Curriculum Vitae

Informaţii personale	
Nume / Prenume	**ROŞU Dan**
Adresa	Dumbrava Roşie nr. 23, Iaşi, 700488, România
Telefon	004 0332141701 Mobil: 0726396134
Fax	004 0232 211299
E-mail	drosu@icmpp.ro dan_rosu50@yahoo.com
Naționalitatea	Română
Data naşterii	17.06.1953
Sexul	Masculin
Funcţia / Domeniul	**Cercetător ştiinţific principal gradul I/Cercetare**
Experienţa profesională	
Perioada	2017-prezent: Cercetător științific I, Institutul de Chimie Macromoleculară "Petru Poni", Iași, România, Centrul de cercetări avansate pentru bionanoconjugate şi biopolimeri 2001 –2017: Cercetător ştiinţific II, Institutul de Chimie Macromoleculară "Petru Poni", Iași, România, Laboratorul Materiale Polimere și Centrul de cercetări avansate pentru bionanoconjugate şi biopolimeri 1990 – 2001: Cercetător ştiinţific III, Institutul de Chimie Macromoleculară "Petru Poni", Iaşi, România, Laboratorul Materiale Polimere 1983 – 1990: Cercetător ştiinţific Institutul de Chimie Macromoleculară "Petru Poni", Iaşi, România, Laboratorul de fibre şi macromolecule naturale 1980 – 1983: Chimist Institutul de Chimie Macromoleculară "Petru Poni", Iaşi, România, Laboratorul de macromolecule natural şi fibre 1976 – 1980: Chimist, Laboratorul central, Intreprinderea Viei şi Vinului Iaşi, România
Domenii de competenţă	1. Sinteza şi caracterizarea răşinilor termo- și fotoreactive (fenolice, epoxi şi ester-vinilice) 2. Extracţii şi caracterizări de produşi naturali din resurse vegetale 3. Aspecte teoretice privitoare la proprietăţile adezive ale polimerilor 4. Prelucrarea biomasei vegetale şi deşeurilor de polimeri prin piroliză şi descompunere termică 5. Materiale polimerice derivate din bioresurse (lemn, uleiuri vegetale) 6. Sinteza şi caracterizarea amestecurilor și reţelelor polimerice interpenetrate 7. Compatibilitatea materialelor polimere 8. Cinetica proceselor de reticulare 9. Comportarea termică a polimerilor şi amestecurilor de polimeri 10. Comportarea fotochimică şi fotodegradarea materialelor polimere
Numele şi adresa angajatorului	Academia Română, Institutul de Chimie Macromoleculară "Petru Poni" Iaşi Aleea Gr. Ghica Vodă, 41A, 700487, Iaşi, România
Tipul de activitate	Cercetare fundamentală şi aplicativă
Educaţie şi formare profesională	

Data	Noiembrie 1997
Diploma obţinută	Diploma de doctor în chimie
Titlul tezei	Contribuţii la studiul răşinilor fenol-formaldehidice şi aplicaţii
Instituţia	Institutul de Chimie Macromoleculară "Petru Poni", Iaşi, România
Data	Iunie 1976
Diploma obţinută	Diploma de licenţă în chimie
Titlul lucrării de diplomă	Carbo- şi heterocicli de şapte atomi
Instituţia	"Institutul Politehnic "Gh. Asachi", Facultatea de chimie şi inginerie chimică, Secţia Chimie, Iaşi, România
Data	Iunie 1972
Diploma obţinută	Diplomă de bacalaureat
Instituţia	Liceul "C. Negruzzi" Iaşi
Limba maternă	**română**
Alte limbi cunoscute	**engleză, franceză**
Competenţe informatice	Operare PC – Microsoft Word, Microsoft Excel, Microsoft PowerPoint; Origin
Informaţii suplimentare	Membru al Societăţii Române de Chimie Membru al ICTAC (Confederația Internațională pentru Analiză Termică și Calorimetrie) Membru CATCAR (Comisia de Analiză Termică şi Calorimetrie a Academiei Române) Premii naţionale şi internaţionale: Premiul Academiei Române „***Costin D. Nenitescu***" acordat pentru ciclul de lucrări: „Răşini novolac epoxi-acrilice pe bază de fenol p-alchil substituit", 18.02.2002
Publicaţii	Lucrări ştiinţifice publicate în reviste de specialitate: **118** Lucrări publicate în volume la manifestări ştiinţifice**: 49** Carte: **2**; Capitole în cărţi: **9** Brevete de invenţie: **4**
Participări la manifestări ştiinţifice	Conferinţe: **4**, Comunicări : **85** Postere: **118**
Proiecte de cercetare:	**10** proiecte de cercetare fundamentală și aplicativă (**2** internaționale, **8** naționale) (**5** : lider de proiect și **5:** membru în echipă) **20** rapoarte periodice de cercetare; **1** tehnologie fază de laborator; **6** tehnologii micropilot și fază pilot; **1** proces tehnologic industrial; **6** produse aprobate; **5** proiecte aplicative cu industria românească, în calitate de lider de proiect
Alte activităţi	Membru în bordul editorial al revistei **POLYMERS** Referent de specialitate la **17** reviste din circuitul internaţional Responsabil proiect 1.4.: **Materiale (bio)polimere și arhitecturi nanostructurate multifuncționale pentru aplicații specifice,** în cadrul subprogamului: **Structuri supramoleculare bio-inspirate și materiale avansate cu aplicaţii în tehnologii emergente**, din cadrul laboratorului: ***Centrul de cercetări avansate pentru bio-nano-conjugate şi biopolimeri.*** Responsabil **laborator analiză termică** în cadrul laboratorului: ***Centrul de cercetări avansate pentru bio-nano-conjugate şi biopolimeri.***
Numărul de citări	**2.908**
Indicelui Hirsch (conform http://www.scopus.com/authid/detail.url?authorId=7003267520)	**30**

22 august 2024 ***Dr. Dan Roșu***

Lista de lucrari:

Nr.crt	Date de identificare: autori/ titlu/ revista/manifestare/ vol./ pg./an/
1	C.I.Simionescu, V.Rusan, ***Dan Roşu****, C.N. Cascaval Complex processing of vegetable biomass. IV. Hydrocarbons from latex-producing plants ***Cell.Chem.Technol. 18, 343-348, 1984***
2	C.N.Cascaval, E.C.Buruiana, ***Dan Roşu****, E.Rusu, G.E.Grigoriu, V.Barboiu Thermal degradation of cynnamoilated poly(vinyl alcohol) ***Polymer International (British Polym.J.) 17, 343-346, 1985***
3	C.I.Simionescu, V.Rusan, ***Dan Roşu****, C.N.Cascaval Complex processing of vegetable biomass. IV. Hydrocarborns and energy from Lactuca serriola Torner latex-bearing plant ***Cell.Chem.Technol. 19, 357-363, 1985***
4	C.I.Simionescu, C.N.Cascaval, ***Dan Roşu****, V.Rusan Complex and integral processing of *Asclepias syriaca L.* latex-bearing plant. V. Catalytic conversion of the latex ***Cell.Chem.Technol. 21, 77-83, 1987***
5	C.I.Simionescu, C.N.Cascaval, ***Dan Roşu****, V.Rusan Complex and integral processing of *Asclepias syriaca L.* latex-bearing plant. VI. Extraction of hydrocarbons and their characterization ***Cell.Chem.Technol. 21, 113-120, 1987***
6	C.N.Cascaval, ***Dan Roşu**** Prelucrarea complexa si integrala a plantei laticifere Asclepias syriaca L. ***Materiale Plastice 36(1), 39-42, 1987***
7	***Dan Roşu****, C.N.Cascaval, A.Stoleriu Rasini fenolice. I. Sinteza si caracterizarea unor rasini para-nonilfenol formaldehidice ***Materiale Plastice 3, 147-149, 1989***
8	C.N.Cascaval, I.Agherghinei, A.Stoleriu, ***Dan Roşu**** Thermochemical processing of vegetable biomass. Study of the thermal decomposition of *Asclepias syriaca L.* latex-bearing plant ***Cell.Chem.Technol. 24, 751-760, 1990***
9	C.N.Cascaval, ***Dan Roşu**** Phenolic and epoxy resins. I. Thermal characterization by pyrolisis-gas chromatography ***Rev.Roum.Chim. 36, 1331-1336, 1991***
10	***Dan Roşu****, C.N.Cascaval Rasini fenolice. II. Rasini para-nonilfenol formaldehidice, agenti cu character lipicios in sinteza de compositii adezive sensibile la presiune ***Materiale Plastice 3-4, 92, 1991***
11	C.N.Cascaval, I.Agherghinei, ***Dan Roşu**** Thermal behaviour of some para-nonylphenol formaldehyde resins ***J.Thermal Anal. 39, 585-593, 1993***
12	C.N.Cascaval, F.Mustata, ***Dan Roşu**** Viscosity characteristics of some p-nonylphenol formaldehyde novolac epoxy resin ***Angew.Makromol.Chem (Macromol.Mater.and Engineering) 209, 157-166, 1993***
13	C.N.Cascaval, ***Dan Roşu****, F.Mustata Synthesis and characterization of some para-nonyl phenol formaldehyde resins ***Eur.Polym.J. 30, 329-333, 1994***
14	***Dan Roşu****, C.N.Cascaval Synthesis of some acrylic monomers through the reaction of para- nonylphenol glycidyl ether with acrylic and methacrylic acids ***Rev.Roum.Chim, 34, 979-984, 1994***
15	A.Mija, C.N.Cascaval, F.Mustata, ***Dan Roşu**** Comportarea viscozimetrica a amestecurilor pe baza de cauciuc natural si rasini para-nonilfenol formaldehidice ***Materiale Plastice 3-4, 225-228, 1995***
16	***Dan Roşu***, C.N.Cascaval, C.I.Simionescu Tack of pressure-sensitive adhesive with para-nonylphenol formaldehyde novolac resins as tackfiers ***Angew.Makromol.Chem (Macromol.Mater.and Eng.) 230, 117-128, 1995***
17	***Dan Roşu***, C.N.Cascaval, F.Mustata, A.Mija Synthesis and characterization of epoxy-acrylic polymer on the basis of 2-hydroxy-3-para-nonylphenoxy-propyl acrylate ***Polym.Plast.Technol.Eng. 35, 417-426, 1996***

