

# Preparation, surface modification and characterisation blended films

Polymer Testing

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Lightweight Concrete Containing an Alkaline Resistant Starch-Based Aquagel. <i>Journal of Polymers and the Environment</i> , 2004, 12, 189-196.	2.4	11
2	Thermal, mechanical, and surface characterization of starch-poly(vinyl alcohol) blends and borax-crosslinked films. <i>Journal of Applied Polymer Science</i> , 2005, 96, 1313-1322.	1.3	109
3	Hologram formation reconsidered in dichromated polyvinylalcohol: polymer cross-linking around chromium (V). , 2005, 5742, 195.		6
4	Importance of Surface Tension Characterization for Food, Pharmaceutical and Packaging Products: A Review. <i>Critical Reviews in Food Science and Nutrition</i> , 2006, 46, 391-407.	5.4	114
5	Characterization of polymeric biocomposite based on poly(vinyl alcohol) and poly(vinyl pyrrolidone). <i>Polymer Composites</i> , 2006, 27, 147-152.	2.3	45
6	New combined polymer/chromium approach for investigating the phototransformations involved in hologram formation in dichromated poly(vinyl alcohol). <i>Journal of Polymer Science Part A</i> , 2006, 44, 1317-1325.	2.5	18
7	Wetting properties at the surface of iota-carrageenan-based edible films. <i>Journal of Colloid and Interface Science</i> , 2006, 294, 400-410.	5.0	173
8	Thermal and surface characterization of plasticized starch polyvinyl alcohol blends crosslinked with epichlorohydrin. <i>Journal of Applied Polymer Science</i> , 2006, 101, 25-34.	1.3	116
9	Crystallinity and Stability of Poly(vinyl alcohol)-Fumed Silica Mixed Matrix Membranes. <i>Journal of Macromolecular Science - Physics</i> , 2007, 47, 39-51.	0.4	54
10	DeterminaÃ§Ã£o da cor, imagem superficial topogrÃ¡fica e Ãngulo de contato de biofilmes de diferentes fontes de amido. <i>Ciencia E Agrotecnologia</i> , 2007, 31, 154-163.	1.5	20
11	Effect of dopant mixture on structural, optical and electron spin resonance properties of polyvinyl alcohol. <i>Physica B: Condensed Matter</i> , 2007, 390, 1-9.	1.3	112
12	Preparation and characterization of blends of recycled polystyrene with cassava starch. <i>Journal of Materials Science</i> , 2007, 42, 7530-7536.	1.7	34
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14	Surface Structural Investigation of Starch-Based Biomaterials. <i>Macromolecular Bioscience</i> , 2008, 8, 210-219.	2.1	29
15	Plasma treatment for enhancing mechanical and thermal properties of biodegradable PVA/starch blends. <i>Journal of Applied Polymer Science</i> , 2008, 109, 2452-2459.	1.3	53
16	Characterization of polyhydroxybutyrate-hydroxyvalerate (PHB-HV)/maize starch blend films. <i>Journal of Food Engineering</i> , 2008, 89, 361-369.	2.7	130
17	Key interactions in biodegradable thermoplastic starch/poly(vinyl alcohol)/montmorillonite micro- and nanocomposites. <i>Composites Science and Technology</i> , 2008, 68, 1453-1462.	3.8	137
18	The structure and properties of a starch-based biodegradable film. <i>Carbohydrate Polymers</i> , 2008, 71, 263-268.	5.1	233

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19	Comparative study on the films of poly(vinyl alcohol)/pea starch nanocrystals and poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 742 T	5.1	279
20	Surface photo-crosslinking of corn starch sheets. Carbohydrate Polymers, 2008, 74, 405-410.	5.1	68
21	The effect of citric acid on the structural properties and cytotoxicity of the polyvinyl alcohol/starch films when molding at high temperature. Carbohydrate Polymers, 2008, 74, 763-770.	5.1	314
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26	Preparation and characterization of surface crosslinked TPS/PVA blend films. Carbohydrate Polymers, 2009, 76, 632-638.	5.1	78
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30	Effects of Î±-zirconium phosphate aspect ratio on the properties of polyvinyl alcohol nanocomposites. Polymer Testing, 2009, 28, 801-807.	2.3	22
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32	Effect of electron beam irradiation on the structural properties of PVA/V2O5 xerogel. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 72, 868-875.	2.0	40
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34	Development of films based on blends of Amaranthus cruentus flour and poly(vinyl alcohol). Carbohydrate Polymers, 2009, 75, 592-598.	5.1	69
35	Effect of adding a small amount of high molecular weight polyacrylamide on properties of oxidized cassava starch. Carbohydrate Polymers, 2010, 81, 911-918.	5.1	19
36	Properties of biodegradable blend films based on fish myofibrillar protein and polyvinyl alcohol as influenced by blend composition and pH level. Journal of Food Engineering, 2010, 100, 85-92.	2.7	122

