

Renate M R Wellen

List of Publications by Year in descending order

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96
papers

1,418
citations

361413

20
h-index

454955

30
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96
all docs

96
docs citations

96
times ranked

1239
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Kissinger equation and the estimate of activation energies for non-isothermal cold crystallization of PET. <i>Polymer Testing</i> , 2014, 40, 33-38.	4.8	79
2	The kinetics of isothermal cold crystallization and tensile properties of poly(ethylene terephthalate). <i>Journal of Materials Science</i> , 2005, 40, 6099-6104.	3.7	75
3	Tailoring PBAT/PLA/Babassu films for suitability of agriculture mulch application. <i>Journal of Natural Fibers</i> , 2019, 16, 933-943.	3.1	51
4	The melting behaviour of poly(3-hydroxybutyrate) by DSC. Reproducibility study. <i>Polymer Testing</i> , 2013, 32, 215-220.	4.8	48
5	Effect of Alkaline and Hot Water Treatments on the Structure and Morphology of Piassava Fibers. <i>Materials Research</i> , 2018, 21, .	1.3	45
6	Melting and crystallization of poly(3-hydroxybutyrate): effect of heating/cooling rates on phase transformation. <i>Polimeros</i> , 2015, 25, 296-304.	0.7	41
7	Impact of the natural filler babassu on the processing and properties of PBAT/PHB films. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 124, 105472.	7.6	39
8	Melting and crystallization of poly(3-hydroxybutyrate)/carbon black compounds. Effect of heating and cooling cycles on phase transition. <i>Journal of Materials Research</i> , 2015, 30, 3211-3226.	2.6	37
9	Effect of Babassu Natural Filler on PBAT/PHB Biodegradable Blends: An Investigation of Thermal, Mechanical, and Morphological Behavior. <i>Materials</i> , 2018, 11, 820.	2.9	30
10	Tailored PCL/Macaãba fiber to reach sustainable biocomposites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9691-9708.	5.8	30
11	Photodegradation Mechanisms on Poly(Îµ-caprolactone) (PCL). <i>Materials Research</i> , 2018, 21, .	1.3	29
12	Nonisothermal cold crystallization of poly(ethylene terephthalate). <i>Journal of Materials Research</i> , 2011, 26, 1107-1115.	2.6	27
13	Nonisothermal melt crystallization of PHB/babassu compounds. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 755-769.	3.6	26
14	Hydrolytic and Thermal Degradation of PCL and PCL/Bentonite Compounds. <i>Materials Research</i> , 2016, 19, 618-627.	1.3	25
15	Nonisothermal melt and cold crystallization kinetics of poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate)/carbon black compounds. Evaluation of Pseudo-Avrami, Ozawa, and Mo models. <i>Journal of Materials Research</i> , 2016, 31, 729-739.	2.6	25
16	Polypropylene/wood powder/ethylene propylene diene monomer rubberâ€maleic anhydride composites: Effect of PP melt flow index on the thermal, mechanical, thermomechanical, water absorption, and morphological parameters. <i>Polymer Composites</i> , 2021, 42, 484-497.	4.6	25
17	Processing and Properties of PCL/Cotton Linter Compounds. <i>Materials Research</i> , 2017, 20, 317-325.	1.3	23
18	Non-isothermal cold crystallization kinetics of poly(3-hydroxybutyrate) filled with zinc oxide. <i>Thermochimica Acta</i> , 2016, 637, 74-81.	2.7	22