18	C.N.Cascaval, ***Dan Roşu****, I.Agherghinei The thermal behaviours of some epoxy-acrylic polymers based on phenol and para-alkyl substituted phenols ***Polym. Degrad.Stab. 52, 253-257, 1996***
19	A.Mija, C.N.Cascaval, Gh.Stoica, ***Dan Roşu***, B.C.Simionescu Synthetic and characterization of some epoxy resins bearing azomethyne linkages ***Eur.Polym.J. 32(6), 779, 1996***
20	C.N.Cascaval, ***Dan Roşu***, A.Stoleriu Curring of some epoxy-acrylate glycidyl ethers on the basis of para-alkyl substituted phenols ***Polym. Degrad.Stab. 55, 281-285, 1997***
21	***Dan Roşu****, F.Mustata, C.N.Cascaval, C.I. Simionescu Polymerization of epoxy-acrylic monomers based on phenol and p-alkyl substituted phenol studied by viscosimetry ***Rev.Roum.Chem. 43, 975, 1998***
22	***Dan Roşu****, C.N.Cascaval, C.I.Simionescu Synthesis and characterization of some para-tert-butylphenol formaldehyde novolac resins ***Rev.Roum.Chim. 44(6), 595-598, 1999***
23	C.N.Cascaval, ***Dan Roşu***, A.Stoleriu Thermal characterization of para-tert-butylphenol formaldehyde epoxy-acrylic resin cured with reactive diluents ***Polym.Degrad.Stab. 67, 129-136, 2000***
24	***Dan Roşu****, C.N.Cascaval, L.Rosu Curing of p-tert-butylphenol formaldehyde epoxy-acrylic resin in presence of reactive diluents ***Polym.Plast.Technol.Eng. 39(3), 553-566, 2000***
25	F.Mustata, ***Dan Roşu***, C.N.Cascaval Rheological testing of p-tert-butyl epoxy-acrylic resin in presence of reactive diluents ***Polymer Testing 19(8), 927-938, 2000***
26	I.Bunia, C.N.Cascaval, ***Dan Roşu***, C.Ciobanu, M.Popa Thermal degradation of some crosslinked acrylic copolymers functionalized as ion exhanced ***Polym.Degrad.Stab. 70, 205-215, 2000***
27	C.N.Cascaval, ***Dan Roşu**** Epoxy-acrylic macromolecular compounds on the basis of phenol and para-alkyl substituted phenol ***Rev.Roum.Chim. 45(7-8), 731-737, 2000***
28	***Dan Roşu***, C.Ciobanu, C.N.Cascaval Synthesis and properties of graft copolymer derived from polyurethane and dihydroxyacrylate of bisphenol A ***J.Appl.Polym.Sci. 80, 1802-1813, 2001***
29	***Dan Roşu***, F.Mustata, C.N.Cascaval Investigation of the curing reactions of some multifunctional epoxy resins using differential scanning calorimetry ***Thermochimica Acta 370, 105-110, 2001***
30	C.Ciobanu, ***Dan Roşu***, C.N.Cascaval, L.Rosu Polyurethane-epoxy maleate of bisphenol A blends ***J.Macromol.Sci.-Pure Appl.Chem. 30(10), 991-1005, 2001***
31	***Dan Roşu***, C.Ciobanu, C.N.Cascaval Polyhydroxyacrylate-polyurethane semi-interpenetrating polymer networks ***Eur.Polym.J. 37, 587-595, 2001***
32	C.N.Cascaval, ***Dan Roşu**** Behaviour of para-tert-butylphenol epoxy-acrylic resin in the presence of reactive diluents ***Rev.Roum.Chim. 46(7), 671-677, 2001***
33	C.N.Cascaval, C.Ciobanu, ***Dan Roşu***, L.Rosu Polyurethane-epoxy maleate of bisphenol A semi-interpenetrating polymer networks ***J.Appl.Polym.Sci. 83, 183-144, 2002***
34	***Dan Roşu***, C.N.Cascaval, F.Mustata, C.Ciobanu Cure kinetics of epoxy resins studied by non-isothermal DSC data ***Thermochimica Acta 383, 119-127, 2002***
35	C.N.Cascaval, C.Ciobanu, ***Dan Roşu****, L.Rosu Retele polimerice pe baza de poliuretani si rasini epoxi modificate ***Materiale Plastice 39(2), 127-131, 2002***
36	L.Rosu, C.N.Cascaval, C.Ciobanu, ***Dan Roşu**** Studiu privind comportarea termica si fotochimica a unui poliuretan cu structura aromatica ***Materiale Plastice 39(3), 183-188, 2002***
37	C.N.Cascaval, ***Dan Roşu***, L.Rosu, C.Ciobanu Thermal degradation of semi-interpenetrating polymer networks based on polyurethane and epoxy maleate of bisphenol A ***Polymer Testing 22, 45-49, 2003***
38	C.Ciobanu, X.Han, C.N.Cascaval, F.Guo, ***Dan Roşu***, L.Ignat, G.Moroi Influence of urethane group on properties of Crosslinked polyurethane elastomers ***J.Appl.Polym.Sci. 87, 1858-1867, 2003***
39	***Dan Roşu***, A.Mititelu, C.N.Cascaval

