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Variation in crystalline type with amylose content in maize starch granules: an X-ray powder diffraction study

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|-----|--|------|-----------|
| 835 | Solid state NMR studies on the structural and conformational properties of natural maize starches. <i>Carbohydrate Polymers</i> , 1998 , 36, 285-292 | 10.3 | 81 |
| 834 | Crystallinity and structuring role of water in native and recrystallized starches by ¹³ C CP-MAS NMR spectroscopy. <i>Carbohydrate Polymers</i> , 1999 , 39, 327-339 | 10.3 | 125 |
| 833 | Isothermal crystallization of concentrated amorphous starch systems measured by modulated differential scanning calorimetry. 1999 , 37, 2881-2892 | | 21 |
| 832 | Starch molecular structure and phosphorylation investigated by a combined chromatographic and chemometric approach. <i>Carbohydrate Polymers</i> , 2000 , 41, 163-174 | 10.3 | 70 |
| 831 | The relationship between thermodynamic and structural properties of low and high amylose maize starches. <i>Carbohydrate Polymers</i> , 2001 , 44, 151-160 | 10.3 | 148 |
| 830 | The effect of water content on the ordered/disordered structures in starches. 2001 , 58, 247-59 | | 118 |
| 829 | Characterization of Different Starches Oxidized by Hypochlorite. 2001 , 53, 211-218 | | 200 |
| 828 | A Study of Some Physicochemical Properties of High-Crystalline Tapioca Starch. 2001 , 53, 577 | | 58 |
| 827 | Properties of injection moulded blends of starch and modified biodegradable polyesters. 2001 , 37, 515-526 | | 160 |
| 826 | Molecular and Gelatinization Properties of Rice Starches from IR24 and Sinandomeng Cultivars. 2001 , 78, 596-602 | | 19 |
| 825 | Isolation and Characterization of Atriplex hortensis and Sweet Chenopodium quinoa Starches. 2002 , 79, 715-719 | | 26 |
| 824 | Thermal decomposition chemistry of starch studied by ¹³ C high-resolution solid-state NMR spectroscopy. 2002 , 43, 5791-5796 | | 103 |
| 823 | Spherulitic crystallization of gelatinized maize starch and its fractions. <i>Carbohydrate Polymers</i> , 2002 , 49, 439-448 | 10.3 | 47 |
| 822 | Structure-properties relationship in cross-linked high amylose starch cast films. <i>Carbohydrate Polymers</i> , 2002 , 50, 371-378 | 10.3 | 50 |
| 821 | Structure and thermodynamic melting parameters of wheat starches with different amylose content. 2003 , 74, 681-695 | | 47 |
| 820 | Molecular Basis of the Gelatinisation and Swelling Characteristics of Waxy Rice Starches Grown in the Same Location During the Same Season. 2003 , 37, 363-376 | | 46 |
| 819 | Hydration and physicochemical properties of small-particle cassava starch. 2003 , 83, 123-132 | | 21 |

| | | | |
|-----|--|------|------|
| 818 | Preparation and structural properties of small-particle cassava starch. 2003 , 83, 760-768 | | 25 |
| 817 | Composition and properties of starches extracted from tubers of different potato varieties grown under the same environmental conditions. 2003 , 82, 283-289 | | 95 |
| 816 | Characterization and Utilization of Acid-modified Rice Starches for Use in Pharmaceutical Tablet Compression. 2003 , 55, 464-475 | | 26 |
| 815 | Chemical and Physical Characterisation of Grain Tef [<i>Eragrostis tef</i> (Zucc.) Trotter] Starch Granule Composition. 2003 , 55, 304-312 | | 15 |
| 814 | Comparative structure and physicochemical properties of Ilpumbyeo, a high-quality japonica rice, and its mutant, Suweon 464. 2003 , 51, 6598-603 | | 71 |
| 813 | Starch bioengineering. 2004 , 97-127 | | 2 |
| 812 | Starch composition, fine structure and architecture. 2004 , 39, 151-165 | | 1005 |
| 811 | Molecular basis of the gelatinisation and swelling characteristics of waxy barley starches grown in the same location during the same season. Part II. Crystallinity and gelatinisation characteristics. 2004 , 39, 57-66 | | 38 |
| 810 | Estimating the Specific Heat Capacity of Starch-Water-Glycerol Systems as a Function of Temperature and Compositions. 2004 , 56, 6-12 | | 20 |
| 809 | Structural changes of injection molded starch during heat treatment in water atmosphere: Simultaneous wide and small-angle X-ray scattering study. 2004 , 93, 301-309 | | 11 |
| 808 | Effects of calcium carbonate as the expanding inhibitor on the structural and mechanical properties of expanded starch/polyvinyl alcohol blends. 2004 , 93, 1762-1768 | | 20 |
| 807 | Formamide as the plasticizer for thermoplastic starch. 2004 , 93, 1769-1773 | | 90 |
| 806 | Study on antibacterial starch/chitosan blend film formed under the action of irradiation. <i>Carbohydrate Polymers</i> , 2004 , 57, 83-88 | 10.3 | 133 |
| 805 | Relationship between α -amylase degradation and the structure and physicochemical properties of legume starches. <i>Carbohydrate Polymers</i> , 2004 , 57, 299-317 | 10.3 | 122 |
| 804 | Investigation of the starch gelatinisation phenomena in water-glycerol systems: application of modulated temperature differential scanning calorimetry. <i>Carbohydrate Polymers</i> , 2004 , 58, 191-204 | 10.3 | 66 |
| 803 | DSC and NMR relaxation studies of starch-water interactions during gelatinization. <i>Carbohydrate Polymers</i> , 2004 , 58, 345-358 | 10.3 | 139 |
| 802 | Characteristics of native and enzymatically hydrolyzed ragi (<i>Eleusine coracana</i>) and rice (<i>Oryza sativa</i>) starches. <i>Carbohydrate Polymers</i> , 2005 , 59, 43-50 | 10.3 | 44 |
| 801 | Starches from different botanical sources I: Contribution of amylopectin fine structure to thermal properties and enzyme digestibility. <i>Carbohydrate Polymers</i> , 2005 , 60, 529-538 | 10.3 | 282 |

| | | |
|-----|---|---------|
| 800 | Physical, Thermal and Sorption Profile of Starch Obtained from <i>Tacca leontopetaloides</i> . 2005 , 57, 55-61 | 49 |
| 799 | Edible films and coatings from starches. 2005 , 318-337 | 25 |
| 798 | Physicochemical characteristics of 6-year-old Korean ginseng starches. 2005 , 38, 801-807 | 16 |
| 797 | Effect of barley and its amylopectin content on ruminal fermentation and nitrogen utilization in lactating dairy cows. 2006 , 89, 4321-35 | 34 |
| 796 | Octenyl succinic anhydride modified early indica rice starches differing in amylose content. 2006 , 54, 2775-9 | 70 |
| 795 | Amylose crystallization from concentrated aqueous solution. 2006 , 7, 761-70 | 52 |
| 794 | Hydrolysis of native starches with amylases. 2006 , 130, 39-54 | 264 |
| 793 | Effect of annealing on the structure and physicochemical properties of barley starches of varying amylose content. 2006 , 39, 59-77 | 152 |
| 792 | Studies on the granular structure of resistant starches (type 4) from normal, high amylose and waxy corn starch citrates. 2006 , 39, 332-341 | 122 |
| 791 | Morphology and Microstructure of Maize Starches with Different Amylose/Amylopectin Content. 2006 , 58, 611-615 | 50 |
| 790 | Segmental mobility of polymers in starch granules at low moisture contents. <i>Carbohydrate Polymers</i> , 2006 , 64, 539-547 | 10.3 33 |
| 789 | Studies on the physicochemical, morphological, thermal and crystalline properties of starches separated from different <i>Dioscorea opposita</i> cultivars. 2006 , 99, 38-44 | 60 |
| 788 | Using X-ray diffractometry for identification of <i>Fritillaria</i> preparations according to geographical origin. 2006 , 40, 572-575 | 3 |
| 787 | Characteristics of native and enzymatically hydrolyzed common wheat (<i>Triticum aestivum</i>) and dicoccum wheat (<i>Triticum dicoccum</i>) starches. 2006 , 223, 355-361 | 14 |
| 786 | Studies on the morphological, thermal and crystalline properties of starches separated from medicinal plants. 2006 , 76, 420-426 | 25 |
| 785 | Relationship between structure and properties of modified potato starch biodegradable films. 2006 , 101, 4313-4319 | 91 |
| 784 | Extraction and Characterization of Starch from Alkaline Cooked Corn Masa. 2007 , 84, 415-422 | 19 |
| 783 | Morphology and physicochemical changes in rice flour during rice paper production. 2007 , 40, 266-272 | 15 |

| | | | |
|-----|--|------|-----|
| 782 | Water sorption behavior and swelling characteristics of starches subjected to dielectric heating. 2007 , 12, 555-61 | | 8 |
| 781 | Influence of storage conditions on the structure, thermal behavior, and formation of enzyme-resistant starch in extruded starches. 2007 , 55, 9883-90 | | 99 |
| 780 | Ageing of soft thermoplastic starch with high glycerol content. 2007 , 103, 574-586 | | 77 |
| 779 | Granule structural changes in native Chinese Yam (<i>Dioscorea opposita</i> Thunb var. Anguo) starch during acid hydrolysis. <i>Carbohydrate Polymers</i> , 2007 , 69, 286-292 | 10.3 | 51 |
| 778 | Preparation and Characterization of Annealed-Enzymatically Hydrolyzed Tapioca Starch and the Utilization in Tableting. 2007 , 59, 33-45 | | 26 |
| 777 | Preparation, characterization and performances of biodegradable thermoplastic starch. 2007 , 18, 910-915 | | 11 |
| 776 | Effects of starch synthase IIa gene dosage on grain, protein and starch in endosperm of wheat. 2007 , 115, 1053-65 | | 94 |
| 775 | Characterization of starch isolated from Fritillaria traditional Chinese medicine (TCM). 2007 , 80, 727-734 | | 20 |
| 774 | Physicochemical properties of starch obtained from <i>Dioscorea nipponica</i> Makino comparison with other tuber starches. 2007 , 82, 436-442 | | 66 |
| 773 | Morphological and Crystalline Properties of Starches from New Sources-Traditional Chinese Medicines (TCMs). 2008 , 60, 110-114 | | 9 |
| 772 | Iodine-binding in Granular Starch: Different Effects of Moisture Content for Corn and Potato Starch. 2008 , 60, 165-173 | | 35 |
| 771 | Relationships Between Some Physicochemical Properties of Starches from Maize Cultivars Grown in East China. 2008 , 60, 305-314 | | 10 |
| 770 | A novel approach for calculating starch crystallinity and its correlation with double helix content: a combined XRD and NMR study. 2008 , 89, 761-8 | | 434 |
| 769 | A study on freeze-thaw characteristics and microstructure of Chinese water chestnut starch gels. 2008 , 88, 186-192 | | 36 |
| 768 | Plasticizer concentration and the performance of a diffusion-controlled polymeric drug delivery system. 2008 , 331, 25-30 | | 45 |
| 767 | Phase segregation of amylopectin and β -lactoglobulin in aqueous system. <i>Carbohydrate Polymers</i> , 2008 , 72, 151-159 | 10.3 | 5 |
| 766 | Physical and mechanical properties of thermoplastic starch/montmorillonite nanocomposite films. <i>Carbohydrate Polymers</i> , 2008 , 73, 55-63 | 10.3 | 433 |
| 765 | Physicochemical properties of etherified maize starches. <i>Carbohydrate Polymers</i> , 2008 , 74, 170-184 | 10.3 | 29 |

| | | |
|-----|--|-----|
| 764 | Structural characteristics and in vitro digestibility of Mango kernel starches (<i>Mangifera indica</i> L.). 2008 , 107, 92-97 | 51 |
| 763 | Sorption and desorption of water vapor by grains of native starch of some crops. 2008 , 70, 366-371 | 6 |
| 762 | Glucan, water dikinase phosphorylates crystalline maltodextrins and thereby initiates solubilization. 2008 , 55, 323-34 | 83 |
| 761 | Starch gelatinization. 2009 , 55, 221-68 | 122 |
| 760 | Starch: Major Sources, Properties and Applications as Thermoplastic Materials. 2008 , 321-342 | 40 |
| 759 | Pressurization of some starches compared to heating: Calorimetric, thermo-optical and X-ray examination. 2008 , 41, 683-692 | 13 |
| 758 | Phase transition of cross-linked and hydroxypropylated corn (<i>Zea mays</i> L.) starches. 2008 , 41, 346-358 | 34 |
| 757 | Preparation of PAN-based carbon nanofibers by hot-stretching. 2008 , 15, 671-677 | 26 |
| 756 | Processing of starch-based blends for biomedical applications. 2008 , 85-105 | 1 |
| 755 | The Effect of Cooking on the Nano-Sized Crystallites in Finger Millet and Barley Using Waxes Data. 2008 , 11, 781-790 | 3 |
| 754 | Relationships Between Some Structures and Functionalities of Starches from Wheat Cultivars Grown in East China. 2008 , 85, 252-256 | 1 |
| 753 | Structural modifications of granular starch upon acylation with short-chain fatty acids. 2009 , 23, 1940-1946 | 59 |
| 752 | Effect of a plasticizer on the structure of biodegradable starch/clay nanocomposites: Thermal, water-sorption, and oxygen-barrier properties. 2009 , 112, 2044-2056 | 119 |
| 751 | Effect of annealing and pressure on microstructure of cornstarches with different amylose/amylopectin ratios. 2009 , 344, 350-4 | 34 |
| 750 | Optimization of instant jasmine rice process and its physicochemical properties. 2009 , 95, 54-61 | 76 |
| 749 | Fine mapping of the grain chalkiness QTL qPGWC-7 in rice (<i>Oryza sativa</i> L.). 2009 , 118, 581-90 | 79 |
| 748 | Crystallinity, Thermal and Morphological Characteristics of Resistant Starch Type III Produced by Hydrothermal Treatment of Debranched Cassava Starch. 2009 , 61, 634-645 | 50 |
| 747 | Development of self-assembled bacterial cellulose-starch nanocomposites. 2009 , 29, 1098-1104 | 144 |

| | | | |
|-----|---|------|-----|
| 746 | Effect of gamma irradiation on the thermal and rheological properties of grain amaranth starch. 2009 , 78, 954-960 | | 46 |
| 745 | Structure and properties of starch/zirconium phosphate nanocomposite films. <i>Carbohydrate Polymers</i> , 2009 , 77, 358-364 | 10.3 | 53 |
| 744 | Debranching enzyme concentration effected on physicochemical properties and α -amylase hydrolysis rate of resistant starch type III from amylose rice starch. <i>Carbohydrate Polymers</i> , 2009 , 78, 5-9 | 10.3 | 39 |
| 743 | Elucidating raw material variability--importance of surface properties and functionality in pharmaceutical powders. 2009 , 10, 780-8 | | 35 |
| 742 | Starch-based coatings for colon-specific drug delivery. Part I: the influence of heat treatment on the physico-chemical properties of high amylose maize starches. 2009 , 72, 574-86 | | 42 |
| 741 | Crystalline Structure and Pasting Properties of Starch in Eight Cultivars of Spring- and Autumn-Sown Waxy Corn. 2009 , 35, 499-505 | | 7 |
| 740 | Pressure-temperature phase diagrams of maize starches with different amylose contents. 2009 , 57, 11510-6 | | 25 |
| 739 | Ethanol Dehydration by Adsorption with Starchy and Cellulosic Materials. 2009 , 48, 6783-6788 | | 31 |
| 738 | Resistant Starch in Vitro and in Vivo. 2009 , 449-510 | | 27 |
| 737 | Hypolipidaemic effect of maize starch with different amylose content in ovariectomized rats depends on intake amount of resistant starch. 2009 , 101, 328-39 | | 12 |
| 736 | Morphologies and Thermal Properties of Hydroxypropylated High-Amylose Corn Starch. 2010 , 87, 144-149 | | 18 |
| 735 | Influence of drying procedure and of low degree of substitution on the structural and drug release properties of carboxymethyl starch. 2010 , 11, 775-85 | | 17 |
| 734 | Starch nanoparticles: a review. 2010 , 11, 1139-53 | | 714 |
| 733 | In vivo degradation of banana starch: Structural characterization of the degradation process. <i>Carbohydrate Polymers</i> , 2010 , 81, 291-299 | 10.3 | 29 |
| 732 | Preparation of starches with low glycaemic response using amylosucrase and their physicochemical properties. <i>Carbohydrate Polymers</i> , 2010 , 82, 489-497 | 10.3 | 56 |
| 731 | Iodine absorption properties and its effect on the crystallinity of developing wheat starch granules. <i>Carbohydrate Polymers</i> , 2010 , 82, 786-794 | 10.3 | 32 |
| 730 | Physicochemical properties and amylopectin fine structures of A- and B-type granules of waxy and normal soft wheat starch. 2010 , 51, 256-264 | | 107 |
| 729 | Hydrolysis of granular starch at sub-gelatinization temperature using a mixture of amylolytic enzymes. 2010 , 88, 47-54 | | 134 |

