

John J Liggat

List of Publications by Year in descending order

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citations

304602

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docs citations

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times ranked

1817
citing authors

#	ARTICLE	IF	CITATIONS
1	Octavinyl polyhedral oligomeric silsesquioxane on tailoring the DC electrical characteristics of polypropylene. High Voltage, 2022, 7, 137-146.	2.7	6
2	Polyhydroxybutyrate: a review of experimental and simulation studies of the effect of fillers on crystallinity and mechanical properties. Polymer International, 2022, 71, 1398-1408.	1.6	16
3	Influence of Octavinyl-Polyhedral Oligomeric Silsesquioxane on the Electric Treeing Resistance of Polypropylene. , 2021, , .		0
4	Photo-oxidation of poly(ethylene terephthalate) films intended for photovoltaic backsheets. Journal of Applied Polymer Science, 2020, 137, 48623.	1.3	19
5	Effect of different surface treatment agents on the physical chemistry and electrical properties of polyethylene nano-alumina nanocomposites. High Voltage, 2020, 5, 397-402.	2.7	25
6	Oxidative and non-oxidative degradation of a TDI-based polyurethane foam: Volatile product and condensed phase characterisation by FTIR and solid state ¹³ C NMR spectroscopy. Polymer Degradation and Stability, 2019, 161, 57-73.	2.7	16
7	Filler and additive effects on partial discharge degradation of PET films used in PV devices. Polymer Degradation and Stability, 2018, 150, 148-157.	2.7	10
8	Kinetics of dissolution of glass fibre in hot alkaline solution. Journal of Materials Science, 2018, 53, 1710-1722.	1.7	35
9	Partial discharge behaviour of biaxially orientated PET films: The effect of crystalline morphology. Polymer Degradation and Stability, 2018, 155, 122-129.	2.7	8
10	The Thermal Degradation Behaviour of a Series of Siloxane Copolymers - a Study by Thermal Volatilisation Analysis. Silicon, 2016, 8, 553-562.	1.8	14
11	Accessible heavier s-block dihydropyridines: structural elucidation and reactivity of isolable molecular hydride sources. Dalton Transactions, 2016, 45, 6234-6240.	1.6	13
12	Developing Lithium Chemistry of 1,2-Dihydropyridines: From Kinetic Intermediates to Isolable Characterized Compounds. Chemistry - A European Journal, 2015, 21, 14410-14420.	1.7	23
13	Investigation of the strength loss of glass fibre after thermal conditioning. Journal of Materials Science, 2015, 50, 1050-1057.	1.7	45
14	Facile synthesis of a genuinely alkane-soluble but isolable lithium hydride transfer reagent. Chemical Communications, 2015, 51, 5452-5455.	2.2	51
15	Enhanced properties of graphene/fly ash geopolymeric composite cement. Cement and Concrete Research, 2015, 67, 292-299.	4.6	203
16	Graphene/fly ash geopolymeric composites as self-sensing structural materials. Smart Materials and Structures, 2014, 23, 065006.	1.8	83
17	Dehydromethylation of alkali metal salts of the utility amide 2,2,6,6-tetramethylpiperidide (TMP). Chemical Communications, 2014, 50, 10588.	2.2	10
18	Thermal volatilisation analysis of TDI-based flexible polyurethane foam. Polymer Degradation and Stability, 2013, 98, 535-541.	2.7	59