	Cure kinetics of a liquid-crystalline epoxy resin studied by non-isothermal data ***Polymer Testing 23, 209-215, 2004***
40	C.N.Cascaval, ***Dan Roşu***, L.Rosu Advanced materials based on epoxy resins 1. Vinyl ester resins ***Materiale Plastice 41(3), 173-179, 2004***
41	***Dan Roşu***, C.N.Cascaval, C.Ciobanu, L.Rosu An investigation of the thermal degradation of epoxy maleate of bisphenol A ***J.Anal.Appl.Pyrolysis 72, 191-196, 2004***
42	C.N.Cascaval, ***Dan Roşu***, L.Rosu Advanced materials based on epoxy resins 1. Interpenetrating polymer networks ***Materiale Plastice 42(1), 41-46, 2005***
43	L.Rosu, C.N.Cascaval, C.Ciobanu, ***Dan Roşu***, E.D.Ion, C.Morosanu, M.Enachescu Effect of UV radiation on the semi-interpenetrating polymer networks based on polyurethane and epoxy maleate of bisphenol A ***J.Photochem.Photobiol.A.Chem. 169, 177-185, 2005***
44	C.N.Cascaval, C.Ciobanu, L.Rosu, ***Dan Roşu*** Turpentine as the raw chemicals for the polymerization processes ***Materiale Plastice 42(3), 229-232, 2005***
45	***Dan Roşu***, C.N.Cascaval, L.Rosu Effect of UV radiation on photolysis of epoxy maleate of bisphenol A ***J.Photochem.Photobiol A.Chem. 177, 218-224, 2006***
46	C.N.Cascaval, ***Dan Roşu***, A.Mititelu, L.Rosu Kinetics of curing reaction of selected epoxy resin-amine systems ***Polimery 51, 3, 2006***
47	L.Rosu, C.N.Cascaval, ***Dan Roşu**** Curing of vinyl ester resins. Rheological behaviour ***J.Opt.Adv.Mater. 8(2), 690-693, 2006***
48	C.Ciobanu, E.Stoica, C.N.Cascaval, ***Dan Roşu***, L.Rosu, M.State, A.Emandi, N.Nemes, F.Petrescu Polyurethane with low concentration erbium-doped ***J.Appl.Polym.Sci. 103, 659-669, 2007***
49	C.N.Cascaval, M.Cristea, ***Dan Roşu***, C.Ciobanu, O.Paduraru, C.Cotofana Preparation and characterization of polyvinyl alcohol-colloidal silver nanocomposites ***J.Opt.Adv.Mater. 9, 2116-2120, 2007***
50	***Dan Roşu****, D.Ivanov Thermal degradation of some polymaleamides ***J.Opt.Adv.Mater. 9, 2145-2147, 2007***
51	O.Petreus, C.Ciobanu, C.Hamciuc, T.Vlad-Bubulac, ***Dan Roşu*** Proprietatile mecanice ale unor rasini polimerice folosite in compounduri cu insecticide ***Materiale Plastice 44(2), 108-111, 2007***
52	***Dan Roşu****, L.Rosu, C.N.Cascaval Effect of ultraviolet radiation on vinyl ester network based on bisphenol A ***J.Photochem.Photobiol A.Chem. 194, 275-282, 2008***
53	L.Rosu, C.Ciobanu, ***Dan Roşu****, C.N.Cascaval Preparation and characterization of silver sulfathiazole-epoxy resin networks ***Polimery 53(9), 644-648, 2008***
54	***Dan Roşu***, C.N.Cascaval, L.Rosu Synthesis and characterization of some composites with bioactive properties on the basis of vinyl ester resins ***e-Polymers, nr. 105, 2008***
55	L.Rosu, ***Dan Roşu*** Vinyl ester matrix resins for advanced materials ***J.Opt.Adv.Mater. 8(2), 690-693, 2008***
56	L.Rosu, C.N.Cascaval, ***Dan Roşu*** Efect of UV radiation on some polymeric networks based on vinyl ester resin modified lignin ***Polymer Testing 28, 296-300, 2009***
57	***Dan Roşu***, L.Rosu, C.N.Cascaval IR-change and yellowing of polyurethane as a result of UV irradiation ***Polym.Degrad. Stab. 94, 591-596, 2009***
58	***Dan Roşu****, C.Ciobanu, L.Rosu, C.A.Teaca The influence of polychromic light on the surface of MDI based polyurethane elastomer ***Appl.Surf.Sci. 255, 9453-9457, 2009***
59	M.Cristea, S.Ibanescu, C.N.Cascaval, ***Dan Roşu*** Dynamic mechanical analysis of polyurethane-epoxy interpenetrating polymer networks; ***High Perform.Polym. 21(5), 608-623, 2009***
60	F.Mustata, ***Dan Roşu*** Photo-crosslinking of multi-allylmaleate resins obtained from epoxy resins

	Opt.Electron.Adv.Mat-Rapid Commun. 3(7), 725-730, 2009
61	***Dan Roșu****, C.-A. Teaca, R. Bodirlau, L. Rosu FTIR and color change of the modified softwood as a result of UV light irradiation ***J. Photochem.Photobiol. B.Biol. 99, 144-149, 2010***
62	***Dan Roșu****, N.Tudorachi, L.Rosu Investigations on the thermal degradation of a MDI based polyurethane elastomer ***J. Anal. Appl. Pyrolysis 89(2), 142-148, 2010***
63	***Dan Roșu****, L. Rosu, M. Brebu Thermal stability of silver sulfathiazole–epoxy resin network ***J. Anal. Appl. Pyrolysis 92, 10–18, 2011***
64	L. Rosu, I. Sava, ***Dan Roșu**** Modification of the surface properties of a polyimide film during irradiation with polychromic light ***Applied Surface Science 257, 6996–7002, 2011***
65	F. Mustata, N. Tudorachi, ***Dan Roșu*** Curing and thermal behavior of resin matrix for composites based on epoxidized soybean oil/diglycidyl ether of bisphenol A ***Composites: Part B 42, 1803–1812, 2011***
66	O. Petreus, G. Lisa, E. Avram, ***Dan Roșu*** Thermal degradation and pyrolysis study of phosphorus-containing polysulfones ***Journal of Applied Polymer Science 120(6), 3233-3241, 2011***
67	C.-D. Varganici, A. Durdureanu-Angheluta, ***Dan Roșu****, M. Pinteala, B.C. Simionescu Thermal degradation of magnetite nanoparticles with hyrdrophilic shell ***J. Anal. Appl. Pyrol. 96, 63–68, 2012***
68	***Dan Roșu****, L. Rosu, F. Mustata, C.-D. Varganici Effect of UV radiation on some semi-interpenetrating polymer networks based on polyurethane and epoxy resin ***Polym. Degrad. Stab. 97, 1261–1269, 2012***
69	F. Mustata , N. Tudorachi, ***Dan Roșu*** Thermal behavior of some organic/inorganic composites based on epoxy resin and calcium carbonate obtained from conch shell of Rapana thomasiana ***Composites Part B: Engineering 43, 702-710, 2012***
70	***Dan Roșu****, L.Rosu, C.-D.Varganici The thermal stability of some semi-interpenetrated polymer networks based on epoxy resin and aromatic polyurethane ***J. Anal. Appl. Pyrol. 100, 103-110, 2013***
71	C.-A.Teaca, ***Dan Roșu***, R.Bodirlau, L.Rosu, Structural changes in wood under artificial UV light irradiation determined by FTIR spectroscopy and color measurements – A brief review ***BioResources 8(1), 1478-1507, 2013***
72	C.-D.Varganici, L.Rosu, ***Dan Roșu****, B.C. Simionescu Miscibility studies of some semi-interpenetrating polymer networks based on an aromatic polyurethane and epoxy resin ***Composites Part B: Eng. 50, 273-278, 2013***
73	C.-D. Varganici, O.Ursache, C.Gaina, V.Gaina, ***Dan Roșu****, B.C.Simionescu Synthesis and characterization of a new thermoreversible polyurethane network ***Ind. Eng. Chem. Res. 52(15), 5287-5295, 2013***
74	R. Bodirlau, C.-A. Teaca, ***Dan Roșu***, L. Rosu, C.-D. Varganici, A. Coroaba Physico-chemical properties investigation of softwood surface after treatment with organic anhydride ***Central Eur. J Chem. 11(12), 2098-2106, 2013***
75	C.-D. Varganici, O. M. Paduraru, L. Rosu, ***Dan Roșu****, B. C. Simionescu. Thermal stability of some cryogels based on poly(vinyl alcohol) and cellulose ***J. Anal. Appl. Pyrol. 104, 77-83, 2013***
76	L. Rosu, ***Dan Roșu****, C.–C. Gavat, C.–D. Varganici Photochemical stability of cellulose textile surfaces painted with some reactive azo-triazine dyes ***J. Mater. Sci., 49(13), 4469-4480, 2014***
77	C.-A.Teaca, R.Bodirlau, ***Dan Roșu***, L.Rosu, C.-D.Varganici Multicomponent bio-based polymer systems comprising starch and wood polymers-structure and thermal behavior ***J. Biobased Mater. Bioenergy, 8(2), 253-260, 2014***
78	O. Ursache, C. Găină, V. Găină, N. Tudorachi, A. Bargan, C.-D. Varganici, ***Dan Roșu*** Studies on Diels-Alder thermoresponsive networks based on ether-urethane bismaleimide functionalized poly(vinyl alcohol) ***J.Therm. Anal.Calorim., 118, 1471-1481, 2014***
79	***Dan Roșu***, F.Mustata, N.Tudorachi, V.E. Musteata, L.Rosu, C.–D.Varganici Novel bio–based flexible epoxy resin from diglycidyl ether of bisphenol A cured with castor oil maleate ***RSC Advances, 5(57), 45679-45687, 2015***
80	C.–D.Varganici, L.Rosu, O.M.Mocanu (Paduraru), ***Dan Roșu**** Influence of poly(vinyl alcohol) on cellulose photochemical stability in cryogels during UV irradiation ***J. Photochem. Photobiol. A: Chem., 297, 20–30, 2015***

