

Ivan Simkovic

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67
papers

922
citations

18
h-index

26
g-index

68
ext. papers

986
ext. citations

5.5
avg, IF

4.31
L-index

#	Paper	IF	Citations
67	Unexplored possibilities of all-polysaccharide composites. <i>Carbohydrate Polymers</i> , 2013 , 95, 697-715	10.3	80
66	What could be greener than composites made from polysaccharides?. <i>Carbohydrate Polymers</i> , 2008 , 74, 759-762	10.3	64
65	Preparation of a weakly basic ion exchanger by crosslinking starch with epichlorohydrin in the presence of NH ₄ OH. <i>Carbohydrate Polymers</i> , 1996 , 30, 25-30	10.3	50
64	Primary reactions of sucrose thermal degradation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003 , 70, 493-504	6	46
63	Thermogravimetric/mass spectrometric characterization of the thermal decomposition of (4-O-methyl-D-glucurono)-D-xylan. <i>Journal of Applied Polymer Science</i> , 1988 , 36, 721-728	2.9	42
62	Application of Thermal Analysis to Elucidate Water-Repellency Changes in Heated Soils. <i>Soil Science Society of America Journal</i> , 2008 , 72, 1-10	2.5	30
61	Preparation of ion exchangers from bagasse by crosslinking with epichlorohydrin-NH ₄ OH or epichlorohydrin-imidazole. <i>Journal of Applied Polymer Science</i> , 1997 , 64, 2561-2566	2.9	27
60	Preparation of water-soluble/insoluble derivatives of hyaluronic acid by cross-linking with epichlorohydrin in aqueous NaOH/NH ₄ OH solution. <i>Carbohydrate Polymers</i> , 2000 , 41, 9-14	10.3	26
59	New Aspects in Cationization of Lignocellulose Materials. XI. Modification of Bagasse with Quarternary Ammonium Groups. <i>Holzforschung</i> , 1990 , 44, 113-116	2	26
58	Thermogravimetric analysis of agricultural residues: Oxygen effect and environmental impact. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 1318-1322	2.9	25
57	Flame retardance of insolubilized silica inside of wood material. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 1948-1952	2.9	24
56	Modification of corn cob meal with quarternary ammonium groups. <i>Carbohydrate Polymers</i> , 1992 , 17, 285-288	10.3	24
55	Cross-linking of starch with 1, 2, 3, 4-diepoxybutane or 1, 2, 7, 8-diepoxyoctane. <i>Carbohydrate Polymers</i> , 2004 , 55, 299-305	10.3	23
54	One-step quaternization/crosslinking of starch with 3-chloro-2-hydroxypropylammonium chloride/epichlorohydrin in the presence of NH ₄ OH. <i>Carbohydrate Polymers</i> , 1996 , 31, 47-51	10.3	20
53	Carboxymethylated-, hydroxypropylsulfonated- and quaternized xylan derivative films. <i>Carbohydrate Polymers</i> , 2014 , 110, 464-71	10.3	19
52	Positively and negatively charged xylan films. <i>Carbohydrate Polymers</i> , 2011 , 83, 769-775	10.3	19
51	Xylan sulphate films. <i>Carbohydrate Polymers</i> , 2011 , 86, 214-218	10.3	18