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19	Polypropylene/wood powder composites: Evaluation of PP viscosity in thermal, mechanical, thermomechanical, and morphological characters. <i>Journal of Thermoplastic Composite Materials</i> , 2022, 35, 71-92.	4.2	22
20	Reactive compatilization of PCL/WP upon addition of PCL-MA. Smart option for recycling industry. <i>Materials Research Express</i> , 2019, 6, 125317.	1.6	22
21	Annealing Effect on Pla/Eva Blends Performance. <i>Journal of Polymers and the Environment</i> , 2022, 30, 541-554.	5.0	22
22	Biocomposites based on PCL and macaiba fiber. Detailed characterization of main properties. <i>Materials Research Express</i> , 2019, 6, 095335.	1.6	21
23	Tailoring PS/PP_{recycled} blends compatibilized with SEBS. Evaluation of rheological, mechanical, thermomechanical and morphological characters. <i>Materials Research Express</i> , 2019, 6, 075316.	1.6	21
24	An investigation of PLA/Babassu cold crystallization kinetics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1389-1397.	3.6	21
25	Reactive processing of <sc>PA6</sc>/<sc>EPDM&MA</sc> blends as modifier for application and development of high&performance polypropylene. <i>Journal of Vinyl and Additive Technology</i> , 2021, 27, 736-756.	3.4	20
26	Insights into the curing kinetics of epoxy/PLA: Implications of the networking structure. <i>EXPRESS Polymer Letters</i> , 2020, 14, 1180-1196.	2.1	20
27	Tailoring performance of PP/HIPS/SEBS through blending design. <i>Materials Research Express</i> , 2019, 6, 115321.	1.6	19
28	Complex cold crystallisation peaks in PET/PS blends. <i>Polymer Testing</i> , 2015, 41, 26-32.	4.8	18
29	New approaches of curing and degradation on epoxy/eggshell composites. <i>Composites Part B: Engineering</i> , 2020, 196, 108125.	12.0	18
30	The Effect of ZnO on the Failure of PET by Environmental Stress Cracking. <i>Materials</i> , 2020, 13, 2844.	2.9	18
31	Approaches on the acrylonitrile&butadiene&styrene functionalization through maleic anhydride and dicumyl peroxide. <i>Journal of Vinyl and Additive Technology</i> , 2021, 27, 308-318.	3.4	18
32	Optimization of Epoxy Resin: An Investigation of Eggshell as a Synergic Filler. <i>Materials</i> , 2019, 12, 1489.	2.9	17
33	Kinetic investigation of eggshell powders as biobased epoxy catalyzer. <i>Composites Part B: Engineering</i> , 2020, 183, 107651.	12.0	17
34	HDPE/Chitosan Composites Modified with PE-g-MA. Thermal, Morphological and Antibacterial Analysis. <i>Polymers</i> , 2019, 11, 1559.	4.5	16
35	Development of Green Composites Based on Polypropylene and Corncob Agricultural Residue. <i>Journal of Polymers and the Environment</i> , 2019, 27, 1677-1685.	5.0	16
36	Production of Eco-Sustainable Materials: Compatibilizing Action in Poly (Lactic Acid)/High-Density Biopolyethylene Bioblends. <i>Sustainability</i> , 2021, 13, 12157.	3.2	16

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37	Moisture-mediated self-healing kinetics and molecular dynamics in modified polyurethane urea polymers. <i>Polymer</i> , 2018, 151, 125-135.	3.8	15
38	Compatibility and characterization of Bio-PE/PCL blends. <i>Polimeros</i> , 2019, 29, .	0.7	15
39	Reactive compatibilization as a proper tool to improve PA6 toughness. <i>Materials Research Express</i> , 2019, 6, 125367.	1.6	15
40	Approaches on the non-isothermal curing kinetics of epoxy/PCL blends. <i>Journal of Materials Research and Technology</i> , 2020, 9, 13539-13554.	5.8	15
41	Annealing efficacy on PLA. Insights on mechanical, thermomechanical and crystallinity characters. <i>Momento</i> , 2021, , 1-17.	0.7	15
42	Antinucleating action of polystyrene on the isothermal cold crystallization of poly(ethylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 T	2.6	14
43	Grafting maleic anhydride onto polycaprolactone: influence of processing. <i>Materials Research Express</i> , 2019, 6, 055315.	1.6	14
44	Microbiological and cytotoxic perspectives of active PCL/ZnO film for food packaging. <i>Materials Research Express</i> , 2020, 7, 025312.	1.6	14
45	Effect of polystyrene on poly(ethylene terephthalate) crystallization. <i>Materials Research</i> , 2014, 17, 1620-1627.	1.3	13
46	Effect of heat cycling on melting and crystallization of PHB/TiO ₂ compounds. <i>Polimeros</i> , 2018, 28, 161-168.	0.7	13
47	Model-free non-isothermal crystallization kinetics of poly(3-hydroxybutyrate) filled with carbon black. <i>Polymer Testing</i> , 2016, 50, 241-246.	4.8	12
48	Rheological properties of HDPE/chitosan composites modified with PE- <i>g</i> -MA. <i>Journal of Materials Research</i> , 2017, 32, 775-787.	2.6	12
49	Melting and crystallization of PHB/ZnO compounds. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 571-580.	3.6	12
50	ReduÃ§Ã£o da velocidade de cristalizaÃ§Ã£o a frio do PET na presenÃ§a de poliestireno. <i>Polimeros</i> , 2007, 17, 113-122.	0.7	11
51	Photodegradation and Photostabilization of Poly(3-Hydroxybutyrate). <i>Materials Research</i> , 2016, 19, 759-764.	1.3	11
52	Toughening of bio-PE upon addition of PCL and PEGAA. <i>REM: International Engineering Journal</i> , 2019, 72, 469-478.	0.4	10
53	Influence of PCL on the epoxy workability, insights from thermal and spectroscopic analyses. <i>Polymer Testing</i> , 2020, 89, 106679.	4.8	10
54	Crystallization behavior of polycaprolactone/babassu compounds. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2963-2972.	3.6	10

