method for the evaluation of the Narayanaswamy parameter $x$ . <i>Journal of Non-Crystalline Solids</i> , 1991, 131-133, 483-487.	3.1	19
40	Enthalpy relaxation in polymethyl( <i>n</i> -alkyl)acrylates: Effect of length of alkyl chain. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 583-593.	2.1	18
41	Temperature-modulated differential scanning calorimetry. Part II. Determination of activation energies. <i>Polymer International</i> , 1998, 47, 72-75.	3.1	18
42	Vitrification during the Isothermal Cure of Thermosets: Comparison of Theoretical Simulations with Temperature-Modulated DSC and Dielectric Analysis. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 2003-2011.	2.2	18
43	Influence of the isothermal cure temperature on the nanostructure and thermal properties of an epoxy layered silicate nanocomposite. <i>Polymer Engineering and Science</i> , 2014, 54, 51-58.	3.1	18
44	Molecular Mobility in Hyperbranched Polymers and Their Interaction with an Epoxy Matrix. <i>Materials</i> , 2016, 9, 192.	2.9	17
45	Epoxy-Thiol Systems Filled with Boron Nitride for High Thermal Conductivity Applications. <i>Polymers</i> , 2018, 10, 340.	4.5	17
46	Epoxy composites filled with boron nitride and aluminum nitride for improved thermal conductivity. <i>Polimery</i> , 2017, 62, 560-566.	0.7	14
47	Vitrification and Devitrification during the Non-Isothermal Cure of a Thermoset. Theoretical Model and Comparison with Calorimetric Experiments. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 57-65.	2.2	13
48	Identification of nanostructural development in epoxy polymer layered silicate nanocomposites from the interpretation of differential scanning calorimetry and dielectric spectroscopy. <i>Thermochimica Acta</i> , 2012, 541, 76-85.	2.7	13
49	Intra- and extra-gallery reactions in tri-functional epoxy polymer layered silicate nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 128, 2961-2970.	2.6	13
50	Thermal analysis of polymer layered silicate nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 723-729.	3.6	13
51	Elastomeric epoxy nanocomposites: Nanostructure and properties. <i>Composites Science and Technology</i> , 2012, 72, 640-646.	7.8	12
52	Temperature modulated differential scanning calorimetry. Part III. Effect of heat transfer on phase angle in quasi-isothermal ADSC. <i>Thermochimica Acta</i> , 1999, 336, 27-40.	2.7	11
53	Vitrification and devitrification during the non-isothermal cure of a thermoset. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 99, 925-929.	3.6	11
54	The appearance of annealing pre-peaks in inorganic glasses: new experimental results and theoretical interpretation. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 584-591.	3.1	10

#	ARTICLE	IF	CITATIONS
55	Physical aging and enthalpy relaxation in polypropylene. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 592-596.	3.1	10
56	The surface modification of boron nitride particles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 151-163.	3.6	10
57	Remarkable Thermal Conductivity of Epoxy Composites Filled with Boron Nitride and Cured under Pressure. <i>Polymers</i> , 2021, 13, 955.	4.5	10
58	Isothermal curing of polymer layered silicate nanocomposites based upon epoxy resin by means of anionic homopolymerisation. <i>Thermochimica Acta</i> , 2013, 574, 98-108.	2.7	9
59	Comparison of the Nanostructure and Mechanical Performance of Highly Exfoliated Epoxy-Clay Nanocomposites Prepared by Three Different Protocols. <i>Materials</i> , 2014, 7, 4196-4223.	2.9	9
60	Highly exfoliated nanostructure in trifunctional epoxy/clay nanocomposites using boron trifluoride as initiator. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	9
61	Epoxy composites filled with boron nitride: cure kinetics and the effect of particle shape on the thermal conductivity. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 595-605.	3.6	9
62	Title is missing!. <i>Magyar Árvad Kzlemnyek</i> , 2001, 64, 85-107.	1.4	8
63	On the use of a density gradient column to monitor the physical ageing of polystyrene. <i>Polymer</i> , 1992, 33, 4875-4877.	3.8	7
64	Study of the Molecular Dynamics of Multiarm Star Polymers with a Poly(ethyleneimine) Core and Poly(lactide) Multiarms. <i>Materials</i> , 2017, 10, 127.	2.9	6
65	Structural recovery in glass. <i>Journal of Non-Crystalline Solids</i> , 1989, 108, 225-232.	3.1	5
66	On the application of the Adam-Gibbs equation to the non-equilibrium glassy state. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 412-416.	3.1	5
67	Non-isothermal cure and exfoliation of tri-functional epoxy-clay nanocomposites. <i>EXPRESS Polymer Letters</i> , 2015, 9, 695-708.	2.1	5
68	Densification: A Route towards Enhanced Thermal Conductivity of Epoxy Composites. <i>Polymers</i> , 2021, 13, 286.	4.5	5
69	The application of thermal analysis to the study of epoxy-clay nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 617-628.	3.6	4
70	A novel comparative study of different layered silicate clay types on exfoliation process and final nanostructure of trifunctional epoxy nanocomposites. <i>Polymer Testing</i> , 2016, 56, 148-155.	4.8	3
71	Comparative results between three protocols for achieving highly exfoliated epoxy-clay nanocomposites. <i>Polimery</i> , 2014, 59, 636-642.	0.7	2
72	Determination of the Glass Transition by DSC: A Comparison of Conventional and Dynamic Techniques. <i>Hot Topics in Thermal Analysis and Calorimetry</i> , 2012, , 135-146.	0.5	0