



ACADEMIA ROMANA
SCOSAAR

**FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE
conform CNATDCU**

Candidat: dr. Iuliana Spiridon

Nr. crt.	Domeniul activitatilor	Tipul activitatilor	punctaj
1	Activitatea didactica si profesionala (A1)	Carti sau capitole de carte	30
2	Activitatea de cercetare (A2)	2.1. Articole in reviste cotate ISI Thomson Reuters	124
		Brevete de inventie si inovatie	
		2.2. Granturi/proiecte castigate prin competitie	
3	Recunoasterea si impactul activitatii (A3)	3.1. Citari in reviste ISI si BDI	225.5
	Total		379.5

FIȘA DE VERIFICARE

a îndeplinirii standardelor minimale conform ORDIN Nr. 6560 din 20 decembrie 2012

Candidat: dr. Iuliana Spiridon, CP II

Nr.crt	Domeniul activitatilor	Tipul activitatilor		Categoriile si restrictiile	indicator	Numar activitati candidat	Punctaj realizat de candidat
1	Activitate didactica si profesionala (A1)	1.1	Carti sau capitole de carte Professor-min 3 Prim autor min 1	Profesor – 9 CS I - 0	3	10 (2 carti-1 carte publicata in strainatate ca singur autor si 8 capitole (2 la edituri din tara, 6 la edituri din strainatate, - x ca prim autor)	30
2	Activitate de cercetare (A2)	2.1	Articole in reviste cotate ISI Thomson Reuters	Minim 35 Minim 23 in reviste internationale FI cumulat, min 40 Autor principal/ corespondent, min 10 articole	1	67 67 100.6 24	67
			Brevete de inventie si inovare	Internationale Nationale	10 1	 1	 1
		2.2	Granturi/proiecte castigate prin competitie	Director/responsabil min 1 Membru in echipa, minim 1	4 2	11 6	44 12

3	Recunoasterea si impactul activitatilor (A3)	3.1	Citari in reviste ISI	Minim 100	0.5	451(fara autocitari)	225.5
							379.5

17.10.2016

Anexa la Fisa de verificare

1. Activitate didactică și profesională (A1)

1.1. Carti sau capitol de carte: 10

1.1.1. Carti publicate: 2

Edituri din strainatate: 1

a) *Iuliana Spiridon*

Biotechnological processes in pulp industry, in Applications of biotechnological processes in the pulp and paper industry, UBI Publisher, Covilha, Portugal, 2001, ISBN 972-9209-75-8

Edituri din tara: 1

a) V. I. Popa, *Iuliana Spiridon*, N. Anghel

Procese biotehnologice in industria de celuloza si hartie, Editura MediaTech, Iasi, 2001, ISBN 973-85088-8-6

1.1.2. Capitole de carte: 8

Edituri din strainatate: 6

a) V. I. Popa and *Iuliana Spiridon*

Hemicelluloses. Structure and Properties, in “Structural Diversity and Functional Stability of Polysaccharides”, edited by S. Dumitriu, Marcel Dekker Inc., 1998, ISBN 0-8247-0127-5, p. 297-311

b) *Iuliana Spiridon* and Valentin I. Popa

Hemicelluloses. Structure and Properties, in “Structural Diversity and Functional Stability of Polysaccharides”, Second Edition, edited by S. Dumitriu, Marcel Dekker, 2004, ISBN 0-8247-5480-8, p. 475-489

c) *Iuliana Spiridon* and V. I. Popa

Hemicelluloses: major sources, properties and applications, in “Monomers, polymers and composites from renewable resources”, edited by M. N. Belgacem and Alessandro Gandini, Elsevier, ISBN-13: 978-0-08-045316-3, ISBN-10: 0-08-045316-3 2008, pp. 289-305, 2008

d) Florina Crivoi, Cornelia Vasile, Narcis Anghel, *Iuliana Spiridon*

Degradation of low density polyethylene/starch blends under an enzymatic complex or soil microorganisms action, in “Kinetics and Thermodynamics for Chemistry and Biochemistry” (vol. 2), Editors: Eli M. Pearce, G. E. Zaikov, Gerald, Kirshenbaum, ISBN: 978-1-60692-352-8, NOVA Publisher, 2009, p. 407-427

e) *Iuliana Spiridon*, Carmen-Alice Teacă, Raluca Nicoleta Darie, Ruxanda Bodirlău and Ana Maria Resmerita

Biocomposites based on cellulose material (poplar seed floss) and HDPE – Accelerated weathering behaviour in “Biomass-based composites”, edited by V. K. Thakur and A. S. Singha, Smithers Rapra Publishers, p. 193-229 (2013), ISBN: 9781847359803

f) C. A. Teaca, R. Bodirlau, *I. Spiridon*, Cellulose-based starch composites: Structure and properties in Lignocellulosic Polymer Composites: Processing, Characterization and Properties, V. K. Thakur, Ed., Wiley and Scrivener Publishing LLC, 125-145 (2015), ISBN: 978-1-118-77357-4

Edituri din tara: 2

a) *Iuliana Spiridon*

Biotehnologia in prevenirea dezastrelor provocate de factori naturali si antropici, in “Fenomene si procese cu risc major la scara nationala”, coordonatori: Fl. Filip, B. C. Simionescu, Editura Academiei Romane, 2004, p. 349-361, ISBN 973 - 27 - 1150 - 7

b) *Iuliana Spiridon*, Carmen Alice Teaca, Ruxanda Bodirlau, Daniela Cotzur

Metode de investigare a biodegradabilitatii polimerilor, in “Polimeri degradabili si biocompatibili”, editori: C. Vasile, A. P. Chiriac, L. E. Nita, Editura Tehnopress, 2006, ISBN 10: 10-973-702-378-1, ISBN 13: 978-973-702-378-0, p.59-95

2. Activitate de cercetare (A2)

2.1. 1. Articole in reviste cotate ISI Thomson Reuters:66

	Articole in reviste cotate ISI Thomson Reuters	Factor de impact
1	New opportunities to valorize biomass wastes into green materials <i>Spiridon, Iuliana</i> ; Darie-Nita, Raluca Nicoleta; Hitruc, Gabriela Elena; et al. JOURNAL OF CLEANER PRODUCTION Volume: 133 Pages: 235-242 Published: OCT 1 2016	4.959
2	Complex Poly(Lactic Acid)-Based Biomaterial for Urinary Catheters. I. Influence of Silver Nanoparticles Concentration on the Mechanical and Thermal Properties, Raluca N. Darie-Niță, Bogdan S. Munteanu, Niță Tudorachi, Rodica Lipșa, Elena Stoleru, <i>Iuliana Spiridon</i> and Cornelia Vasile Bioinspired, Biomimetic and Nanobiomaterials, 5(4),132–151(2016)	0.523
3	Influence of fiber modifications on PLA/fiber composites. Behavior to accelerated weathering <i>Spiridon, Iuliana</i> ; Darie, Raluca Nicoleta; Kangas, Heli COMPOSITES PART B-ENGINEERING Volume: 92 Pages: 19-27 Published: MAY 1 2016	3.850
4	New polylactic acid composites for packaging applications: Mechanical properties, thermal behavior, and antimicrobial activity <i>Spiridon, Iuliana</i> ; Ursu, Ramona Gabriela; Irene Alexandra Cianga INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION Volume: 20 Issue: 8 Pages: 681-692 Published: NOV 17 2015	1.515
5	POLYCARBONATE URETHANE-HYDROXYPROPYL CELLULOSE MEMBRANES WITH ZINC OXIDE NANOPARTICLES Vlad, Stelian; Gradinaru, Luiza M.; Ciobanu, Constantin; Macocinschi, Doina; Filip, Daniela; <i>Spiridon, Iuliana</i> and Gradinaru, Robert. CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 49 Issue: 9-10 Pages: 905-913 Published: OCT-DEC 2015	0.562
6	Behavior of biodegradable composites based on starch reinforced with modified cellulosic fibers <i>Spiridon, Iuliana</i> ; Anghel, Narcis; Bele, Adrian POLYMERS FOR ADVANCED TECHNOLOGIES Volume: 26 Issue: 9 Pages: 1189-1197 Published: SEP 2015	1.823
7	New PP/PLA/cellulose composites: effect of cellulose functionalization on accelerated weathering behavior (accelerated weathering behavior of new PP/PLA/cellulose composites) Darie, Raluca Nicoleta; Vlad, Stelian; Anghel, Narcis; Doroftei, Mirela; Tamminen, Tarja; <i>Spiridon, Iuliana</i> et al. POLYMERS FOR ADVANCED TECHNOLOGIES Volume: 26 Issue: 8 Pages: 941-952 Published: AUG 2015	1.823
8	Evaluation of PLA-lignin bioplastics properties before and after accelerated weathering <i>Spiridon, Iuliana</i> ; Leluk, Karol; Resmerita, Ana Maria; et al. COMPOSITES PART B-ENGINEERING Volume: 69 Pages: 342-349 Published: FEB 2015	3.850
9	MALEIC ANHYDRIDE TREATMENT OF SOFTWOOD - EFFECT ON	0.562