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55	Comparative study of the effect of TiO ₂ and ZnO on the crystallization of PHB. Revista Materia, 2017, 22, .	0.2	8
56	Approaches on <sc>PCL</sc>/m<sc>acaÃba biocomposites</sc> â€•mechanical, thermal, morphological properties and crystallization kinetics. Polymers for Advanced Technologies, 2021, 32, 3572-3587.	3.2	8
57	Environmental Stress Cracking of Poly(3-hydroxybutyrate) Under Contact with Sodium Hydroxide. Materials Research, 2015, 18, 258-266.	1.3	7
58	Heterophasic polypropylene and wood flour composites: processing and properties. Materials Research Express, 2019, 6, 085321.	1.6	7
59	Biodegradable Compounds of Poly (Æ-Caprolactone)/Montmorillonite Clays. Materials Research, 2019, 22, .	1.3	7
60	PHB/Bentonite Compounds. Effect of Clay Modification and Thermal Aging on Properties. Materials Research, 2017, 20, 1503-1510.	1.3	6
61	Comportamento reolÃ³gico do Bio-PE e do PCL na presenÃ§a do PEgAA e PEgMA. Revista Materia, 2017, 22, .	0.2	6
62	Nonisothermal crystallization studies of PBT/ZnO compounds. Journal of Thermal Analysis and Calorimetry, 2018, 131, 2569-2577.	3.6	6
63	Efeito das variÃ¡veis reacionais na sÃntese de um polÃmero biodegradÃvel funcionalizado: PCL-g-MA. Revista Materia, 2018, 23, .	0.2	6
64	Tayloring PS/PCL blends: characteristics of processing and properties. REM: International Engineering Journal, 2019, 72, 87-95.	0.4	6
65	Effect of injection parameters on the thermal, mechanical and thermomechanical properties of polycaprolactone (PCL). Journal of Elastomers and Plastics, 2021, 53, 1045-1062.	1.5	6
66	Crossing over the curing and degradation of DGEBA/MTHPA/Eggshell to disclose the reactionary system. Composites Part B: Engineering, 2021, 224, 109181.	12.0	6
67	Approaches on the Complex Crystallization in PLA/Babassu Based on Modulated Differential Scanning Calorimetry Analyses. Journal of Polymers and the Environment, 2022, 30, 3840-3851.	5.0	6
68	From Waste to Potential Reuse: Mixtures of Polypropylene/Recycled Copolymer Polypropylene from Industrial Containers: Seeking Sustainable Materials. Sustainability, 2022, 14, 6509.	3.2	6
69	Effect of styreneâ€•co</i> â€•acrylonitrile on cold crystallization and mechanical properties of poly(ethylene terephthalate). Journal of Applied Polymer Science, 2012, 125, 2701-2710.	2.6	5
70	The Effect of Polystyrene on the Crystallization of Poly(3-hydroxybutyrate). Materials Research, 2015, 18, 235-239.	1.3	5
71	Properties and Morphology of Polypropylene/Big Bags Compounds. Materials Research, 2019, 22, .	1.3	5
72	Tuning the performance of <sc>PA6</sc> / <sc>EPDMâ€•MA</sc> nanocomposites reinforced with Ni ₀ <sc> ₅ Zn ₀ </sc> _. <sc> ₅ Fe ₂ O ₄ </sc> . Effect of the mixing protocol on mechanical,. Polymer Composites, 0, , .	4.6	5