81	C.–D.Varganici, ***Dan Roşu****, C.Barbu–Mic, L.Rosu, D.Popovici, C.Hulubei, B.C. Simionescu On the thermal stability of some aromatic–aliphatic polyimides ***J. Anal. Appl. Pyrol., 113, 390–401, 2015***
82	C.–D.Varganici, N.Marangoci, L.Rosu, C.Barbu–Mic, ***Dan Roşu****, M.Pinteala, B.C. Simionescu TGA/DTA–FTIR–MS coupling as analytical tool for confirming inclusion complexes occurrence in supramolecular host–guest architectures ***J. Anal. Appl. Pyrol., 115, 132–142, 2015***
83	***Dan Roşu****, R. Bodirlau, C.–A.Teaca, L. Rosu, C.–D.Varganici Epoxy and succinic anhydride functionalized soybean oil for wood protection against UV light action ***J. Clean. Prod., 112, 1175-1183, 2016***
84	***Dan Roşu***, F.Mustata, N.Tudorachi, C.–D. Varganici, L.Rosu, V.E.Musteata A study on coating properties of an epoxy system hardened with maleinized castor oil ***Prog. Org. Coat., 99, 480-489, 2016***
85	Athanasiu, A.A., Deaconu, M., Crudu, M., Doncea, S., Stoica, R., Oproiu, L., Senin, R., Ruse, M., ***Dan Roşu***, Filipescu, C. Synthesis and characterization of nanosized copper(II)-phthalocyanine pigment (P BI 15:3) with the modified surface. I ***Revista de Chimie Volume 68, Issue 2, 2017, Pages 343-349***
86	Liliana Roşu*, C.-D.Varganici, A.-M.Crudu, ***Dan Roşu***, A. Bele Ecofriendly wet-white leather vs. conventional tanned wet-blue leather. A photochemical approach ***Journal of Cleaner Products, 177, 708-720, 2018***
87	Liliana Roşu, C.-D.Varganici, F.Mustata, T.Rusu, ***Dan Roşu***, I.Rosca, N.Tudorachi, C.-A.Teaca Enhancing the thermal and fungal resistance of wood treated with natural and synthetic derived epoxy resins ***ACS Sustainable Chem. Eng., 6, 5470−5478, 2018***
88	Liliana Roşu*, C.-D.Varganici, A.-M.Crudu, ***Dan Roşu*** Influence of different tanning agents on bovine leather thermal degradation ***Journal of Thermal Analysis and Calorimetry, 134(1) 583-594, 2018***
89	Liliana Roşu, F. Mustata, C.–D. Varganici, ***Dan Roşu***, T. Rusu, I. Roşca Thermal behaviour and fungi resistance of composites based on wood and natural and synthetic epoxy resins cured with maleopimaric acid ***Polym. Degrad. Stab. 160, 148-161, 2019***
90	C.A. Teaca, ***Dan Roşu***, F.Mustata, T.Rusu, Liliana Rosu, I.Rosca, C.D. Varganici Natural Bio-Based Products for Wood Coating and Protection against Degradation: A Review ***Bioresources, 14(2), 4873-4901, 2019***
91	Liliana Rosu, C.-D. Varganici, F. Mustata, ***Dan Roşu***, I.Rosca, T. Rusu Epoxy Coatings Based on Modified Vegetable Oils for Wood Surface Protection against Fungal Degradation ***ACS Appl. Mater. Interfaces 2020, 12, 12, 14443-14458***
92	C.D. Varganici, Liliana Roşu*, ***Dan Roşu***, F. Mustață, T. Rusu Sustainable wood coatings made of epoxidized vegetable oils for ultraviolet protection: A review ***Environmental Chemistry Letters 19, 307-328, 2021***
93	Liliana Roşu, F. Mustață, ***Dan Roşu***, C.D. Varganici, I. Roşca, T. Rusu Bio-based coatings from epoxy resins crosslinked with a rosin acid derivative for wood thermal and anti–fungal protection ***Progress in Organic Coatings 151, 106008, 2021***
94	Liliana Roşu, C.D.Varganici*, ***Dan Roşu****, St.Oprea Effect of Thermal Aging on the Physico-Chemical and Optical Properties of Poly(ester urethane) Elastomers Designed for Passive Damping (Pads) of the Railway ***Polymers 13(2), 192, 2021***
95	C.D. Varganici, Liliana Roşu*, S. Lehner, C.Hamciuc, M. Jovic, ***Dan Roşu***, F. Mustață, S. Gaan* Semi–interpenetrating networks based on epoxy resin and oligophosphonate: Comparative effect of three hardeners on the thermal and fire properties ***Materials & Design 212, 110237, 2021***
96	Liliana Roşu, C.-C. Gavat, ***Dan Roşu****, C.D.Varganici*, F. Mustață Photochemical stability of a cotton fabric surface dyed with a reactive triphenodioxazine dye ***Polymers 13(22), 3986, 2021***
97	F. Mustață, ***Dan Roşu***, C.D. Varganici, Liliana Roşu*, I. Roşca, N. Tudorachi Assessing the thermal and fungal behavior of eco-friendly epoxy thermosets derived from vegetable oils for wood protective coatings ***Progress in Organic Coatings 163, 106612, 2022***
98	***Dan Roşu***, F. Mustață, Liliana Roşu*, C.D. Varganici Photochemical behavior of polymer modified vegetable oils as eco–friendly wood protective coatings ***ACS Applied Polymer Materials 3(12), 6303-6314, 2021***
99	A. Bifulco, C.D. Varganici, Liliana Roşu, F. Mustață, ***Dan Roşu***, S. Gaan Recent advances in flame retardant epoxy systems containing non-reactive DOPO based phosphorus additives *Polym. Degrad. Stab. 200, 109962, 2022*
100	C.D.Varganici, Liliana Roşu*, ***Dan Roşu****, C. Hamciuc, I. Roşca, A.–L. Vasiliu Effect of hardener type on the photochemical and antifungal performance of epoxy and oligo-phosphonate S–IPNs ***Polymers 14, 3784, 2022***

101	C.D. Varganici , Liliana Roşu*, A. Bifulco, ***Dan Roşu***, F. Mustaţă, S. Gaan* Recent advances in flame retardant epoxy systems from reactive DOPO–based phosphorus additives ***Polym. Degrad. Stab. 202, 110020, 2022***
102	C.D. Varganici, Liliana Rosu*, ***Dan Rosu****, I. Rosca, M.E. Ignat, L. Ignat Surface Degradation of DGEBA Epoxy Resins Cured with Structurally Different Amine Hardeners: Effects of UV Radiation ***Polymers 16(1), 67, 2024***

