

Pedro Partal

List of Publications by Year in descending order

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119
papers

4,659
citations

71061

41
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119
docs citations

119
times ranked

2889
citing authors

#	ARTICLE	IF	CITATIONS
1	Ageing Effects on a Softened Bitumen by the Addition of DSA (Dodecenyl Succinic Anhydride). <i>Polymers</i> , 2022, 14, 2437.	2.0	0
2	Emulsion Stabilization by Cationic Lignin Surfactants Derived from Bioethanol Production and Kraft Pulping Processes. <i>Polymers</i> , 2022, 14, 2879.	2.0	1
3	Oil-in-Oil emulsions of stearic acid dispersed in silicone oil with enhanced energy storage capability for heat transfer fluids. <i>Solar Energy Materials and Solar Cells</i> , 2022, 245, 111893.	3.0	5
4	Formulation and processing of novel non-aqueous polyethylene glycol-in-silicone oil (o/o) phase change emulsions. <i>Solar Energy Materials and Solar Cells</i> , 2021, 221, 110898.	3.0	17
5	Rheology of Polymer Processing in Spain (1995–2020). <i>Polymers</i> , 2021, 13, 2314.	2.0	3
6	Bioethanol Production and Alkali Pulp Processes as Sources of Anionic Lignin Surfactants. <i>Polymers</i> , 2021, 13, 2703.	2.0	1
7	Role of crystallinity on the thermal and viscous behaviour of polyethylene glycol-in-silicone oil (o/o) phase change emulsions. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 103, 348-357.	2.9	4
8	Synergistic ethylcellulose/polyphosphoric acid modification of bitumen for paving applications. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	1.3	8
9	Short- and Long-Term Epoxy Modification of Bitumen: Modification Kinetics, Rheological Properties, and Microstructure. <i>Polymers</i> , 2020, 12, 508.	2.0	13
10	Bioplastics based on wheat gluten processed by extrusion. <i>Journal of Cleaner Production</i> , 2019, 239, 117994.	4.6	78
11	Reprint of: Education of chemical engineering in Spain: A global picture. <i>Education for Chemical Engineers</i> , 2019, 26, 2-7.	2.8	2
12	Use of plastic wastes from greenhouse in asphalt mixes manufactured by dry process. <i>Road Materials and Pavement Design</i> , 2019, 20, S265-S281.	2.0	30
13	Hybrid Rubberised Bitumen from Reactive and Non-Reactive Ethylene Copolymers. <i>Polymers</i> , 2019, 11, 1974.	2.0	8
14	Effect of pH and nanoclay content on the morphology and physicochemical properties of soy protein/montmorillonite nanocomposite obtained by extrusion. <i>Composites Part B: Engineering</i> , 2018, 140, 197-203.	5.9	37
15	Selection of ethylene-vinyl-acetate properties for modified bitumen with enhanced end-performance. <i>Rheologica Acta</i> , 2018, 57, 71-82.	1.1	10
16	Sustainable asphalt mixes manufactured with reclaimed asphalt and modified-lignin-stabilized bitumen emulsions. <i>Construction and Building Materials</i> , 2018, 173, 662-671.	3.2	15
17	Education of chemical engineering in Spain: A global picture. <i>Education for Chemical Engineers</i> , 2018, 24, 27-31.	2.8	11
18	Thermomechanical and microstructural evaluation of hybrid rubberised bitumen containing a thermoplastic polymer. <i>Construction and Building Materials</i> , 2017, 157, 873-884.	3.2	20