50	New aspects in cationization of lignocellulose materials. I. Preparation of lignocellulose materials containing quarternary ammonium groups. <i>Journal of Applied Polymer Science</i> , 1984 , 29, 637-642	2.9	18
49	New aspects in cationization of lignocellulose materials. II. Distribution of functional groups in lignin, hemicellulose, and cellulose components. <i>Journal of Applied Polymer Science</i> , 1984 , 29, 643-650	2.9	18
48	Quaternized and sulfated xylan derivative films. <i>Carbohydrate Polymers</i> , 2014 , 99, 356-64	10.3	17
47	ESR Study of Soda Waste Liquors. <i>Holzforschung</i> , 1986 , 40, 15-18	2	17
46	Preparation of anion exchangers from beech sawdust and wheat straw. <i>Industrial Crops and Products</i> , 1999 , 10, 167-173	5.9	15
45	E.S.R. study of alkaline, oxidative degradation of saccharides. Identification of 2,5-dihydroxy-p-benzosemiquinone. <i>Carbohydrate Research</i> , 1983 , 116, 263-269	2.9	15
44	Amidated pectin derivatives with n-propyl-, 3-aminopropyl-, 3-propanol- or 7-aminoheptyl-substituents. <i>Carbohydrate Polymers</i> , 2009 , 76, 602-606	10.3	14
43	Acetylation of (4-O-methyl-d-glucurono)-d-xylan under homogeneous conditions using trifluoroacetic acid-acetic anhydride. <i>Carbohydrate Research</i> , 1990 , 201, 346-348	2.9	13
42	A ¹³ C-n.m.r. study of the alkaline degradation products of polysaccharides. <i>Carbohydrate Research</i> , 1986 , 152, 137-141	2.9	13
41	Semiquinones formed during alkaline, oxidative degradation of saccharides. <i>Carbohydrate Research</i> , 1985 , 142, 127-131	2.9	13
40	Composite films prepared from agricultural by-products. <i>Carbohydrate Polymers</i> , 2017 , 156, 77-85	10.3	12
39	TG/DTG/DTA evaluation of flame retarded cotton fabrics and comparison to cone calorimeter data. <i>Carbohydrate Polymers</i> , 2012 , 90, 976-81	10.3	11
38	Fractionation of sugar beet pulp by introducing ion-exchange groups. <i>Carbohydrate Polymers</i> , 2009 , 78, 806-812	10.3	11
37	Thermal degradation of cellulose model compounds in inert atmosphere. <i>Journal of Applied Polymer Science</i> , 1986 , 31, 2433-2441	2.9	11
36	Branched arabinan obtained from sugar beet pulp by quaternization under acidic conditions. <i>Carbohydrate Polymers</i> , 2010 , 82, 815-821	10.3	10
35	Chemical modification of corn fiber with ion-exchanging groups. <i>Carbohydrate Polymers</i> , 2009 , 76, 250-254	10.3	9
34	One-step introduction of amine and ammonium groups and cross linking of polygalacturonic acid. <i>Carbohydrate Polymers</i> , 1997 , 32, 1-6	10.3	8
33	Flammability studies of sodium thiosulphate or metabisulphite impregnated wood using cone calorimeter. <i>Fire and Materials</i> , 2007 , 31, 137-145	1.8	8

32	Cationization of heparin for film applications. <i>Carbohydrate Polymers</i> , 2015 , 115, 551-8	10.3	7
31	Modification of polygalacturonic acid hydroxyls with trimethylammonium- and/or sulfonate-2-hydroxypropyl group. <i>Carbohydrate Polymers</i> , 2008 , 74, 611-616	10.3	7
30	Effect of pretreatment on pyrolysis-field ionization mass spectrometric data of (4-O-methyl-d-glucurono)-d-xylan from beech wood. <i>Biomass and Bioenergy</i> , 1993 , 4, 373-378	5.3	7
29	New aspects in cationization of lignocellulose materials. III. Influence of delignification on reactivity and extractability of TMAHPβemicelluloses. <i>Journal of Applied Polymer Science</i> , 1986 , 31, 303-308	2.9	7
28	Alkaline degradation of model compounds related to (4-O-methyl-d-glucurono)-d-xylan. <i>Carbohydrate Research</i> , 1986 , 152, 131-136	2.9	7
27	Thermal degradation of model compounds with blocked hemiacetal group related to (4-O-methyl-D-glucurono)-D-xylan. <i>Journal of Applied Polymer Science</i> , 1987 , 33, 1473-1477	2.9	7
26	New aspects in cationization of lignocellulose materials. IX. Flame retardancy effect of modification with nitrogen and sulfur containing groups. <i>Journal of Applied Polymer Science</i> , 1987 , 34, 1057-1061	2.9	7
25	Preparation of ion-exchangers by cross-linking of starch or polygalacturonic acid with 1,3-bis(3-chloro-2-hydroxypropyl)imidazolium hydrogen sulphate. <i>Carbohydrate Polymers</i> , 2002 , 47, 131-136	10.3	6
24	Flame-retarding properties of ion-exchanging groups introduced into beech sawdust. <i>Fire and Materials</i> , 1998 , 22, 149-154	1.8	5
23	Thermal Degradation and Thermooxidation of O-Acetyl-(4-O-methyl-D-glucurono)-D-xylan and Related Derivatives. <i>Holzforschung</i> , 1995 , 49, 512-516	2	5
22	Fractionation of wheat straw meal after pretreatment with acidified zinc chloride solutions. <i>Carbohydrate Polymers</i> , 1994 , 23, 111-114	10.3	5
21	New aspects in cationization of lignocellulose materials. IV. Modification of aspen wood meal with quarternary ammonium groups. <i>Journal of Applied Polymer Science</i> , 1986 , 31, 621-625	2.9	5
20	Influence of anionic form on thermal degradation of TMAHPβellulose. <i>Journal of Applied Polymer Science</i> , 1985 , 30, 4707-4711	2.9	5
19	Extraction and characterization of polysaccharide films prepared from <i>Furcellaria lumbricalis</i> and <i>Gigartina skottsbergii</i> seaweeds. <i>Cellulose</i> , 2021 , 28, 9567-9588	5.5	5
18	Flammability studies of impregnated paper sheets. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 107, 519-526	4.1	4
17	Flame retarded composite panels from sugar beet residues. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 109, 1445-1455	4.1	4
16	Quaternization/cross linking of starch with choline chloride/epichlorohydrin. <i>Carbohydrate Polymers</i> , 1997 , 34, 21-23	10.3	4
15	Thermogravimetric study of flame-retarding properties on phosphorylated beech sawdust. <i>Polymer Degradation and Stability</i> , 2003 , 80, 519-523	4.7	4