	WOOD STRUCTURE AND PROPERTIES Teaca, Carmen-Alice; Bodirlau, Ruxanda; <i>Spiridon, Iuliana</i> CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 48 Issue: 9-10 Pages: 863-868 Published: NOV-DEC 2014	
10	Gamma irradiation of protein-based textiles for historical collections decontamination Geba, Maria; Lisa, Gabriela; Ursescu, Cristina Marta; Olaru, A.; <i>Spiridon, I.</i> ; Leon, A. L.; Stanculescu, I. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY Volume: 118 Issue: 2 Pages: 977-985 Published: NOV 2014	1.781
11	I. NATURAL FIBER-POLYOLEFIN COMPOSITES. MINI-REVIEW <i>Spiridon, Iuliana</i> CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 48 Issue: 7-8 Pages: 599-611 Published: JUL-AUG 2014	0.562
12	PLA/chitosan/keratin composites for biomedical applications Tanase, Constantin Edi; <i>Spiridon, Iuliana</i> MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS Volume: 40 Pages: 242-247 Published: JUL 1 2014	3.420
13	Catalytic upgrading of co-pyrolysis oils from bisphenol A polycarbonate and lignins Brebu, Mihai; Tamminen, Tarja; Hannevold, Lenka; Stöcker, Michael; <i>Spiridon, Iuliana</i> POLYMER DEGRADATION AND STABILITY Volume: 102 Pages: 88-94 Published: APR 2014	3.120
14	Wastes from Wood Extraction Used in Composite Materials: Behavior after Accelerated Weathering Darie, Raluca Nicoleta; Lack, Eduard; Lang, Franz, Jr.; Sova, Martin; Nistor, Alexandra; <i>Spiridon, Iuliana</i> INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION Volume: 19 Issue: 5 Pages: 453-467 Published: 2014	1.515
15	Green Composites Comprising Thermoplastic Corn Starch and Various Cellulose-Based Fillers Bodirlau, Ruxanda; Teaca, Carmen-Alice; <i>Spiridon, Iuliana</i> BIORESOURCES Volume: 9 Issue: 1 Pages: 39-53 Published: 2014	1.334
16	Polypropylene-based composites reinforced by toluene diisocyanate modified wood <i>Spiridon, Iuliana</i> ; Darie, Raluca Nicoleta; Bodirlau, Ruxanda; Teaca; Carmen-Alice; Doroftei, Florica JOURNAL OF COMPOSITE MATERIALS Volume: 47 Issue: 27 Pages: 3451-3464 Published: DEC 2013	1.242
17	Thermal degradation of various lignins by TG-MS/FTIR and Py-GC-MS Brebu, Mihai; Tamminen, Tarja; <i>Spiridon, Iuliana</i> JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS Volume: 104 Pages: 531-539 Published: NOV 2013	3.652
18	Antioxidant and chemical properties of Inula helenium root extracts <i>Spiridon, Iuliana</i> ; Nechita, Constantin Bogdan; Niculaua, Marius; Silion, Mihaela; Armatu, Alice; Teaca, Carmen-Alice, Bodirlau, Ruxanda CENTRAL EUROPEAN JOURNAL OF CHEMISTRY Volume: 11	1.207

	Issue: 10 Pages: 1699-1709 Published: OCT 2013	
19	Influence of Keratin on Poly(lactic acid)/Chitosan Composite Properties. Behavior upon Accelerated Weathering <i>Spiridon, Iuliana</i> ; Paduraru, Oana Maria; Zaltariov, Mirela Fernanda; Darie, Raluca Nicoleta INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH Volume: 52 Issue: 29 Pages: 9822-9833 Published: JUL 24 2013	2.567
20	Behavior of Cellulose Reinforced Cross-Linked Starch Composite Films Made with Tartaric Acid Modified Starch Microparticles <i>Spiridon, Iuliana</i> ; Teaca, Carmen-Alice; Bodirlau, Ruxanda; Bercea, Maria JOURNAL OF POLYMERS AND THE ENVIRONMENT Volume: 21 Issue: 2 Pages: 431-440 Published: JUN 2013	1.969
21	Influence of Accelerated Weathering on the Properties of Polypropylene/Poly(lactic acid)/Eucalyptus Wood Composites Darie, Raluca Nicoleta; Bodirlau, Ruxandra; Teaca, Carmen Alice; Macyszyn, Joanna; Kozlowski, Marek; <i>Spiridon, Iuliana</i> INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION Volume: 18 Issue: 4 Pages: 315-327 Published: MAY 1 2013	1.515
22	Effect of cellulose reinforcement on the properties of organic acid modified starch microparticles/plasticized starch bio-composite films Teaca, Carmen-Alice; Bodirlau, Ruxanda; <i>Spiridon, Iuliana</i> CARBOHYDRATE POLYMERS Volume: 93 Issue: 1 Special Issue: SI Pages: 307-315 Published: MAR 1 2013	4.219
23	Mechanical Properties and Weathering Behavior of Polypropylene-Hemp Shives Composites Popa, Marcel Ionel; Pernevan, Silvia; Sirghie, Cecilia; <i>Spiridon, Iuliana</i> ; Chambre, Dorina; Copolovici, Dana Maria; Popa, Niculina JOURNAL OF CHEMISTRY Article Number: 343068 Published: 2013	0.996
24	Influence of natural fillers on the properties of starch-based biocomposite films Bodirlau, Ruxanda; Teaca, Carmen-Alice; <i>Spiridon, Iuliana</i> COMPOSITES PART B-ENGINEERING Volume: 44 Issue: 1 Pages: 575-583 Published: JAN 2013	3.850
25	Co-pyrolysis of LignoBoost (R) lignin with synthetic polymers Brebu, Mihai; <i>Spiridon, Iuliana</i> POLYMER DEGRADATION AND STABILITY Volume: 97 Issue: 11 Pages: 2104-2109 Published: NOV 2012	3.120
26	INVESTIGATION OF STRUCTURAL AND THERMAL PROPERTIES OF DIFFERENT WOOD SPECIES TREATED WITH TOLUENE-2,4-DIISOCYANATE Bodirlau, Ruxanda; Teaca, Carmen-Alice; Resmerita, Ana-Maria; <i>Spiridon, Iuliana</i> CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 46 Issue: 5-6 Pages: 381-387 Published: JUN-JUL 2012	0.562
27	Assessment of Changes Due to Accelerated Weathering of Low-Density Polyethylene/Feather Composites <i>Spiridon, Iuliana</i> ; Paduraru, Oana Maria; Rudowski, Marek; Kozlowski,	2.567