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19	Assessment of modified lignin cationic emulsifier for bitumen emulsions used in road paving. <i>Materials and Design</i> , 2017, 131, 242-251.	3.3	50
20	Improvement of mechanical and water absorption properties of plant protein based bioplastics. <i>Food Hydrocolloids</i> , 2017, 73, 21-29.	5.6	40
21	Binder Design for Asphalt Mixes with Reduced Temperature: EVA Modified Bitumen and its Emulsions. <i>Transportation Research Procedia</i> , 2016, 14, 3512-3518.	0.8	12
22	Formulation and processing of recycled-low-density-polyethylene-modified bitumen emulsions for reduced-temperature asphalt technologies. <i>Chemical Engineering Science</i> , 2016, 156, 197-205.	1.9	36
23	Linear and non-linear viscoelastic behavior of SBS and LDPE modified bituminous mastics. <i>Construction and Building Materials</i> , 2016, 123, 464-472.	3.2	23
24	Development of antimicrobial active packaging materials based on gluten proteins. <i>Journal of the Science of Food and Agriculture</i> , 2016, 96, 3432-3438.	1.7	20
25	Stability assessment of non-aqueous polymer dispersions through viscous flow and linear viscoelastic rheological tests. <i>Polymer Testing</i> , 2016, 50, 164-171.	2.3	5
26	Synergistic effect of combined nanoparticles to elaborate exfoliated egg-white protein-based nanobiocomposites. <i>Composites Part B: Engineering</i> , 2016, 88, 36-43.	5.9	16
27	Influence of polymer melting point and Melt Flow Index on the performance of ethylene-vinyl-acetate modified bitumen for reduced-temperature application. <i>Materials and Design</i> , 2016, 96, 180-188.	3.3	49
28	The development of polyurethane modified bitumen emulsions for cold mix applications. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 3407-3414.	1.3	39
29	Chemically modified bitumens with enhanced rheology and adhesion properties to siliceous aggregates. <i>Construction and Building Materials</i> , 2015, 93, 766-774.	3.2	28
30	Effect of transesterification degree and post-treatment on the in-service performance of NCO-functionalized vegetable oil bituminous products. <i>Chemical Engineering Science</i> , 2014, 111, 126-134.	1.9	10
31	Processing of bitumens modified by a bio-oil-derived polyurethane. <i>Fuel</i> , 2014, 118, 83-90.	3.4	63
32	Effect of aldehydes on thermomechanical properties of gluten-based bioplastics. <i>Food and Bioproducts Processing</i> , 2014, 92, 20-29.	1.8	46
33	Thermo-mechanical and hydrophilic properties of polysaccharide/gluten-based bioplastics. <i>Carbohydrate Polymers</i> , 2014, 112, 24-31.	5.1	60
34	Influence of the prepolymer molecular weight and free isocyanate content on the rheology of polyurethane modified bitumens. <i>European Polymer Journal</i> , 2014, 57, 151-159.	2.6	36
35	End-performance evaluation of thiourea-modified bituminous binders through viscous flow and linear viscoelasticity testing. <i>Rheologica Acta</i> , 2013, 52, 145-154.	1.1	10
36	Linear viscoelastic behaviour of oil-in-water food emulsions stabilised by tuna-protein isolates. <i>Food Science and Technology International</i> , 2013, 19, 3-10.	1.1	3