| | | |
|-----|---|---------|
| 728 | Stretching-induced crystallinity and orientation to improve the mechanical properties of electrospun PAN nanocomposites. 2010 , 31, 1726-1730 | 44 |
| 727 | Formation of starch spherulites: Role of amylose content and thermal events. 2010 , 121, 980-989 | 30 |
| 726 | Energy dispersive X-ray diffraction to identify explosive substances: Spectra analysis procedure optimization. 2010 , 623, 1050-1060 | 26 |
| 725 | Amylose involvement in the amylopectin clusters of potato starch granules. <i>Carbohydrate Polymers</i> , 2010 , 82, 376-383 | 10.3 34 |
| 724 | Effect of melt-processing and ultrasonic treatment on physical properties of high-amylose maize starch. 2010 , 17, 637-41 | 31 |
| 723 | Morphology and physicochemical properties of mechanically activated rice starch. <i>Carbohydrate Polymers</i> , 2010 , 79, 341-348 | 10.3 55 |
| 722 | Physicochemical properties of commercial semi-sweet biscuit. 2010 , 121, 1029-1038 | 51 |
| 721 | Characterization of starches isolated from different Chinese Baizhi (<i>Angelica dahurica</i>) cultivars. 2010 , 62, 198-204 | 13 |
| 720 | Rheological properties of starches from grain amaranth and their relationship to starch structure. 2010 , 62, 302-308 | 38 |
| 719 | Comparison of the morphological, crystalline, and thermal properties of different crystalline types of starches after acid hydrolysis. 2010 , 62, 686-696 | 24 |
| 718 | Resistant starch modification: effects on starch properties and functionality as co-encapsulant in sodium caseinate-based fish oil microcapsules. 2010 , 75, E636-42 | 24 |
| 717 | Physicochemical Properties of Porous Starches from Different Botanical Origin. 2010 , 159, 363-370 | |
| 716 | Thermogravimetric study of water state in wheat starch gels obtained under high pressures. 2010 , 1189, 55-61 | 7 |
| 715 | Difference of Amylopectin Structure Among Rice Varieties Differing in Grain Quality and Its Correlations with Starch Physicochemical Properties. 2010 , 36, 276-284 | 6 |
| 714 | C-type starch from high-amylose rice resistant starch granules modified by antisense RNA inhibition of starch branching enzyme. 2010 , 58, 7383-8 | 83 |
| 713 | Granule structure and distribution of allomorphs in C-type high-amylose rice starch granule modified by antisense RNA inhibition of starch branching enzyme. 2010 , 58, 11946-54 | 74 |
| 712 | Formation of semi-compound C-type starch granule in high-amylose rice developed by antisense RNA inhibition of starch-branching enzyme. 2010 , 58, 11097-104 | 35 |
| 711 | Studies on the starch and hemicelluloses fractionated by graded ethanol precipitation from bamboo <i>Phyllostachys bambusoides</i> f. <i>shouzhu</i> Yi. 2011 , 59, 2680-8 | 64 |

| | | |
|-----|--|----------|
| 710 | Study on the Electrospun CNTs/Polyacrylonitrile-Based Nanofiber Composites. 2011 , 2011, 1-7 | 23 |
| 709 | Evidence of micro- and nanoscaled particles during starch nanocrystals preparation and their isolation. 2011 , 12, 3039-46 | 82 |
| 708 | Structural properties of hydrolyzed high-amylose rice starch by α -amylase from <i>Bacillus licheniformis</i> . 2011 , 59, 12667-73 | 17 |
| 707 | Physico-chemical properties of jackfruit seed starch (<i>Artocarpus heterophyllus</i>) and its application as a thickener and stabilizer in chilli sauce. 2011 , 44, 1309-1313 | 65 |
| 706 | Preparation and physicochemical properties of modified jackfruit starches. 2011 , 44, 1766-1773 | 51 |
| 705 | Iodine sequestration by amylose to combat iodine deficiency disorders. 2011 , 22, 335-340 | 23 |
| 704 | Physicochemical properties of starches from two different yam (<i>Dioscorea opposita</i> Thunb.) residues. 2011 , 54, 243-251 | 18 |
| 703 | IMPROVEMENT OF SHELF LIFE STABILITY OF CAKES. 2011 , 34, 151-162 | 22 |
| 702 | Impact of the catalytic activity of iodine on the granule morphology, crystalline structure, thermal properties and water solubility of acetylated corn (<i>Zea mays</i>) starch synthesized under microwave assistance. 2011 , 33, 302-309 | 21 |
| 701 | Relationship between the structure, physicochemical properties and in vitro digestibility of rice starches with different amylose contents. 2011 , 25, 968-975 | 313 |
| 700 | Digestibility and physicochemical properties of rice (<i>Oryza sativa</i> L.) flours and starches differing in amylose content. <i>Carbohydrate Polymers</i> , 2011 , 86, 1751-1759 | 10.3 177 |
| 699 | Textural properties and their correlation to cell structure in porous food materials. 2011 , 59, 1498-507 | 26 |
| 698 | Gelatinization and retrogradation of thermoplastic starch characterized using modulated temperature differential scanning calorimetry. 2011 , 106, 93-99 | 8 |
| 697 | Influence of botanic origin and amylose content on the morphology of starch nanocrystals. 2011 , 13, 7193-7208 | 103 |
| 696 | Understanding starch organisation in gluten-free pasta from rice flour. <i>Carbohydrate Polymers</i> , 2011 , 84, 1069-1074 | 10.3 47 |
| 695 | Starch nanoparticle formation via reactive extrusion and related mechanism study. <i>Carbohydrate Polymers</i> , 2011 , 85, 208-214 | 10.3 114 |
| 694 | Comparative Studies on Some Physico-chemical, Thermal, Morphological, and Pasting Properties of Acid-thinned Jicama and Maize Starches. 2011 , 4, 48-60 | 31 |
| 693 | Combinatorial effects of mechanical activation and chemical stimulation on the microwave assisted acetylation of corn (<i>Zea mays</i>) starch. 2011 , 63, 96-105 | 8 |

| | | |
|-----|--|----------|
| 692 | Effect of high-pressure microfluidization on the structure of cassava starch granule. 2011 , 63, 160-170 | 58 |
| 691 | Characterizing starch structure in a gluten-free pasta by using iodine vapor as a tool. 2011 , 63, 241-244 | 9 |
| 690 | Physicochemical and functional properties of fern rhizome (<i>Pteridium aquilinum</i>) starch. 2011 , 63, 468-474 | 8 |
| 689 | Effect of acid-ethanol on the physicochemical properties of <i>Dioscorea opposita</i> Thunb. and <i>Pueraria thomsonii</i> Benth. starches. 2011 , 63, 302-310 | 5 |
| 688 | Development of waxy cassava with different Biological and physico-chemical characteristics of starches for industrial applications. 2011 , 108, 1925-35 | 53 |
| 687 | Glycerol/starch/Na ⁺ -montmorillonite nanocomposites: A XRD, FTIR, DSC and ¹ H NMR study. <i>Carbohydrate Polymers</i> , 2011 , 83, 1591-1597 | 10.3 134 |
| 686 | Comparative study of physicochemical properties of breadfruit (<i>Artocarpus altilis</i>) and white yam starches. <i>Carbohydrate Polymers</i> , 2011 , 85, 294-302 | 10.3 35 |
| 685 | Preparation and characterization of sorbitol modified nanoclay with high amylose bionanocomposites. <i>Carbohydrate Polymers</i> , 2011 , 85, 97-104 | 10.3 20 |
| 684 | Rice grain and starch properties: Effects of nitrogen fertilizer application. <i>Carbohydrate Polymers</i> , 2011 , 86, 219-225 | 10.3 59 |
| 683 | Physico-chemical properties of potato starches. 2011 , 125, 958-965 | 128 |
| 682 | Structural and functional properties of starches from field peas. 2011 , 126, 1546-52 | 73 |
| 681 | Effects of acetic acid/acetic anhydride ratios on the properties of corn starch acetates. 2011 , 126, 1662-9 | 103 |
| 680 | Study on physico-chemical properties of dialdehyde yam starch with different aldehyde group contents. 2011 , 512, 196-201 | 29 |
| 679 | Nanocomposites Based on Starch and Fibers of Natural Origin. 2011 , 471-509 | 1 |
| 678 | Enhancing Crystallinity and Orientation by Hot-Stretching to Improve the Mechanical Properties of Electrospun Partially Aligned Polyacrylonitrile (PAN) Nanocomposites. 2011 , 4, 621-632 | 56 |
| 677 | Physicochemical characterization of traditional and commercial instant corn flours prepared with threshed white corn. 2012 , 10, 287-295 | 9 |
| 676 | The Influence of Amylose and Amylopectin Characteristics on Phase Transition of Cornstarches Observed under Shearless Condition. 2012 , 554-556, 1170-1173 | |
| 675 | Edible and Biodegradable Starch Films: A Review. 2012 , 5, 2058-2076 | 368 |

| | | | |
|-----|---|------|----|
| 674 | Biomolecular analyses of starch and starch granule proteins in the high-amylose rice mutant Goami 2. 2012 , 60, 11576-85 | | 38 |
| 673 | Physicochemical and binder properties of starch obtained from <i>Cyperus esculentus</i> . 2012 , 13, 379-88 | | 58 |
| 672 | Texture properties of rice cakes made of rice flours treated with 4- β -glucanotransferase and their relationship with structural characteristics. 2012 , 21, 1707-1714 | | 9 |
| 671 | Lack of starch synthase IIIa and high expression of granule-bound starch synthase I synergistically increase the apparent amylose content in rice endosperm. 2012 , 193-194, 62-69 | | 53 |
| 670 | Starch/Clay Nano-Biocomposites. 2012 , 287-321 | | 5 |
| 669 | Properties of a novel type of starch found in the double mutant "sweet wheat". <i>Carbohydrate Polymers</i> , 2012 , 89, 1250-60 | 10.3 | 9 |
| 668 | Occurrence of amylose-lipid complexes in teff and maize starch biphasic pastes. <i>Carbohydrate Polymers</i> , 2012 , 90, 616-22 | 10.3 | 77 |
| 667 | Diversity in characteristics of starch amongst rice bean (<i>Vigna umbellata</i>) germplasm: Amylopectin structure, granules size distribution, thermal and rheology. 2012 , 46, 194-200 | | 15 |
| 666 | Structural changes of high-amylose rice starch residues following in vitro and in vivo digestion. 2012 , 60, 9332-41 | | 66 |
| 665 | Design and synthesis of plasticizing fillers based on zirconium phosphonates for glycerol-free composite starch films. 2012 , 22, 5098 | | 16 |
| 664 | Starch/zirconium phosphate composite films: Hydration, thermal stability, and mechanical properties. 2012 , 64, 237-245 | | 16 |
| 663 | Physicochemical, morphological, and thermal properties of starches separated from bulbs of four Chinese lily cultivars. 2012 , 64, 545-551 | | 11 |
| 662 | Comparison of starches separated from different <i>Dioscorea bulbifera</i> Linn. cultivars. 2012 , 64, 531-537 | | 3 |
| 661 | Physicochemical, morphological, structural, and thermal characteristics of starches separated from <i>Bulbus fritillaria</i> of different cultivars. 2012 , 64, 572-580 | | 9 |
| 660 | Production of amorphous starch powders by solution spray drying. 2012 , 126, E143-E153 | | 17 |
| 659 | Pasting viscosity and in vitro digestibility of retrograded waxy and normal corn starch powders. <i>Carbohydrate Polymers</i> , 2012 , 87, 235-239 | 10.3 | 55 |
| 658 | Study on the granular characteristics of starches separated from Chinese rice cultivars. <i>Carbohydrate Polymers</i> , 2012 , 87, 1038-1044 | 10.3 | 26 |
| 657 | Processing and characterization of starch-based materials from pehuen seeds (<i>Araucaria araucana</i> (Mol) K. Koch). <i>Carbohydrate Polymers</i> , 2012 , 88, 299-307 | 10.3 | 36 |

- 656 Physicochemical properties of high-amylose rice starches during kernel development. *Carbohydrate Polymers*, **2012**, 88, 690-698 10.3 26
- 655 Comparison of physicochemical properties of starches from seed and rhizome of lotus. *Carbohydrate Polymers*, **2012**, 88, 676-683 10.3 70
- 654 Physicochemical properties of rhizome starch from a traditional Chinese medicinal plant of *Anemone altaica*. *Carbohydrate Polymers*, **2012**, 89, 571-7 10.3 21
- 653 Ordered structure and thermal property of acid-modified high-amylose rice starch. **2012**, 134, 2242-8 18
- 652 Structural characterizations and digestibility of debranched high-amylose maize starch complexed with lauric acid. **2012**, 28, 174-181 132
- 651 Characterizations of starches isolated from five different *Dioscorea* L. species. **2012**, 29, 35-41 48
- 650 Natural fiber-reinforced thermoplastic starch composites obtained by melt processing. **2012**, 72, 858-863 125
- 649 Influence of acetylation on physicochemical, functional and thermal properties of potato and cassava starches. **2012**, 108, 320-326 73
- 648 Synthesis and Characterization of Biodegradable Starch-Polyacrylamide Graft Copolymers Using Starches with Different Microstructures. **2013**, 21, 359-365 28
- 647 Effect of modified tapioca starch and xanthan gum on low temperature texture stability and dough viscoelasticity of a starch-based food gel. **2013**, 119, 446-453 21
- 646 Characterization of Arenga starch in comparison with sago starch. *Carbohydrate Polymers*, **2013**, 92, 2306-13 33
- 645 The structure and properties of different types of starch exposed to UV radiation: a comparative study. *Carbohydrate Polymers*, **2013**, 98, 477-82 10.3 25
- 644 Physicochemical and functional characteristics of lentil starch. *Carbohydrate Polymers*, **2013**, 92, 1484-96 10.3 95
- 643 Toward underlying reasons for rice starches having low viscosity and high amylose: physiochemical and structural characteristics. **2013**, 93, 1543-51 51
- 642 Preparation of crystalline starch nanoparticles using cold acid hydrolysis and ultrasonication. *Carbohydrate Polymers*, **2013**, 98, 295-301 10.3 85
- 641 Effect of defatting on acid hydrolysis rate of maize starch with different amylose contents. **2013**, 62, 652-6 26
- 640 Morphology and structural characterization of high-amylose rice starch residues hydrolyzed by porcine pancreatic α -amylase. **2013**, 31, 195-203 34
- 639 Physicochemical properties and in vitro digestion of starches from different *Dioscorea* plants. **2013**, 32, 432-439 43