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38	Improving the mechanical properties of thermoplastic starch/poly(vinyl alcohol)/clay nanocomposites. <i>Composites Science and Technology</i> , 2010, 70, 1557-1563.	3.8	98
39	The Preparation and Characterization of Glycerol Pseudo-Thermoplastic Starch/Glycerol Pseudo-Thermoplastic Polyvinyl Alcohol (GTPS/GTPVA) Biodegradable Films Using the Solution Casting Method. <i>Polymer-Plastics Technology and Engineering</i> , 2010, 49, 279-284.	1.9	5
40	Gamma-irradiation assisted seeded growth of Ag nanoparticles within PVA matrix. <i>Materials Chemistry and Physics</i> , 2011, 128, 109-113.	2.0	79
41	Properties and sorption studies of polyethylene oxide-starch blended films. <i>Food Hydrocolloids</i> , 2011, 25, 1572-1580.	5.6	32
42	Structure and properties of starch/PVA/nano-SiO <sub>2</sub> hybrid films. <i>Carbohydrate Polymers</i> , 2011, 86, 1784-1789.	5.1	59
43	Photochemical behavior of PVA as an oxygen-barrier polymer for solar cell encapsulation. <i>RSC Advances</i> , 2011, 1, 1471.	1.7	93
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45	Characterization of gamma irradiated plasticized starch/poly(vinyl alcohol) (PLST/PVA) blends and their application as protected edible materials. <i>Journal of Polymer Research</i> , 2011, 18, 763-771.	1.2	27
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47	Oleophilic modification of poly(vinyl alcohol) films by functionalized soybean oil triglycerides. <i>Journal of Applied Polymer Science</i> , 2011, 119, 2431-2438.	1.3	10
48	Thermal and mechanical properties of poly(vinyl alcohol) plasticized with glycerol. <i>Journal of Applied Polymer Science</i> , 2011, 122, 3102-3109.	1.3	136
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51	Structural, Dielectric, Thermal and Optical Properties of Ti <sup>3+</sup> or Cr <sup>3+</sup> : PVA Polymer Films. <i>Ferroelectrics</i> , 2011, 413, 123-141.	0.3	3
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56	The plasticizing mechanism and effect of calcium chloride on starch/poly(vinyl alcohol) films. <i>Carbohydrate Polymers</i> , 2012, 90, 1677-1684.	5.1	119
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58	Structure and Physical Properties of Starch/Poly Vinyl Alcohol/Laponite RD Nanocomposite Films. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 1954-1962.	2.4	77
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64	Optimization of PVA clay nanocomposite for ultra-barrier multilayer encapsulation of organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 99, 240-249.	3.0	90
65	Influence of nanoclays on the photochemical behaviour of poly(vinyl alcohol). <i>Polymer Degradation and Stability</i> , 2012, 97, 488-495.	2.7	31
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68	The effect of microwave irradiation on poly(vinyl alcohol) dissolved in ethylene glycol. <i>Journal of Applied Polymer Science</i> , 2013, 128, 175-180.	1.3	12
69	Ag seeds mediated growth of Au nanoparticles within PVA matrix: An eco-friendly catalyst for degradation of 4-nitrophenol. <i>Reactive and Functional Polymers</i> , 2013, 73, 1510-1516.	2.0	37
70	Influence of natamycin loading methods on the physical characteristics of alginate active films. <i>Journal of Supercritical Fluids</i> , 2013, 76, 74-82.	1.6	46
71	Synthesis and characterization of Ag <sub>0</sub> /PVA nanoparticles via photo- and chemical reduction methods for antibacterial study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 922-929.	2.3	33
72	Ellipsometric investigations of Fe <sup>3+</sup> -doped polyvinyl alcohol films. <i>Colloid and Polymer Science</i> , 2013, 291, 2705-2709.	1.0	4

