

John J Liggat

List of Publications by Year in descending order

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51
papers

1,483
citations

304602

22
h-index

330025

37
g-index

54
all docs

54
docs citations

54
times ranked

1817
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced properties of graphene/fly ash geopolymeric composite cement. <i>Cement and Concrete Research</i> , 2015, 67, 292-299.	4.6	203
2	The thermal degradation behaviour of polydimethylsiloxane/montmorillonite nanocomposites. <i>Polymer Degradation and Stability</i> , 2009, 94, 1548-1557.	2.7	90
3	Graphene/fly ash geopolymeric composites as self-sensing structural materials. <i>Smart Materials and Structures</i> , 2014, 23, 065006.	1.8	83
4	Thermal degradation studies of polyurethane/POSS nanohybrid elastomers. <i>Polymer Degradation and Stability</i> , 2010, 95, 1099-1105.	2.7	77
5	Thermal volatilisation analysis of TDI-based flexible polyurethane foam. <i>Polymer Degradation and Stability</i> , 2013, 98, 535-541.	2.7	59
6	Ultrasonic degradation of polystyrene solutions. <i>Polymer Degradation and Stability</i> , 2000, 68, 445-449.	2.7	53
7	Facile synthesis of a genuinely alkane-soluble but isolable lithium hydride transfer reagent. <i>Chemical Communications</i> , 2015, 51, 5452-5455.	2.2	51
8	Influence of Physical Aging on the Molecular Motion and Structural Relaxation in Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	2.2	45
9	Investigating the ageing behavior of polysiloxane nanocomposites by degradative thermal analysis. <i>Polymer Degradation and Stability</i> , 2008, 93, 158-168.	2.7	45
10	Investigation of the strength loss of glass fibre after thermal conditioning. <i>Journal of Materials Science</i> , 2015, 50, 1050-1057.	1.7	45
11	Degradation mechanism of diethylene glycol units in a terephthalate polymer. <i>Polymer Degradation and Stability</i> , 2006, 91, 681-689.	2.7	44
12	Thermal degradation of cross-linked polyisoprene and polychloroprene. <i>Polymer Degradation and Stability</i> , 2000, 68, 75-82.	2.7	40
13	Synthesis and characterization of nylon 6/clay nanocomposites prepared by ultrasonication and in situ polymerization. <i>Journal of Applied Polymer Science</i> , 2008, 108, 2242-2251.	1.3	38
14	Dynamic mechanical analysis of poly(trimethylene terephthalate)?A comparison with poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 36	1.3	36
15	Kinetics of dissolution of glass fibre in hot alkaline solution. <i>Journal of Materials Science</i> , 2018, 53, 1710-1722.	1.7	35
16	In vitro and in vivo 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
17	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
18	Commercial fire-retarded PET formulations â€“ Relationship between thermal degradation behaviour and fire-retardant action. <i>Polymer Degradation and Stability</i> , 2008, 93, 498-506.	2.7	31

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19	Physical ageing in poly(ethylene terephthalate) – its influence on cold crystallisation. <i>Polymer</i> , 1999, 40, 4977-4982.	1.8	29
20	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
21	Effect of different surface treatment agents on the physical chemistry and electrical properties of polyethylene nano-alumina nanocomposites. <i>High Voltage</i> , 2020, 5, 397-402.	2.7	25
22	Solid state ¹³ C and <i>in situ</i> 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
23	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
24	Developing Lithium Chemistry of 1,2-Dihydropyridines: From Kinetic Intermediates to Isolable Characterized Compounds. <i>Chemistry - A European Journal</i> , 2015, 21, 14410-14420.	1.7	23
25	Crystallization behavior of predominantly syndiotactic poly(¹² -hydroxybutyrate). <i>Journal of Polymers and the Environment</i> , 1995, 3, 37-47.	0.8	22
26	The stability of polysiloxanes incorporating nano-scale physical property modifiers. <i>Science and Technology of Advanced Materials</i> , 2008, 9, 024403.	2.8	20
27	Photo-oxidation of poly(ethylene terephthalate) films intended for photovoltaic backsheets. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48623.	1.3	19
28	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
29	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. <i>Polymer Degradation and Stability</i> , 2019, 161, 57-73.	2.7	16
30	Polyhydroxybutyrate: a review of experimental and simulation studies of the effect of fillers on crystallinity and mechanical properties. <i>Polymer International</i> , 2022, 71, 1398-1408.	1.6	16
31	Cross-linking of polystyrene by Friedel-Crafts chemistry: reaction of <i>p</i> -hydroxymethylbenzyl chloride with polystyrene. <i>Polymer Degradation and Stability</i> , 2001, 72, 399-405.	2.7	15
32	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
33	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
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	The Thermal Degradation Behaviour of a Series of Siloxane Copolymers - a Study by Thermal Volatilisation Analysis. <i>Silicon</i> , 2016, 8, 553-562.	1.8	14
36	Accessible heavier <i>s</i> -block dihydropyridines: structural elucidation and reactivity of isolable molecular hydride sources. <i>Dalton Transactions</i> , 2016, 45, 6234-6240.	1.6	13

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37	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
38	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
39	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
40	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
41	Dehydromethylation of alkali metal salts of the utility amide 2,2,6,6-tetramethylpiperidide (TMP). <i>Chemical Communications</i> , 2014, 50, 10588.	2.2	10
42	Filler and additive effects on partial discharge degradation of PET films used in PV devices. <i>Polymer Degradation and Stability</i> , 2018, 150, 148-157.	2.7	10
43	Partial discharge behaviour of biaxially orientated PET films: The effect of crystalline morphology. <i>Polymer Degradation and Stability</i> , 2018, 155, 122-129.	2.7	8
44	Octavinyl polyhedral oligomeric silsesquioxane on tailoring the DC electrical characteristics of polypropylene. <i>High Voltage</i> , 2022, 7, 137-146.	2.7	6
45	Enthalpy relaxation in poly(ethylene terephthalate) and related polyesters. <i>Polymer International</i> , 2000, 49, 1458-1463.	1.6	5
46	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
47	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
48	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
49	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
50	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
51	Influence of Octavinyl-Polyhedral Oligomeric Silsesquioxane on the Electric Treeing Resistance of Polypropylene. , 2021, , .		0