| | | | |
|-----|---|------|-----|
| 638 | In situ observation of crystallinity disruption patterns during starch gelatinization. <i>Carbohydrate Polymers</i> , 2013 , 92, 469-78 | 10.3 | 51 |
| 637 | Heat-moisture treatment under mildly acidic conditions alters potato starch physicochemical properties and digestibility. <i>Carbohydrate Polymers</i> , 2013 , 98, 1245-55 | 10.3 | 35 |
| 636 | Extraction and chemical characterization of starch from <i>S. lycocarpum</i> fruits. <i>Carbohydrate Polymers</i> , 2013 , 98, 1304-10 | 10.3 | 43 |
| 635 | Effect of simultaneous inhibition of starch branching enzymes I and IIb on the crystalline structure of rice starches with different amylose contents. 2013 , 61, 9930-7 | | 30 |
| 634 | Characterization of tradition Chinese medicine (TCM) starch for potential cosmetics industry application. 2013 , 65, 367-373 | | 7 |
| 633 | Preparation and partial characterization of low dextrose equivalent (DE) maltodextrin from banana starch produced by enzymatic hydrolysis. 2013 , 65, 312-321 | | 8 |
| 632 | Effect of ultrasonic treatments on nanoparticle preparation of acid-hydrolyzed waxy maize starch. <i>Carbohydrate Polymers</i> , 2013 , 93, 582-8 | 10.3 | 107 |
| 631 | Preparation of Starch Nanoparticles. 2013 , 153-180 | | 6 |
| 630 | Preparation and properties of RS III from waxy maize starch with pullulanase. 2013 , 33, 19-25 | | 83 |
| 629 | Progress in bio-based plastics and plasticizing modifications. 2013 , 1, 13379 | | 450 |
| 628 | Preparation and Characterization of Three Different Derivatized Potato Starches. 2013 , 21, 395-404 | | 14 |
| 627 | Starch: Major Sources, Properties and Applications as Thermoplastic Materials. 2013 , 129-152 | | 6 |
| 626 | A new method for the continuous production of single dosed controlled release matrix systems based on hot-melt extruded starch: analysis of relevant process parameters and implementation of an in-process control. 2013 , 84, 156-71 | | 18 |
| 625 | Morphology and structural properties of high-amylose rice starch residues hydrolysed by amyloglucosidase. 2013 , 138, 2089-98 | | 18 |
| 624 | Formation of resistant corn starches induced by gamma-irradiation. <i>Carbohydrate Polymers</i> , 2013 , 97, 614-7 | 10.3 | 29 |
| 623 | Effects of amylosucrase treatment on molecular structure and digestion resistance of pre-gelatinised rice and barley starches. 2013 , 138, 966-75 | | 48 |
| 622 | The physicochemical properties of swelled maize starch granules complexed with lauric acid. 2013 , 32, 365-372 | | 65 |
| 621 | DC conductivity and dielectric properties of maize starch/methylcellulose blend films. 2013 , 19, 361-369 | | 23 |

| | | |
|-----|--|--------|
| 620 | Structure and Dynamics of Wheat Starch in Breads Fortified with Polyphenols and Pectin: an ESEM and Solid-State CP/MAS ¹³ C NMR Spectroscopic Study. 2013 , 6, 110-123 | 23 |
| 619 | Looking for new hybrid polymer fillers: synthesis of nanosized E-type Zr(IV) organophosphonates through an unconventional topotactic anion exchange reaction. 2013 , 52, 7680-7 | 27 |
| 618 | Effect of amylose content on estimated kinetic parameters for a starch viscosity model. 2013 , 114, 75-82 | 7 |
| 617 | Physicochemical characterization of starch isolated from red <i>Monascus</i> rice. 2013 , 9, n/a-n/a | |
| 616 | Aminoalcohol functionalized zirconium phosphate as versatile filler for starch-based composite membranes. <i>Carbohydrate Polymers</i> , 2013 , 97, 210-6 | 10.3 8 |
| 615 | What Is Being Learned About Starch Properties from Multiple-Level Characterization. 2013 , 90, 312-325 | 44 |
| 614 | Enzymatic hydrolysis of <i>Canna indica</i> , <i>Manihot esculenta</i> and <i>Xanthosoma sagittifolium</i> native starches below the gelatinization temperature. 2013 , 65, 151-161 | 15 |
| 613 | Studies on the morphological, crystalline, thermal properties of an under utilized starch from yam <i>Dioscorea zingiberensis</i> C. H. Wright. 2013 , 65, 123-133 | 11 |
| 612 | Structure and physicochemical properties of starches in lotus (<i>Nelumbo nucifera</i> Gaertn.) rhizome. 2013 , 1, 273-83 | 34 |
| 611 | Physicochemical characterization of dextrans prepared with amylases from sorghum malt. 2013 , 65, 962-968 | 4 |
| 610 | Octenylsuccinylation of cornstarch to improve its sizing properties for polyester/cotton blend spun yarns. 2014 , 15, 2319-2328 | 23 |
| 609 | Physical and Molecular Characterization of Millet Starches. 2014 , 91, 286-292 | 48 |
| 608 | Molecular Structure and Organization of Starch Granules from Developing Wheat Endosperm. 2014 , 91, 578-586 | 10 |
| 607 | Effect of rice ageing and freeze-thaw cycle on textural properties of cooked rice (<i>Oryza sativa</i> L.) cv. Khao Dawk Mali 105. 2014 , 49, 2283-2289 | 4 |
| 606 | Different structures of heterogeneous starch granules from high-amylose rice. 2014 , 62, 11254-63 | 47 |
| 605 | Optimization of corn starch succinylation using response surface methodology. 2014 , 66, 508-514 | 6 |
| 604 | Second Harmonic Generation Mediated by Aligned Water in Starch Granules. 2014 , 118, 14785-94 | 11 |
| 603 | Mechanical properties and delivery of drug/probiotics from starch and non-starch based novel bigels: A comparative study. 2014 , 66, 865-879 | 23 |

| | | | |
|-----|---|------|-----|
| 602 | Different structural properties of high-amylose maize starch fractions varying in granule size. 2014 , 62, 11711-21 | | 55 |
| 601 | Structure-Property Relationships of Genetically Modified Starch. 2014 , 31-75 | | |
| 600 | The properties of different cultivars of Jinhai sweet potato starches in China. 2014 , 67, 1-6 | | 34 |
| 599 | Rheological and biochemical properties of Solanum lycocarpum starch. <i>Carbohydrate Polymers</i> , 2014 , 104, 66-72 | 10.3 | 12 |
| 598 | The interaction of sweet potato amylose/amylopectin and KCl during drying. 2014 , 41, 325-331 | | 3 |
| 597 | Effect of processing on the microstructure of finger millet by X-ray diffraction and scanning electron microscopy. 2014 , 51, 494-502 | | 19 |
| 596 | Comparative susceptibilities to alkali-treatment of A-, B- and C-type starches of Dioscorea zingiberensis, Dioscorea persimilis and Dioscorea opposita. 2014 , 39, 286-294 | | 27 |
| 595 | Crystalline and structural properties of acid-modified lotus rhizome C-type starch. <i>Carbohydrate Polymers</i> , 2014 , 102, 799-807 | 10.3 | 31 |
| 594 | Ball Milling of Amaranth Starch-Enriched Fraction. Changes on Particle Size, Starch Crystallinity, and Functionality as a Function of Milling Energy. 2014 , 7, 2723-2731 | | 29 |
| 593 | Physicochemical and thermal properties of Phaseolus vulgaris L. var. Great Northern bean starch. 2014 , 79, C295-300 | | 13 |
| 592 | Effect of amylose:amylopectin ratio and rice bran addition on starch films properties. <i>Carbohydrate Polymers</i> , 2014 , 111, 543-55 | 10.3 | 119 |
| 591 | Structural and functional properties of C-type starches. <i>Carbohydrate Polymers</i> , 2014 , 101, 289-300 | 10.3 | 88 |
| 590 | Physicochemical properties of dry matter and isolated starch from potatoes grown in different locations in Canada. 2014 , 57, 89-94 | | 32 |
| 589 | Structural and functional properties of alkali-treated high-amylose rice starch. 2014 , 145, 245-53 | | 46 |
| 588 | Physicochemical properties of granular and non-granular cationic starches prepared under ultra high pressure. <i>Carbohydrate Polymers</i> , 2014 , 99, 385-93 | 10.3 | 38 |
| 587 | Preparation and characterization of octenyl succinic anhydride modified waxy rice starch by dry media milling. 2014 , 66, 985-991 | | 15 |
| 586 | Assessing the susceptibility of amylose-lysophosphatidylcholine complexes to amylase by the use of iodine. 2014 , 66, 576-581 | | 2 |
| 585 | Characterization of proso millet starches from different geographical origins of China. 2014 , 23, 1371-1377 | | 18 |

| | | | |
|-----|---|------|-----|
| 584 | The effect of moisture content on physicochemical properties of extruded waxy and non-waxy rice flour. <i>Carbohydrate Polymers</i> , 2014 , 114, 133-140 | 10.3 | 25 |
| 583 | Structural and thermal transitions during the conversion from native to granular cold-water swelling maize starch. <i>Carbohydrate Polymers</i> , 2014 , 114, 196-205 | 10.3 | 45 |
| 582 | Impact of molecular and crystalline structures on in vitro digestibility of waxy rice starches. <i>Carbohydrate Polymers</i> , 2014 , 112, 729-35 | 10.3 | 57 |
| 581 | Two-dimensional macromolecular distributions reveal detailed architectural features in high-amylose starches. <i>Carbohydrate Polymers</i> , 2014 , 113, 539-51 | 10.3 | 33 |
| 580 | In situ fabrication of a microporous bacterial cellulose/potato starch composite scaffold with enhanced cell compatibility. 2014 , 21, 1823-1835 | | 42 |
| 579 | Castor oil and PEG-based shape memory polyurethane films for biomedical applications. 2014 , 131, n/a-n/a | | 17 |
| 578 | Physicochemical, Thermal, Pasting and Microstructure Properties of Hydroxypropylated Jackfruit Seed Starch Prepared by Etherification with Propylene Oxide. 2014 , 9, 249-259 | | 12 |
| 577 | Allomorph distribution and granule structure of lotus rhizome C-type starch during gelatinization. 2014 , 142, 408-15 | | 47 |
| 576 | Effects of gamma irradiation and stearic acid, alone and in combination, on functional, structural, and molecular characteristics of high amylose maize starch. 2014 , 66, 624-635 | | 11 |
| 575 | Corn starch acid hydrolysis at the onset gelatinization temperature: Morphology, crystallinity, viscoelasticity, and thermal properties. 2014 , 66, 636-644 | | 11 |
| 574 | Comparison of starches isolated from three different <i>Trapa</i> species. 2014 , 37, 174-181 | | 61 |
| 573 | Physicochemical characterization of amphiphilic nanoparticles based on the novel starch-deoxycholic acid conjugates and self-aggregates. <i>Carbohydrate Polymers</i> , 2014 , 102, 838-45 | 10.3 | 35 |
| 572 | Retrograded maize starch used as a medium to enrich <i>Monascus</i> from the air in winter. 2014 , 67, 201-4 | | 2 |
| 571 | Hydration and the phase diagram of acid hydrolyzed potato starch. <i>Carbohydrate Polymers</i> , 2014 , 112, 569-77 | 10.3 | 19 |
| 570 | Green preparation and characterisation of waxy maize starch nanoparticles through enzymolysis and recrystallisation. 2014 , 162, 223-8 | | 154 |
| 569 | Characteristics of starch-based films plasticised by glycerol and by the ionic liquid 1-ethyl-3-methylimidazolium acetate: a comparative study. <i>Carbohydrate Polymers</i> , 2014 , 111, 841-8 | 10.3 | 53 |
| 568 | Effect of extrusion temperature and moisture content of corn flour on crystallinity and hardness of rice analogues. 2015 , | | 2 |
| 567 | Effects of ionic liquid 1-allyl-3-methylimidazolium chloride treatment on the microstructure and phase transition of cornstarch. 2015 , 77, 139-145 | | 15 |

| | | |
|-----|---|---------|
| 566 | Application of Raman spectroscopy in structure analysis and crystallinity calculation of corn starch. 2015 , 67, 612-619 | 37 |
| 565 | Preparation and structure characterization of linear long-chain dextrin obtained from pullulanase debranching of cassava starch. 2015 , 67, 884-891 | 4 |
| 564 | Poly(butylene succinate) (PBS)/ionic liquid plasticized starch blends: Preparation, characterization, and properties. 2015 , 67, 802-809 | 25 |
| 563 | Physicochemical properties of glutinous rice in the presence of alkali and borax. 2015 , 67, 930-936 | 4 |
| 562 | Morphology and Physicochemical Properties of 3 Lilium Bulb Starches. 2015 , 80, C1661-9 | 8 |
| 561 | Physicochemical changes of maize starch treated by ball milling with limited water content. 2015 , 67, 772-779 | 24 |
| 560 | Mechanical Retention and Waterproof Properties of Bacterial Cellulose-Reinforced Thermoplastic Starch Biocomposites Modified with Sodium Hexametaphosphate. 2015 , 8, 3168-3194 | 8 |
| 559 | Effect of multiple freezing/thawing cycles on the structural and functional properties of waxy rice starch. 2015 , 10, e0127138 | 20 |
| 558 | Physicochemical properties, modifications and applications of starches from different botanical sources. 2015 , 35, 215-236 | 409 |
| 557 | Effect of rice variety on the physicochemical properties of the modified rice powders and their derived mucoadhesive gels. 2015 , 9, 221-8 | 10 |
| 556 | Effects of Micro Powder Milling on Physicochemical Properties of Sago Starch. 2015 , 62, 73-80 | 3 |
| 555 | Comparison of physicochemical properties of starches and parenchyma cells isolated from potatoes cultivated in Korea. 2015 , 24, 955-963 | 13 |
| 554 | Fine Structure of Amylose. 2015 , 41-60 | 3 |
| 553 | Expanded corn starch as a versatile material in atom transfer radical polymerization (ATRP) of styrene and methyl methacrylate. <i>Carbohydrate Polymers</i> , 2015 , 130, 290-8 | 10.3 21 |
| 552 | Physicochemical and thermal properties of gamma-irradiated sago (Metroxylon sagu) starch. 2015 , 109, 48-53 | 26 |
| 551 | Morphological, thermal and physicochemical characteristics of small granules starch from <i>Mirabilis jalapa</i> L. 2015 , 602, 1-7 | 18 |
| 550 | Comparison of molecular structures and functional properties of high-amylose starches from rice transgenic line and commercial maize. 2015 , 46, 172-179 | 55 |
| 549 | Characterisation of starch during germination and seedling development of a rice mutant with a high content of resistant starch. 2015 , 62, 94-101 | 21 |

| | | |
|-----|---|---------|
| 548 | Structural and functional properties of starches from wild <i>Trapa quadrispinosa</i> , <i>japonica</i> , <i>mammillifera</i> and <i>incisa</i> . 2015 , 48, 117-126 | 10 |
| 547 | Calcium phosphate flocs and the clarification of sugar cane juice from whole of crop harvesting. 2015 , 63, 1573-81 | 12 |
| 546 | Structural and functional properties of endosperm starch and flour from dicotyledon <i>Mirabilis jalapa</i> . 2015 , 67, 328-337 | 8 |
| 545 | Impact of amylose content on starch physicochemical properties in transgenic sweet potato. <i>Carbohydrate Polymers</i> , 2015 , 122, 417-27 | 10.3 66 |
| 544 | Expanded corn starch a novel material as macroinitiator/solid support in SI and AGET ATRP: GMA polymerization. 2015 , 22, 1 | 9 |
| 543 | Characteristics of starch-based films with different amylose contents plasticised by 1-ethyl-3-methylimidazolium acetate. <i>Carbohydrate Polymers</i> , 2015 , 122, 160-8 | 10.3 39 |
| 542 | Effect of surfactant treatment on swelling behaviour of normal and waxy cereal starches. <i>Carbohydrate Polymers</i> , 2015 , 125, 265-71 | 10.3 6 |
| 541 | Relationships among Genetic, Structural, and Functional Properties of Rice Starch. 2015 , 63, 6241-8 | 71 |
| 540 | Physicochemical properties of starches with variable amylose contents extracted from bambara groundnut genotypes. <i>Carbohydrate Polymers</i> , 2015 , 133, 171-8 | 10.3 71 |
| 539 | Physicochemical, Structural, and Proteomic Analysis of Starch Granules from Maize Landraces of Northwest Mexico. 2015 , 92, 320-326 | 4 |
| 538 | Densely packed matrices as rate determining features in starch hydrolysis. 2015 , 43, 18-31 | 94 |
| 537 | Comparison of physicochemical properties of B-type nontraditional starches from different sources. 2015 , 78, 165-72 | 41 |
| 536 | Endosperm Structure and Physicochemical Properties of Starches from Normal, Waxy, and Super-Sweet Maize. 2015 , 18, 2825-2839 | 19 |
| 535 | Dielectric barrier discharge atmospheric air plasma treatment of high amylose corn starch films. 2015 , 63, 1076-1082 | 57 |
| 534 | The effect of starch concentration on the gelatinization and liquefaction of corn starch. 2015 , 48, 189-196 | 42 |
| 533 | Starch Biosynthesis in Leaves and Its Regulation. 2015 , 211-237 | 5 |
| 532 | Starch. 2015 , | 15 |
| 531 | Mechanical Behavior of Starch/Carbon Nanotubes Composites. 2015 , 141-171 | 3 |