	Marek; Darie, Raluca Nicoleta INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH Volume: 51 Issue: 21 Pages: 7279-7286 Published: MAY 30 2012	
28	STRUCTURAL AND PROPERTIES CHANGES INVESTIGATION UPON ORGANIC ACID MODIFIED STARCH-BASED FILMS Teaca, Carmen-Alice; Bodirlau, Ruxanda; <i>Spiridon, Iuliana</i> REVUE ROUMAINE DE CHIMIE Volume: 57 Issue: 4-5 Pages: 401-406 Published: APR-MAY 2012	0.250
29	Effects of chemical modification on the structure and mechanical properties of starch-based biofilms Bodirlu, Ruxanda; Teaca, Carmen-Alice; <i>Spiridon, Iuliana</i> ; Tudorachi, Nita MONATSHEFTE FUR CHEMIE Volume: 143 Issue: 2 Pages: 335- 343 Published: FEB 2012	1.131
30	Rheological Investigation of Prunus Sp. Gums in Aqueous Medium Amarioarei, Gina; <i>Spiridon, Iuliana</i> ; Lungu, Maria; Bercea, Maria INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH Volume: 50 Issue: 24 Pages: 14148-14154 Published: DEC 21 2011	2.567
31	Characterization of biological active compounds from Verbascum phlomoides by chromatography techniques. I. Gas chromatography Armatu, Alice; Bodirlau, Ruxanda; Nechita, Constantin Bogdan; Niculaua, Marius; Teaca, Carmen-Alice; Ichim, Maria; <i>Spiridon, Iuliana</i> ROMANIAN BIOTECHNOLOGICAL LETTERS Volume: 16 Issue: 4 Pages: 6297-6304 Published: JUL-AUG 2011	0.381
32	Thermal degradation of keratin waste Brebu, Mihai; <i>Spiridon, Iuliana</i> JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS Volume: 91 Issue: 2 Pages: 288-295 Published: JUL 2011	3.652
33	Total phenolic content and antioxidant activity of plants used in traditional Romanian herbal medicine <i>Spiridon, Iuliana</i> ; Bodirlau, Ruxanda; Teaca, Carmen-Alice CENTRAL EUROPEAN JOURNAL OF BIOLOGY Volume: 6 Issue: 3 Pages: 388-396 Published: JUN 2011	0.814
34	Preparation and characterization of adipic acid-modified starch microparticles/plasticized starch composite films reinforced by lignin <i>Spiridon, Iuliana</i> ; Teaca, Carmen-Alice; Bodirlau, Ruxanda JOURNAL OF MATERIALS SCIENCE Volume: 46 Issue: 10 Pages: 3241-3251 Published: MAY 2011	2.302
35	DISSOLUTION OF NATURAL POLYMERS IN IONIC LIQUID Teaca, Carmen-Alice; Bodirlau, Ruxanda; <i>Spiridon, Iuliana</i> REVUE ROUMAINE DE CHIMIE Volume: 56 Issue: 1 Pages: 33-+ Published: JAN 2011	0.250
36	STRUCTURAL CHANGES EVIDENCED BY FTIR SPECTROSCOPY IN CELLULOSIC MATERIALS AFTER PRE-TREATMENT WITH IONIC LIQUID AND ENZYMATIC HYDROLYSIS <i>Spiridon, Iuliana</i> ; Teaca, Carmen-Alice; Bodirlau, Ruxanda BIORESOURCES Volume: 6 Issue: 1 Pages: 400-413 Published: 2011	1.334
37	EVALUATION OF PROPERTIES OF LDPE/OAK WOOD COMPOSITES EXPOSED TO ARTIFICIAL AGEING	0.562

	Darie, Raluca Nicoleta; Bercea, Maria; Kozlowski, Marek; <i>Spiridon, Iuliana</i> CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 45 Issue: 1-2 Pages: 127-135 Published: JAN-FEB 2011	
38	A thermogravimetric study of structural changes of lime wood (<i>Tilia cordata</i> Mill.) induced by exposure to simulated accelerated UV/Vis-light Popescu, Carmen-Mihaela; <i>Spiridon, Iuliana</i> ; Tibirna, Carmen Mihaela, Vasile, Cornelia JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY Volume: 217 Issue: 1 Pages: 207-212 Published: JAN 1 2011	2.477
39	Antioxidant capacity and total phenolic contents of oregano (<i>Origanum vulgare</i>), lavender (<i>Lavandula angustifolia</i>) and lemon balm (<i>Melissa officinalis</i>) from Romania <i>Spiridon, Iuliana</i> ; Colceru, Svetlana; Anghel, Narcis; Carmen-Alice; Bodirlau, Ruxanda; Armatu, Alice NATURAL PRODUCT RESEARCH Volume: 25 Issue: 17 Pages: 1657-1661 Published: 2011	1.057
40	Enzymatic hydrolysis of <i>Asclepias syriaca</i> fibers in the presence of ionic liquids Bodirlau, Ruxanda; Teaca, Carmen-Alice; <i>Spiridon, Iuliana</i> MONATSHEFTE FÜR CHEMIE Volume: 141 Issue: 9 Pages: 1043-1048 Published: SEP 2010	1.131
41	Enzymatic Degradation of LDPE / Corn Starch Blends Treated with [EMIM][Cl] Ionic Liquid Bodirlau, Ruxanda; <i>Spiridon, Iuliana</i> ; Teaca, Carmen-Alice MATERIALE PLASTICE Volume: 47 Issue: 2 Pages: 126-129 Published: JUN 2010	0.903
42	New polyetherurethanes based on cellulose derivative for biomedical applications Vlad, S.; Filip, D.; Macocinschi, D.; <i>Spiridon, Iuliana</i> , Nistor, A.; Gradinaru, L. M.; Musteata, V. E. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 4 Issue: 3 Pages: 407-414 Published: MAR 2010	0.412
43	INFLUENCE OF IONIC LIQUID ON HYDROLYZED CELLULOSE MATERIAL: FT-IR SPECTROSCOPY AND TG-DTG-DSC ANALYSIS Bodirlau, Ruxanda; Teaca, Carmen-Alice; <i>Spiridon, Iuliana</i> INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION Volume: 15 Issue: 7 Pages: 460-469 Article Number: PII 927858103 Published: 2010	1.515
44	PREPARATION AND CHARACTERIZATION OF COMPOSITES COMPRISING MODIFIED HARDWOOD AND WOOD POLYMERS/POLY(VINYL CHLORIDE) Bodirlau, Ruxanda; Teaca, Carmen Alice; <i>Spiridon, Iuliana</i> BIORESOURCES Volume: 4 Issue: 4 Pages: 1285-1304 Published: AUG 2009	1.334
45	Evaluation of some polyetherurethane elastomers for chemicals, oils and solvents resistance	0.383