Articole publicate in alte reviste de specialitate din tara

1	*A.Ionel, C.N.Cascaval,* ***Dan Roşu****, Th. Iacob, V.Rusan* *Superior use of Heliantum Tuberosus Species. I. Plant cure and preliminary attempts of tubers processing at ethyl alcohol* ***Lucrari stiintifice – Seria Agronomie, 28, 101-104, 1984***
2	*V.Rusan, C.N.Cascaval,* ***Dan Roşu****, V.I.Popa* *Valorificarea complexa si integrala a plantei laticifere Asclepias Syriaca L. I.Consideratii asupra potentialului biologic si chimic* ***Lucrari stiintifice – Seria Agronomie, 28, 107-110, 1984***
3	*Gh.Rosu,* ***Dan Roşu**** *Efectul ingrasamintelor chimice asupra orzului de toamna cultivat pe teren in panta* ***Lucrari stiintifice – Seria Agronomie, 29, 28-31, 1985***
4	*C.Cotofana, C.Ciobanu,* ***Dan Roşu****, C.N.Cascaval* *Synthesis and characterization of some polyurethane-ammonium lignosulfonate blends* ***Buletinul Stiintific al Univ. Politehnica Timisoara 48(62), 1-2, 152-155, 2003***
5	*C.I.Simionescu,* ***Dan Roşu****, C.N.Cascaval* *Rasini fenolice* ***Mem.Sect.St.Acaemia Romana pg. 89, 1997***
6	*C.N.Cascaval,* ***Dan Roşu**** *Unsaturated vinyl esters on the basis of para-alkyl substituted phenols* ***Mem.Sect.St. Academia Romana, Seria IV, tomul XXII, 2002***
7	*C.I.Simionescu, V.Rusan, B.Dragomir, V.I.Popa,* ***Dan Roşu**** *Valorificarea complexa a biomasei. I. Tendinte actuale si perspective in conditiile crizei de materii prime si energie* ***Celuloza si Hartie 4, 1981***
8	*C.I.Simionescu, B.Dragomir,* ***Dan Roşu****, V.Rusan, V.I.Popa* *Pigmenti naturali fotosintetisati. I. Progrese in domeniul utilizarii acestora* ***Celuloza si Hartie 1, 1982***
9	*C.N.Cascaval,* ***Dan Roşu**** *Prelucrarea complexa si integrala a plantei laticifere Asclepias Syriaca L. IV. Piroliza* ***Celuloza si Hartie 36, 39-42, 1987***
10	***Dan Roşu****, C.N.Cascaval, C.I.Simionescu* *Para-nonilphenol formaldehyde novolac resins* ***Roum.Chem.Quert.Rev. 3, 277-289, 1995***
11	*C.N.Cascaval,* ***Dan Roşu****, C.I.Simionescu* *Epoxy-acrylic polymers based on phenol and para-alkyl substituted phenols* ***Synthetic Polym.J. 3, 70-80, 1997***
12	*C.N.Cascaval,* ***Dan Roşu**** *Asclepias syriaca L., latex bearing plant as a direct source of hydrocarbons and fuel* ***Roum.Chem.Quert.Rev. 6(3), 1991-1999, 1999***
13	***Dan Roşu,*** M.Crudu, Liliana Roşu, I.A.Crudu, C.D. Varganici New eco-efficient products used in leather industry ***Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol.XVII, no. 1, 195-198, 2016***
14	Liliana Roşu*, C-C.Gavat, ***Dan Roşu***, C.D.Varganici Effect of ultraviolet light on the properties of dyed cotton cellulose **Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol.XVII, no. 2, 123-126, 2016**
15	Liliana Roşu*, C.-C. Gavat, C D.Varganici, ***Dan Roşu*** Effect of UV irradiation on the dyeing of cotton fabric with reactive blue 204 ***Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol.XVIII, no. 2, 91-94, 2017***
16	C.D.Varganici, Liliana Roşu, A.-M. Crudu, ***Dan Roşu*** On the thermal behavior of different tanned bovine leathers ***Annals of the University of Oradea, Fascicle of Textiles, Leatherwork, vol.XVIII, no.2,179-182, 2017***

Capitole in carti:

1	***Dan Roşu***, C.N.Cascaval, L.Rosu Poliesteri nesaturati ce contin duble legaturi pe lantul macromolecular sau la capete. Realizarea de retele polimerice pe baza de poliesteri nesaturati si lignina modificata (lignosulfonat de amoniu) In cartea: Polimeri degradabili si biocompatibili Editori: C.Vasile, A.P.Chiriac, L.Nita, **Editura Tehnopress, Iasi, 2006**

2	***Dan Roşu***, L.Rosu Rasini epoxidice, matrici polimere performante pentru materiale composite In cartea: Materiale compozite sustenabile pentru imbunatatirea calitatii vietii Editori: C.Ciobanu, C.Koncsag, **Editura PIM-2006**
3	L.Rosu, ***Dan Roşu*** Compozite multifunctionale pe baza de rasini epoxi In cartea: Materiale compozite sustenabile pentru imbunatatirea calitatii vietii Editori: C.Ciobanu, C.Koncsag, **Editura PIM-2006**
4	***Dan Roşu***, L.Rosu Materiale compozite cu matrici ester-vinilice In cartea: Compozite si nanocompozite polimerice Editori: C.Ciobanu, C.Koncsag, **Editura PIM-2007**
5	G.Cazacu, A.Sdrobis, M.Pintilie, ***Dan Roşu,*** D.Ciolacu, M.Totolin, C.Vasile Chapter 3: Swelling and electrokinetic properties of unbleached/bleached softwood kraft cellulose fibers; pg. 267-281. *COST Action E54 Book,* Avenue Louise 149, B-1050 Brussels, Belgium, "Characterisation of the fine structure and properties of papermaking fibers using new technologies", ISBN: 978-91-576-9007-4 Eds: P.Ander, W.Bauer, S.Heinemann, P.Kallio, R.Passas, A.Treimanis (01/2011).
6	***Dan Roşu,*** C.-D, Varganici, L.Rosu, O.-M. Mocanu (Paduraru) Chapter: Thermal degradation of themosetting blends In cartea: Thermal degradation of polymer blends, composites and nanocomposites, pg. 17-49 Eds: P.M.Visakh, Yoshihiko Arao Springer International Publishing Switwerland 2015
7	***Dan Roşu,*** C.-D.Varganici, L.Rosu Chapter: Multicomponent polymer materials: Photodegradation mechanism In cartea: Photochemical behavior of multicomponent polymeric-based materials Eds: ***Dan Roşu***, P.M.Visakh Springer International Publishing Switwerland 2016
8	L.Rosu, C.-D. Varganici, ***Dan Roşu*** Chapter: Theoretical Aspects Regarding Polymer Photochemistry In cartea: Photochemical behavior of multicomponent polymeric-based materials Eds: ***Dan Roşu***, P.M.Visakh Springer International Publishing Switwerland 2016
9	C.D.Varganici, ***Dan Roşu,*** L.Rosu Chapter: Lifetime prediction of multicomponent polymeric materials In cartea: Photochemical behavior of multicomponent polymeric-based materials Eds: ***Dan Roşu***, P.M.Visakh Springer International Publishing Switwerland 2016

Carti

1	Photochemical behavior of multicomponent polymeric-based materials Eds: ***Dan Roşu***, P.M.Visakh Springer International Publishing Switwerland 201
2	Liliana Roşu, ***Dan Roşu*** *Adezivi pe bază de rășini fenolice* Editura PIM (editură recunoscută CNCSIS), Iași-2020

Articole/studii publicate in extenso in volumele unor manifestari stiintifice internationale recunoscute din tara si strainatate

1	C.I.Simionescu, V.Rusan, V.I.Popa, B.Dragomir, C.N.Cascaval, ***Dan Roşu*** The complex conversion of biomass. Energy and chemical products by integral processing systems ***IUPAC Macro'83Bucharest-Romania, sept. 5-9, 1983***
2	C.N.Cascaval, ***Dan Roşu*** Epoxy-acrylic resins on the basis of para-alkyl substituted phenols as the raw materials ***Conferinta Internationala BRAMAT, Universitatea Transilvania, Brasov, 1-3 martie 2001, vol. 4, pg. 287-290***
3	C.Ciobanu, C.N.Cascaval, ***Dan Roşu***, L.Rosu Properties modification of the Nadolsin PR-200 thermoplastic elastomeric polyurethane with the precipitation temperature ***Conferinta Internationala BRAMAT, Universitatea Transilvania, Brasov, 1-3 martie 2001, vol. 4,pg. 283-286***
4	C.Ciobanu, C.N.Cascaval, ***Dan Rosu***, L.Rosu Polyurethanes synthesized by oxidative coupling of some urethane prepolymers with final aromatic amine groups ***Proceedings of 12th Romanian International Conference on Chemistry and Chemical Engineering, 13-15 sept. 2001, Bucuresti, pg. 113-118***