| | | | |
|-----|--|------|-----|
| 530 | Ultrastructure of underutilized tuber starches and its relation to physicochemical properties. 2015 , 188, 632-40 | | 34 |
| 529 | Relationship between structure and functional properties of normal rice starches with different amylose contents. <i>Carbohydrate Polymers</i> , 2015 , 125, 35-44 | 10.3 | 120 |
| 528 | Long-term annealing of C-type kudzu starch: Effect on crystalline type and other physicochemical properties. 2015 , 67, 577-584 | | 25 |
| 527 | Isolation and Characterization of Starch from Pearl Millet (<i>Pennisetum typhoidium</i>) Flours. 2015 , 18, 2675-2687 | | 40 |
| 526 | Comparison of Endosperm Starch Granule Development and Physicochemical Properties of Starches from Waxy and Non-Waxy Wheat. 2015 , 18, 2409-2421 | | 17 |
| 525 | Structural and functional properties of wheat starch affected by multiple freezing/thawing cycles. 2015 , 67, 683-691 | | 35 |
| 524 | Starch maleation and sulfosuccinylation to alleviate the intrinsic drawback of brittleness of cornstarch film for warp sizing. 2015 , 16, 1890-1897 | | 11 |
| 523 | Extrusion induced low-order starch matrices: Enzymic hydrolysis and structure. <i>Carbohydrate Polymers</i> , 2015 , 134, 485-96 | 10.3 | 43 |
| 522 | Effect of granule size on the properties of lotus rhizome C-type starch. <i>Carbohydrate Polymers</i> , 2015 , 134, 448-57 | 10.3 | 44 |
| 521 | Synthesis and Characterization of Cassava Starch Nanocrystals by Hydrolysis Method. 2015 , 1113, 446-452 | | 12 |
| 520 | Comparison of starch granule development and physicochemical properties of starches in wheat pericarp and endosperm. 2015 , 95, 148-57 | | 24 |
| 519 | Starch and derivatives as pharmaceutical excipients. 2015 , 21-84 | | 2 |
| 518 | Effect of extrusion process parameters and pregelatinized rice flour on physicochemical properties of ready-to-eat expanded snacks. 2015 , 52, 2634-45 | | 24 |
| 517 | Polysaccharide-based aerogel microspheres for oral drug delivery. <i>Carbohydrate Polymers</i> , 2015 , 117, 797-806 | 10.3 | 186 |
| 516 | Effect of granule organisation on the behaviour of starches in the NMMO (N-methyl morpholine N-oxide) solvent system. <i>Carbohydrate Polymers</i> , 2015 , 116, 103-10 | 10.3 | 14 |
| 515 | Influence of reaction parameters on carboxymethylation of rice starches with varying amylose contents. <i>Carbohydrate Polymers</i> , 2015 , 115, 186-92 | 10.3 | 9 |
| 514 | Physicochemical Properties of Ginkgo Kernal Starch. 2015 , 18, 380-391 | | 14 |
| 513 | Study of Thermal and Structural Properties of Starch Granules from Different Maize Genotypes. 2015 , 10, 19-24 | | 9 |

| | | |
|-----|---|---------|
| 512 | Characterization and Prebiotic Effect of the Resistant Starch from Purple Sweet Potato. 2016 , 21, | 29 |
| 511 | Comparison of Physicochemical Characteristics of Starch Isolated from Sweet and Grain Sorghum. 2016 , 2016, 1-15 | 4 |
| 510 | Influence of the starch structure in the synthesis and the yield of levulinic acid. 2016 , 68, 943-952 | 3 |
| 509 | Cultivar difference in starch-related physicochemical and functional properties of flours from ginseng (<i>Panax ginseng</i>) roots. 2016 , 68, 909-918 | 2 |
| 508 | Effects of enzymatic modifications and botanical source on starch-stearic acid complex formation. 2016 , 68, 700-708 | 26 |
| 507 | Comparison of Morphology and Physicochemical Properties of Starch Among 3 Arrowhead Varieties. 2016 , 81, C1110-7 | 4 |
| 506 | Rheological and structural properties of modified starches from the young shoots of <i>Borassus aethiopium</i> . 2016 , 60, 265-270 | 17 |
| 505 | Removal of heavy metal ions in water by starch esters. 2016 , 68, 37-46 | 30 |
| 504 | Production of an in Vitro Low-Digestible Starch via Hydrothermal Treatment of Amylosucrase-Modified Normal and Waxy Rice Starches and Its Structural Properties. 2016 , 64, 5045-52 | 28 |
| 503 | Characterization of Grain Quality and Starch Fine Structure of Two Japonica Rice (<i>Oryza Sativa</i>) Cultivars with Good Sensory Properties at Different Temperatures during the Filling Stage. 2016 , 64, 4048-57 | 73 |
| 502 | Different characteristic effects of ageing on starch-based films plasticised by 1-ethyl-3-methylimidazolium acetate and by glycerol. <i>Carbohydrate Polymers</i> , 2016 , 146, 67-79 | 10.3 33 |
| 501 | Physical and structural changes induced by high pressure on corn starch, rice flour and waxy rice flour. 2016 , 85, 95-103 | 33 |
| 500 | Production of starch nanoparticles using normal maize starch via heat-moisture treatment under mildly acidic conditions and homogenization. <i>Carbohydrate Polymers</i> , 2016 , 151, 274-282 | 10.3 15 |
| 499 | Structural characterization of complexes prepared with glycerol monoestearate and maize starches with different amylose contents. <i>Carbohydrate Polymers</i> , 2016 , 148, 371-9 | 10.3 35 |
| 498 | Variety Difference in Molecular Structure, Physico-chemical and Thermal Properties of Starches from Pigmented Rice. 2016 , 12, 557-565 | 18 |
| 497 | Chitosan-starch beads prepared by ionotropic gelation as potential matrices for controlled release of fertilizers. <i>Carbohydrate Polymers</i> , 2016 , 148, 134-42 | 10.3 97 |
| 496 | Understanding the structural features of high-amylose maize starch through hydrothermal treatment. 2016 , 84, 268-74 | 34 |
| 495 | Properties of new starches from tubers of <i>Arisaema elephas</i> , <i>yunnanense</i> and <i>erubescens</i> . 2016 , 61, 183-190 | 30 |

| | | | |
|-----|--|------|----|
| 494 | WITHDRAWN: Effects of brassinosteroids on the yield and quality of machine-transplanted hybrid rice. 2016 , | | |
| 493 | Pilot scale production and in vitro gastro-small intestinal digestion of self-assembled recrystallised starch (SARS) structures. 2016 , 191, 95-104 | | 5 |
| 492 | Recrystallization and in vitro digestibility of wrinkled pea starch gel by temperature cycling. 2016 , 61, 712-719 | | 28 |
| 491 | A comparison study on phase transition and structure of cornstarch in dimethyl sulfoxide and ionic liquid systems. 2016 , 71, 53-60 | | 9 |
| 490 | Study of drying process on starch structural properties and their effect on semolina pasta sensory quality. <i>Carbohydrate Polymers</i> , 2016 , 153, 229-235 | 10.3 | 15 |
| 489 | Chemical Deterioration of Lotus Seeds During Storage. 2016 , 39, 496-503 | | 5 |
| 488 | Effects of removal of surface proteins on physicochemical and structural properties of A- and B-starch isolated from normal and waxy wheat. 2016 , 53, 2673-85 | | 38 |
| 487 | Application of two-phase lamellar model to study the ultrastructure of annealed canna starch: A comparison with linear correlation function. 2016 , 93, 1210-1216 | | 6 |
| 486 | Effect of Nitrogen Management on the Structure and Physicochemical Properties of Rice Starch. 2016 , 64, 8019-8025 | | 27 |
| 485 | Insights into the structural and physicochemical properties of small granular starches from two hydrophyte duckweeds, <i>Spirodela oligorrhiza</i> and <i>Lemna minor</i> . 2016 , 435, 208-214 | | 10 |
| 484 | Itaconic Acid Grafted Starch Hydrogels as Metal Remover: Capacity, Selectivity and Adsorption Kinetics. 2016 , 24, 343-355 | | 30 |
| 483 | Assessing variation in physicochemical, structural, and functional properties of root starches from novel Tanzanian cassava (<i>Manihot esculenta</i> Crantz.) landraces. 2016 , 68, 514-527 | | 12 |
| 482 | Effect of ethanol/water solution on the crystallization of short chain amylose from potato starch. 2016 , 68, 683-690 | | 15 |
| 481 | V-type crystal formation in starch by aqueous ethanol treatment: The effect of amylose degree of polymerization. 2016 , 61, 649-661 | | 29 |
| 480 | Dissolution of starch in urea/NaOH aqueous solutions. 2016 , 133, n/a-n/a | | 20 |
| 479 | Effects of stearic acid and gamma irradiation, alone and in combination, on pasting properties of high amylose maize starch. 2016 , 190, 12-19 | | 28 |
| 478 | Effect of structural characteristics of corncob hemicelluloses fractionated by graded ethanol precipitation on furfural production. <i>Carbohydrate Polymers</i> , 2016 , 136, 203-9 | 10.3 | 41 |
| 477 | Preparation and Characterization of Amylose Inclusion Complexes for Drug Delivery Applications. 2016 , 105, 231-41 | | 26 |

| | | | |
|-----|--|------|-----|
| 476 | Dual redox-triggered shell-sheddable micelles self-assembled from mPEGylated starch conjugates for rapid drug release. 2016 , 6, 9164-9174 | | 25 |
| 475 | Mechanically induced changes in amylose structure and effect on thermal behavior in the presence of TiO ₂ nanoparticles. 2016 , 23, 309-325 | | 1 |
| 474 | In vitro starch digestion kinetics of diets varying in resistant starch and arabinoxylan compared with in vivo portal appearance of glucose in pigs. 2016 , 88, 199-206 | | 10 |
| 473 | Transition from vitreous to floury endosperm in maize (<i>Zea mays</i> L.) kernels is related to protein and starch gradients. 2016 , 68, 148-154 | | 34 |
| 472 | Study on the effects of different drying methods on physicochemical properties, structure, and in vitro digestibility of <i>Fritillaria thunbergii</i> Miq. (Zhebeimu) flours. 2016 , 98, 266-274 | | 14 |
| 471 | Impact of germination on the structures and in vitro digestibility of starch from waxy brown rice. 2016 , 82, 863-70 | | 30 |
| 470 | Particle size distribution of wheat starch granules in relation to baking properties of frozen dough. <i>Carbohydrate Polymers</i> , 2016 , 137, 147-153 | 10.3 | 49 |
| 469 | Soluble starch formulated nanocomposite increases water solubility and stability of curcumin. 2016 , 56, 41-49 | | 103 |
| 468 | In vitro digestion properties of heterogeneous starch granules from high-amylose rice. 2016 , 54, 10-22 | | 28 |
| 467 | Centrifugally spun starch-based fibers from amylopectin rich starches. <i>Carbohydrate Polymers</i> , 2016 , 137, 459-465 | 10.3 | 43 |
| 466 | Effect of repeated heat-moisture treatments on digestibility, physicochemical and structural properties of sweet potato starch. 2016 , 54, 202-210 | | 129 |
| 465 | Preparation and characterization of corn starch-β-carotene composites. <i>Carbohydrate Polymers</i> , 2016 , 136, 394-401 | 10.3 | 35 |
| 464 | Encapsulation of Purple Maize Anthocyanins in Phosphorylated Starch by Spray Drying. 2016 , 93, 130-137 | | 22 |
| 463 | Functionality of maize, wheat, teff and cassava starches with stearic acid and xanthan gum. <i>Carbohydrate Polymers</i> , 2016 , 136, 970-8 | 10.3 | 21 |
| 462 | Comparative structure of starches from high-amylose maize inbred lines and their hybrids. 2016 , 52, 19-28 | | 76 |
| 461 | Relationships between amylopectin molecular structures and functional properties of different-sized fractions of normal and high-amylose maize starches. 2016 , 52, 359-368 | | 79 |
| 460 | Physicochemical Properties of Euryale ferox Kernel Starches from Two Different Regions. 2016 , 19, 289-299 | | 8 |
| 459 | Enhancement of the functional properties of Dioscoreaceas native starches: Mixture as a green modification process. 2017 , 649, 31-40 | | 26 |

| | | |
|-----|---|---------|
| 458 | Physicochemical characterisation, digestibility and anticonstipation activity of some high-resistant untraditional starches from zingiberaceae plants. 2017 , 52, 617-625 | 3 |
| 457 | In structure and in - vitro digestibility of waxy corn starch debranched by pullulanase. 2017 , 67, 104-110 | 40 |
| 456 | Starch-based xerogels: Effect of acetylation on Physicochemical and rheological properties. 2017 , 98, 94-102 | 19 |
| 455 | Comparative analysis of some physicochemical properties of 19 kinds of native starches. 2017 , 69, 1600367 | 6 |
| 454 | Molecular Structure and Physicochemical Properties of Starches from Rice with Different Amylose Contents Resulting from Modification of OsGBSSI Activity. 2017 , 65, 2222-2232 | 51 |
| 453 | Plasticizers for Biopolymer Films. 2017 , 159-182 | 1 |
| 452 | Impact of diverse cultivars on molecular and crystalline structures of rice starch for food processing. <i>Carbohydrate Polymers</i> , 2017 , 169, 33-40 | 10.3 30 |
| 451 | A Sustainable Bioeconomy. 2017 , | 20 |
| 450 | Biomass: The Sustainable Core of Bioeconomy. 2017 , 55-78 | |
| 449 | Preparation and characterization of the inclusion complexes between amylosucrase-treated waxy starch and palmitic acid. 2017 , 26, 323-329 | 9 |
| 448 | A critical optimization study on hydrothermal treatment for decortication of pearl millet to improve its consumption efficiency. 2017 , 11, 1501-1515 | 1 |
| 447 | Facile Preparation of Starch-Based Electroconductive Films with Ionic Liquid. 2017 , 5, 5457-5467 | 41 |
| 446 | Starch in Rubber Based Blends and Micro Composites. 2017 , 109-140 | 2 |
| 445 | Morphological, physicochemical and functional characteristics of starch from Marantha ruiziana Koern. 2017 , 83, 150-156 | 21 |
| 444 | Extraction and Characterization of Starch from Oak Acorn, Sorghum, and Potato and Adsorption Application for Removal of Maxilon Red GRL from Wastewater. 2017 , 204, 897-906 | 11 |
| 443 | C-type starches and their derivatives: structure and function. 2017 , 1398, 47-61 | 17 |
| 442 | Study on the synthesis and physicochemical properties of starch acetate with low substitution under microwave assistance. 2017 , 103, 316-326 | 26 |
| 441 | Investigating the HO/O selective permeability from a view of multi-scale structure of starch/SiO nanocomposites. <i>Carbohydrate Polymers</i> , 2017 , 173, 143-149 | 10.3 12 |

| | | |
|-----|---|---------|
| 440 | Effects of microwave-discharged cold plasma on synthesis and characteristics of citrate derivatives of corn starch granules. 2017 , 26, 697-706 | 10 |
| 439 | Preparation and characterization of non-crystalline granular starch and corresponding carboxymethyl starch. 2017 , 103, 656-662 | 22 |
| 438 | Effects of drying methods on starch crystallinity of gelatinized foxtail millet (Bimillet) and its eating quality. 2017 , 207, 81-89 | 14 |
| 437 | Investigating starch gelatinization through Stokes vector resolved second harmonic generation microscopy. 2017 , 7, 45816 | 9 |
| 436 | Rubber Based Bionanocomposites. 2017 , | 2 |
| 435 | Waxy starch as a perspective raw material (a review). 2017 , 69, 402-409 | 32 |
| 434 | Effect of microwave irradiation on internal molecular structure and physical properties of waxy maize starch. 2017 , 69, 473-482 | 76 |
| 433 | Study of the mechanism of improvement due to waxy wheat flour addition on the quality of frozen dough bread. 2017 , 75, 10-16 | 14 |
| 432 | Isolation and characterisation of nanoparticles from tef and maize starch modified with stearic acid. <i>Carbohydrate Polymers</i> , 2017 , 168, 86-93 | 10.3 13 |
| 431 | Changes in kernel morphology and starch properties of high-amylose brown rice during the cooking process. 2017 , 66, 227-236 | 24 |
| 430 | A new allomorph distribution of C-type starch from root tuber of <i>Apios fortunei</i> . 2017 , 66, 334-342 | 9 |
| 429 | Morphometric and crystallinity changes on jicama starch (<i>Pachyrizus erosus</i>) during gelatinization and their relation with in vitro glycemic index. 2017 , 69, 1600281 | 3 |
| 428 | Allelic variations in the soluble starch synthase II gene family result in changes of grain quality and starch properties in rice (<i>Oryza sativa</i> L.). 2017 , 155, 129-140 | 10 |
| 427 | Comparison of Structural and Functional Properties of Wheat Starch Under Different Soil Drought Conditions. 2017 , 7, 12312 | 18 |
| 426 | Effect of Dry Heating on Physicochemical Properties of Pregelatinized Rice Starch. 2017 , 94, CCHEM-03-17-0043 | |
| 425 | Effect of molecular weight of starch on the properties of cassava starch microspheres prepared in aqueous two-phase system. <i>Carbohydrate Polymers</i> , 2017 , 177, 334-340 | 10.3 23 |
| 424 | On the Plasticization Process of Potato Starch: Preparation and Characterization. 2017 , 12, 397-403 | 19 |
| 423 | A soluble starch synthase I gene, IbSSI, alters the content, composition, granule size and structure of starch in transgenic sweet potato. 2017 , 7, 2315 | 20 |