	Vlad, S.; Ciobanu, C.; Macocinschi, D.; Filip, D.; <i>Spiridon, Iuliana</i> JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 11 Issue: 8 Pages: 1160-1168 Published: AUG 2009	
46	ANTI-INFLAMMATORY CONSTITUENTS FROM DIFFERENT PLANT SPECIES Bodirlau, Ruxanda; <i>Spiridon, Iuliana</i> ; Teaca, Carmen Alice; Anghel, N.; Ichim, M.; Colceru, S.; Armatu, A. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 8 Issue: 4 Pages: 785-792 Published: JUL-AUG 2009	1.008
47	Response surface regression of some polyurethane filled with modified cellulose Vlad, S.; Ciobanu, C.; Macocinschi, D.; Filip, D.; Nistor, A.; Gradinaru, L. M.; <i>Spiridon, Iuliana</i> JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 11 Issue: 6 Pages: 907-913 Published: JUN 2009	0.383
48	Influence of Components Ratio upon Properties of Wood/Thermoplastic Polymer Composites Bodirlau, Ruxanda; <i>Spiridon, Iuliana</i> ; Teaca, Carmen-Alice REVISTA DE CHIMIE Volume: 60 Issue: 5 Pages: 508-512 Published: MAY 2009	0.956
49	INFLUENCE OF COMPONENTS RATIO UPON MECHANICAL PROPERTIES OF WOOD/THERMOPLASTIC POLYMER COMPOSITES Bodirlau, Ruxanda; <i>Spiridon, Iuliana</i> ; Teaca, Carmen-Alice CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 43 Issue: 4-6 Pages: 205-209 Published: APR-JUN 2009	0.562
50	Thermal, mechanical and wettability properties of some branched polyetherurethane elastomers Vlad, Stelian; <i>Spiridon, Iuliana</i> ; Grigoras, Cristian Vasile; Dobrota, M.; Nistor, A. E-POLYMERS Article Number: 004 Published: JAN 31 2009	0.812
51	Enzymatic degradation of some nanocomposites of poly(vinyl alcohol) with starch <i>Spiridon, Iuliana</i> ; Popescu, Maria Cristina; Bodirlau, Ruxanda; Vasile, Cornelia POLYMER DEGRADATION AND STABILITY Volume: 93 Issue: 10 Pages: 1884-1890 Published: OCT 2008	3.120
52	CHEMICAL MODIFICATION OF BEECH WOOD: EFFECT ON THERMAL STABILITY Bodirlau, Ruxanda; Teaca, Carmen Alice; <i>Spiridon, Iuliana</i> BIORESOURCES Volume: 3 Issue: 3 Pages: 789-800 Published: AUG 2008	1.334
53	Modifications of <i>Asclepias syriaca</i> fibers for paper production <i>Spiridon, Iuliana</i> INDUSTRIAL CROPS AND PRODUCTS Volume: 26 Issue: 3 Pages: 265-269 Published: OCT 2007	3.449
54	CHEMICAL INVESTIGATION OF WOOD TREE SPECIES IN	1.334

	TEMPERATE FOREST IN EAST-NORTHERN ROMANIA Bodirlau, Ruxanda; <i>Spiridon, Iuliana</i> ; Teaca, Carmen Alice BIORESOURCES Volume: 2 Issue: 1 Pages: 41-57 Published: FEB 2007	
55	Thermal investigation upon various composite materials Bodirlau, Ruxanda; Teaca, Carmen-Alice; <i>Spiridon, Iuliana</i> REVUE ROUMAINE DE CHIMIE Volume: 52 Issue: 1-2 Pages: 153-158 Published: JAN-FEB 2007	0.250
56	Influence of natural stress factors on some Salicaceae species <i>Spiridon, I</i> ; Teaca, C.A.; Bodirlau, R. CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 39 Issue: 5-6 Pages: 451-457 Published: SEP-DEC 2005	0.562
57	Hydrolytic enzymes effects on straw cellulosic pulp <i>Spiridon, Iuliana</i> REVUE ROUMAINE DE CHIMIE Volume: 50 Issue: 7-8 Pages: 541-545 Published: JUL-AUG 2005	0.250
58	Thermogravimetry and chemical investigation on the oak tree wood from the north-east of Romania Bodirlau, R.; <i>Spiridon, I</i> ; Teaca, C. A.; Popa, V. I. CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 39 Issue: 1-2 Pages: 25-35 Published: JAN-APR 2005	0.562
59	Some preliminary data on the enzymatic hydrolysis of <i>Pinus pinaster</i> kraft pulp <i>Spiridon, I</i> ; Duarte, A. P. CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 38 Issue: 1-2 Pages: 59-65 Published: JAN-APR 2004	0.562
60	Influence of xylanase treatment on <i>Pinus pinaster</i> kraft pulp <i>Spiridon, I</i> ; Duarte, A. P.; Curto, J. CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 37 Issue: 5-6 Pages: 497-504 Published: SEP-DEC 2003	0.562
61	Enzymatic hydrolysis of <i>Pinus pinaster</i> kraft pulp <i>Iuliana Spiridon</i> , A. P. Duarte and M. N. Belgacem <i>Appita Journal</i> , 54, 457-459 (2001)	0.609
62	Application of microorganisms and enzymes in the pulp and paper industry <i>Spiridon, Iuliana</i> .; Popa, V. I. CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 34 Issue: 3-4 Pages: 275-285 Published: MAY-AUG 2000	0.562
63	Influence of the hemicellulases enzymes on different lignocellulosic materials V. I. Popa and <i>Iuliana Spiridon</i> <i>Romanian Biotechnological Letters</i> , 2(3), 201-209 (1997)	0.381
64	Some preliminary data on the use of <i>Asclepias syriaca</i> seed hairs in pulp and paper manufacture Popa, V. I.; <i>Spiridon, I</i> ; Bobu, E. CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 30 Issue: 3-4 Pages: 223-227 Published: MAY-AUG 1996	0.562
65	ON SOME CHARACTERISTICS OF LIGNIN AND POLYPHENOLIC PRODUCTS SEPARATED FROM SPRUCE BARK <i>Spiridon Iuliana</i> ; POPA, M; POPA, V. I.	0.562

	CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 29 Issue: 2 Pages: 115-121 Published: MAR-APR 1995	
66	Behaviour of two main portuguese wood species towards enzymatic hydrolysis <i>Iuliana Spiridon</i> , M. N. Belgacem and A. P. Duarte <i>Cellulose Chem. Technol.</i> , 35 , 243-251 (2001)	0.562
67	Influence of accelerated weathering over performance of PLA based materials <i>Iuliana Spiridon</i> , Raluca Nicoleta Darie Nita, Marek Kozlowski, Ancuta Nechita and Ramona Gabriela Ursu CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 50 Issue: 4-5 Pages: 629-635 Published: MAY-JUNE 2016	0.562
		100.626