5	***Dan Roşu,*** C.N.Cascaval, C.Ciobanu, L.Rosu About the thermal degradation of some semi-semi interpenetrating polymer networks based on polyurethane and epoxy maleate of bisphenol A ***Proceedings of 12th Romanian International Conference on Chemistry and Chemical Engineering, 13-15 sept. 2001, Bucuresti, pg. 202-207***
6	C.N.Cascaval, C.Ciobanu, ***Dan Roşu***, L.Rosu Blends and semi-interpenetrating polymer networks based of the polyurethane and epoxy maleat of bisphenol A ***Proceedings of 12th Romanian International Conference on Chemistry and Chemical Engineering, 13-15 sept. 2001, Bucuresti, pg. 175-180***
7	L.Rosu, C.Ciobanu, C.N.Cascaval, ***Dan Roşu*** Effect of UV irradiation on some semi-interpenetrating polymer networks on the basis of polyurethane epoxy maleat of bisphenol A ***Proceedings of 12th Romanian International Conference on Chemistry and Chemical Engineering, 13-15 sept. 2001, Bucuresti, pg. 410-416***
8	C.Ciobanu, C.N.Cascaval, ***Dan Roşu***, L.Rosu Polyhydroxyurethanes. Synthese-properties. ***Le deuxieme Colloque Franco-Roumain de Chimie Appliquee (CoFrRoCA) 10-11 oct. 2002, Bacau, pg. 359-363***
9	***Dan Roşu***, A.Mititelu, C.N.Cascaval, C.Ciobanu Etude de la cinetique de reticulation d'une resine epoxyde mesomorphe par DSC non-isotherme ***Le deuxieme Colloque Franco-Roumain de Chimie Appliquee (CoFrRoCA) 10-11 oct. 2002, Bacau, pg. 359-363***
10	L.Rosu, C.Ciobanu, ***Dan Roşu***, C.N.Cascaval New multicomponent polyurethane materials ***28th ARA Congress American Romanian Academy of Arts and Sciences, Tg.Jiu, 3-8 June 2003***
11	***Dan Roşu,*** C.N.Cascaval, C.Ciobanu Photooxidative behaviour of an aromatic polyurethane. Infrared analysis study ***International Conference on Materials Science and Engineering, BRAMAT, 13-14 March. 2003, Brasov, pg.197-202***
12	C.Ciobanu, ***Dan Roşu***, C.N.Cascaval, L.Rosu Sur le possibilities de modification chimique de la terebentine ***Al III-lea Colloque Franco-Roumain de Chimie Appliquée (CoFrRoCA) 22-26 sept. 2004, Slanic Moldova, Bacau, pg.605-608***
13	***Dan Roşu***, L.Rosu, C.N. Cascaval, C.Ciobanu Reseaux polymeres a base de resinex epoxydes ***Al III-lea Colloque Franco-Roumain de Chimie Appliquée (CoFrRoCA) 22-26 sept. 2004, Slanic Moldova, Bacau, pg. 658-660***
14	L.Rosu, ***Dan Rosu***, C.N.Cascaval, C.Ciobanu Study on thermal and photochemical degradation of bisphenol A epoxy maleate ***30th ARA Congress American Romanian Academy of Arts and Sciences, 5-10 July 2005, Chisinau, Rep.Moldova, pg. 231-234***
15	L.Rosu, F.Mustata, ***Dan Rosu*** Epoxy resins crosslinked with anilin-cyclohexanon-formaldehyde compounds ***International Conference on Materials Science and Engineering, BRAMAT, 24-26 feb. 2005, Brasov***
16	***Dan Rosu,*** D.Ivanov, L.Rosu Thermal behaviour of an aliphatic polymaleamide ***International Conference on Materials Science and Engineering, BRAMAT, 24-26 feb. 2005, Brasov***
17	C.Ciobanu, C.N.Cascaval, ***Dan Rosu***, L.Rosu On some possibilities of turpentine chemification and it's turning to account ***International Conference on Materials Science and Engineering, BRAMAT, 24-26 feb. 2005, Brasov***
18	F.Mustata, I.Bicu, ***Dan Rosu*** Synthesis and characterization of unsaturated polyesters from epoxy resin ***International Conference on Materials Science and Engineering, BRAMAT, 24-26 feb. 2005, Brasov***
19	L.Rosu, C.Ciobanu, ***Dan Rosu***, C.N.Cascaval Vinyl ester matrix resins for advanced materials ***The 31thAnnual Congress of the American Romanian Academy of Arts and Science (ARA), 2007, Brasov, pg. 567-570***
20	L.Rosu, C.N.Cascaval, ***Dan Rosu*** Behaviour of some polymeric networks based on vinyl ester resins and modified lignin to UV radiation ***International Conference on Ecological Materials and Technologies, ECOMAT, sept. 2008, Bucuresti, pg. 72-76***
21	***Dan Rosu***, C.N.Cascaval, L.Rosu Photochemical aging of unsaturated polyesteric networks ***International Conference on Ecological Materials and Technologies, ECOMAT 2008 sept., Bucuresti, Romania, pg. 68-71***
22	L.Rosu, C.Ciobanu, ***Dan Rosu***, C.N.Cascaval Yellowing and IR-changes of polyurethane as result of UV irradiation ***The 33rd Annual Congress of the American Romanian Academy of Arts and Science (ARA) 2009, Sibiu, pg.388-391, vol. II.***
23	L.Rosu, ***Dan Rosu*** Synthesis and characterization of some composite materials basis on hydroxyapatite/vinyl ester resin

	34th Annual Congress of the American Romanian Academy of Arts and Science (ARA) 2010, Bucuresti, pp.83-86
24	L.Rosu, ***Dan Rosu*** Thermal degradation of polyurethane based on MDI ***34th Annual Congress of the American Romanian Academy of Arts and Science (ARA) 2010, Bucuresti, pp.87-90***
25	***Dan Rosu***, L.Rosu, M.Brebu TG/DSC-FTIR-MS: an extremely useful technique for studying thermal analysis of silver sulfathiazole-epoxy resin network ***7th ICOSECS 2010, Bucuresti, pp. 315-321***
26	***Dan Rosu,*** I.Sava, L.Rosu Effect of artificial light irradiation on an aromatic polyimide film ***7th ICOSECS 2010, Bucuresti, pp. 322-329***
27	C.-A.Teaca, ***Dan Rosu***, R.Bodirlau, L.Rosu Photostability of wood coated with epoxized soybean oil ***7th ICOSECS 2010, Bucuresti, pp. 330-337***
28	L.Rosu, ***Dan Rosu***, C. Gavat The influence of UV radiations on some dyed textiles ***35th Annual Congress of the American Romanian Academy of Art and Sciences Congress ARA, Timisoara, 2011, pp.179-183***
29	L. Rosu, ***Dan Rosu***, S. Oprea Predicting and confirming the lifetime of the polyurethane ***35th Annual Congress of the American Romanian Academy of Art and Sciences Congress ARA, Timisoara, 2011, pp.184-187***
30	M.Crudu, G.A.Zainescu, A.M.Crudu, S.Maier, ***Dan Rosu*** Contributions to increasing the eco-efficiency of leather industry by waste revovery and use in the development of new eco-friendly products and TEC ***15th Interdisciplinar Multidisciplinary Scientific GeoConference SGEM Albena, Bulgaria 2015, pp. 641-648***
31	***Dan Rosu,*** M.Crudu, L.Rosu, I.A.Crudu, C.D.Varganici New eco-efficient products used in leather industry ***International Scientific Conference „Innovative solutions for sustenable development of textile and leather industry", 27-28 May 2016, Oradea, pp. 195-198***
32	L.Rosu, C-C.Gavat, ***Dan Rosu***, C.-D.Varganici Effect of ultraviolet light on the properties of dyed cotton cellulose ***International Scientific Conference „Innovative solutions for sustenable development of textile and leather industry", 27-28 May 2016, Oradea,***
33	M.Crudu, A.M.Crudu, S.S. Maier, ***Dan Rosu,*** I.A.Crudu Pathways to circular economy in leather processing. Eco-innovative solutions for waste recovery-recycling-reuse, in the frame of green technologies ***16th Interdisciplinar Multidisciplinary Scientific GeoConference SGEM Albena, Bulgaria 2016,***
34	S.S.Maier, M.Crudu, V.Maier, ***Dan Rosu***, I.A.Crudu A „Deconstruction – rebuilding" approach in the valorization of protein – containing leather wastes ***16th Interdisciplinar Multidisciplinary Scientific GeoConference SGEM Albena, Bulgaria 2016,***
35	M.Crudu, S.S.Maier, ***Dan Rosu***, I.A.Crudu Study on obtaining keratin extracts from leather industry by-products ***6th International Conference on Advanced Materials and Systems, Oct. 2016, Bucuresti***
36	M.Crudu, Liliana Rosu, ***Dan Rosu***, S.Maier, I.A.Crudu Contributions to recovery and effective use of unmanageable waste from the leather and metallurgic industries ***7th TexTeh International Conference Bucharest, Oct. 22-23, 2015, pp. 109-115***
37	Liliana Roşu, C.-A. Teaca, ***Dan Roşu***, C.-D.Varganici, E.Marlică Study of UV irradiation effect on wood surface chemistry ***The 11th International Conference "WOOD SCIENCE AND ENGINEERING IN THE THIRD MILLENNIUM" ICWSE 2017, Braşov, România***
38	***Dan Roşu***, Liliana Roşu, T. Rusu, C.-A.Teacă, C.-D. Varganici Colour modification of wood in simulated sunlight exposure ***The 11th International Conference "WOOD SCIENCE AND ENGINEERING IN THE THIRD MILLENNIUM" ICWSE 2017, Braşov, România***
39	C.-A.Teacă, Liliana Roşu, C.D.Varganici, ***Dan Roşu***, F.Mustață, T.Rusu Structural changes on wood surface and thermal properties evaluation after chemical treatment ***The 11th International Conference "WOOD SCIENCE AND ENGINEERING IN THE THIRD MILLENNIUM" ICWSE 2017, Braşov, România***
40	Liliana Roşu, F. Mustață, ***Dan Roşu***, T. Rusu, C.-A. Teacă, C.-D. Varganici, E. Marlică Photostability evaluation of softwood modified with epoxidized oils ***The 12th International Conference "WOOD SCIENCE AND ENGINEERING IN THE THIRD MILLENNIUM" ICWSE 2019, Braşov, România***
41	C.-D. Varganici, **Liliana Roşu**, F. Mustață, ***Dan Roşu***, I. Roșca, T. Rusu, E. Marlică, C.-A. Teacă Epoxidized vegetable oils for wood protection against fungal degradation ***The 12th International Conference "WOOD SCIENCE AND ENGINEERING IN THE THIRD MILLENNIUM" ICWSE 2019, Braşov, România***