| | | |
|-----|--|---------|
| 422 | Effect of germination on the structures and physicochemical properties of starches from brown rice, oat, sorghum, and millet. 2017 , 105, 931-939 | 58 |
| 421 | Films from corn, wheat, and rice starch ghost phase fractions display overall superior performance than whole starch films. 2017 , 69, 1700059 | 12 |
| 420 | Natural and Artificial Diversification of Starch. 2017 , 521-539 | |
| 419 | Strength retention and moisture resistant properties of citric acid modified thermoplastic starch resins. 2017 , 24, 1 | 7 |
| 418 | Progress in C-type starches from different plant sources. 2017 , 73, 162-175 | 68 |
| 417 | Starch retrogradation: From starch components to cereal products. 2017 , 68, 43-52 | 58 |
| 416 | Thermal and rheological characteristics of mutant rice starches with widespread variation of amylose content and amylopectin structure. 2017 , 62, 83-93 | 35 |
| 415 | Development and characterization of cross-linked gellan gum and retrograded starch blend hydrogels for drug delivery applications. 2017 , 65, 317-333 | 59 |
| 414 | Impact of pressure on physicochemical properties of starch dispersions. 2017 , 68, 164-177 | 49 |
| 413 | Properties of starch from root tuber of <i>Stephania epigaea</i> in comparison with potato and maize starches. 2017 , 20, 1740-1750 | 9 |
| 412 | Effect of heat-moisture treatment under mildly acidic condition on fragmentation of waxy maize starch granules into nanoparticles. 2017 , 63, 59-66 | 20 |
| 411 | Physicochemical properties of indica-japonica hybrid rice starch from Chinese varieties. 2017 , 63, 356-363 | 45 |
| 410 | Effects of nitrogen level on structure and physicochemical properties of rice starch. 2017 , 63, 525-532 | 42 |
| 409 | Thermomechanical characterization of an amylose-free starch extracted from cassava (<i>Manihot esculenta</i> , Crantz). <i>Carbohydrate Polymers</i> , 2017 , 157, 1777-1784 | 10.3 17 |
| 408 | Enhanced fluorescence of starch-fluorescence guest complexes enables evaluation of the encapsulation properties of maize starches. 2017 , 63, 286-292 | 7 |
| 407 | Effect of gamma irradiation on physicochemical, functional and pasting properties of some locally-produced rice (<i>Oryza spp</i>) cultivars in Ghana. 2017 , 130, 196-201 | 6 |
| 406 | Thermal and Functional Properties of Hairless Canary Seed (<i>Phalaris canariensis</i> L.) Starch in Comparison with Wheat Starch. 2017 , 94, 341-348 | 17 |
| 405 | Progress in High-Amylose Cereal Crops through Inactivation of Starch Branching Enzymes. 2017 , 8, 469 | 31 |

| | | |
|-----|---|---------|
| 404 | Future of Starch-Based Materials in Food Packaging. 2017 , 257-312 | 12 |
| 403 | Thermoplastic Waxy Starch Films Processed by Extrusion and Pressing: Effect of Glycerol and Water Concentration. 2017 , 20, 353-357 | 6 |
| 402 | CHARACTERIZATION OF TAPIOCA STARCH PLASTICIZED BY 1-ETHYL-3-METHYLIMIDAZOLIUM ACETATE. 2017 , 79, | |
| 401 | Structural and Functional Properties of Slowly Digestible Starch from Chinese Chestnut. 2018 , 14, | 1 |
| 400 | Morphological, structural, thermal, compositional, vibrational, and pasting characterization of white, yellow, and purple Arracacha Lego-like starches and flours (<i>Arracacia xanthorrhiza</i>). 2018 , 113, 1188-1197 | 39 |
| 399 | Characteristics of starch isolated from microwave heat treated lotus (<i>Nelumbo nucifera</i>) seed flour. 2018 , 113, 219-226 | 25 |
| 398 | Non-starch contents affect the susceptibility of banana starch and flour to ozonation. 2018 , 55, 1726-1733 | 16 |
| 397 | Comparison of structural and functional properties of starches from five fruit kernels. 2018 , 257, 75-82 | 48 |
| 396 | Morphological and physicochemical properties of starches isolated from three taro bulbs. 2018 , 70, 1700168 | 4 |
| 395 | A two-tier modified starch-oxidation followed by n-octenyl succinylation as gum Arabic substitute: Process details and characterization. 2018 , 226, 96-104 | 5 |
| 394 | Starch Bioengineering. 2018 , 179-222 | 6 |
| 393 | The Functionality of Pseudocereal Starches. 2018 , 509-542 | 5 |
| 392 | High-Efficient Preparation of Carboxymethyl Starch via Ball Milling With Limited Solvent Content. 2018 , 70, 1700250 | 8 |
| 391 | Starch characteristics of cowpea and mungbean cultivars grown in Korea. 2018 , 263, 104-111 | 33 |
| 390 | Effect of microwave treatment on structure of binders based on sodium carboxymethyl starch: FT-IR, FT-Raman and XRD investigations. 2018 , 199, 387-393 | 25 |
| 389 | Nanostructured starch combined with hydroxytyrosol in poly(vinyl alcohol) based ternary films as active packaging system. <i>Carbohydrate Polymers</i> , 2018 , 193, 239-248 | 10.3 46 |
| 388 | Starch film-coated microparticles for oral colon-specific drug delivery. <i>Carbohydrate Polymers</i> , 2018 , 191, 242-254 | 10.3 39 |
| 387 | Research advances on structural characterization of resistant starch and its structure-physiological function relationship: A review. 2018 , 58, 1059-1083 | 95 |

| | | |
|-----|--|---------|
| 386 | Monitoring cell substrate interactions in exopolysaccharide-based films reinforced with chitin whiskers and starch nanoparticles used as cell substrates. 2018 , 67, 333-339 | 9 |
| 385 | Morphological and Physicochemical Properties of Very Small Granules Starch from <i>Agriophyllum squarrosum</i> (L.) Moq. in Comparison with Maize Starch. 2018 , 70, 1700068 | 7 |
| 384 | Desizability of the Grafted Starches Used as Warp Sizing agents. 2018 , 70, 1700149 | 3 |
| 383 | Morphology and Physicochemical Properties of Starch in Wheat Superior and Inferior Grains. 2018 , 70, 1700177 | 8 |
| 382 | Rheological Effect of Gelatinisation Using Different Temperature-Time Conditions on Potato Starch Dispersions: Mechanical Characterisation of the Obtained Gels. 2018 , 11, 132-140 | 18 |
| 381 | A method for controlling the surface morphology of centrifugally spun starch-based fibers. 2018 , 135, 45810 | 10 |
| 380 | Effect of dual modification of HMT and crosslinking on physicochemical properties and digestibility of waxy maize starch. 2018 , 75, 33-40 | 35 |
| 379 | Structural effects of microalgae additives on the starch gelatinisation process. 2018 , 77, 257-269 | 10 |
| 378 | Effects of late-stage nitrogen fertilizer application on the starch structure and cooking quality of rice. 2018 , 98, 2332-2340 | 23 |
| 377 | Complex formation between starch and stearic acid: Effect of enzymatic debranching for starch. 2018 , 244, 136-142 | 51 |
| 376 | A review on isolation, composition, physicochemical properties and modification of Bambara groundnut starch. 2018 , 75, 62-71 | 36 |
| 375 | The starch nanocrystal filled biodegradable poly(ϵ -caprolactone) composite membrane with highly improved properties. <i>Carbohydrate Polymers</i> , 2018 , 182, 115-122 | 10.3 31 |
| 374 | Characteristics of some physically modified starches using mild heating and freeze-thawing. 2018 , 77, 894-901 | 18 |
| 373 | Hierarchical structure and thermal behavior of hydrophobic starch-based films with different amylose contents. <i>Carbohydrate Polymers</i> , 2018 , 181, 528-535 | 10.3 23 |
| 372 | Boson peak dynamics of natural polymer starch investigated by terahertz time-domain spectroscopy and low-frequency Raman scattering. 2018 , 192, 446-450 | 15 |
| 371 | Effect of Drying Processes on the Fine Structure of A-, B-, and C-Type Starches. 2018 , 70, 1700218 | 6 |
| 370 | Comparison of structural features and in vitro digestibility of purple yam (L.) resistant starches by autoclaving and multi-enzyme hydrolysis. 2018 , 27, 27-36 | 12 |
| 369 | A multiscale investigation on controlling bovine serum albumin adsorption onto polyurethane films. 2018 , 135, 45669 | 2 |

| | | |
|-----|--|---------|
| 368 | Effects of different Wx alleles on amylopectin molecular structure and enzymatic hydrolysis properties of rice starch. 2018 , 21, 2772-2784 | 7 |
| 367 | The influence of acid hydrolysis followed by autoclaving-cooling on physical properties and resistant starch of purple sweet potato (<i>Ipomea batatas</i> L.) flour. 2018 , 195, 012055 | |
| 366 | Study of the structural order of native starch granules using combined FTIR and XRD analysis. 2018 , 25, 1 | 72 |
| 365 | Amylopectin structure and crystallinity explains variation in digestion kinetics of starches across botanic sources in an in vitro pig model. 2018 , 9, 91 | 50 |
| 364 | Hierarchical Structure, Gelatinization, and Digestion Characteristics of Starch from Longan (<i>Dimocarpus longan</i> Lour.) Seeds. 2018 , 23, | 4 |
| 363 | Physical Modifications of Starch. 2018 , | 10 |
| 362 | The Overview of Functional Starch. 2018 , 1-26 | 3 |
| 361 | Microstructure analysis of high pressure induced gelatinization of maize starch in the presence of hydrocolloids. 2018 , 112, 119-130 | 7 |
| 360 | In situ Degradation and Characterization of Endosperm Starch in Waxy Rice with the Inhibition of Starch Branching Enzymes during Seedling Growth. 2018 , 19, | 2 |
| 359 | Reinforcement of Thermoplastic Corn Starch with Crosslinked Starch/Chitosan Microparticles. 2018 , 10, | 15 |
| 358 | Heat-Moisture Treatment of Starch. 2018 , 15-36 | 1 |
| 357 | Physicochemical Properties of C-Type Starch from Root Tuber of in Comparison with Maize, Potato, and Pea Starches. 2018 , 23, | 15 |
| 356 | Effects of weak-light stress during grain filling on the physicochemical properties of normal maize starch. <i>Carbohydrate Polymers</i> , 2018 , 202, 47-55 | 10,3 21 |
| 355 | Assembly of Pickering emulsions using milled starch particles with different amylose/amylopectin ratios. 2018 , 84, 47-57 | 42 |
| 354 | Composition, structure and physicochemical properties of three coloured potato starches. 2018 , 53, 2325-2334 | 17 |
| 353 | Brazilian Amazon white yam (<i>Dioscorea</i> sp.) starch. 2018 , 134, 2075-2088 | 7 |
| 352 | Corn, potato, and wrinkled pea starches with heat-moisture treatment: Structure and digestibility. 2018 , 95, 603-614 | 13 |
| 351 | ISOLATION AND PHYSICOCHEMICAL CHARACTERIZATION OF CROSSBREED AND OPEN POLLINATED MAIZE STARCHES FROM ETHIOPIA. 2018 , 9, 94-99 | |

| | | |
|-----|---|---------|
| 350 | Comparison of Structural and Functional Properties of Starches from the Rhizome and Bulbil of Chinese Yam. 2018 , 23, | 12 |
| 349 | Ultrasound-assisted extraction of starch from frozen jicama (<i>P. erosus</i>) roots: Effect on yield, structural characteristics and thermal properties. 2018 , 16, 738-746 | 7 |
| 348 | Long branch-chains of amylopectin with B-type crystallinity in rice seed with inhibition of starch branching enzyme I and IIb resist in situ degradation and inhibit plant growth during seedling development : Degradation of rice starch with inhibition of SBEI/IIb during seedling development. 2018 , 18, 9 | 13 |
| 347 | Molecular Investigation of the Gel Structure of Native Starches. 2018 , 71, 1800080 | 2 |
| 346 | Starch Spherulites Prepared by a Combination of Enzymatic and Acid Hydrolysis of Normal Corn Starch. 2018 , 66, 6357-6363 | 14 |
| 345 | Structure and properties of starches from Arracacha (<i>Arracacia xanthorrhiza</i>) roots. 2018 , 117, 1029-1038 | 22 |
| 344 | Flexible starch-polyurethane films: Effect of mixed macrodiol polyurethane ionomers on physicochemical characteristics and hydrophobicity. <i>Carbohydrate Polymers</i> , 2018 , 197, 312-325 | 10.3 23 |
| 343 | A comparative study of mango seed kernel starches and other commercial starches: the contribution of chemical fine structure to granule crystallinity, gelatinization, retrogradation, and pasting properties. 2018 , 12, 2444-2452 | 8 |
| 342 | Structure and Physicochemical Properties of Resistant Starch Prepared by Autoclaving-Microwave. 2018 , 70, 1800060 | 7 |
| 341 | Assessing Changes in Enriched Maize Flour Formulations After Extrusion by Means of FTIR, XRD, and Chemometric Analysis. 2018 , 11, 1586-1595 | 8 |
| 340 | Recrystallization kinetics of starch microspheres prepared by temperature cycling in aqueous two-phase system. <i>Carbohydrate Polymers</i> , 2018 , 198, 233-240 | 10.3 5 |
| 339 | A sucrose non-fermenting-1-related protein kinase-1 gene, IbSnRK1, improves starch content, composition, granule size, degree of crystallinity and gelatinization in transgenic sweet potato. 2019 , 17, 21-32 | 8 |
| 338 | The effect of thermal processing and different concentrations of resistant starch on X-ray pattern, crystallization kinetics and morphological properties of noodles supplemented with wheat and corn resistant starch. 2019 , 13, 3149-3161 | 9 |
| 337 | Impact of frozen storage on whole wheat starch and its A-Type and B-Type granules isolated from frozen dough. <i>Carbohydrate Polymers</i> , 2019 , 223, 115142 | 10.3 24 |
| 336 | Synthesis of long-chain fatty acid starch esters in aqueous medium and its characterization. 2019 , 119, 136-147 | 8 |
| 335 | Corn and cassava starch with carboxymethyl cellulose films and its mechanical and hydrophobic properties. <i>Carbohydrate Polymers</i> , 2019 , 223, 115055 | 10.3 45 |
| 334 | The effects of internal endosperm lipids on starch properties: Evidence from rice mutant starches. 2019 , 89, 102804 | 14 |
| 333 | Microstructural and mechanical properties of biocomposites made of native starch granules and wood fibers. 2019 , 182, 107755 | 10 |