2.1.2. Articole in reviste necotate ISI Thomson Reuters

	Articole in reviste necotate ISI Thomson Reuters	Factor de impact
1	<i>Iuliana Spiridon</i> and M. N. Belgacem Enzymatic deinking of laser-printed papers <i>Progress in Paper Recycling</i> , 13(4), 12-15 (2004)	
2	<i>Iuliana Spiridon</i> and Azarias Machado de Andrade Enzymatic deinking of old newspaper <i>Progress in Paper Recycling</i> , 14(3), 1-5 (2005)	
3	Florina Crivoi, Cornelia Vasile, Narcis Anghel and <i>Iuliana Spiridon</i> Degradation of low density polyethylene/ starch blends under an enzymatic complex or soil microorganisms action <i>Polymer Research Journal</i> , 2(1), 89-108 (2008), ISSN 1935-2530	
4	<i>Iuliana Spiridon</i> , Narcis Anghel, Ruxanda Bodirlau and Carmen Alice Teaca Characterization of <i>Claviceps purpurea</i> extracts <i>Journal of Colloid and Surface Chemistry</i> , 8(2), 23-29 (2008)	
5	<i>Iuliana Spiridon</i> and V. I. Popa Contributions to the study of enzymatic transformations of high-yield pulps <i>Buletinul Institutului Politehnic, Iasi, Tom XLIV (XLIII), fasc.1-2, p. 115-122 (1998)</i>	
6	C. A. Teaca, <i>Iuliana Spiridon</i> and R. Bodirlau New perspectives for the improvement of wood quality and products <i>Memoriile Sectiilor Stiintifice, Seria IV, tom XXVII, 104-122(2004)</i>	
7	V. I. Popa si <i>Iuliana Spiridon</i> Cercetari in domeniul biodegradarii ligninei. I. Microorganismele si enzime implicate in procesul de biodegradare a ligninei <i>Celuloza si Hartie</i> , 42(4), 27-32 (1993)	
8	V. I. Popa, <i>Iuliana Spiridon</i> Cercetari in domeniul biodegradarii ligninei. II. Separarea si caracterizarea enzimelor implicate in procesul de biodegradare <i>Celuloza si Hartie</i> , 43(2), 28-30 (1994)	
9	V. I. Popa, <i>Iuliana Spiridon</i> Cercetari in domeniul biodegradarii ligninei. III. Metode de control a	

	procesului de biodegradare Celuloza si Hartie, 43(2), 31-34 (1994)	
10	V. I. Popa, C. Stanciu, M. Barsan, <i>Iuliana Spiridon</i> Consideratii privind posibilitatile de aplicare a procesului de bioinalbire a celulozei Celuloza si Hartie, 44(3), 3-10 (1995)	
11	<i>Iuliana Spiridon</i> Cercetari privind descenelizarea enzimatica a hartiei imprimate laser Celuloza si Hartie, 52(1), 12-16 (2003)	
12	<i>Iuliana Spiridon</i> Influenta enzimelor xilanazice asupra pastelor celulozice din paie de grau Celuloza si Hartie, 52(1), 42-46 (2003)	

2.1.3 Brevete de inventie si inovare: 1

a) Grigore Alice Elena, Colceru-Mihul Svetlana, Ichim Maria, *Spiridon Iuliana*, Panteli Minerva, Ichim Liviu, Rasit Iuksel, Bubueanu Elena Corina, Draghici Elena
Procedeu de obtinere a unui produs fitoterapeutic cu actiune antiinflamatoare
Brevet nr. 12680/3.11.2007

2.2. Granturi/proiecte câștigate prin competitie

2.2.1. ca director de proiect: 12

Granturi internationale:2

1. Forest biorefineries: Added-value from chemicals and polymers by new integrated separation, fractionation and upgrading technologies, CP-IP 228589-2 AFORE
coordonator: dr. *Iuliana Spiridon*, valoare 2009-2013: 247 920 euro
2. Research Infrastructure for Circular Forest Bioeconomy ERIFORE ID proposal 654371
coordonator: dr. *Iuliana Spiridon*, valoare 2016-2017:100 000 euro

Granturi nationale:9

2.2.1 ca director de proiect

1. Modificarea chimica a polimerilor naturali din biomasa prin reactii enzimatic (B12), contract 5052/1999
1999-2000, valoare: 20 000 lei
Director proiect: dr. *Iuliana Spiridon*
2. Caracterizarea unor principii bioactive de origine vegetala si fungica, cu actiune citostatica, imunomodulatoare, metabolica si neurotropa si valorificarea lor in alimentatia functional, CEEX 15/3.10.2005, perioada 2005-2007, valoare ICMPP:95 000 ron
Director proiect: prof. dr. D. Cojocaru Universitatea "Al. I. Cuza" Iasi
Responsabil proiect: dr. *Iuliana Spiridon*
3. Biomasa vegetala utilizata pentru obtinerea unor substante chimice in vederea realizarii unui produs fitoterapeutic cu actiune asupra sistemului nervos central (SNC) si transferul tehnologic al bioprocesului CEEX 3/6.10.2005, perioada 2005-2008, valoare ICMPP: 141 400 ron
Director proiect: dr. M. Ichim, BIONG Bucuresti
Responsabil proiect: dr. *Iuliana Spiridon*

4. Obținerea unor tulpini submerse de *Claviceps purpurea* cu preferențială și înaltă capacitate glucanosintetică și stabilirea domeniilor de valorificare biomedicală a unor preparate glucanice autohtone, CEEEX 110/2006, perioada 2006-2008, valoare ICMPP: 100 000 ron
Director proiect: dr. P. Rotinberg, Institutul de Cercetări Biologice Iași
Responsabil proiect: dr. *Iuliana Spiridon*

5. Laborator de certificare a calității materialelor polimere din/pentru ambalaje, contract 276/2006, perioada 2006-2007, valoare ICMPP: 800 000 ron
Director proiect: dr. *Iuliana Spiridon*

6. Conceperea, dezvoltarea și transferul tehnologiei de obținere a unei formule medicamentoase originale, practic netoxică, cu eficiență deosebită în terapia antiinflamatoare, bazată pe principii active de natură vegetală, contract 17/2007, perioada 2007-2010, valoare ICMPP: 93 210 ron
Director de proiect: dr. M. Ichim, BIONG București
Responsabil proiect: dr. *Iuliana Spiridon*

7. Materiale polimere multifuncționale pentru societate, contract 196/2008, perioada 2008-2010, valoare ICMPP: 444 000 ron
Director proiect: dr. *Iuliana Spiridon*

8. Contract 119EU- Capacități- modul III, perioada 2011-2013, valoare ICMPP: 270 000 ron
Director proiect: dr. *Iuliana Spiridon*

9. Contract 870/2007
Laborator de analiză și caracterizare a compusilor naturali pentru materiale materiale cu aplicații în domenii de varf, finalizat cu studiu de fezabilitate.
Valoare: 600 000 lei, program IMPACT
Director de proiect: *Iuliana Spiridon*

2.2.2. ca membru în echipa:6

Granturi internaționale:1

1. The European Polysaccharides Network, 2006-2007
Valoare: 67 737 E
Coordonator: acad. Bogdan C. Simionescu

Granturi naționale:5

1. Influența condițiilor pedoclimatice asupra modificărilor de compoziție chimică a principalelor specii forestiere din România (B 14)
Valoare: 9,4 milioane lei/940 ron contract 2612/ 5.06.1997, beneficiar **MCT**, Director proiect: acad. Cr. I. Simionescu

2. Influența condițiilor pedoclimatice asupra modificărilor de compoziție chimică a principalelor specii forestiere din România (B 14)
Beneficiar: **Academia Română** contract 3040/2.12. 1997, valoare: 940 ron, Director proiect: acad. Cr. I. Simionescu

3. Potențialul chimic al fitomasei în dezvoltarea durabilă
contract 5052/17.11.1999, perioada:1999-2001, valoare:10 650 ron, Director proiect: dr. Mariana Popa

4. Arhitecturi inovative degradabile, biocompatibile si bioactive pe baza de polimeri naturali si sintetici, CEEEX 10/3.10.2005, perioada 2005-2008, valoare: 50 000 ron, director de proiect: dr. Cornelia Vasile
5. Monitorizarea integritatii structurale si autorepararea palelor de turbine eoliene si a altor structuri din compozite inteligente, PCCA 2013-4-0656, contract nr. 59/01.07.2014, perioada 01.07.2014 – 30.12.2016, valoare: 125 000 ron, Director de proiect: Dr. Adriana Savin

A3. Prestigiu stiintific

3.1. Membru in colective de redactie ale revistelor nationale/internationale (Editorial Board Member)

a) Associate Editor la jurnalul Cellulose Chemistry and Technology

3.2. Indice Hirch: 14

Citari in reviste ISI (fara autocitari) - conform ISI Web of knowledge: 451

Selectie

Articol

Enzymatic degradation of some nanocomposites of poly(vinyl alcohol) with starch

By: Spiridon, Iuliana; Popescu, Maria Cristina; Bodarlau, Ruxanda; et al.