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19	Physical properties of poly(ether ether ketone) exposed to simulated severe oilfield service conditions. <i>Polymer Degradation and Stability</i> , 2013, 98, 1264-1270.	2.7	10
20	Ageing of poly(ethylene terephthalate) and poly(ethylene naphthalate) under moderately accelerated conditions. <i>Journal of Applied Polymer Science</i> , 2012, 124, 4517-4529.	1.3	10
21	Lewis acid mediated polymerization of poly(dimethylsiloxane) polymers: Investigating reaction kinetics using both NMR spectroscopy and cyclic voltammetry. <i>Journal of Applied Polymer Science</i> , 2012, 123, 2601-2608.	1.3	3
22	Thermal degradation studies of polyurethane/POSS nanohybrid elastomers. <i>Polymer Degradation and Stability</i> , 2010, 95, 1099-1105.	2.7	77
23	Thermal degradation of polyethylene glycol 6000 and its effect on the assay of macroprolactin. <i>Clinical Biochemistry</i> , 2010, 43, 750-753.	0.8	4
24	The thermal degradation behaviour of polydimethylsiloxane/montmorillonite nanocomposites. <i>Polymer Degradation and Stability</i> , 2009, 94, 1548-1557.	2.7	90
25	Effects of organically modified clay loading on rate and extent of cure in an epoxy nanocomposite system. <i>Polymer International</i> , 2008, 57, 1206-1214.	1.6	10
26	Influence of clay type on exfoliation, cure and physical properties of <i>in situ</i> polymerised poly(methyl methacrylate) nanocomposites. <i>Polymer International</i> , 2008, 57, 1118-1127.	1.6	27
27	Synthesis and characterization of nylon 6/clay nanocomposites prepared by ultrasonication and <i>in situ</i> polymerization. <i>Journal of Applied Polymer Science</i> , 2008, 108, 2242-2251.	1.3	38
28	Investigating the ageing behavior of polysiloxane nanocomposites by degradative thermal analysis. <i>Polymer Degradation and Stability</i> , 2008, 93, 158-168.	2.7	45
29	Commercial fire-retarded PET formulations – Relationship between thermal degradation behaviour and fire-retardant action. <i>Polymer Degradation and Stability</i> , 2008, 93, 498-506.	2.7	31
30	Effect of <i>meta</i> -Carborane on Segmental Dynamics in a Bimodal Poly(dimethylsiloxane) Network. <i>Macromolecules</i> , 2008, 41, 9179-9186.	2.2	16
31	The stability of polysiloxanes incorporating nano-scale physical property modifiers. <i>Science and Technology of Advanced Materials</i> , 2008, 9, 024403.	2.8	20
32	Use of Sonication and Influence of Clay Type on the Enhancement in Physical Properties of Poly(methyl methacrylate) Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1056, 1.	0.1	0
33	Thermal Volatilisation Analysis – The Development of a Novel Technique for the Analysis of Conservation Artifacts. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1047, 5.	0.1	1
34	Properties of epoxy nanoclay system based on diaminodiphenyl sulfone and diglycidyl ether of bisphenol F: influence of post cure and structure of amine and epoxy. <i>Polymer International</i> , 2007, 56, 1029-1034.	1.6	14
35	<i>In vitro</i> and <i>in vivo</i> response to nanotopographically-modified surfaces of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and polycaprolactone. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006, 17, 1405-1423.	1.9	34
36	Synthesis and characterization of novel biodegradable aliphatic poly(ester amide)s containing cyclohexane units. <i>Journal of Polymer Science Part A</i> , 2006, 44, 1785-1795.	2.5	15

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37	Degradation mechanism of diethylene glycol units in a terephthalate polymer. <i>Polymer Degradation and Stability</i> , 2006, 91, 681-689.	2.7	44
38	Study of the factors influencing the exfoliation of an organically modified montmorillonite in methyl methacrylate/poly(methyl methacrylate) mixtures. <i>Journal of Applied Polymer Science</i> , 2006, 99, 2614-2626.	1.3	14
39	Relationship between the thermal degradation chemistry and flammability of commercial flexible polyurethane foams. <i>Journal of Applied Polymer Science</i> , 2006, 100, 3024-3033.	1.3	32
40	Permeability of N ₂ , Ar, He, O ₂ , and CO ₂ through as-extruded amorphous and biaxially oriented polyester films: Dependence on chain mobility. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 2916-2929.	2.4	12
41	Dynamic mechanical analysis of poly(trimethylene terephthalate)? A comparison with poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 30	1.3	36
42	Cross-linking of polystyrene by Friedel-Crafts chemistry: reaction of p-hydroxymethylbenzyl chloride with polystyrene. <i>Polymer Degradation and Stability</i> , 2001, 72, 399-405.	2.7	15
43	Solid state ¹³ C NMR study of the char forming processes in polychloroprene. <i>Polymer Degradation and Stability</i> , 2001, 74, 397-405.	2.7	24
44	Solid state ¹³ C and in situ ¹ H NMR study on the effect of melamine on the thermal degradation of a flexible polyurethane foam. <i>Polymer International</i> , 2000, 49, 1177-1182.	1.6	24
45	Enthalpy relaxation in poly(ethylene terephthalate) and related polyesters. <i>Polymer International</i> , 2000, 49, 1458-1463.	1.6	5
46	Ultrasonic degradation of polystyrene solutions. <i>Polymer Degradation and Stability</i> , 2000, 68, 445-449.	2.7	53
47	Thermal degradation of cross-linked polyisoprene and polychloroprene. <i>Polymer Degradation and Stability</i> , 2000, 68, 75-82.	2.7	40
48	Influence of Physical Aging on the Molecular Motion and Structural Relaxation in Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	2.2	45
49	Physical ageing in poly(ethylene terephthalate) - its influence on cold crystallisation. <i>Polymer</i> , 1999, 40, 4977-4982.	1.8	29
50	Crystallization behavior of predominantly syndiotactic poly(¹² -hydroxybutyrate). <i>Journal of Polymers and the Environment</i> , 1995, 3, 37-47.	0.8	22
51	Peripheral functionalisation of the nickel(II) complex of a tetradentate (N ₃ O) ligand via a pendant amine substituent. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, , 2029.	1.1	4