| | | |
|-----|---|---------|
| 332 | The interaction between amylose and amylopectin synthesis in rice endosperm grown at high temperature. 2019 , 301, 125258 | 9 |
| 331 | Combining ozone and ultrasound technologies to modify maize starch. 2019 , 139, 63-74 | 23 |
| 330 | Toward a Better Understanding of Different Dissolution Behavior of Starches in Aqueous Ionic Liquids at Room Temperature. 2019 , 4, 11312-11319 | 15 |
| 329 | Effect of coating with novel bio nanocomposites of cationic starch/cellulose nanocrystals on the fundamental properties of the packaging paper. 2019 , 80, 106080 | 19 |
| 328 | Physicochemical properties of vitreous and floury endosperm flours in maize. 2019 , 7, 2605-2612 | 6 |
| 327 | Characterization and Properties of Long-Chain Fatty Acid Starch Esters Prepared with Regenerated Starch by Dry Method. 2019 , 71, 1900143 | |
| 326 | Self-assembly kinetics of debranched short-chain glucans from waxy maize starch to form spherical microparticles and its applications. 2019 , 176, 352-359 | 24 |
| 325 | Compositional, morphological, and physicochemical properties of starches from red adzuki bean, chickpea, faba bean, and baiyue bean grown in China. 2019 , 7, 2485-2494 | 23 |
| 324 | Photodetectors based on two dimensional materials for biomedical application. 2019 , 143, 111617 | 12 |
| 323 | Physicochemical characterization of naproxen microcrystals for colon specific pulsatile drug delivery designed using pulsincap technique. 2019 , 49, 553-564 | 11 |
| 322 | Physico-chemical, thermal, and rheological properties of nixtamalized creole corn flours produced by high-energy milling. 2019 , 283, 481-488 | 7 |
| 321 | Extraction of nanostructured starch from purified granules of waxy and non-waxy barley cultivars. 2019 , 130, 520-527 | 7 |
| 320 | Altering starch branching enzymes in wheat generates high-amylose starch with novel molecular structure and functional properties. 2019 , 92, 51-59 | 53 |
| 319 | Cellulose-starch Hybrid Films Plasticized by Aqueous ZnCl ₂ Solution. 2019 , 20, | 7 |
| 318 | Effects of amylose content and enzymatic debranching on the properties of maize starch-glycerol monolaurate complexes. <i>Carbohydrate Polymers</i> , 2019 , 222, 115000 | 10.3 25 |
| 317 | A Review of Rice Starch Digestibility: Effect of Composition and Heat-Moisture Processing. 2019 , 71, 1900090 | 19 |
| 316 | Influences of Extraction Methods on Physicochemical and Functional Characteristics of Three New Bulbil Starches from . cv. Tiegun. 2019 , 24, | 4 |
| 315 | Physicochemical characterization of quinoa (<i>Chenopodium quinoa</i>) flour and isolated starch. 2019 , 298, 124982 | 38 |

| | | | |
|-----------------|--|------|----|
| 3 ¹⁴ | Structure, thermal stability and suspension rheological properties of alcohol-alkali-treated waxy rice starch. 2019 , 134, 397-404 | | 12 |
| 3 ¹³ | Effect of Ultrasound-Assisted Isolation on Yield and Properties of High-Amylose Starch from Amylomaize. 2019 , 71, 1800292 | | 4 |
| 3 ¹² | Physicochemical, functional and morphological characterization of starches isolated from three native potatoes of the Andean region. 2019 , 2, 100030 | | 19 |
| 3 ¹¹ | Isolation and characterization of starch from. 2019 , 5, e01622 | | 10 |
| 3 ¹⁰ | Acid hydrolysis of corn starch genotypes. I. Impact on morphological and molecular properties. <i>Carbohydrate Polymers</i> , 2019 , 219, 172-180 | 10.3 | 17 |
| 3 ⁰⁹ | How rheological behaviors of concentrated starch affect graft copolymerization of acrylamide and resultant hydrogel. <i>Carbohydrate Polymers</i> , 2019 , 219, 395-404 | 10.3 | 16 |
| 3 ⁰⁸ | Microfibrillated cellulose modified with urea and its reinforcement for starch-based bionanocomposites. 2019 , 26, 5981-5993 | | 10 |
| 3 ⁰⁷ | Physicochemical properties of partially β -glucan-coated normal corn starch formed by amylsucrase from <i>Neisseria polysaccharea</i> . 2019 , 133, 1102-1106 | | 4 |
| 3 ⁰⁶ | The ternary system amylose-amylopectin-formic acid as precursor for electrospun fibers with tunable mechanical properties. <i>Carbohydrate Polymers</i> , 2019 , 214, 186-194 | 10.3 | 8 |
| 3 ⁰⁵ | Effects of stearic acid and irradiation alone and in combination on properties of amylose-lipid nanomaterial from high amylose maize starch. <i>Carbohydrate Polymers</i> , 2019 , 212, 352-360 | 10.3 | 12 |
| 3 ⁰⁴ | High-Efficient Preparation of Cross-Linked Cassava Starch by Microwave-Ultrasound-Assisted and its Physicochemical Properties. 2019 , 71, 1800273 | | 5 |
| 3 ⁰³ | Pasting properties of hydrothermally treated maize starch with added stearic acid. 2019 , 289, 396-403 | | 16 |
| 3 ⁰² | Comparative analysis of the oil absorption behavior and microstructural changes of fresh and pre-frozen potato strips during frying via MRL, SEM, and XRD. 2019 , 122, 295-302 | | 24 |
| 3 ⁰¹ | Harvest time optimization leads to the production of native cassava starches with different properties. 2019 , 132, 710-721 | | 14 |
| 3 ⁰⁰ | Physicochemical properties of starches from vitreous and floury endosperms from the same maize kernels. 2019 , 291, 149-156 | | 11 |
| 2 ⁹⁹ | Modification of retrogradation property of rice starch by improved extrusion cooking technology. <i>Carbohydrate Polymers</i> , 2019 , 213, 192-198 | 10.3 | 17 |
| 2 ⁹⁸ | Impact of amylose content on structural changes and oil absorption of fried maize starches. 2019 , 287, 28-37 | | 16 |
| 2 ⁹⁷ | Effects of nitrogen level on the physicochemical properties of Tartary buckwheat (<i>Fagopyrum tataricum</i> (L.) Gaertn.) starch. 2019 , 129, 799-808 | | 18 |

| | | |
|-----|--|---------|
| 296 | Effect of an Atmospheric Pressure Plasma Jet on the Structure and Physicochemical Properties of Waxy and Normal Maize Starch. 2018 , 11, | 23 |
| 295 | An investigation into the possibility of molecular inclusion complexation of indomethacin with starch by the alkaline method. 2019 , 93, 347-359 | 6 |
| 294 | Effects of Controlled Relative Humidity Storage on Moisture Sorption and Amylopectin Retrogradation in Gelatinized Starch Lyophiles. 2019 , 84, 507-523 | 6 |
| 293 | Preparation and emulsification properties of dialdehyde starch nanoparticles. 2019 , 286, 467-474 | 34 |
| 292 | Changes in Morphological and Physicochemical Properties of Waxy and Non-waxy Proso Millets during Cooking Process. 2019 , 8, | 3 |
| 291 | Starch Components, Starch Properties and Appearance Quality of Opaque Kernels from Rice Mutants. 2019 , 24, | 4 |
| 290 | Structure analysis of three non-wood materials for liner paper. 2019 , 34, 453-466 | 4 |
| 289 | The effect of different thermal modifications on slowly digestible starch and physicochemical properties of green banana flour (<i>Musa acuminata</i> colla). 2019 , 274, 274-280 | 46 |
| 288 | High-Performance Starch Films Reinforced With Microcrystalline Cellulose Made From Eucalyptus Pulp via Ball Milling and Mercerization. 2019 , 71, 1800218 | 6 |
| 287 | A new characterization methodology for starch gelatinization. 2019 , 125, 1140-1146 | 1 |
| 286 | Effect of composition, granular morphology and crystalline structure on the pasting, textural, thermal and sensory characteristics of traditional rice cultivars. 2019 , 280, 303-309 | 9 |
| 285 | Identification and Analysis of Starch. 2019 , 23-69 | 5 |
| 284 | The effects of field pre-harvest sprouting on the morphological structure and physicochemical properties of rice (<i>Oryza sativa</i> L.) starch. 2019 , 278, 10-16 | 19 |
| 283 | Production of hydrogels with different mechanical properties by starch roasting: A valorization of industrial chestnut by-products. 2019 , 128, 377-384 | 4 |
| 282 | Effects of different treatment methods on properties of potato starch-lauric acid complex and potato starch-based films. 2019 , 124, 34-40 | 23 |
| 281 | Tailoring the Properties of Native Andean Potato Starch Nanoparticles Using Acid and Alkaline Treatments. 2019 , 71, 1800234 | 8 |
| 280 | Effect of pulsed electric field on structural properties and digestibility of starches with different crystalline type in solid state. <i>Carbohydrate Polymers</i> , 2019 , 207, 362-370 | 10.3 34 |
| 279 | Enzymatic debranching of starches from different botanical sources for complex formation with stearic acid. 2019 , 89, 856-863 | 25 |

| | | |
|-----|---|---------|
| 278 | Effects of molecular compositions on crystalline structure and functional properties of rice starches with different amylopectin extra-long chains. 2019 , 88, 137-145 | 17 |
| 277 | Structure of starch-fatty acid complexes produced via hydrothermal treatment. 2019 , 88, 58-67 | 23 |
| 276 | Characterization of young bamboo culm starch from <i>Dendrocalamus asper</i> . 2019 , 124, 222-229 | 15 |
| 275 | Impact of annealing on the hierarchical structure and physicochemical properties of waxy starches of different botanical origins. 2020 , 303, 125344 | 11 |
| 274 | Effects of phosphate fertiliser on the physicochemical properties of Tartary buckwheat (<i>Fagopyrum tataricum</i> (L.) Gaertn.) starch. 2020 , 307, 125543 | 5 |
| 273 | A-, B- and C-type starch granules coexist in root tuber of sweet potato. 2020 , 98, 105279 | 15 |
| 272 | Differences in starch structure, thermal properties, and texture characteristics of rice from main stem and tiller panicles. 2020 , 99, 105341 | 13 |
| 271 | Viscoelasticity of olive oil/water Pickering emulsions stabilized with starch nanocrystals. <i>Carbohydrate Polymers</i> , 2020 , 230, 115575 | 10.3 22 |
| 270 | Evaluation of the quality characteristics of flour and pasta from fermented cassava roots. 2020 , 55, 813-822 | 11 |
| 269 | Effect of Amorphization Methods on the Properties and Structures of Potato Starch-Monoglyceride Complex. 2020 , 72, 1900138 | |
| 268 | Gaseous Ozonation at Low Concentration Modifies Functional, Pasting, and Thermal Properties of Arrowroot Starch (<i>Maranta arundinaceae</i>). 2020 , 72, 1900106 | 7 |
| 267 | Structural and functional characterizations of α -amylase-treated porous popcorn starch. 2020 , 108, 105606 | 9 |
| 266 | Physicochemical characterization of rice, potato, and pea starches, each with different crystalline pattern, when incorporated with Konjac glucomannan. 2020 , 101, 105499 | 22 |
| 265 | A study of starch-urea-water mixtures with a combination of molecular dynamics simulation and traditional characterization methods. 2020 , 148, 121-128 | 8 |
| 264 | Bio nanocomposites based on cationic starch reinforced with montmorillonite and cellulose nanocrystals: Fundamental properties and biodegradability study. 2020 , 146, 374-386 | 28 |
| 263 | Structural and physicochemical properties of native starches and non-digestible starch residues from Korean rice cultivars with different amylose contents. 2020 , 102, 105544 | 12 |
| 262 | Understanding the multi-scale structure and digestibility of different waxy maize starches. 2020 , 144, 252-258 | 11 |
| 261 | Effects of pullulanase debranching on the properties of potato starch-lauric acid complex and potato starch-based film. 2020 , 156, 1330-1336 | 10 |

| | | |
|-----|--|----|
| 260 | Effect of extrusion processing on the microstructure and in vitro digestibility of broken rice. 2020 , 119, 108835 | 23 |
| 259 | Effects of inhibition of starch branching enzymes on starch ordered structure and component accumulation in developing kernels of rice. 2020 , 91, 102884 | 3 |
| 258 | Valorization of <i>Euterpe edulis</i> Mart. agroindustrial residues (pomace and seeds) as sources of unconventional starch and bioactive compounds. 2020 , 85, 96-104 | 5 |
| 257 | C CP/MAS NMR Can Discriminate Genetic Backgrounds of Rice Starch. 2020 , 5, 24592-24600 | 2 |
| 256 | An underutilized orphan tuber crop-Chinese yam : a review. 2020 , 252, 58 | 31 |
| 255 | A novel strategy for improving drying efficiency and quality of cream mushroom soup based on microwave pre-gelatinization and infrared freeze-drying. 2020 , 66, 102516 | 11 |
| 254 | Structural characterization and functionality of starches from different high-amylose maize hybrids. 2020 , 134, 110176 | 9 |
| 253 | Physicochemical and structural properties of low-amylose Chinese yam (<i>Dioscorea opposita</i> Thunb.) starches. 2020 , 164, 427-433 | 7 |
| 252 | Effects of nitrogen level on structural and functional properties of starches from different colored-fleshed root tubers of sweet potato. 2020 , 164, 3235-3242 | 6 |
| 251 | Biobased Epoxidized Starch Wood Adhesives: Effect of Amylopectin and Amylose Content on Adhesion Properties. 2020 , 8, 17997-18005 | 12 |
| 250 | Properties of Potato Starch Roasted with Apple Distillery Wastewater. 2020 , 12, | 3 |
| 249 | Characterization of Starch-based three components of gamma-ray cross-linked hydrogels to be used as a soil conditioner. 2020 , 260, 114645 | 16 |
| 248 | Evaluation of the Quality of a High-Resistant Starch and Low-Glutelin Rice (L.) Generated through CRISPR/Cas9-Mediated Targeted Mutagenesis. 2020 , 68, 9733-9742 | 10 |
| 247 | Analysis of development, accumulation and structural characteristics of starch granule in wheat grain under nitrogen application. 2020 , 164, 3739-3750 | 4 |
| 246 | High-energy alkaline milling as a potential physical and chemical cornstarch ecofriendly treatment to produce nixtamalized flours. 2020 , 164, 3429-3437 | 1 |
| 245 | Novel Green Synthesis of Octenyl Succinic Anhydride Esters of Granular Starch. 2020 , 8, 16503-16514 | 5 |
| 244 | Starch Structure, Functionality and Application in Foods. 2020 , | 2 |
| 243 | Geographical Origin Discrimination of White Rice Based on Image Pixel Size Using Hyperspectral Fluorescence Imaging Analysis. 2020 , 10, 5794 | 2 |

| | | |
|-----|--|---------|
| 242 | Structural and rheological properties of modified sago starch (<i>Metroxylon sagu</i>) using treatment of steam explosion followed by acid-hydrolyzed as an alternative to produce maltodextrin. 2020 , 23, 1231-1242 | 2 |
| 241 | Effect of Microfibrillated Cellulose Loading on Physical Properties of Starch/Polyvinyl Alcohol Composite Films. 2020 , 35, 825-831 | 2 |
| 240 | Effect of pullulanase debranching on complexation, structure, digestibility, and release of starch-ascorbyl palmitate inclusion complexes. 2020 , 44, e14878 | 5 |
| 239 | High-Energy Solid Fuel Obtained from Carbonized Rice Starch. 2020 , 13, 4096 | 4 |
| 238 | Characterization of ball-milled sago pith waste-based activated carbon treated with KOH and KMnO ₄ as activating agent. 2020 , 935, 012043 | 1 |
| 237 | Structural, functional, and pasting properties of starch from refrigerated cassava root. 2020 , 44, e14476 | 5 |
| 236 | Amylopectin starch granule lamellar structure as deduced from unit chain length data. 2020 , 108, 106053 | 14 |
| 235 | Rice starch accumulation at different endosperm regions and physical properties under nitrogen treatment at panicle initiation stage. 2020 , 160, 328-339 | 3 |
| 234 | Fecal microbiota responses to rice RS3 are specific to amylose molecular structure. <i>Carbohydrate Polymers</i> , 2020 , 243, 116475 | 10.3 26 |
| 233 | Starch nanocrystals as the particle emulsifier to stabilize caprylic/capric triglycerides-in-water emulsions. <i>Carbohydrate Polymers</i> , 2020 , 245, 116561 | 10.3 6 |
| 232 | High-amylose wheat starch: Structural basis for water absorption and pasting properties. <i>Carbohydrate Polymers</i> , 2020 , 245, 116557 | 10.3 26 |
| 231 | Effect of wet-media milling on the physicochemical properties of tapioca starch and their relationship with the texture of myofibrillar protein gel. 2020 , 109, 106082 | 7 |
| 230 | Effect of phosphorylation techniques on structural, thermal, and pasting properties of pulse starches in comparison with corn starch. 2020 , 109, 106078 | 17 |
| 229 | Health beneficial effects of resistant starch on diabetes and obesity via regulation of gut microbiota: a review. 2020 , 11, 5749-5767 | 16 |
| 228 | Starch Source and Its Impact on Pharmaceutical Applications. 2020 , | 4 |
| 227 | Pore characteristics and structural properties of ethanol-treated starch in relation to water absorption capacity. 2020 , 129, 109555 | 7 |
| 226 | Application of Starch and Starch Derivatives in Pharmaceutical Formulation. 2020 , | 1 |
| 225 | Rietveld-based quantitative phase analysis of B-type starch crystals subjected to ultrasound and hydrolysis processes. 2020 , 137, 49529 | 5 |