POLYMER DEGRADATION AND STABILITY Volume: 93 Issue: 10 Pages: 1884-1890 Published: OCT 2008

1. Nano composite solid polymer electrolytes based on biodegradable polymers starch and poly vinyl alcohol

By: Chatterjee, B.; Kulshrestha, Niharika; Gupta, P. N.

MEASUREMENT Volume: 82 Pages: 490-499 Published: MAR 2016

2. Properties and Applications of Polyvinyl Alcohol, Halloysite Nanotubes and Their Nanocomposites

By: Gaaz, Tayser Sumer; Sulong, Abu Bakar; Akhtar, Majid Niaz; et al.

MOLECULES Volume: 20 Issue: 12 Pages: 22833-22847 Published: DEC 2015

3. Sonocatalytic degradation of 2-hydroxyethyl cellulose in the presence of some nanoparticles

By: Taghizadeh, Mohammad Taghi; Seifi-Aghjekohal, Parinaz

ULTRASONICS SONOCHEMISTRY Volume: 26 Pages: 265-272 Published: SEP 2015

4. Characterization of starch/poly(vinyl alcohol)/clay nanocomposite films prepared in twin-screw extruder for food packaging application

By: Navarchian, Amir H.; Jalalian, Mehdi; Pirooz, Majid

JOURNAL OF PLASTIC FILM & SHEETING Volume: 31 Issue: 3 Pages: 309-336 Published: JUL 2015

5. Crystallization behavior, thermal property and enzymatic degradation of PVP/amylose in the presence of graphene oxide nanosheets

By: Taghizadeh, Mohammad Taghi; Abdollahi, Reza

POLYMER DEGRADATION AND STABILITY Volume: 116 Pages: 53-61 Published: JUN 2015

6. Properties of Cast Films Made of Chayote (Sechium edule Sw.) Tuber Starch Reinforced with Cellulose Nanocrystals

By: Terrazas-Hernandez, Jorge A.; Berrios, Jose De J.; Glenn, Gregory M.; et al.

JOURNAL OF POLYMERS AND THE ENVIRONMENT Volume: 23 Issue: 1 Pages: 30-37
Published: MAR 2015

7. Preparation, Characterization, and Biodegradation of PS:PLA and PS:PLA:OMMT Nanocomposites Using Aspergillus niger

By: Shimpi, Navinchandra G.; Borane, Mahesh; Mishra, Satyendra

POLYMER COMPOSITES Volume: 35 Issue: 2 Pages: 263-272 Published: FEB 2014

8. Isolation, Characterization, and Application of Nanocellulose from Oil Palm Empty Fruit Bunch Fiber as Nanocomposites

By: Lani, N. S.; Ngadi, N.; Johari, A.; et al.

JOURNAL OF NANOMATERIALS Article Number: 702538 Published: 2014

9 Characterization of Urea Encapsulated by Biodegradable Starch-PVA-Glycerol

By: Lum, Yip Hing; Shaaban, Azizah; Mitan, Nona Merry M.; et al.

JOURNAL OF POLYMERS AND THE ENVIRONMENT Volume: 21 Issue: 4 Pages: 1083-1087

Published: DEC 2013

10. Study of enzymatic degradation and water absorption of nanocomposites polyvinyl alcohol/starch/carboxymethyl cellulose blends containing sodium montmorillonite clay nanoparticle by cellulase and alpha-amylase

By: Taghizadeh, Mohammad Taghi; Sabouri, Narges

JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS Volume: 44 Issue: 6 Pages:

995-1001 Published: NOV 2013

11. In Vitro assessment of the enzymatic degradation of several PVA/starch materials

By: Jecu, L.; Raut, I.; Calin, M.; et al.

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 15 Issue: 7-8 Pages:

869-873 Published: JUL-AUG 2013

12. Investigation of nano-size montmorillonite on enhancing polyvinyl alcohol-starch blends prepared via solution cast approach

By: Tee, Tiam-Ting; Sin, Lee Tin; Gobinath, R.; et al.

COMPOSITES PART B-ENGINEERING Volume: 47 Pages: 238-247 Published: APR 2013

13. Effects of halloysite nanotubes and kaolin loading on the tensile, swelling, and oxidative degradation properties of poly(vinyl alcohol)/chitosan blends

By: Ismail, Hanafi; Khoo, Wee Shen; Ariffin, Azlan

JOURNAL OF VINYL & ADDITIVE TECHNOLOGY Volume: 19 Issue: 1 Pages: 55-64 Published: MAR 2013

14. Morphological and Thermal Investigations of Starch-Based Nanocomposites

By: Chang, Peter R.; Huang, Jin; Huang, Qing; et al.

Edited by: Dufresne, A; Thomas, S; Pothan, LA

BIOPOLYMER NANOCOMPOSITES: PROCESSING, PROPERTIES, AND APPLICATIONS Book

Series: Wiley Series on Polymer Engineering and Technology Pages: 227-259 Published: 2013

15. Biodegradable nanocomposite hydrogel structures with enhanced mechanical properties prepared by photo-crosslinking solutions of poly(trimethylene carbonate)-poly(ethylene glycol)-poly(trimethylene carbonate) macromonomers and nanoclay particles

By: Sharifi, Shahriar; Blanquer, Sebastien B. G.; van Kooten, Theo G.; et al.

ACTA BIOMATERIALIA Volume: 8 Issue: 12 Pages: 4233-4243 Published: DEC 2012

16. Oxidized banana starch-polyvinyl alcohol film: Partial characterization

By: Palma-Rodriguez, Heidi M.; Aguirre-Alvarez, Gabriel; Chavarria-Hernandez, Norberto; et al.

STARCH-STARKE Volume: 64 Issue: 11 Pages: 882-889 Published: NOV 2012

[View Abstract](#)

17. Biodegradation Behavior of Composite Films with Poly (Vinyl Alcohol) Matrix

By: Kibedi-Szabo, Csaba Zoltan; Stroescu, Marta; Stoica-Guzun, Anicuta; et al.

JOURNAL OF POLYMERS AND THE ENVIRONMENT Volume: 20 Issue: 2 Pages: 422-430

Published: JUN 2012

18. Biodegradation Kinetics of Antimicrobial Composite Films Based on Polyvinyl Alcohol-bacterial Cellulose

By: Dobre, Loredana-Mihaela; Dobre, Tanase; Ferdes, Mariana

REVISTA DE CHIMIE Volume: 63 Issue: 5 Pages: 540-544 Published: MAY 2012

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19. Properties and structural characterization of oxide starch/chitosan/graphene oxide biodegradable nanocomposites

By: Ma, Jun; Liu, Changhua; Li, Rui; et al.

JOURNAL OF APPLIED POLYMER SCIENCE Volume: 123 Issue: 5 Pages: 2933-2944 Published: MAR 5 2012

20. Starch Nanocomposites

By: Ray, Dipa; Maiti, Sonakshi

Edited by: John, MJ; Sabu, T

NATURAL POLYMERS, VOL 2: NANOCOMPOSITES Book Series: RSC Green Chemistry Series

Issue: 17 Pages: 185-233 Published: 2012

21. Study of enzymatic degradation and water absorption of nanocomposites starch/polyvinyl alcohol and sodium montmorillonite clay

By: Taghizadeh, Mohammad Taghi; Abbasi, Zahra; Nasrollahzade, Zainab

JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS Volume: 43 Issue: 1 Pages: 120-124 Published: JAN 2012

22. Structure and Physical Properties of Starch/Poly Vinyl Alcohol/Sodium Montmorillonite Nanocomposite Films

By: Ali, Samer S.; Tang, Xiaozhi; Alavi, Sajid; et al.