14	Thermogravimetric study of starch derivatives with amine/ammonium ion-exchanging groups in oxidative environment. <i>Carbohydrate Polymers</i> , 2002 , 49, 509-513	10.3	3
13	Increased Extractability of Irradiated Wood Meal. <i>Holzforchung</i> , 1991 , 45, 229-232	2	3
12	New aspects in cationization of lignocellulose materials. X. Thermooxidation of TMAHP-wood dust. <i>Journal of Applied Polymer Science</i> , 1989 , 38, 1913-1917	2.9	3
11	New aspects in cationization of lignocellulose materials. VII. Modification of spruce wood meal with quarternary ammonium groups. <i>Journal of Applied Polymer Science</i> , 1987 , 33, 2651-2656	2.9	3
10	Influence of anionic form on thermooxidation of TMAHP-cellulose. <i>Journal of Applied Polymer Science</i> , 1985 , 30, 4713-4721	2.9	3
9	Flame Retardancy Effect of Elemental Sulphur Caused by Covering the Lignocellulose Materials. <i>Holzforchung</i> , 1991 , 45, 367-370	2	2
8	New aspects in cationization of lignocellulose materials. VI. Modification of steam-exploded aspen wood chips with quarternary ammonium groups. <i>Journal of Applied Polymer Science</i> , 1987 , 34, 1779-1783	2.9	2
7	New aspects in cationization of lignocellulose materials. VIII. Modification of immitted spruce wood with quarternary ammonium groups. <i>Journal of Applied Polymer Science</i> , 1987 , 34, 2063-2068	2.9	2
6	Evaluation of the phytomass source for composite preparation. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 508-515	2.9	1
5	New aspects in cationization of lignocellulose materials. V. Modification of rotten aspen wood meal with quarternary ammonium groups. <i>Journal of Applied Polymer Science</i> , 1987 , 33, 1955-1961	2.9	1
4	Heparin composition: calculation based on elemental analysis and NMR data. <i>Chemical Papers</i> , 2020 , 74, 349-355	1.9	1
3	Interfaces study of all-polysaccharide composite films. <i>Chemical Papers</i> , 2018 , 72, 711-718	1.9	1
2	Enolate semiquinones formed during the alkaline oxidative degradation of 2-deoxy sugars. <i>Carbohydrate Research</i> , 1991 , 212, 273-276	2.9	
1	Thermooxidation of TMAHP-cellulose in dependance to its anionic form. <i>Thermochimica Acta</i> , 1985 , 93, 421-424	2.9	