| | | |
|-----|---|--------|
| 224 | Characteristics of grain quality and starch fine structure of japonica rice kernels following preharvest sprouting. 2020 , 95, 103023 | 3 |
| 223 | Development of biodegradable natural rubber latex composites by employing corn derivative bio-fillers. 2020 , 137, 49205 | 9 |
| 222 | Endosperm enrichment and physicochemical properties of superior and inferior grain starch in super hybrid rice. 2020 , 22, 669-678 | 4 |
| 221 | Bamboo as an eco-friendly material for food and biotechnology industries. 2020 , 33, 124-130 | 18 |
| 220 | Effect of Different Heat Treatments on Physicochemical Properties and Structural and Digestibility of Water Caltrop Starch. 2020 , 72, 1900275 | 4 |
| 219 | Combined crystalline, lamellar and granular structural insights into in vitro digestion rate of native starches. 2020 , 105, 105823 | 37 |
| 218 | Measurement and comparison of multi-scale structure in heat and pressure treated corn starch granule under the same degree of gelatinization. 2020 , 108, 106081 | 18 |
| 217 | Effects of Sugars and Sugar Alcohols on the Gelatinization Temperatures of Wheat, Potato, and Corn Starches. 2020 , 9, | 5 |
| 216 | Effect of germination on structural and physicochemical properties of starch in glutinous brown rice. 2020 , 11, 21-29 | 4 |
| 215 | Radiation Synthesis of Organostarch as Fluorescence Label. 2020 , 32, 1799-1805 | 1 |
| 214 | Kidney bean (<i>Phaseolus vulgaris</i>) starch: A review. 2020 , 2, e52 | 5 |
| 213 | Starch, Treatment, and Modification. 2020 , 1-26 | 0 |
| 212 | Effects of the chemical and physical reaction conditions on the formation of nanocomposites made of starch and stearic acid. <i>Carbohydrate Polymers</i> , 2020 , 236, 116066 | 10,3 3 |
| 211 | Nanomechanics and Raman Spectroscopy of in Situ Native Carbohydrate Storage Granules for Enhancing Starch Quality and Lignocellulosic Biomass Production. 2020 , 5, 2594-2602 | 1 |
| 210 | Morphology and Physicochemical Properties of Starch from Waxy and Non-Waxy Barley. 2020 , 72, 1900206 | 4 |
| 209 | Preparation and characterization of waxy maize starch nanocrystals with a high yield via dry-heated oxalic acid hydrolysis. 2020 , 318, 126479 | 9 |
| 208 | Changes in starch structures and in vitro digestion characteristics during maize (L.) germination. 2020 , 8, 1700-1708 | 6 |
| 207 | Comparison on structure and physicochemical properties of starches from adzuki bean and dolichos bean. 2020 , 105, 105784 | 8 |

| | | | |
|-----|---|------|----|
| 206 | Structural Disorganization and Chain Aggregation of High-Amylose Starch in Different Chloride Salt Solutions. 2020 , 8, 4838-4847 | | 7 |
| 205 | Amylopectin-Sodium Palmitate Complexes as Sustainable Nanohydrogels with Tunable Size and Fractal Dimensions. 2020 , 68, 3796-3805 | | 8 |
| 204 | Pyrodextrin from waxy and normal tapioca starches: Physicochemical properties. 2020 , 104, 105745 | | 9 |
| 203 | Physico-functional, pasting and structural properties of gorgon nut (<i>Euryale ferox</i>) flour as affected by heat-moisture and acid treatment. 2020 , 14, 1656-1664 | | 4 |
| 202 | Functional and physicochemical properties of flours and starches from different tuber crops. 2020 , 148, 324-332 | | 23 |
| 201 | Impact of static and dynamic modes of semi-dry heat reaction on the characteristics of starch citrates. <i>Carbohydrate Polymers</i> , 2020 , 233, 115853 | 10.3 | 3 |
| 200 | Fabrication and characterization of resistant starch stabilized Pickering emulsions. 2020 , 103, 105703 | | 11 |
| 199 | Catalyst-free esterification of high amylose starch with maleic anhydride in 1-butyl-3-methylimidazolium chloride: The effect of amylose content on the degree of MA substitution. <i>Carbohydrate Polymers</i> , 2020 , 234, 115892 | 10.3 | 5 |
| 198 | Changes in the physicochemical properties and starch structures of rice grains upon pre-harvest sprouting. <i>Carbohydrate Polymers</i> , 2020 , 234, 115893 | 10.3 | 12 |
| 197 | Characterization of morphology and physicochemical properties of native starches isolated from 12 Lycoris species. 2020 , 316, 126263 | | 4 |
| 196 | Influence of germination time on the morphological, morphometric, structural, and physicochemical characteristics of Esmeralda and Perla barley starch. 2020 , 149, 262-270 | | 12 |
| 195 | Modification of resistant starch nanoparticles using high-pressure homogenization treatment. 2020 , 103, 105677 | | 32 |
| 194 | Applications of ionic liquids in starch chemistry: a review. 2020 , 22, 2162-2183 | | 55 |
| 193 | Comparison of the structural characterizatics and physicochemical properties of starches from sixteen cassava germplasms cultivated in China. 2020 , 23, 693-707 | | 4 |
| 192 | Modification of Starches with Different Amylose/Amylopectin-Ratios Using the Dual Approach with Hydroxypropylation and Subsequent Acid-ThinningImpacts on Morphological and Molecular Characteristics. 2020 , 72, 2000015 | | 3 |
| 191 | Enzyme mediated resistant starch production from Indian Fox Nut (<i>Euryale ferox</i>) and studies on digestibility and functional properties. <i>Carbohydrate Polymers</i> , 2020 , 237, 116158 | 10.3 | 12 |
| 190 | Effects of nitrogen fertilizer on structure and physicochemical properties of 'super' rice starch. <i>Carbohydrate Polymers</i> , 2020 , 239, 116237 | 10.3 | 25 |
| 189 | Modern Biodegradable Plastics-Processing and Properties: Part I. 2020 , 13, | | 8 |

| | | |
|-----|--|---------|
| 188 | Comparison of physicochemical properties of very small granule starches from endosperms of dicotyledon plants. 2020 , 154, 818-825 | 13 |
| 187 | Determination of glucose generation rate from various types of glycemic carbohydrates by mammalian glucosidases anchored in the small intestinal tissue. 2020 , 154, 751-757 | 4 |
| 186 | Comparative analysis on grain quality and yield of different panicle weight indica-japonica hybrid rice (<i>Oryza sativa</i> L.) cultivars. 2020 , 19, 999-1009 | 10 |
| 185 | Polysaccharides: bowel health and gut microbiota. 2021 , 61, 1212-1224 | 32 |
| 184 | A review on the physicochemical properties and potential food applications of cowpea (<i>Vigna unguiculata</i>) starch. 2021 , 56, 52-60 | 7 |
| 183 | Physicochemical, thermal and rheological properties of isolated Argentina quinoa starch. 2021 , 135, 110113 | 4 |
| 182 | Impact of amylose content on the starch branch chain elongation catalyzed by amylosucrase from <i>Neisseria polysaccharea</i> . 2021 , 111, 106395 | 2 |
| 181 | Effect of Peroxide on Compatibility, Microstructure, Rheology, Crystallization, and Mechanical Properties of PBS/Waxy Starch Composites. 2021 , 73, 2000184 | 1 |
| 180 | Differences in starch structure, physicochemical properties and texture characteristics in superior and inferior grains of rice varieties with different amylose contents. 2021 , 110, 106170 | 17 |
| 179 | Comparison of the structure and properties of hydroxypropylated acid-hydrolysed maize starches with different amylose/amylopectin contents. 2021 , 110, 106134 | 9 |
| 178 | Characterizing moisture uptake and plasticization effects of water on amorphous amylose starch models using molecular dynamics methods. <i>Carbohydrate Polymers</i> , 2021 , 252, 117161 | 10.3 6 |
| 177 | Effects of mid-stage nitrogen application timing on the morphological structure and physicochemical properties of japonica rice starch. 2021 , 101, 2463-2471 | 0 |
| 176 | Generation of short-chained granular corn starch by maltogenic α -amylase and transglucosidase treatment. <i>Carbohydrate Polymers</i> , 2021 , 251, 117056 | 10.3 11 |
| 175 | Thermal imaging of rice grains and flours to design convolutional systems to ensure quality and safety. 2021 , 121, 107572 | 11 |
| 174 | Fabrication of citric acid-modified starch nanoparticles to improve their thermal stability and hydrophobicity. <i>Carbohydrate Polymers</i> , 2021 , 253, 117242 | 10.3 6 |
| 173 | The influence of repeated versus continuous dry-heating on the performance of wheat starch with different amylose content. 2021 , 136, 110380 | 13 |
| 172 | Potential of Starch as Organic Admixture in Cementitious Composites. 2021 , 33, 04020449 | 1 |
| 171 | Tailoring the morphology and properties of starch aerogels and cryogels via starch source and process parameter. <i>Carbohydrate Polymers</i> , 2021 , 255, 117344 | 10.3 16 |

| | | | |
|-----|---|------|----|
| 170 | Characterization of the baking-induced changes in starch molecular and crystalline structures in sugar-snap cookies. <i>Carbohydrate Polymers</i> , 2021 , 256, 117518 | 10.3 | 7 |
| 169 | Physicochemical properties and in vitro digestibility of flours and starches from taro cultivated in different regions of Thailand. 2021 , 56, 2395-2406 | | 2 |
| 168 | Structural and functional characteristics of Japonica rice starches with different amylose contents. 2021 , 19, 532-540 | | 3 |
| 167 | Starch-based nanomaterials in drug delivery applications. 2021 , 31-56 | | |
| 166 | Structural, pasting and sensory properties of rice from main and ratoon crops. 2021 , 24, 965-975 | | 0 |
| 165 | Amylose Content, Morphology, Crystal Structure, and Thermal Properties of Starch Grains in Main and Ratoon Rice Crops. 2021 , 90, 1119-1230 | | 0 |
| 164 | Study on physicochemical properties of purple waxy wheat starch. 2021 , 24, 471-481 | | 1 |
| 163 | Production of cross-linked resistant starch from tapioca starch and effect of reaction conditions on the functional properties, morphology, X-ray pattern, FT-IR spectra and digestibility. 2021 , 15, 1693-1702 | | 1 |
| 162 | Characterization of starches obtained from several native potato varieties grown in Cusco (Peru). 2021 , 86, 907-914 | | 1 |
| 161 | Amylose starch with no detectable branching developed through DNA-free CRISPR-Cas9 mediated mutagenesis of two starch branching enzymes in potato. 2021 , 11, 4311 | | 14 |
| 160 | Manufacturing of starch-based materials using ultrasonic compression moulding (UCM): toward a structural application. 2021 , 7, e06482 | | 1 |
| 159 | Research progress of starch-based biodegradable materials: a review. 2021 , 56, 11187-11208 | | 18 |
| 158 | Development of malt sprout-based bioplastics via injection-moulding. 2021 , 162, 113267 | | 2 |
| 157 | A review on the physicochemical properties of starches modified by microwave alone and in combination with other methods. 2021 , 176, 87-95 | | 17 |
| 156 | Isolation and Physico-chemical Characterization of Triticum Decocum Starch. 2021 , 73, 2000226 | | 1 |
| 155 | Effect of debranching on the structure and digestibility of octenyl succinic anhydride starch nanoparticles. 2021 , 141, 111076 | | 6 |
| 154 | Relationship between molecular structure and lamellar and crystalline structure of rice starch. <i>Carbohydrate Polymers</i> , 2021 , 258, 117616 | 10.3 | 7 |
| 153 | Changes in the multi-scale structure and physicochemical properties of starch during potato growth. 2021 , 101, 5927-5937 | | 0 |

- ¹⁵² Diverse effects of nitrogen fertilizer on the structural, pasting, and thermal properties of common buckwheat starch. **2021**, 179, 542-549 6
- ¹⁵¹ Physicochemical characterization of starch from seven genotypes banana in West Sumatera. **2021**, 741, 012007
- ¹⁵⁰ Long chains and crystallinity govern the enzymatic degradability of gelatinized starches from conventional and new sources. *Carbohydrate Polymers*, **2021**, 260, 117801 10.3 5
- ¹⁴⁹ Obtention and characterization of resistant starch from creole faba bean (*Vicia faba* L. creole) as a promising functional ingredient. **2021**, 145, 111247 5
- ¹⁴⁸ Characteristics of starch from rice seeds modified by T-DNA insertion of ascorbate peroxidase 2. **2021**, 180, 533-538
- ¹⁴⁷ Structural Features and Digestibility of Corn Starch With Different Amylose Content. **2021**, 8, 692673 6
- ¹⁴⁶ Functional Properties of Banana Starch (spp.) and Its Utilization in Cosmetics. **2021**, 26, 1
- ¹⁴⁵ Temperature-insensitive silicone composites as ballistic witness materials: the impact of water content on the thermophysical properties. **2021**, 56, 16362-16375
- ¹⁴⁴ Thermal, structural, morphological and bioactive characterization of acid and neutral modified loquat (*Eriobotrya japonica* lindl.) seed starch and its by-products. 1 2
- ¹⁴³ Structural and Physicochemical Properties of Starch Isolated from the Rhizome of *Drynaria roosii*: A Novel Source. **2021**, 73, 2100019 1
- ¹⁴² Physicochemical characterizations of starches isolated from *Tetrastigma hemsleyanum* Diels et Gilg. **2021**, 183, 1540-1547 1
- ¹⁴¹ X-ray diffraction and Rietveld characterization of radiation-induced physicochemical changes in *Ari* (Goeppertia allouia) C-type starch. **2021**, 117, 106682 5
- ¹⁴⁰ The structural and functional properties of corn starch treated with endogenous malt amylases. **2021**, 117, 106722 11
- ¹³⁹ Characteristics of scalded dough fermented by co-cultures of *Saccharomyces cerevisiae* Y10, *Wickerhamomyces anomalus* Y13 and *Torulaspora delbrueckii* Y22. **2021**, 56, 5923 0
- ¹³⁸ Structure, physicochemical and toxicity properties of underused malaysian native Tuber starch (*Dioscorea Pentaphylla*). **2021**, 33, 101501 2
- ¹³⁷ Succinylated Starch Nanocapsules Loaded with the Polyphenolic Extract from Arugula (*Eruca sativa*) Leaves: Colloidal, Chemical, and Structural Properties. 2100059 2
- ¹³⁶ Influence of microwave treatment on the structure and functionality of pure amylose and amylopectin systems. **2021**, 119, 106856 5
- ¹³⁵ Supramolecular structures of recrystallized starches with amylopectin side chains modified by amylosucrase to different chain lengths. **2021**, 119, 106830 7