42	C.-A. Teacă, **Liliana Roşu**, T. Rusu, ***Dan Roşu***, C-D. Varganici, E. Marlică Structural changes in chemically modified wood evidenced by FTIR spectroscopy and X-ray diffraction analysis ***The 12th International Conference "WOOD SCIENCE AND ENGINEERING IN THE THIRD MILLENNIUM" ICWSE 2019, Braşov, România***

Articole/studii publicate in extenso in volumele unor manifestari stiintifice nationale

1	***Dan Rosu***, C.Ciobanu, C.N.Cascaval, L.Rosu Polymers from turpentine ***4th National Conference, New Research Trends in Materials Science, ARM-4, 4-6 sept. 2005, Constanta, pg. 109-112***
2	L.Rosu, C.N.Cascaval, ***Dan Rosu*** Curing of vinyl ester resins rheological behaviour ***4th National Conference, New Research Trends in Materials Science, ARM-4, 4-6 sept. 2005, Constanta, pg. 795-802***
3	***Dan Rosu***, D.Ivanov Thermal degradation of some polymaleamides ***4th National Conference, New Research Trends in Materials Science, ARM-4, 4-6 sept. 2005, Constanta, pg. 788-794***
4	L.Rosu, C.N.Cascaval, ***Dan Rosu***, C.Ciobanu Compozite rasini ester vinilice – produsi naturali (terebentina) ***Conferinta "Gorjeanul in mileniul III" Tg.Jiu, 18-19 nov. 2005***
5	O.Petreus, C.Ciobanu, C.Hamciuc, T.Vlad-Bubulac, ***Dan Rosu*** Proprietatile mecanice ale unor rasini polimerice ***Simpozion national: Produse si tehnologii pentru protectia obiectivelor de patrimoniu cultural impotriva agentilor biologici daunatori (microorganisme, insecte) 10-12 nov. 2005, Sinaia***
6	***Dan Rosu***, C.N.Cascaval, L.Rosu Accelerating aging of vinyl ester network. Photochemical aspects ***The 4th National Conference "New Research Trends in Material Science ARM-4". Sept. 2007, Sibiu, pg. 391-393***
7	L.Rosu, C.Ciobanu, C.N.Cascaval, ***Dan Rosu*** Vinyl ester resins-polyterpenes. Interpenetrating polymer networks ***The 4th National Conference "New Research Trends in Material Science ARM-4". Sept. 2007, Sibiu, pg. 949-952***

Brevete acordate:

1	C.I.Simionescu, C.N.Cascaval, ***Dan Rosu***, G.Rusu, N.Tudorachi, V.Rusan Compozitie adeziva sensibila la presiune si procedeu de obtinere a acesteia ***Brevet RO nr. 88603, 19.07.1985***
2	A.Mugur, C.N.Cascaval, Z.Dragoi, V.Rusan, ***Dan Rosu,*** V.Bors-Pop, G.Ioachim, N.Tudorachi, G.Rusu Compozitie adeziva pentru support textile si procedeu de obtinere a acesteia ***Brevet RO nr. 95255, din 11.02.1988***
3	***Dan Rosu***, C.N.Cascaval, G. Rusu, N.Tudorachi Compozitie adeziva sensibila la presiune cu intarire la temperatura si procedeu de obtinere a acesteia ***Brevet RO nr. 99795 din 26.10.1989***
4	C.N.Cascaval, ***Dan Rosu***, N.Tudorachi, G.Rusu Procedeu pentru obtinerea unei rasini fenolice destinate fabricarii de adezivi ***Brevet RO nr. 101094 din 1992***

Granturi/contracte cu finantare din strainatate:

1	C.Ciobanu, O.Petreus, S.Oprea, S.Vlad, ***Dan Rosu***, C.Tudose, G.Moroi, L.Rosu, M.Ignat, E.Stoica, L.Ignat, , L.Gradinaru, O.Potolinca, C.Pogor, P.Neacsu **FP7-NMP-2007-LARGE-1-214539/ConstantinCIOBANU; 2008-2013** Bioactive highly porous and injectable scaffolds controlling stem cell recruitment proliferation and differentiation and enabling angiogenesis for cardiovascular engineered tissues (BIOSCENT) **Valoare: 135.906 €**
2	T.Rusu, ***Dan Rosu***, F.Mustata, L.Rosu, C.-A.Teaca, C.D.Varganici ***ERA IB 2, Programul Cooperare europeana si internationala Orizont 2020*** Wood and derivatives protection by novel bio-coating solutions (PROWOOD) **Valoare: 250.000 €**

Granturi si contracte in tara :

1	***Dan Rosu***, C. Ciobanu, C. N. Cascaval, L. Rosu, L. Ignat, C. Cotofana **Grant MEC, tip C** **Director de proiect: *Dan Rosu*** Cod B3: Retele polimerice interpenetrate pe baza de poliuretan, cu potential de aplicare ca materiale de acoperire si protectie de suprafete, respectiv produse finite de uz comercial **Valoare totala: 6.250 RON**
2	C. Ciobanu, C.N.Cascaval, ***Dan Rosu***, St.Oprea, St.Vlad, L. Rosu, Stoica Emil

	Contract CERES nr. C3 – 126/17.11.2003 Director proiect: C. Ciobanu Efectul ionului metalic in matrici polimerice nanostructurate multifunctionale **Valoare total: 28.340 RON**
3	***Dan Rosu***, C.N. Cascaval, C. Ciobanu, L. Rosu, E. Stoica, O.Paduraru **Grant CNCSIS, tip A** **64/09.05.2007 Cod CNCSIS 927** **Director proiect: *Dan Rosu*** Compozite rasini ester-vinilice-produsi naturali (terebentina) cu aplicatii speciale. Sinteza-caracterizare-utilizare **Valoare totala: 60.000 RON**
4	***Dan Rosu***, C.N. Cascaval, L. Rosu Director de proiect: Dr. C. Vasile **Contract tip CEEX nr. 10/2005** Arhitecturi inovative degradabile, biocompatibile, bioactive pe baza de macromolecule naturale si sintetice **Valoare totala: 630.000 RON**
5	C.Ciobanu, C.N.Cascaval, A.Airinei, ***Dan Rosu,*** L. Rosu, E.Stoica, D.Cotzur, C.Grigoras, O.Paduraru, M.State **Contract tip CEEX, nr. 57/2006** Director proiect: C.Ciobanu Compozite polimerice sustenabile pentru imbunatatirea calitatii vietii. **Valoare totala: 54.930 RON**
6	C.Ciobanu, C.N.Cascaval, ***Dan Rosu***, N.Olaru, A.Chiriac, L.Olaru, St.Oprea, S.Vlad, N.Tudorachi, I.Neamtu, L.Rosu, L.Nita, O.Paduraru, E.Stoica **Contract CEEX, nr. 26/2005,** Director proiect: C.Ciobanu Materiale avansate multifunctionale dopate cu nanopulberi de argint **Valoare totala: 350.000 RON**
7	***Dan Rosu,*** L.Rosu, C.-A.Teaca, R.Bodirlau, O.M.Paduraru (Mocanu), M.Nistor, C.D.Varganici, E.Marlica **Proiect: PN-II-ID-PCE-2011-3-0187** **Director proiect: *Dan Rosu*** Cercetari avansate privitoare la comportarea sistemelor polimerice multicomponente sub actiunea controlata a factorilor de mediu **Valoare totala: 1.420.000 RON**
8	**Dan Rosu,** L.Rosu, C.D.Varganici, T.Rusu, M.Doroftei, A.Coroaba, A.Petrovici Sistem inovativ de produse si tehnologii destinat stimularii cresterii eco-eficientei industriei de pielarie Proiect parteneriat: CNCS – UEFISCDI, nr. PN-II-PT-PCCA-2013-4-0436 (PROECOPEL) **Responsabil proiect ICMPP Iasi: *Dan Rosu*** **Valoare totala: 100.000 RON**