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37	Gluten-based bioplastics with modified controlled-release and hydrophilic properties. <i>Industrial Crops and Products</i> , 2013, 43, 704-710.	2.5	36
38	Thermal, rheological and microstructural characterisation of commercial biodegradable polyesters. <i>Polymer Testing</i> , 2013, 32, 716-723.	2.3	60
39	Development of protein-based bioplastics with antimicrobial activity by thermo-mechanical processing. <i>Journal of Food Engineering</i> , 2013, 117, 247-254.	2.7	38
40	Isocyanate-functionalized castor oil as a novel bitumen modifier. <i>Chemical Engineering Science</i> , 2013, 97, 320-327.	1.9	41
41	Droplet-size distribution and stability of commercial injectable lipid emulsions containing fish oil. <i>American Journal of Health-System Pharmacy</i> , 2012, 69, 1332-1335.	0.5	5
42	Manufacturing Terminal and Field Bitumen-Tyre Rubber Blends: The Importance of Processing Conditions. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 53, 485-494.	0.5	53
43	Formulation of new synthetic binders: Thermomechanical properties of resin/recycled polymer blends. <i>Polymer Engineering and Science</i> , 2012, 52, 242-249.	1.5	2
44	Enhancing the viscoelastic properties of bituminous binders via thiourea-modification. <i>Fuel</i> , 2012, 97, 862-868.	3.4	9
45	Rheological behaviour of polymer-modified bituminous mastics: A comparative analysis between physical and chemical modification. <i>Construction and Building Materials</i> , 2012, 27, 234-240.	3.2	21
46	Influence of the Addition of a Polysaccharide to Protein-based Biodegradable Polymeric Materials Processed by a Thermomechanical Procedure. <i>Special Publication - Royal Society of Chemistry</i> , 2012, , 295-302.	0.0	0
47	Influence of Processing Temperature on the Modification Route and Rheological Properties of Thiourea Dioxide-Modified Bitumen. <i>Energy & Fuels</i> , 2011, 25, 4055-4062.	2.5	10
48	Linear and non-linear viscoelasticity of puddings for nutritional management of dysphagia. <i>Food Hydrocolloids</i> , 2011, 25, 586-593.	5.6	49
49	Modelling of pyrolysis and combustion of gluten-glycerol-based bioplastics. <i>Bioresource Technology</i> , 2011, 102, 6246-6253.	4.8	13
50	Wheat gluten-based materials plasticised with glycerol and water by thermoplastic mixing and thermomoulding. <i>Journal of the Science of Food and Agriculture</i> , 2011, 91, 625-633.	1.7	59
51	Effect of processing on the viscoelastic, tensile and optical properties of albumen/starch-based bioplastics. <i>Carbohydrate Polymers</i> , 2011, 84, 308-315.	5.1	56
52	Bitumen chemical modification by thiourea dioxide. <i>Fuel</i> , 2011, 90, 2294-2300.	3.4	30
53	Modification of bitumen using polyurethanes. , 2011, , 43-71.		8
54	Novel bitumen/isocyanate-based reactive polymer formulations for the paving industry. <i>Rheologica Acta</i> , 2010, 49, 563-572.	1.1	33

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55	Novel recycled polyethylene/ground tire rubber/bitumen blends for use in roofing applications: Thermo-mechanical properties. <i>Polymer Testing</i> , 2010, 29, 588-595.	2.3	95
56	Effect of processing on the rheological properties of poly-urethane/urea bituminous products. <i>Fuel Processing Technology</i> , 2010, 91, 1139-1145.	3.7	62
57	Development of highly-transparent protein/starch-based bioplastics. <i>Bioresource Technology</i> , 2010, 101, 2007-2013.	4.8	107
58	Emulsiones alimentarias aceite-en-agua estabilizadas con proteínas de atún. <i>Grasas Y Aceites</i> , 2010, 61, 352-360.	0.3	7
59	Bitumen Chemical Foaming for Asphalt Paving Applications. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 8538-8543.	1.8	26
60	Droplet-size distribution and stability of lipid injectable emulsions. <i>American Journal of Health-System Pharmacy</i> , 2009, 66, 162-166.	0.5	16
61	Effect of processing temperature on the bitumen/MDI-PEG reactivity. <i>Fuel Processing Technology</i> , 2009, 90, 525-530.	3.7	35
62	Bitumen modification with reactive and non-reactive (virgin and recycled) polymers: A comparative analysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 458-464.	2.9	91
63	Rheological behaviour and physical properties of controlled-release gluten-based bioplastics. <i>Bioresource Technology</i> , 2009, 100, 1828-1832.	4.8	51
64	Characterization of sepiolite-gel-based formulations for controlled release of pesticides. <i>Applied Clay Science</i> , 2009, 46, 289-295.	2.6	27
65	Influence of Bitumen Colloidal Nature on the Design of Isocyanate-Based Bituminous Products with Enhanced Rheological Properties. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 8464-8470.	1.8	45
66	Gelation of egg yolk: DSC, rheology and electron microscopy. <i>Special Publication - Royal Society of Chemistry</i> , 2009, , 179-186.	0.0	1
67	Evaluation of thermal and mechanical properties of recycled polyethylene modified bitumen. <i>Polymer Testing</i> , 2008, 27, 1005-1012.	2.3	110
68	Use of a MDI-functionalized reactive polymer for the manufacture of modified bitumen with enhanced properties for roofing applications. <i>European Polymer Journal</i> , 2008, 44, 1451-1461.	2.6	53
69	Role of Water in the Development of New Isocyanate-Based Bituminous Products. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 6933-6940.	1.8	28
70	The Effect of Water on the Modification of Bitumen with MDI-PEG Prepolymer. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
71	New routes for roads: using recycled greenhouse films to modify bitumens. <i>International Journal of Environmental Technology and Management</i> , 2007, 7, 218.	0.1	2
72	Influence of processing conditions on the rheological behavior of crumb tire rubber-modified bitumen. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1683-1691.	1.3	61