| | | |
|-----|--|----|
| 134 | Ethylene-induced banana starch degradation mediated by an ethylene signaling component MaEIL2. 2021 , 181, 111648 | 3 |
| 133 | Sequential maltogenic α -amylase and branching enzyme treatment to modify granular corn starch. 2021 , 120, 106904 | 4 |
| 132 | Morphology, pasting, and structural characteristics of potato starch/xanthan gum blend by critical melting and freeze-thawing treatment. 2021 , 121, 107035 | 2 |
| 131 | Ethanol pretreatment increases the efficiency of maltogenic α -amylase and branching enzyme to modify the structure of granular native maize starch. 2022 , 123, 107118 | 1 |
| 130 | Structural characteristics and physicochemical properties of starches from winter squash (<i>Cucurbita maxima</i> Duch.) and pumpkin (<i>Cucurbita moschata</i> Duch. ex Poir.). 2022 , 122, 107115 | 1 |
| 129 | A novel approach for resistant starch production from green banana flour using amylopullulanase. 2022 , 153, 112391 | 5 |
| 128 | Investigation of structural and physico-chemical properties of rice starch with varied amylose content: A combined microscopy, spectroscopy, and thermal study. 2022 , 122, 107093 | 9 |
| 127 | Effects of Reduced Nitrogen Fertilization and Irrigation on Structure and Physicochemical Properties of Starch in Two Bread Wheat Cultivars. 2021 , 11, 26 | 1 |
| 126 | Green and Sustainable Packaging Materials Using Thermoplastic Starch. 2021 , 133-160 | 1 |
| 125 | Capsaicin stability and bio-accessibility affected by complexation with high-amylose corn starch (HACS). 2021 , 12, 6992-7000 | 2 |
| 124 | Starch. 2002 , | 8 |
| 123 | Amylose content and specific fine structures affect lamellar structure and digestibility of maize starches. 2020 , 108, 105994 | 23 |
| 122 | Starch as Gelling Agent. 2012 , 33-68 | 2 |
| 121 | Calcium oxalate content from two Amazonian amilaceous roots and the functional properties of their isolated starches. 2020 , 40, 705-711 | 2 |
| 120 | Physicochemical and Functional Characteristics of RD43 Rice Flour and Its Food Application. 2020 , 9, | 1 |
| 119 | Kinematics Governing Mechanotransduction in the Sensory Hair of the. 2020 , 22, | 3 |
| 118 | Crystalline Structure and Pasting Properties of Starch in Eight Waxy Corn Cultivars Grown in Spring and Autumn. 2009 , 35, 499-505 | 4 |
| 117 | Difference of Amylopectin Structure among Various Rice Genotypes Differing in Grain Qualities and Its Relation to Starch Physicochemical Properties. 2010 , 36, 276-284 | 2 |

| | | |
|-----|--|--------|
| 116 | Spectrum Analysis of Crystalline Structure of Crop Starches. 2013 , 38, 691-698 | 5 |
| 115 | Characterization and Utilization of Starches Extracted from Florencia and Waxy Maize Hybrids for Tablet Formulation: Compaction Behaviour and Tablet Properties. 2014 , 05, 787-798 | 3 |
| 114 | Physicochemical Properties of Starch in Water Chestnut (<i>Eleocharis kuroguwai</i> Ohwi). 2012 , 32, 204-210 | 2 |
| 113 | Starch Structure and Physicochemical Properties of Colored Rice Varieties. 2016 , 61, 153-162 | 3 |
| 112 | Physicochemical Properties of Sweet Potato Starch Reclaimed from Sweet Potato Processing Sludge. 2013 , 45, 747-753 | 3 |
| 111 | Agronomic Traits and Physicochemical Properties of Starch of Different Grain Positions in Wheat Spike Under Nitrogen Treatment. 2100190 | 0 |
| 110 | Heat-Moisture Treatment Further Reduces In Vitro Digestibility and Enhances Resistant Starch Content of a High-Resistant Starch and Low-Glutelin Rice. 2021 , 10, | 3 |
| 109 | Insights into the correlations between the size of starch at nano- to microscale and its functional properties based on asymmetrical flow field-flow fractionation. 2021 , 193, 500-509 | |
| 108 | Structural factors governing starch digestion and glycemic responses and how they can be modified by enzymatic approaches: A review and a guide. 2021 , 20, 5965-5991 | 3 |
| 107 | A comparative investigation of gelatinized and regenerated starch composites reinforced by microfibrillated cellulose. 2021 , 373, 131470 | 1 |
| 106 | Structural and physicochemical properties of pea starch affected by germination treatment. 2022 , 124, 107303 | 3 |
| 105 | Influence of Starch Characteristics on the Pasting Properties of Potato Flours Prepared from Yellow-fleshed Potatoes. 2014 , 18, 398-405 | 2 |
| 104 | Study of Molecular and Crystalline Structure and Physicochemical Properties of Rice Starch with Varying Amylose Content. 2014 , 46, 682-688 | 6 |
| 103 | Chapter 13:Food Structure Characterisation Using Small-angle Scattering Methods. 2019 , 309-360 | |
| 102 | Viscoelastic analysis of oat grain within linear viscoelastic region by using dynamic mechanical analyzer. 2020 , 16, | 3 |
| 101 | Starch structure and nutritional functionality - Past revelations and future prospects. <i>Carbohydrate Polymers</i> , 2022 , 277, 118837 | 10.3 5 |
| 100 | Starch granule size: Does it matter?. 2021 , 1-21 | 0 |
| 99 | Preparation and structural properties of starch phosphate modified by alkaline phosphatase. <i>Carbohydrate Polymers</i> , 2022 , 276, 118803 | 10.3 1 |

| | | |
|----|--|--------|
| 98 | Soaking, heating and high hydrostatic pressure treatment degrade the flavonoids in rice bran. 2022 , 154, 112732 | 1 |
| 97 | Botanical Sources of Starch. 2020 , 9-27 | 0 |
| 96 | A Methodological Outlook on Bioplastics from Renewable Resources. 2020 , 10, 21-47 | 5 |
| 95 | Structural properties of starch from single kernel of high-amylose maize. 2021 , 124, 107349 | 2 |
| 94 | Standardization of process protocol for isolation of starch from mango kernel and its characterization. 2021 , | |
| 93 | Structural and thermal properties of the amaranth starch granule obtained by high-impact wet milling. 2020 , | 1 |
| 92 | Revealing the mechanism beneath the effects of starch-amino acids interactions on starch physicochemical properties by molecular dynamic simulations. 2022 , 124, 107359 | 1 |
| 91 | Preparation, structure and properties of enzymatically-hydrolyzed starch for slowing down the retrogradation of high starchy foods. 2100213 | 1 |
| 90 | Amylose Modified Starches as Superabsorbent Systems for Release of Potassium Fertilizers. 1 | 0 |
| 89 | Annatto (<i>Bixa orellana</i> L.), a potential novel starch source: antioxidant, microstructural, functional, and digestibility properties. 1 | 0 |
| 88 | Effect of starch concentration and resistant starch filler addition on the physical properties of starch hydrogels. 2021 , | 2 |
| 87 | The structural, thermal, pasting and gel properties of the mixtures of enzyme-treated potato protein and potato starch. 2021 , 154, 112882 | 2 |
| 86 | Effects of psyllium fiber on in vitro digestion and structure of different types of starches. 2021 , | 0 |
| 85 | The role of different Wx and BEIIb allele combinations on fine structures and functional properties of indica rice starches.. <i>Carbohydrate Polymers</i> , 2022 , 278, 118972 | 10.3 3 |
| 84 | Identification of starch with assorted shapes derived from the fleshy root tuber of <i>Phoenix sylvestris</i> : extraction, morphological and techno-functional characterization. 2022 , 16, 1688 | 0 |
| 83 | Analysis and characterization of starches from alternative sources. 2022 , 465-488 | |
| 82 | The Influence of Hydroponic Potato Plant Cultivation on Selected Properties of Starch Isolated from Its Tubers.. 2022 , 27, | 1 |
| 81 | A Degradable-Renewable Ionic Skin Based on Edible Glutinous Rice Gel.. 2022 , | 3 |

| | | |
|----|---|---|
| 80 | Effect of chemical fertilizer reduction on the quality of hybrid rice of different amylose contents.. 2022 , e14066 | 1 |
| 79 | Effect of Plasticizer Content on Mechanical and Water Vapor Permeability of Maize Starch/PVOH/Chitosan Composite Films.. 2022 , 15, | 0 |
| 78 | Starch-Based Foams Nucleated and Reinforced by Polysaccharide-Based Crystals. | 3 |
| 77 | Obtaining Starch Nanoparticles with the Use of Intensifying Resonance Wave Action. 2022 , 51, 64-70 | |
| 76 | Extraction and modification of Achachairu's seed (<i>Garcinia humilis</i>) starch using high-intensity low-frequency ultrasound. | 2 |
| 75 | Relationship between nitrogen fertilizer and structural, pasting and rheological properties on common buckwheat starch.. 2022 , 389, 132664 | 1 |
| 74 | Structure and Processing Properties of Nine Yam (<i>Thunb</i>) Starches from South China: A Comparison Study.. 2022 , 27, | 0 |
| 73 | Sizes, Components, Crystalline Structure, and Thermal Properties of Starches from Sweet Potato Varieties Originating from Different Countries.. 2022 , 27, | 2 |
| 72 | Chromatographic Study of High Amylose Corn Starch Genotypes Investigation of Molecular Properties after Specific Enzymatic Digestion. 2100303 | 1 |
| 71 | High-amylose starch: Structure, functionality and applications.. 2022 , 1-23 | 0 |
| 70 | Mechanistic insights into the influence of flavonoids from dandelion on physicochemical properties and in vitro digestibility of cooked potato starch. 2022 , 130, 107714 | 2 |
| 69 | Removal of starch granule associated proteins affects annealing of normal and waxy maize starches. 2022 , 107695 | 0 |
| 68 | Impact of Amylose-Amylopectin Ratio of Starches on the Mechanical Strength and Stability of Acetylsalicylic Acid Tablets.. 2022 , 23, 118 | 0 |
| 67 | Analysis of starch structure and functional properties of tetraploid wheat (<i>Triticum turgidum</i> L.) differing in waxy proteins composition.. 2022 , | 0 |
| 66 | Atomistic and Coarse-Grained Simulations of Bulk Amorphous Amylose Above and Below the Glass Transition. | 1 |
| 65 | Resistant starch formation in rice: Genetic regulation and beyond.. 2022 , 3, 100329 | 0 |
| 64 | A sub-freshness monitoring chitosan/starch-based colorimetric film for improving color recognition accuracy via controlling the pH value of the film-forming solution.. 2022 , 388, 132975 | 1 |
| 63 | Comparison of structural and functional properties of maize starch produced with commercial or endogenous enzymes.. 2022 , | 0 |

- 62 Acid Hydrolysis and Optimization Techniques for Nanoparticles Preparation: Current Review.. **2022**, 1
- 61 The Underlying Physicochemical Properties and Starch Structures of indica Rice Grains with Translucent Endosperms under Low-Moisture Conditions. **2022**, 11, 1378 0
- 60 Physical and Enzymatic Hydrolysis Modifications of Potato Starch Granules. **2022**, 14, 2027 1
- 59 Starch fine structure and functional properties during seed development in BEI1b active and deficient rice. *Carbohydrate Polymers*, **2022**, 292, 119640 10.3 0
- 58 Changes in chemical composition and starch structure in rice noodle cultivar influence Rapid Visco analysis and texture analysis profiles under shading. **2022**, 14, 100360 0
- 57 Aqueous mixtures of cornstarch and Pluronic® F127 studied by experimental and computational techniques. **2022**, 111515
- 56 Starch molecular structural differences between chalky and translucent parts of chalky rice grains. **2022**, 394, 133471 0
- 55 Green Synthesis of Starch Nanoparticles (SNPs) by Esterification with Rosin Acid Catalyzed by Maghnite-H⁺ (Algerian Montmorillonite) with Enhanced Antioxidant Activity. 1
- 54 Reassessment of the generic features of starch gelatinization: An advanced SAXS study on maize and potato starch. **2022**, 133, 107941 0
- 53 Bifidogenic property of enzymatically synthesized water-insoluble β -glucans with different α ,6 branching ratio. **2022**, 107987 0
- 52 Characterization of scalded dough and its impact on the growth of mixed yeasts originating from Jiaozi. **2022**, 101920 1
- 51 Effects of Nitrogen Fertilizer on the Starch Structure, Protein Distribution, and Quality of Rice. **2022**, 2, 1347-1354 1
- 50 Effect of chitosan concentration on physicochemical properties of starch-based biodegradable drinking straws by extrusion. 1-8
- 49 Polysaccharide-based nanosystems: a review. 1-15
- 48 Degradation of corn starch with different moisture content by gaseous hydrogen chloride. **2022**, 219, 463-472
- 47 Pressure moisture treatment (PMT) of starch, a new physical modification method. **2023**, 134, 108051 0
- 46 Effects of single and dual modifications through electron beam irradiation and hydroxypropylation on physicochemical properties of potato and corn starches. **2022**, 220, 1579-1588 0
- 45 Application of multistage induced electric field for acid hydrolysis of starch in a continuous-flow reactor. **2022**, 221, 703-713 0

| | | |
|----|---|---|
| 44 | Differences in starch multi-layer structure, pasting, and rice eating quality between fresh rice and 7 years stored rice. 2022 , 5, 1379-1385 | 0 |
| 43 | Effects of soybean 7S protein on the quality and digestibility of dry rice noodles under twin-screw extrusion process. | 0 |
| 42 | Effect of inulin on the pasting and retrogradation characteristics of three different crystalline starches and their interaction mechanism. 9, | 1 |
| 41 | Physicochemical Properties and Molecular Structure of Starches from Potato Cultivars of Different Tuber Colors. 2200096 | 0 |
| 40 | Nano-starch for food applications obtained by hydrolysis and ultrasonication methods. 2022 , 134489 | 1 |
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| 38 | Effects of soy protein isolate hydrolysate on physicochemical properties and in vitro digestibility of corn starch with various amylose contents. 2022 , 169, 114043 | 0 |
| 37 | Effects of growth temperature on multi-scale structure of root tuber starch in sweet potato. 2022 , 298, 120136 | 0 |
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| 33 | Effects of storage on the starch fine structure and physicochemical properties of different rice variety types. 2022 , 120273 | 0 |
| 32 | Differences of Physicochemical Properties Between Chalky and Translucent Parts of Rice Grains. 2022 , 29, 577-588 | 1 |
| 31 | High Amylose Corn Starch Gels [Investigation of the Supramolecular Structure. 2200138 | 0 |
| 30 | Different effects of radio frequency and heat block treatments on multi-scale structure and pasting properties of maize, potato, and pea starches. 2022 , 108306 | 0 |
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| 28 | Correlation between chain structures of corn starch and properties of its film prepared at different degrees of disorganization. 2023 , 226, 580-587 | 0 |
| 27 | Regioselective C6-OH oxidation of starch by laccase-TEMPO-system: A multi-scale structure evolution and water absorption properties study. 2023 , 193, 116148 | 0 |

- 26 Faba Bean Starch: Structure, Physicochemical Properties, Modification, and Potential Industrial Applications. **2022**, 211-243 ○
- 25 Synthesis, characterization, and in vivo safety evaluation of propylated Dioscorea abyssinica starch. **2022**, 17, e0276965 ○
- 24 Effects of selenium solution on the crystalline structure, pasting and rheological properties of common buckwheat starch. 13, ○
- 23 Reactive Extrusion-Assisted Process to Obtain Starch Hydrogels through Reaction with Organic Acids. **2022**, 3, 792-803 ○
- 22 Comparative Analyses of Grain Quality in Response to High Temperature during the Grain-Filling Stage between Wxa and Wxb under Indica and Japonica Backgrounds. **2023**, 13, 17 ○
- 21 Modulation of the Physicochemical Properties of Aria (Goeppertia allouia) Starch by Cold Plasma: Effect of Excitation Frequency. ○
- 20 A Mini Review of Physicochemical Properties of Starch and Flour by Using Hydrothermal Treatment. **2022**, 14, 5447 ○
- 19 Characterization of starch structures isolated from the grains of waxy, sweet, and hybrid sorghum (Sorghum bicolor L. Moench). 9, ○
- 18 Effect of environment and variety on the physicochemical properties of Tartary buckwheat starch. ○
- 17 Effect of the content of starch on the biocompatibility, bacterial inhibition, and drug release performance of semi-IPN collagen-polyurethane hydrogels. 1-11 ○
- 16 Insights into high hydrostatic pressure pre-treatment generating a more efficient catalytic mode of maltogenic α -amylase: Effect of multi-level structure on retrogradation properties of maize starch. **2023**, 108480 ○
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- 14 Comparison of the physicochemical properties of starches from maize reciprocal F1 hybrids and their parental lines. **2023**, 17, 100561 ○
- 13 Effect of TiO₂ Nanoparticles and Extrusion Process on the Physicochemical Properties of Biodegradable and Active Cassava Starch Nanocomposites. **2023**, 15, 535 ○
- 12 Polysaccharide Nanostructures. **2014**, 41-68 ○
- 11 Effect of ultrasonic-induced selenium crystallization behavior during selenium reduction. **2023**, 95, 106392 ○
- 10 The physicochemical properties and Pickering emulsifying capacity of acorn starch. **2023**, 239, 124289 ○
- 9 Structural, physicochemical and digestive properties of rice starch modified by preheating and pullulanase treatments. **2023**, 313, 120866 ○

- 8 Molecular structure and linear-non linear rheology relation of rice starch during milky, dough, and mature stages. **2023**, 312, 120812 ○
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