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73	On the Curing of ESO/MTHPA/DEH 35 and ESO/MTHPA/DEH 35/TIN. Journal of Polymers and the Environment, 2022, 30, 4014-4022.	5.0	5
74	PCL/ZnO Bio-friendly Films as Food Packaging Material. Thermal and morphological analysis. Revista Materia, 2018, 23, .	0.2	4
75	Multivariate Model Based on UV-Vis Spectroscopy and Regression in Partial Least Squares for Determination of Diameter and Polydispersity of Silver Nanoparticles in Colloidal Suspensions. Journal of Nanomaterials, 2020, 2020, 1-10.	2.7	4
76	On the nonisothermal melt crystallization kinetics of industrial batch crosslinked polyethylene. Journal of Applied Polymer Science, 2021, 138, 50807.	2.6	4
77	Efeito do recozimento nas propriedades mecânicas, térmicas e termomecânicas da PCL. Research, Society and Development, 2020, 9, e13191210764.	0.1	4
78	Biodegradation and performance of poly(Écaprolactone)/macãba biocomposites. Polymer Composites, 2022, 43, 998-1011.	4.6	4
79	Nonisothermal cold crystallization kinetics and morphology of PET + SAN blends. Journal of Applied Polymer Science, 2010, 116, 1077-1087.	2.6	3
80	Effect of Hydrolytic Degradation on Mechanical Properties of PCL. Materials Science Forum, 2016, 869, 342-345.	0.3	3
81	Photo-degradation of PS/SBR blends compatibilized with SEBS. Materials Research Express, 2019, 6, 095327.	1.6	3
82	The effect of microcrystalline cellulose on poly(propylene) crystallization. An investigation of nonisothermal crystallization kinetics. Materials Research Express, 2019, 6, 065313.	1.6	3
83	The investigation of the stress cracking behavior of PBT by acoustic emission. Polymers for Advanced Technologies, 2021, 32, 4787-4804.	3.2	3
84	Curing and morphology approaches of polyurethane/poly(ethylene glycol) foam upon poly(lactic acid) addition. Polymers for Advanced Technologies, 0, , .	3.2	3
85	Efeito da adiãço de PHB na cristalizaãço a frio do PET. Polimeros, 2012, 22, 111-116.	0.7	2
86	Crystallization of PHB/Carbon black compounds. Effect of heating and cooling cycles. AIP Conference Proceedings, 2016, , .	0.4	2
87	Clever use of PCL as kinetic controller in PBT/PCL blends. Materials Research Express, 2019, 6, 115313.	1.6	2
88	Crystallization kinetics of poly (butylene adipate terephthalate) in biocomposite with coconut fiber. Revista Materia, 2019, 24, .	0.2	2
89	Kinetic analysis of crystallization in PHB/Carbon black compounds. Mo model. AIP Conference Proceedings, 2016, , .	0.4	1
90	Insights of PHB/QC Biocomposites: Thermal, Tensile and Morphological Properties. Journal of Polymers and the Environment, 2020, 28, 2481-2489.	5.0	1

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91	RSM applied to PS/SBRr/SEBS Blends. Proper tool for maximized properties. Materials Research Express, 2020, 7, 015327.	1.6	1
92	On the curing kinetics of epoxy/PLA compounds. Journal of Materials Research, 2021, 36, 2973-2986.	2.6	1
93	Disclosing the complex crystallization of PBAT/PLA/Babassu biocompounds through MDSC analysis. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	1
94	Aplicação de método estatístico no estudo da influência do peróxido de hidrogênio e do borohidreto de sódio na síntese de nanopartículas de prata (AGNPS). Revista Materia, 2019, 24, .	0.2	1
95	The Influence of Clay Reinforcement on the Properties of Recycled Polymer Foams. Minerals, Metals and Materials Series, 2018, , 703-712.	0.4	0
96	Thermal degradation kinetics of industrial batch crosslinked polyethylene. Journal of Applied Polymer Science, 0, , .	2.6	0