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY Volume: 59 Issue: 23 Pages: 12384-12395 Published: DEC 14 2011

23. Tailor-made starch-based conjugates containing well-defined poly(vinyl acetate) and its derivative poly(vinyl alcohol)

By: Lu, D. R.; Xiao, C. M.; Xu, S. J.; et al.

EXPRESS POLYMER LETTERS Volume: 5 Issue: 6 Pages: 535-544 Published: JUN 2011

[Full Text from Publisher](#)

24. Recent advances in starch, polyvinyl alcohol based polymer blends, nanocomposites and their biodegradability

By: Tang, Xiaozhi; Alavi, Sajid

CARBOHYDRATE POLYMERS Volume: 85 Issue: 1 Pages: 7-16 Published: APR 22 2011

[Full Text from Publisher](#)

25. Biodegradation of Poly(vinyl alcohol) and Bacterial Cellulose Composites by Aspergillus niger

By: Stoica-Guzun, Anicuta; Jecu, Luiza; Gheorghe, Amalia; et al.

JOURNAL OF POLYMERS AND THE ENVIRONMENT Volume: 19 Issue: 1 Pages: 69-79

Published: MAR 2011

26. Biodegradation of corn flour-based materials assessed by enzymatic, aerobic, and anaerobic tests: Influence of specific surface area

By: Jbilou, Fouzia; Galland, Sophie; Ayadi, Farouk; et al.

POLYMER TESTING Volume: 30 Issue: 1 Pages: 131-139 Published: FEB 2011

27. Polysaccharide-based superporous hydrogels with fast swelling and superabsorbent properties

By: Kuang, Jia; Yuk, Kun Young; Huh, Kang Moo

CARBOHYDRATE POLYMERS Volume: 83 Issue: 1 Pages: 284-290 Published: JAN 1 2011

28. Improved thermo-mechanical properties by the addition of natural fibres in starch-based sustainable biocomposites

By: Moriana, Rosana; Vilaplana, Francisco; Karlsson, Sigbritt; et al.

COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING Volume: 42 Issue: 1 Pages: 30-40 Published: JAN 2011

29. Properties and Structural Characterization of Oxidized Starch/PVA/alpha-Zirconium Phosphate Composites

By: Yang, Yajuan; Liu, Changhua; Chang, Peter R.; et al.

JOURNAL OF APPLIED POLYMER SCIENCE Volume: 115 Issue: 2 Pages: 1089-1097 Published: JAN 15 2010

30. Detection of synergistic interactions of polyvinyl alcohol-cassava starch blends through DSC

By: Sin, Lee Tin; Rahman, W. A. W. A.; Rahmat, A. R.; et al.

CARBOHYDRATE POLYMERS Volume: 79 Issue: 1 Pages: 224-226 Published: JAN 5 2010

Articol

CHEMICAL MODIFICATION OF BEECH WOOD: EFFECT ON THERMAL STABILITY

By: Bodirlau, Ruxanda; Teaca, Carmen Alice; Spiridon, Iuliana

BIORESOURCES Volume: 3 Issue: 3 Pages: 789-800 Published: AUG 2008

1. Thermal degradation of beech wood with thermogravimetry/Fourier transform infrared analysis

By: Ding, Yanming; Ezekoye, Ofodike A.; Lu, Shouxiang; et al.

ENERGY CONVERSION AND MANAGEMENT Volume: 120 Pages: 370-377 Published: JUL 15 2016

2. Review on Lipophilic and Hydrophilic Extractives in Tissues of Common Beech

By: Vek, Viljem; Oven, Primoz; Poljansek, Ida

DRVNA INDUSTRIJA Volume: 67 Issue: 1 Pages: 85-96 Published: MAR 2016

3. IMPROVEMENT OF ANTIFUNGAL ACTIVITY OF CITRONELLA OIL AGAINST ASPERGILLUS FLAVUS ON RUBBERWOOD (HEVEA BRASILIENSIS) USING HEAT CURING

By: Jantamas, S.; Matan, N.; Matan, N.; et al.

JOURNAL OF TROPICAL FOREST SCIENCE Volume: 28 Issue: 1 Pages: 39-47 Published: 2016

4. Centaurea solstitialis and Silybum marianum weeds conversion into value-added thermoplastic materials by benzylolation process

By: Uner, Birol; Dorak, Sinem; Ismailoglu, Yunus; et al.

IRANIAN POLYMER JOURNAL Volume: 25 Issue: 1 Pages: 37-43 Published: JAN 2016

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5. Comparison of different process strategies for bioethanol production from Eucheuma cottonii: An economic study

By: Tan, Inn Shi; Lee, Keat Teong

BIORESOURCE TECHNOLOGY Volume: 199 Pages: 336-346 Published: JAN 2016

6. Maleic Anhydride Treated Wood: Effects of Drying Time and Esterification Temperature on Properties

By: Essoua, Gatien Geraud Essoua; Blanchet, Pierre; Landry, Veronic; et al.

BIORESOURCES Volume: 10 Issue: 4 Pages: 6830-6860 Published: NOV 2015

7. Modification of rapeseed straw with organic acid anhydrides

By: Paukszta, Dominik; Doczekalska, Beata; Ostrowski, Adam; et al.

JOURNAL OF COMPOSITE MATERIALS Volume: 49 Issue: 11 Pages: 1369-1378 Published: MAY 2015

8. Thermal Pretreatment of Kudzu Biomass (Pueraria lobata) as Filler in Cost-Effective PLA Biocomposite Fabrication Process

By: Salak, Feridoun; Uemura, Satoshi; Sugimoto, Kiyotoshi

POLYMER ENGINEERING AND SCIENCE Volume: 55 Issue: 2 Pages: 340-348 Published: FEB 2015

9. Contribution to Understanding the Occurrence of Extractives in Red Heart of Beech

By: Vek, Viljem; Oven, Primoz; Poljansek, Ida; et al.

BIORESOURCES Volume: 10 Issue: 1 Pages: 970-985 Published: 2015

10. Esterification of oily-FFA and transesterification of high FFA waste oils using novel palm trunk and bagasse-derived catalysts

By: Ezebor, Francis; Khairuddean, Melati; Abdullah, Ahmad Zuhairi; et al.

ENERGY CONVERSION AND MANAGEMENT Volume: 88 Pages: 1143-1150 Published: DEC 2014

11. Oil palm trunk and sugarcane bagasse derived heterogeneous acid catalysts for production of fatty acid methyl esters

By: Ezebor, Francis; Khairuddean, Melati; Abdullah, Ahmad Zuhairi; et al.

ENERGY Volume: 70 Pages: 493-503 Published: JUN 1 2014

12. Fuel properties and combustion characteristics of some promising bamboo species in India

By: Kumar, Ritesh; Chandrashekar, N.

JOURNAL OF FORESTRY RESEARCH Volume: 25 Issue: 2 Pages: 471-476 Published: JUN 2014

13. Cyanoethylation of several fiber materials and their utilization as adhesive in wood-based panels

By: Qu, Baoxue; Qin, Tefu; Chu, Fuxiang

WOOD SCIENCE AND TECHNOLOGY Volume: 48 Issue: 3 Pages: 519-531 Published: MAY 2014

14. Switchable Ionic Liquids as Delignification Solvents for Lignocellulosic Materials

By: Anugwom, Ikenna; Eta, Valerie; Virtanen, Pasi; et al.