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73	Eco-friendly sizing technology of cotton yarns with He/O <sub>2</sub> atmospheric pressure plasma treatment and green sizing recipes. <i>Textile Research Journal</i> , 2013, 83, 2177-2190.	1.1	19
74	Effect of poly(vinyl pyrrolidone) on the morphology and physical properties of poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 International, 2013, 23, 579-587.	1.8	121
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78	Starch Based Blends, Composites and Nanocomposites. <i>Advanced Structured Materials</i> , 2013, , 121-154.	0.3	8
79	An improved method for preparing glutaraldehyde cross-linked chitosanâ€“poly(vinyl alcohol) microparticles. <i>Polymer Bulletin</i> , 2013, 70, 549-561.	1.7	67
80	Preparation and properties of Starch-g-PLA/poly(vinyl alcohol) composite film. <i>Carbohydrate Polymers</i> , 2013, 96, 384-388.	5.1	50
81	Preparation of Polyvinyl Alcoholâ€“Lithium Zirconate Nanocomposite Films and Analysis of Transmission, Absorption, Emission Features, and Electrical Properties.. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4771-4781.	1.5	24
82	Thermal properties stability of UV irradiated PVA nanohybrid composites. <i>Polymers for Advanced Technologies</i> , 2013, 24, 164-167.	1.6	2
83	Nano Composite PVA-TiO <sub>2</sub> ; Thin Films for OTFTs. <i>Advanced Materials Research</i> , 0, 678, 335-342.	0.3	17
84	Photoluminescence and Structural Properties of CdSe Quantum Dot-Polymer Composite Films. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1617, 171-177.	0.1	0
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90	Letrozole dispersed on poly (vinyl alcohol) anchored maleic anhydride grafted low density polyethylene: A controlled drug delivery system for treatment of breast cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 169-175.	2.5	24
91	Photostability of organic materials used in polymer solar cells. <i>Polymer International</i> , 2014, 63, 1335-1345.	1.6	93

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93	Mechanical and barrier properties of extruded film made from sodium and calcium caseinates. <i>Food Packaging and Shelf Life</i> , 2014, 2, 65-72.	3.3	22
94	Physicochemical and morphological properties of plasticized poly(vinyl alcohol)â€‘agar biodegradable films. <i>International Journal of Biological Macromolecules</i> , 2014, 69, 176-184.	3.6	69
95	Effects of coâ€‘plasticization of acetyl tributyl citrate and glycerol on the properties of starch/PVA films. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	18
96	Mixture design to develop biodegradable sheets with high levels of starch and polyvinyl alcohol. <i>Starch/Staerke</i> , 2015, 67, 1011-1019.	1.1	15
97	Investigation of Elastomer Infiltration into 3D Printed Facial Soft Tissue Prostheses. <i>Anaplastology</i> , 2015, 04, .	0.1	12
98	Properties and Applications of Polyvinyl Alcohol, Halloysite Nanotubes and Their Nanocomposites. <i>Molecules</i> , 2015, 20, 22833-22847.	1.7	487
99	A Review of Natural Fiber Reinforced Poly(Vinyl Alcohol) Based Composites: Application and Opportunity. <i>Polymers</i> , 2015, 7, 2205-2222.	2.0	138
100	Structural, Optical, Electrical, and Magnetic Properties of PVA:Gd <sup>3+</sup> and PVA:Ho <sup>3+</sup> Polymer Films. <i>Indian Journal of Materials Science</i> , 2015, 2015, 1-8.	0.6	18
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105	Investigation of structural and electrical properties of novel CuOâ€‘PVA nanocomposite films. <i>Journal of Materials Science</i> , 2015, 50, 7064-7074.	1.7	78
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108	Formation of silica colloidal crystals on soft hydrophobic vs rigid hydrophilic surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 467, 180-187.	2.3	7
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110	Films prepared from poly(vinyl alcohol) and amylose-fatty acid salt inclusion complexes with increased surface hydrophobicity and high elongation. <i>Starch/Staerke</i> , 2016, 68, 874-884.	1.1	9
111	Fabrication of wearable semiconducting piezoelectric nanogenerator made with electrospun-derived zinc sulfide nanorods and poly(vinyl alcohol) nanofibers. <i>Translational Materials Research</i> , 2016, 3, 045001.	1.2	24
112	Gelatin/hydroxypropyl methylcellulose matrices " Polymer interactions approach for oral disintegrating films. <i>Materials Science and Engineering C</i> , 2016, 69, 668-674.	3.8	35
113	Poly(vinyl alcohol) composite films with high percent elongation prepared from amylose fatty ammonium salt inclusion complexes. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	9
114	Luminescence properties of Eu <sup>3+</sup> /CDs/PVA composite applied in light conversion film. <i>Optical Materials</i> , 2016, 62, 458-464.	1.7	22
115	Effect of oxidation degrees of graphene oxide on the structure and properties of poly (vinyl alcohol) composite films. <i>Composites Science and Technology</i> , 2016, 129, 146-152.	3.8	110
116	Potato starch-reinforced poly(vinyl alcohol) and poly(lactic acid) composites for biomedical applications. <i>Journal of Thermoplastic Composite Materials</i> , 2016, 29, 1536-1553.	2.6	14
117	The effect of graphene loading on mechanical, thermal and biological properties of poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	2.9	56
118	Studies of the plasticizing effect of different hydrophilic inorganic salts on starch/poly (vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.6	55
119	Fabrication of ampicillin/starch/polymer composite nanofibers with controlled drug release properties by electrospinning. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 77, 594-603.	1.1	17
120	Enhancement of mechanical and thermal properties of (Poly[vinyl alcohol]) Diallyl starch composites via the incorporation of montmorillonite nanofillers. <i>Journal of Vinyl and Additive Technology</i> , 2017, 23, E128.	1.8	5
121	Water Soluble Polysiloxanes. <i>Silicon</i> , 2017, 9, 619-628.	1.8	12
122	Influence of He/O <sub>2</sub> atmospheric pressure plasma pretreatment on sizing adhesion strength and breaking elongation of sized cotton rovings. <i>Textile Reseach Journal</i> , 2017, 87, 682-693.	1.1	6
123	Formation of disulfonated poly(arylene ether sulfone) thin film desalination membranes plasticized with poly(ethylene glycol) by solvent-free melt extrusion. <i>Polymer</i> , 2017, 109, 106-114.	1.8	9
124	Facile synthesis, characterization and material properties of a novel poly(vinyl cinnamate)/ nickel oxide nanocomposite. <i>Polymer International</i> , 2017, 66, 548-556.	1.6	38
125	Bacterial cellulose-assisted de-lignified wheat straw-PVA based bio-composites with novel characteristics. <i>Carbohydrate Polymers</i> , 2017, 161, 244-252.	5.1	35
126	Synthesis and characterization of tragacanth gum based hydrogels by radiation method for use in wound dressing application. <i>Radiation Physics and Chemistry</i> , 2017, 135, 94-105.	1.4	50
127	Fabrication of Al deposited sandwich capacitor structure with CdSe/PVA dielectric thin film by spin coating technique for high power applications: synthesis and characterizations. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 7544-7557.	1.1	12