Produse omologate

1	Banda adeziva pe suport din folie poliesterica "MOLDOBAND PET" ***Dan Rosu*** (responsabil produs), V.Rusan, C.N.Cascaval, N.Tudorachi, Gh.Rusu, I.Prisecariu
2	Banda adeziva pe suport din folie de aluminiu "MOLDOBAND Al-1" program aeronautic **(1986)** ***Dan Rosu*** (responsabil produs), V.Rusan, C.N.Cascaval, N.Tudorachi, Gh.Rusu
3	Banda adeziva pe suport din folie de aluminiu cu adeziv elastomeric "Moldoband Al III" **(1988)** ***Dan Rosu*** (responsabil produs), V.Rusan, C.N.Cascaval, N.Tudorachi, Gh.Rusu
4	Banda adeziva pe suport din din folie de aluminiu pentru izolatii termice "Moldoband Al HH" **1988** V.Rusan, C.N.Cascaval, ***Dan Rosu***, N.Tudorachi, Gh.Rusu
5	Banda adeziva pe suport din folie de aluminiu "Moldoband Al 0" **1989** V.Rusan, C.N.Cascaval, ***Dan Rosu***(responsabil produs), N.Tudorachi, Gh.Rusu
6	Banda adeziva pe suport din PVC plastifiat Moldoband F ***Dan Rosu*** (responsabil produs – program asimilari pentru industria aeronautica), V.Rusan

Tehnologii la faza de laborator

1	Tehnologie de obtinere a adezivului "Izofix 3". **Dan Rosu** (responsabil), V.Rusan, C.N.Cascaval, A.Stoleriu, N.Tudorachi, Gh.Rusu, C.Munteanu

Tehnologii la faza micropilot si pilot

1	Proces tehnologic pentru obtinerea benzilor autoadezive pe suport din poliester (Material 081/1983) – Faza pilot ***Dan Rosu (responsabil)**, V.Rusa, C.N.Cascaval, Gh.Rusu, N.Tudorachi, I.Prisecariu, V.Iacob, G.Postica*
2	Tehnologie de obtinere a benzilor autoadezive "Moldoband PET-3"- Faza pilot ***Dan Rosu (responsabil)**, V.Rusan, C.N.Cascaval, A.Stoleriu, N.Tudorachi, Gh.Rusu, Munteanu C*
3	Proces tehnologic faza pilot de obtinere a benzilor autoadezive pe suport din aluminiu "MOLDOBAND Al III" ***Dan Rosu (responsabil)**, V.Rusan, C.N.Cascaval, N.Tudorachi, Gh.Rusu*

4	Proces tehnologic faza micropilot si pilot de obtinere a benzilor pe suort din aluminiu "MOLDOBAND Al-II" ***Dan Rosu (responsabil program prioritar de asimilari pentru aeronautica),*** *V.Rusan, C.N.Cascaval, N.Tudorachi, Gh.Rusu, A.Stoleriu*
5	Proces tehnologic faza pilot de obtinere a benzilor autoadezive pe suport din folie plastifiata din PVC "MOLDOBAND F" ***Dan Rosu (responsabil program prioritar de asimilari pentru aeronautica),*** *V.Rusan, C.N.Cascaval, N.Tudorachi, Gh.Rusu*
6	Proces tehnologic faza micropilot pentru valorificarea complexa a unor resurse vegetale cu continut ridicat de hidrocarburi, 1984 ***Dan Rosu (responsabil contract de cercetare stiintifica si dezvoltare tehnologica)*** *Instalatie micropilot existenta in incinta institutului*

Proces tehnologic semiindustrial/industrial

1	Benzi electroizolante de la Intreprinderea Chimica "Victoria" Bucuresti (imbunatatire produs). Faza industriala ***Dan Rosu (responsabil produs),*** *V.Rusan, C.N.Cascaval, Gh.Rusu, N.Tudorachi, A.Stoleriu*

Aplicare prin microproductie de tehnologii sau brevete

1	Banda adeziva pe suport din folie de aluminiu "MOLDOBAND Al-III", microproductie realizata pentru Centrala nuclearo-electrica "Cernavoda" si CNIAR-Bucuresti la ICPCH "Palas" Constanta *C.N.Cascaval,* ***Dan Rosu****, N.Tudorachi, Gh.Rusu*
2	Banda adeziva pe suport din folie de PVC plastifiat "MOLDOBAND F" pentru Intreprinderile de Avioane Brasov si Bucuresti ***Dan Rosu****, Ioan Prisecariu*
3	Banda adeziva pe suport din poliester (CS 40/83) *C.N.Cascaval,* ***Dan Rosu****, N.Tudorachi, Gh.Rusu*
4	Benzi adezive asimilate: ICECHIM Bucuresti, I.Ch.Brasov, I.Ch.Victoria Bucuresti, in perioada 1982-1985 *Responsabil program aeronautica:* ***Dan Rosu***

Caiete de sarcini/Norma tehnica de ramura

1	C.S. 43/83 Iassol III, adezivi pe baza de elastomeri si polimeri acrilici *V.Rusan, C.N.Cascaval,* ***Dan Rosu****, N.Tudorachi, Gh.Rusu*
2	C.S. 84/1988 Iassol IV, adezivi pe baza de elastomeri si rasini sintetice *V.Rusan,* ***Dan Rosu****, N.Tudorachi, Gh.Rusu*
3	C.S. 40/83, Moldoband PET, banda adeziva pe suport poliesteric ***Dan Rosu (responsabil produs),*** *V.Rusan, C.N.Cascaval, N.Tudorachi, Gh.Rusu*
4	C.S. 63/1985; Moldoband Al-1, Banda adeziva pe support din folie de aluminiu (pentru aeronautica) ***Dan Rosu (responsabil produs),*** *V.Rusan, C.N.Cascaval, N.Tudorachi, Gh.Rusu, A.Stoleriu*
5	C.S. 67/1986; Moldoband HH ; Banda de Al cu adeziv acrilic *V.Rusan, C.N.Cascaval,* ***Dan Rosu****, N.Tudorachi, Gh.Rusu*
6	C.S. 79/1987; Banda autoadeziva pe suport din folie de PVC plastifiat MOLDOBAND F-PVC ***Dan Rosu (responsabil produs-program aeronautica),*** *V.Rusan*
7	C.S. 101/1989 ; Banda autoadeziva pe suport din folie de aluminiu MOLDOBAND Al-HH, pentru izolatii termice *V.Rusan, C.N.Cascaval,* ***Dan Rosu****, N.Tudorachi, Gh.Rusu*

Tehnologii omologate

1	Proces tehnologic pentru obtinerea benzilor autoadezive pe suport din folie poliesterica in comisia de specialitate ICECHIM Bucuresti ***Dan Rosu (responsabil),*** *V.Rusan, C.N.Cascaval, N.Tudorachi, Gh. Rusu, I.Prisecariu*
2	Banda adeziva pe suport din folie de aluminiu – Omologare I.Ch. Petru Poni (P.V. 8/15.10.1994) ***Dan Rosu (responsabil),*** *V.Rusan, C.N.cascaval, N.Tudorachi, Gh.Rusu*
3	Tehnologie pilot de obtinere a benzilor autoadezive pe suport din folie de aluminiu Moldoband Al-1 si Moldoband Al-2, Omologare I.Ch. Petru Poni, PV 5/23.06.1986 ***Dan Rosu (responsabil),*** *V.Rusan, C.N.Cascaval, N.Tudorachi, Gh.Rusu*
4	Tehnologie pilot de obtinere a benzilor autoadezive din folie de aluminiu Moldoband Al III (1988) ***Dan Rosu (responsabil),*** *V.Rusan, C.N.Cascaval, N.Tudorachi, Gh.Rusu*