CHEMSUSCHEM Volume: 7 Issue: 4 Pages: 1170-1176 Published: APR 2014

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15. Biocomposites From Switchgrass and Lignin Hybrid and Poly(butylene succinate) Bioplastic: Studies on Reactive Compatibilization and Performance Evaluation

By: Sahoo, Saswata; Misra, Manjusri; Mohanty, Amar K.

MACROMOLECULAR MATERIALS AND ENGINEERING Volume: 299 Issue: 2 Pages: 178-189

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16. Chemical Modification of Kraft Lignin: Effect on Chemical and Thermal Properties

By: Chen, Yao; Stark, Nicole M.; Cai, Zhiyong; et al.

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17. Characterization of Lignocellulosic Fruit Waste as an Alternative Feedstock for Bioethanol Production

By: Sanchez Orozco, Raymundo; Balderas Hernandez, Patricia; Roa Morales, Gabriela; et al.

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18. ESTERIFICATION OF WILLOW WOOD WITH CYCLIC ACID ANHYDRIDES

By: Doczekalska, Beata; Bartkowiak, Monika; Zakrzewski, Roman

WOOD RESEARCH Volume: 59 Issue: 1 Pages: 85-96 Published: 2014

19. The effects of binder on the physical and mechanical properties of chemically treated sawdust-reinforced polypropylene composites

By: Idrus, M. A. M. Mohd; Hamdan, Sinin; Islam, Md Saiful; et al.

JOURNAL OF APPLIED POLYMER SCIENCE Volume: 129 Issue: 3 Pages: 1534-1540 Published: AUG 5 2013

20. Evaluation of Biological Pretreatment of Rubberwood with White Rot Fungi for Enzymatic Hydrolysis

By: Nazarpour, Forough; Abdullah, Dzulkefly Kuang; Abdullah, Norhafizah; et al.

MATERIALS Volume: 6 Issue: 5 Pages: 2059-2073 Published: MAY 2013

21. Homogeneous modification of sugarcane bagasse with maleic anhydride in 1-butyl-3-methylimidazolium chloride without any catalysts

By: Chen, Mingjie; Chen, Chaoyi; Liu, Chuanfu; et al.

INDUSTRIAL CROPS AND PRODUCTS Volume: 46 Pages: 380-385 Published: APR 2013

22. Effect of the lignin type on the morphology and thermal properties of the xanthan/lignin hydrogels

By: Raschip, Irina Elena; Hitruc, Gabriela Elena; Vasile, Cornelia; et al.

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES Volume: 54 Pages: 230-237 Published: MAR 2013

23. Biological Pretreatment of Rubberwood with Ceriporiopsis subvermispora for Enzymatic Hydrolysis and Bioethanol Production

By: Nazarpour, Forough; Abdullah, Dzulkefly Kuang; Abdullah, Norhafizah; et al.

BIOMED RESEARCH INTERNATIONAL Article Number: 268349 Published: 2013

24. Industrial Cellulignin Wastes as Adsorbent for Removal of Methylene Blue Dye from Aqueous Solutions

By: Suteu, Daniela; Malutan, Teodor

BIORESOURCES Volume: 8 Issue: 1 Pages: 427-446 Published: 2013

25. Wood and Bamboo-PP Composites: Fungal and Termite Resistance, Water Absorption, and FT-IR Analyses

By: Kartal, S. Nami; Aysal, Sema; Terzi, Evren; et al.

BIORESOURCES Volume: 8 Issue: 1 Pages: 1222-1244 Published: 2013

26. Ultrasonication-assisted manufacture of cellulose nanocrystals esterified with acetic acid

By: Tang, Lirong; Huang, Biao; Lu, Qilin; et al.

BIORESOURCETECHNOLOGY Volume: 127 Pages: 100-105 Published: JAN 2013

27. Novel compatible system of [C(2)OHmim][OAc]-cellulases for the in situ hydrolysis of lignocellulosic biomass

By: Li, Lu; Xie, Juan; Yu, Shitao; et al.

RSC ADVANCES Volume: 2 Issue: 31 Pages: 11712-11718 Published: 2012

[View Abstract](#)

28. Preparation of cellulose nanofibers with hydrophobic surface characteristics

By: Jonoobi, Mehdi; Harun, Jalaluddin; Mathew, Aji P.; et al.

CELLULOSE Volume: 17 Issue: 2 Pages: 299-307 Published: APR 2010

29. CHEMICAL COMPOSITION, CRYSTALLINITY, AND THERMAL DEGRADATION OF BLEACHED AND UNBLEACHED KENAF BAST (Hibiscus cannabinus) PULP AND NANOFIBERS

By: Jonoobi, Mehdi; Harun, Jalaludin; Shakeri, Alireza; et al.

BIORESOURCES Volume: 4 Issue: 2 Pages: 626-639 Published: MAY 2009

Articol

Influence of natural fillers on the properties of starch-based biocomposite films

By: Bodirlau, Ruxanda; Teaca, Carmen-Alice; Spiridon, Iuliana

COMPOSITES PART B-ENGINEERING Volume: 44 Issue: 1 Pages: 575-583 Published: JAN 2013

1. Effects of chitin nano-whiskers on the antibacterial and physicochemical properties of maize starch films

By: Qin, Yang; Zhang, Shuangling; Yu, Jing; et al.

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2. Improvement of water barrier properties of starch films by lipid nanolamination

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By: Versino, Florencia; Lopez, Olivia V.; Alejandra Garcia, M.

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10. Mechanical, Thermal and Barrier Properties of Starch-Based Films Plasticized with Glycerol and Lignin and Reinforced with Cellulose Nanocrystals

By: Miranda, Cleidiane S.; Ferreira, Marina S.; Magalhaes, Mariana T.; et al.

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11. Starch-Based Films Plasticized with Glycerol and Lignin from Piassava Fiber Reinforced with Nanocrystals from Eucalyptus

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By: Slavutsky, Anibal M.; Bertuzzi, Maria A.; Armada, Margarita; et al.

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By: Zhang, Danning

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STRUCTURAL CHANGES EVIDENCED BY FTIR SPECTROSCOPY IN CELLULOSIC MATERIALS AFTER PRE-TREATMENT WITH IONIC LIQUID AND ENZYMATIC HYDROLYSIS

By: Spiridon, Iuliana; Teaca, Carmen-Alice; Bodirlau, Ruxanda

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By: Lynam, Joan G.; Coronella, Charles J.

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By: Rafieian, Fatemeh; Simonsen, John

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Date: APR 09-11, 2014

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By: Brebu, Mihai; Tamminen, Tarja; Spiridon, Iuliana
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By: Degirmentepe, Selim; Baysal, Ergun; Turkoglu, Turkey; et al.

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23. CO-PYROLYSIS OF VARIOUS LIGNINS WITH POLYCARBONATE

By: Brebu, Mihai; Nistor, Manuela

CELLULOSE CHEMISTRY AND TECHNOLOGY Volume: 48 Issue: 1-2 Pages: 69-74 Published: JAN-FEB 2014

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Preparation and characterization of adipic acid-modified starch microparticles/plasticized starch composite films reinforced by lignin

By: Spiridon, Iuliana; Teaca, Carmen-Alice; Bodirlau, Ruxanda

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By: de Miranda, Cleidiane Souza; Ferreira, Marina Santos; Magalhaes, Mariana Tibo; et al.

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By: Shankar, Shiv; Reddy, Jeevan Prasad; Rhim, Jong-Whan

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