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73	Bitumen modification with a low-molecular-weight reactive isocyanate-terminated polymer. <i>Fuel</i> , 2007, 86, 2291-2299.	3.4	75
74	Formulation of new synthetic binders: Thermo-mechanical properties of recycled polymer/oil blends. <i>Polymer Testing</i> , 2007, 26, 323-332.	2.3	24
75	Egg white-based bioplastics developed by thermomechanical processing. <i>Journal of Food Engineering</i> , 2007, 82, 608-617.	2.7	82
76	Processing, rheology, and storage stability of recycled EVA/LDPE modified bitumen. <i>Polymer Engineering and Science</i> , 2007, 47, 181-191.	1.5	53
77	Rheology and microstructure of MDI-PEG reactive prepolymer-modified bitumen. <i>Mechanics of Time-Dependent Materials</i> , 2007, 10, 347-359.	2.3	25
78	Protein-based bioplastics: effect of thermo-mechanical processing. <i>Rheologica Acta</i> , 2007, 46, 711-720.	1.1	130
79	Influence of pH and ionic strength on the thermal-induced transitions of egg yolk dispersions. <i>Grasas y Aceites</i> , 2007, 58, .	0.3	0
80	Effect of waste polymer addition on the rheology of modified bitumen. <i>Fuel</i> , 2006, 85, 936-943.	3.4	171
81	Influence of pressure and temperature on the flow behaviour of heavy fuel oils. <i>Rheologica Acta</i> , 2006, 45, 357-365.	1.1	22
82	Process rheokinetics and microstructure of recycled EVA/LDPE-modified bitumen. <i>Rheologica Acta</i> , 2006, 45, 513-524.	1.1	12
83	Effect of composition and processing on the linear viscoelasticity of synthetic binders. <i>European Polymer Journal</i> , 2005, 41, 1429-1438.	2.6	29
84	Experimental study of grease flow in pipelines: wall slip and air entrainment effects. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005, 44, 805-817.	1.8	39
85	Rheology and processing of gluten based bioplastics. <i>Biochemical Engineering Journal</i> , 2005, 26, 131-138.	1.8	95
86	Viscous flow properties and phase behaviour of oil-resin blends. <i>Fluid Phase Equilibria</i> , 2005, 237, 117-122.	1.4	7
87	Rheological characterization of polysaccharide-surfactant matrices for cosmetic O/W emulsions. <i>Journal of Colloid and Interface Science</i> , 2005, 290, 546-556.	5.0	93
88	Influence of Crumb Rubber Concentration on the Rheological Behavior of a Crumb Rubber Modified Bitumen. <i>Energy & Fuels</i> , 2005, 19, 1984-1990.	2.5	105
89	Rheology and microstructure of heat-induced egg yolk gels. <i>Rheologica Acta</i> , 2004, 43, 184-195.	1.1	87
90	The rheology of recycled EVA/LDPE modified bitumen. <i>Rheologica Acta</i> , 2004, 43, 482-490.	1.1	46