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129	In vitro digestibility of ultrasound-treated corn starch. Starch/Staerke, 2017, 69, 1700040.	1.1	61
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135	Zirconia Sulphate Dispersed Polymer Composites for Electronic Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 1835-1850.	1.9	12
136	Thermoplastic Starch-Based Blends. , 2017, , 153-186.		6
137	Solid-state reaction synthesis for mixed-phase Eu <sup>3+</sup> -doped bismuth molybdate and its luminescence properties. Modern Physics Letters B, 2017, 31, 1750241.	1.0	5
138	Structural, morphological, compositional and optical studies of plasma polymerized 2-furaldehyde amorphous thin films. Applied Surface Science, 2017, 423, 983-994.	3.1	21
139	Electrical Impedance Studies on Sodium Ion Conducting Composite Blend Polymer Electrolyte. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 257-265.	1.9	48
140	Reverse indentation size effects in gamma irradiated blood compatible blend films of chitosan-poly (vinyl alcohol) for possible medical applications. Materials Science and Engineering C, 2017, 71, 982-993.	3.8	21
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142	Rheology of film-forming solutions and physical properties of tara gum film reinforced with polyvinyl alcohol (PVA). Food Hydrocolloids, 2017, 63, 677-684.	5.6	140
143	Alyssum homolocarpum seed gum-polyvinyl alcohol biodegradable composite film: Physicochemical, mechanical, thermal and barrier properties. Carbohydrate Polymers, 2017, 155, 280-293.	5.1	99
144	Nanoscaled Fluorescent Films and Layers for Detection of Environmental Pollutants. , 2017, , .		2
145	Reinforcing effect of graphene oxide reinforcement on the properties of poly (vinyl alcohol) and carboxymethyl tamarind gum based phase-separated film. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 81, 61-71.	1.5	33

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148	Effects of electron beam irradiation on properties of corn starch undergone periodate oxidation mechanism blended with polyvinyl alcohol. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2018, 416, 73-88.	0.6	15
149	Synthesis, Luminescence and Thermal Properties of PVA/ZnO/Al <sub>2</sub> O <sub>3</sub> Composite Films: Towards Fabrication of Sunlight-Induced Catalyst for Organic Dye Removal. <i>Journal of Polymers and the Environment</i> , 2018, 26, 3371-3381.	2.4	41
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