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91	Effect of pH and added electrolyte on the thermal-induced transitions of egg yolk. <i>Rheologica Acta</i> , 2004, 43, 539-549.	1.1	20
92	Thermo-rheological behaviour and storage stability of ground tire rubber-modified bitumens. <i>Fuel</i> , 2004, 83, 2041-2049.	3.4	278
93	Viscous properties and microstructure of recycled eva modified bitumen. <i>Fuel</i> , 2004, 83, 31-38.	3.4	186
94	Rheology and stability of bitumen/EVA blends. <i>European Polymer Journal</i> , 2004, 40, 2365-2372.	2.6	145
95	Linear Viscoelasticity of Recycled EVA-Modified Bitumens. <i>Energy & Fuels</i> , 2004, 18, 357-364.	2.5	81
96	Thermo-rheological behaviour and storage stability of ground tire rubber-modified bitumens. <i>Fuel</i> , 2004, 83, 2041-2041.	3.4	14
97	Influence of thermal treatment on the flow of starch-based food emulsions. <i>European Food Research and Technology</i> , 2003, 217, 17-22.	1.6	10
98	Rheological characterization of egg yolk processed by spray-drying and lipid-cholesterol extraction with carbon dioxide. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2002, 79, 183-190.	0.8	9
99	Rheological characteristics of ground tire rubber-modified bitumens. <i>Chemical Engineering Journal</i> , 2002, 89, 53-61.	6.6	114
100	LINEAR AND NONLINEAR VISCOELASTIC BEHAVIOR OF OIL-IN-WATER EMULSIONS STABILIZED WITH POLYSACCHARIDES. <i>Journal of Texture Studies</i> , 2002, 33, 215-236.	1.1	49
101	Effect of Salt on the Rheological Properties of Low-in-Fat O/W Emulsions Stabilised with Polysaccharides. <i>Food Science and Technology International</i> , 2002, 8, 213-221.	1.1	6
102	Rheology and Microstructural Transitions in the Lamellar Phase of a Cationic Surfactant. <i>Langmuir</i> , 2001, 17, 1331-1337.	1.6	48
103	Influence of surfactant addition on the rheological properties of aqueous Welan matrices. <i>Rheologica Acta</i> , 2001, 40, 128-134.	1.1	15
104	Rheology and microstructure of asphalt binders. <i>Rheologica Acta</i> , 2001, 40, 135-141.	1.1	32
105	Effect of processing variables on the linear viscoelastic properties of SBS-oil blends. <i>Polymer Engineering and Science</i> , 2001, 41, 2216-2225.	1.5	20
106	Steady-state flow behaviour of synthetic binders. <i>Fuel</i> , 2001, 80, 357-365.	3.4	15
107	Influence of pH and protei thermal treatment on the rheology of pea protein-stabilized oil-in-water emulsions. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2000, 77, 975-984.	0.8	47
108	Linear and non-linear viscoelasticity of low-in-cholesterol mayonnaise / Viscoelasticidad lineal y no lineal de mayonesas con bajo contenido en colesterol. <i>Food Science and Technology International</i> , 2000, 6, 165-172.	1.1	10

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109	Influence of Temperature and Composition on the Linear Viscoelastic Properties of Synthetic Binders. Energy & Fuels, 2000, 14, 131-137.	2.5	22
110	Rheology of spray-dried egg-yolk products. Grasas Y Aceites, 2000, 51, .	0.3	6
111	Transient flow of o/w sucrose palmitate emulsions. Journal of Food Engineering, 1999, 41, 33-41.	2.7	39
112	Rheological characterisation of synthetic binders and unmodified bitumens. Fuel, 1999, 78, 1-10.	3.4	102
113	Effect of the lupin protein/surfactant ratio on linear viscoelastic properties of oil-in-water emulsions. Journal of Surfactants and Detergents, 1999, 2, 545-551.	1.0	15
114	Linear viscoelastic properties of sucrose ester-stabilized oil-in-water emulsions. Journal of Rheology, 1998, 42, 1375-1388.	1.3	51
115	Influence of Processing on the Rheology of Egg Yolk Products. , 1998, , 191-192.		0
116	Influence of concentration and temperature on the flow behavior of oil-in-water emulsions stabilized by sucrose palmitate. JAOCS, Journal of the American Oil Chemists' Society, 1997, 74, 1203-1212.	0.8	45
117	Comportamiento reológico no estacionario de emulsiones aceite en agua estabilizadas con un palmitato de sacarosa.. Grasas Y Aceites, 1997, 48, 425-436.	0.3	3
118	Linear viscoelasticity of O/W sucrose-palmitate emulsions. , 1996, , 246-251.		10
119	FLOW BEHAVIOUR AND STABILITY OF OIL-IN-WATER EMULSIONS STABILIZED BY A SUCROSE PALMITATE. Journal of Texture Studies, 1994, 25, 331-348.	1.1	23